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Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC);
User Equipment (UE) conformance specification;
Part 3: Test suites
(3GPP TS 36.523-3 version 12.6.0 Release 12)





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## **Foreword**

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## Introduction

The present document is part 3 of a multi-part conformance test specification for the 3GPP evolved User Equipment (UE). The specification contains a TTCN-3 design frame work and the detailed test specifications in TTCN-3 for evolved UE at the UE-E-UTRAN radio interface.

- 3GPP TS 36.523-1 [1]: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- 3GPP TS 36.523-2 [2]: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- **3GPP TS 36.523-3: "Test Suites"** (the present document).

# 1 Scope

The present document specifies the protocol and signalling conformance testing in TTCN-3 for the 3GPP UE at the UE-E-UTRAN radio interface.

The following TTCN test specification and design considerations can be found in the present document:

- the test system architecture;
- the overall test suite structure;
- the test models and ASP definitions:
- the test methods and usage of communication ports definitions;
- the test configurations;
- the design principles and assumptions;
- TTCN styles and conventions;
- the partial PIXIT proforma;
- the test suites.

The Abstract Test Suites designed in the document are based on the test cases specified in prose (3GPP TS 36.523-1 [1]). The applicability of the individual test cases is specified in the test ICS proforma specification (3GPP TS 36.523-2 [1]).

The present document is valid for TTCN development for LTE and LTE-A UE conformance test according to 3GPP Releases starting from Release 8 up to the Release indicated on the cover page of the present document.

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).
- [1] 3GPP TS 36.523-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 36.523-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [3] 3GPP TS 36.508: "Common test environments for User Equipment (UE) conformance testing".
- [4] 3GPP TS 36.509: "Terminal logical test interface; Special conformance testing functions".
- [5] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [6] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[7]	3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract Test Suite (ATS)".
[8]	3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing".
[9]	3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".
[10]	3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance Specification".
[11]	3GPP TS 51.010-2: "Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
[12]	3GPP TS 51.010-5: "Mobile Station (MS) conformance specification; Part 5: Inter-RAT (GERAN to UTRAN) Abstract Test Suite (ATS)".
[13]	ETSI ES 201 873-1: "Methods for Testing and Specification (MTS); The Tree and Tabular Combined Notation version 3; Part 1: TTCN-3 Core Language".
[14]	3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA); "UE Procedures in Idle Mode".
[15]	3GPP TS 36.306 "Evolved Universal Terrestrial Radio Access (E-UTRA); "UE Radio Access Capabilities".
[16]	3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); "Medium Access Control (MAC) protocol specification".
[17]	3GPP TS 36.322:"Evolved Universal Terrestrial Radio Access (E-UTRA); "Radio Link Control (RLC) protocol specification".
[18]	3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); "Packet Data Convergence Protocol (PDCP) Specification".
[19]	3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC); Protocol Specification".
[20]	3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".
[21]	3GPP TS 24.301: "Non-Access-Stratum (NAS) Protocol for Evolved Packet System (EPS); Stage 3".
[22]	3GPP TS 24.303: "Mobility Management based on DSMIPv6; User Equipment (UE) to network protocols; Stage 3".
[23]	3GPP TS 24.304: "Mobility management based on Mobile IPv4; User Equipment (UE) – foreign agent interface; Stage 3".
[24]	3GPP TS 33.401: "3GPP System Architecture Evolution (SAE); Security architecture".
[25]	3GPP TS 33.402: "3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses".
[26]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[27]	ETSI ES 201 873-4: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 4: TTCN-3 Operational Semantics".
[28]	ETSI ES 201 873-5: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 5: TTCN-3 Runtime Interface (TRI)".
[29]	ETSI ES 201 873-6: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 6: TTCN-3 Control Interface (TCI)".
[30]	3GPP TS 36.213: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures".

[31]	3GPP TS 27.005: "Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)".
[32]	3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".
[33]	3GPP TS 27.060: "Packet domain; Mobile Station (MS) supporting Packet Switched services".
[34]	3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception".
[35]	3GPP TS 36.211: "Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation".
[36]	3GPP TS 25.331: "RRC Protocol Specification".
[37]	3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management".
[38]	3GPP2 TSG-C C.S0024_C v2.0: "cdma2000 High Rate Packet Data Air Interface Specification".
[39]	3GPP2 TSG-C C.S0057-E v1.0: "Band Class Specification for cdma2000 Spread Spectrum Systems".
[40]	3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
[41]	3GPP TS 33.203: "3G security; Access security for IP-based services".
[42]	3GPP TS 24.229: "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
[43]	IETF RFC 3320: "Signalling Compression (SigComp)".
[44]	IETF RFC 3485: "The Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Static Dictionary for Signalling Compression (SigComp)".
[45]	IETF RFC 3486: "Compressing the Session Initiation Protocol (SIP)".
[46]	IETF RFC 4896: "Signalling Compression (SigComp) Corrections and Clarifications".
[47]	IETF RFC 5049: "Applying Signalling Compression (SigComp) to the Session Initiation Protocol (SIP)".
[48]	3GPP TS 23.003: "Numbering, addressing and identification".
[49]	3GPP TS 23.060: "General Packet Radio Service (GPRS) Service description; Stage 2".
[50]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[51]	3GPP TS 34.229-3: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract Test Suite ".
[52]	3GPP TS 37.571-4: "User Equipment (UE) conformance specification for UE positioning; Part 4: Test Suites"
[53]	3GPP TS 36.214: " Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer; Measurements".
[54]	IETF RFC 1144: "Compressing TCP/IP headers for low-speed serial links".
[55]	IETF RFC 2507: "IP Header Compression".
[56]	ITU-T Recommendation V.42bis: "Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures".

[57]	ITU-T Recommendation V.44: "Data compression procedures".
[58]	IETF RFC 1035: "DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATION"
[59]	IETF RFC 3596: "DNS Extensions to Support IP Version 6"
[60]	ITU-T Recommendation V.250: " Serial asynchronous automatic dialling and control"
[61]	3GPP TS 24.334: "Proximity-service (ProSe) User Equipment (UE) to ProSe function protocol aspects; Stage 3"
[62]	3GPP TS 25.307: "Requirements on User Equipments (UEs) supporting a release-independent frequency band"
[63]	3GPP TS 23.402: "Architecture enhancements for non-3GPP accesses"
[64]	IETF RFC 5996: "Internet Key Exchange Protocol Version 2 (IKEv2)".
[65]	IETF RFC 3948: "UDP Encapsulation of IPsec ESP Packets".
[66]	IETF RFC 4187 (January 2006): "Extensible Authentication Protocol Method for 3rd Generation Authentication and Key Agreement (EAP-AKA)".
[67]	3GPP TS 24.302: "Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks"

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [26] apply.

### 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [26] apply.

# 4 E-UTRAN/SAE system architecture and test models

# 4.1 Test system architecture

# 4.1.1 General system architecture

The general system architecture is shown in figure 4.1.1-1.

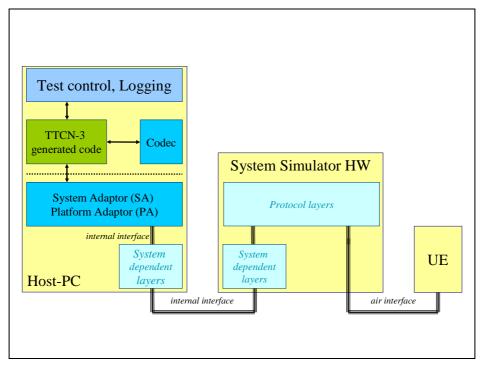


Figure 4.1.1-1: Architecture of system simulator

The scope of the present document is the TTCN-3 implementation of conformance tests. Specifications and definitions of the present document affect the codec and the system adaptor (SA). Test control and logging are out of scope as well as the interface between the TTCN-3 generated code and the system adaptor which can be either standardised TRI or proprietary.

The main assumptions regarding the system architecture are:

- TTCN-3 code runs on the host system only:
  - No TTCN-3 components are downloaded to system simulator HW.
  - Layer 2 tests (MAC, RLC) are controlled by appropriate configuration primitives in TTCN-3 but neither layer 2 nor parts of it are implemented in TTCN-3; the system simulator performs low layer procedure autonomously but all system simulator implementations shall result in the same test pattern at the air interface.
- Proprietary interfaces e.g. instead of the TRI are not considered in the test model.
- The timing considerations of the conformance tests shall be supported by appropriate timing information (e.g. system frame number) provided from/to the system simulator rather than by timing measurements in TTCN-3.

# 4.1.2 Component architecture

For E-UTRAN conformance tests each access technology (RAT) is hosted by a separate TTCN-3 parallel component (PTC):

- E-UTRAN.
- UTRAN.
- GERAN.
- Other technologies like 3GPP2 UTRAN.

The PTCs are controlled by the TTCN-3 master test component (MTC) which:

- is independent from the RAT;
- may host the upper tester for MMI and AT commands;
- creates, synchronises and terminates the PTCs;
- starts and terminates test cases.

Figure 4.1.2-1 shows this component architecture for a E-UTRAN and UTRAN scenario.

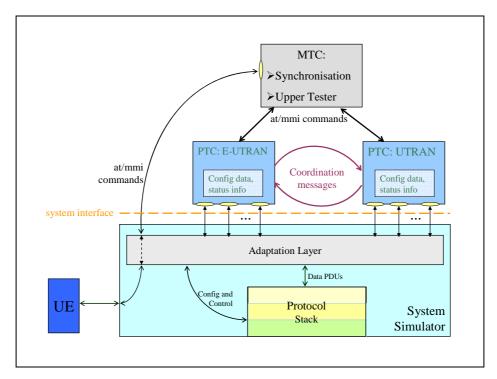


Figure 4.1.2-1:E-UTRAN-UTRAN component model

According to this model there are different interfaces to be considered:

#### MTC - PTC:

- common synchronisation of PTCs;
- upper tester primitives.

#### MTC - System Interface:

- upper tester primitives.

#### PTC - PTC:

- primitives containing information for IRAT handover.

#### PTC - System Interface:

- primitives containing peer-to-peer message;
- configuration primitives.

#### 4.2 E-UTRAN test models

## 4.2.1 Layer 2 test models

When test loop mode is used for the Layer 2 tests the DRB ports at the SS side is referred to the raw DRB ones. At the SS side, DRBs are initially configured with default modes and parameters. For the purpose of L2-testing the DRBs may be reconfigured later on as indicated in the subsequent test models (see below).

#### 4.2.1.1 MAC test model

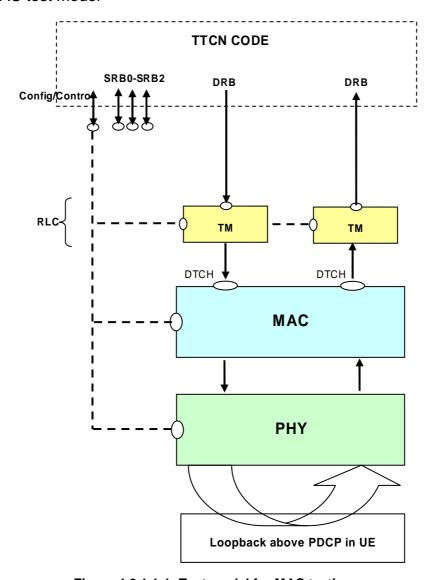


Figure 4.2.1.1-1: Test model for MAC testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled (since Mandatory) but with dummy ciphering algorithm, which is equivalent to not using ciphering. ROHC is not configured on UE Side.

On the SS Side, Layer 1 is configured in the normal way. MAC is configured in a special mode, where it does not add any MAC headers in DL and /or not remove any MAC headers in UL directions respectively at DRB port. In this case, the TTCN shall provide the final PDU, including padding. Except for this, the MAC layer shall perform all of its other functions.

On DRBs the RLC is configured in transparent mode. Hence with this configuration PDU's out of SS RLC are same as the SDU's in it. There is no PDCP configured on SS Side. The ports are directly above RLC.

There are two different test modes in which MAC header addition/removal can be configured:

DL/UL header-transparent mode: no header addition in DL and no header removal in UL.

DL only header-transparent mode: no header addition in DL; UL MAC is configured in normal mode to remove MAC header and dispatch the MAC SDUs according to the logical channel Ids.

If SS MAC is configured in DL/UL header-transparent mode, the PDU's exchanged at the DRB port between TTCN and SS, shall be the final MAC PDU's consisting of MAC, RLC and PDCP headers. TTCN code shall take care in DL of building MAC header, RLC headers and PDCP headers and in UL handle MAC, RLC and PDCP headers. TTCN code shall take care of maintaining sequence numbers and state variables for RLC and PDCP layers. During testing of multiple DRBs at the UE side, it shall still be possible to configure only one DRB on SS side with configuration in the figure 4.2.1.1-1. Other DRBs will not be configured, to facilitate routing UL TBSs. Multiplexing/de-multiplexing of PDUs meant/from different DRBs shall be performed in TTCN. Since the MAC layer does not evaluate the MAC headers in UL it cannot distinguish between SRB and DRB data in UL. Therefore there shall be no SRB traffic while MAC is configured in this test mode.

If SS MAC is configured in DL only header-transparent mode, the UL PDUs exchanged at the DRB port between TTCN and SS, shall be final RLC PDUs consisting of RLC and PDCP headers. SS shall route these PDUs based on logical channel IDs. In DL, TTCN sends fully encoded MAC PDUs at the DRB port (consisting of MAC, RLC and PDCP headers). In this case TTCN needs to take care of maintaining sequence numbers and state variables for RLC and PDCP layers. Furthermore in UL and DL the SS MAC layer shall be capable of dealing with SRB data (i.e. it shall handle DL RLC PDUs coming from SRBs RLC layer or dispatch UL RLC PDUs to SRBs) as in normal mode.

NOTE: TTCN shall ensure that no DL MAC SDUs in normal mode and DL MAC PDUs in test mode are mixed for the same TTI.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured. In a similar way the reception of RACH preambles is reported by SS over the same port.

#### 4.2.1.2 RLC test model

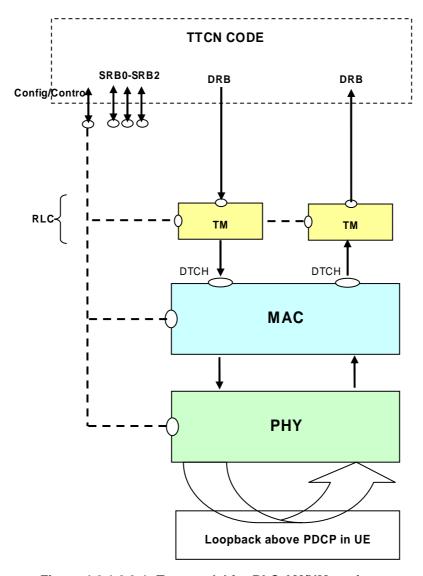


Figure 4.2.1.2.3-1: Test model for RLC AM/UM testing

This model is suitable for testing both UM/AM mode of operation of DRBs on UE side.

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled (since mandatory) but with dummy ciphering algorithm, which is equivalent to not using ciphering. ROHC is not configured on UE Side.

On the SS Side, L1 and MAC are configured in the normal way. The RLC is configured in transparent mode. Hence with this configuration PDUs out of SS RLC are same as the SDUs in it. There is no PDCP configured on SS Side. The ports are directly above RLC.

The PDUs exchanged between TTCN and SS, shall be the final RLC PDUs consisting of RLC and PDCP headers. TTCN code shall take care in DL of building RLC headers and PDCP headers and in UL handle RLC and PDCP headers. TTCN code shall take care of maintaining sequence numbers and state variables for RLC and PDCP layers. If RLC on UE side is in AM mode, TTCN shall take care of generating polls in DL and responding with RLC control PDUs on reception of UL Poll.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port.

#### 4.2.1.3 PDCP test model

#### 4.2.1.3.1 PDCP ROHC test model

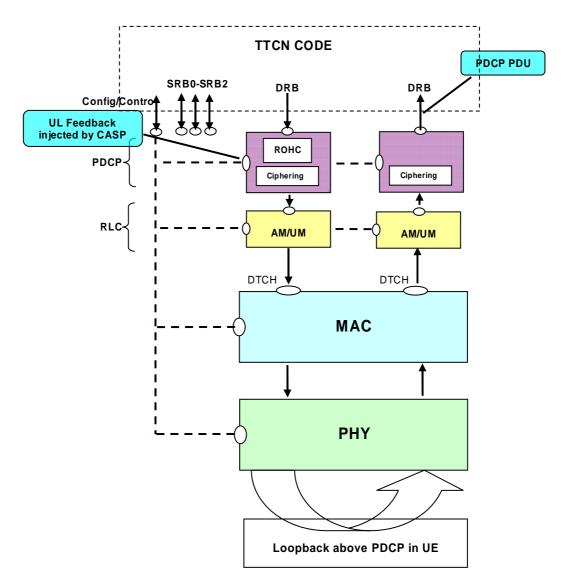


Figure 4.2.1.3.1-1: Test model for PDCP ROHC testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled and ROHC is configured.

On the SS Side L1, MAC and RLC are configured in normal way. They shall perform all of their functions. The ports are above PDCP.

The PDCP is configured in special mode, with no header manipulation. Ciphering is configured in both directions. ROHC is configured in DL direction only. UL ROHC feedback can be injected by control ASP. It shall be possible to configure 'no header manipulation' mode independently in UL and DL directions. When configured in special mode, SS shall not add PDCP header (DL) and remove PDCP Header (UL). PDCP state variables shall be maintained by SS PDCP layer. It shall be possible for SS PDCP to update state variables based on the PDU's in both directions, even though headers are not added/removed. Also, it shall be possible to read or set the PDCP internal state variables, by control primitives.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

#### 4.2.1.3.2 PDCP test model (Non ROHC)

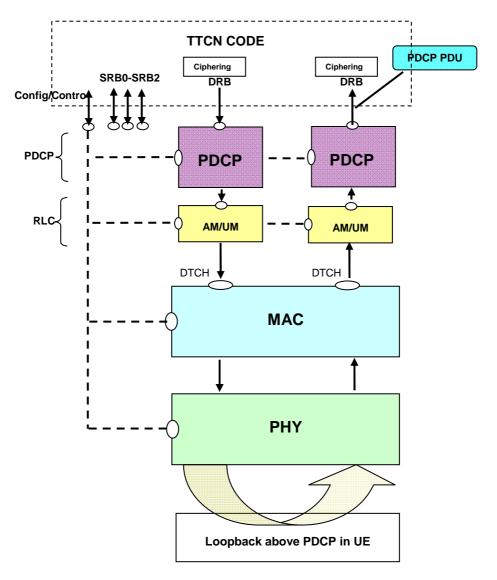


Figure 4.2.1.3.2-1: Test model for PDCP (Non ROHC) testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled and ROHC is not configured.

On the SS Side L1, MAC and RLC are configured in normal way. They shall perform all of their functions. The ports are above PDCP.

The PDCP is configured in a special mode, named transparent mode. In this mode, SS shall not add PDCP header (DL) and remove PDCP Header (UL). The TTCN maintains sequence numbers and state variables for the PDCP layer. The TTCN makes use of the AS ciphering functionality in both directions, employing the dummy ciphering algorithm. Ciphering/deciphering are performed using TTCN external functions. ROHC is not configured.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

#### 4.2.2 RRC test model

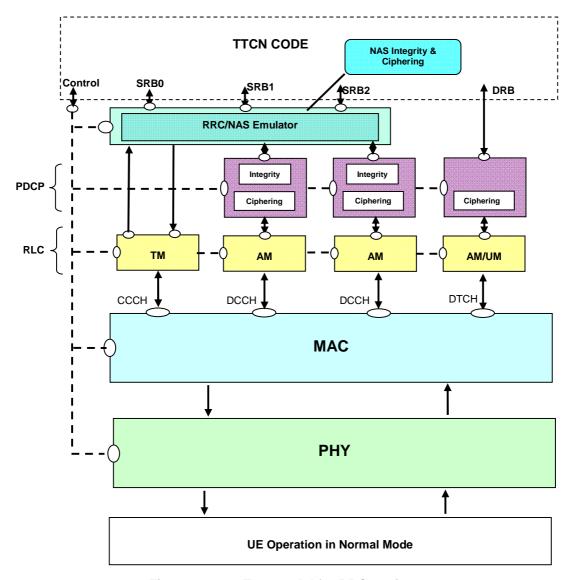


Figure 4.2.2-1: Test model for RRC testing

The UE is configured in normal mode. On UE side Ciphering/Integrity (PDCP and NAS) is enabled and ROHC is not configured.

On the SS Side L1, MAC, RLC and PDCP are configured in normal way. They shall perform all of their functions. For SRB0 the DL and UL port is above RLC. For SRB1 and SRB2 the port is above/below the RRC and NAS emulator, which may be implemented as a parallel test component. For DRB, the port is above PDCP. PDCP Ciphering/Integrity is enabled. NAS integrity/Ciphering is enabled.

The RRC/NAS emulator for SRB1 and SRB2 shall provide the Ciphering and integrity functionality for the NAS messages. In UL direction, SS shall report RRC messages, still containing (where appropriate) the secure and encoded NAS message, to the RRC port. In DL, RRC and NAS messages with same timing information shall be embedded in one PDU after integrity and ciphering for NAS messages.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

#### 4.2.3 DRB test model

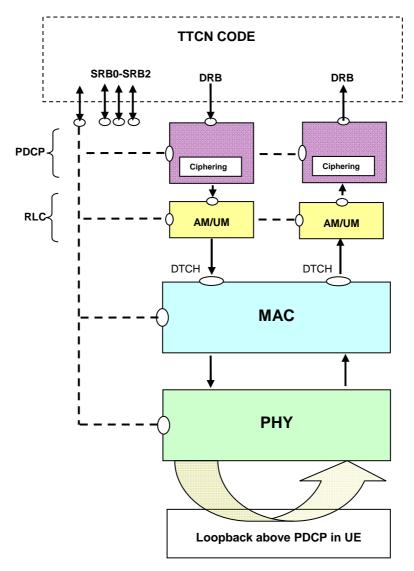


Figure 4.2.3-1: Test model for DRB testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. Ciphering is optionally configured on UE side. In TTCN the DRB data is considered as raw data and there is no IP handling while the UE is in loopback mode.

On the SS Side L1, MAC, RLC and PDCP are configured in normal way. They shall perform all of their functions. The ports are above PDCP. When test loop mode is used for the DRB, the ports at the SS side refer to the raw DRB ones. Ciphering is enabled and ROHC is not configured on SS Side.

SS shall send in DL all PDU's received from different RB's but with same timing control information in one MAC PDU and in one TTI.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception over system indication port, if configured.

#### 4.2.4 IP Test Model

Depending on different test scenarios user plane data can be distinguished in:

- Raw user data upon EUTRA PDCP (Raw mode);

- IP user data (IP mode).

The raw user data are applied for L2 or DRB tests, no IP protocols are involved. The UL user data is directly routed to the EUTRA PTC.

The IP user data are applied when IP packets data are discarded, looped back or handled in TTCN. A DRB can have one or more Transport and Internet protocols configured.

Whether a DRB is in IP or in raw mode depends on the configuration of the routing table in the DBR-Mux. This is controlled by the IP\_CTRL port and independent from the configuration of the IP connections (IP\_SOCKET).

#### 4.2.4.1 IP user data

To allow the usage of common protocol implementations at the system adaptor the related interfaces in TTCN-3 are based on the Sockets API.

There can be one or several sockets (server or client) for each DRB: TCP, UDP and ICMP.

Each socket can be clearly identified by the IP address, port number and the protocol (tcp|udp\icmp). It implies that a TCP socket can be either server or client.

It is assumed that:

- Different DRBs are not using the same sockets.
- The UE behaviour of a single IP-based protocol on a specific socket like DHCP can be included in conformance tests
- Other protocols like ESP are not considered but can easily be introduced later, if necessary, by using the same socket approach.

The routing of IP packets from the IP stack to the DRBs in DL, and from the DRBs either to the DRB port (E\_DRB in case of EUTRA) or to the IP stack or discard/loopback in UL is done by the DRB-Mux. This behaviour is controlled by the DRB-Mux's routing table.

The general architecture of the IP test model is shown in figure 4.2.4.1-1 (with a DHCP server as example for IP handling).

NOTE: In figure 4.2.4.1-1 DHCP is one example for a protocol above the IP stack; other protocols like DNS can also be implemented but this a pure TTCN implementation issue and independent from the system interface.

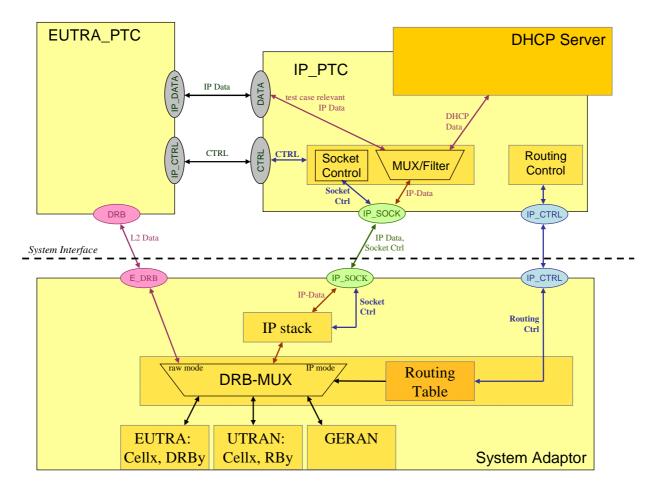


Figure 4.2.4.1-1: Example of EUTRA IP test model with a DHCP server

#### 4.2.4.2 Configuration of Sockets

The following configurations are controlled by the IP\_PTC (IP\_SOCKET\_REQ). The socket configuration and the sending/receiving of data are done with the same ASP on the system port IP\_SOCK.

#### 4.2.4.2.1 Socket Establishment

#### TCP server

TCP socket configured as server: the socket 'listens' to a 'connect' from the UE. The socket can be configured by using the following system calls of the Berkeley Sockets API:

- socket (AF\_INET | AF\_INET6, SOCK\_STREAM, 0);
- setsockopt;
- bind (local IP address Port);
- listen.

NOTE: Currently the only socket option being defined is SO\_BROADCAST

When the UE connects to the server the connection is accepted with the 'accept' system call.

#### TCP client

A TCP connection is established to an existing TCP server at the UE side. This can be done with the following system calls:

- socket (AF\_INET|AF\_INET6, SOCK\_STREAM, 0);
- setsockopt;
- connect (remote Server Addr of the UE = IP-Addr + Port).

#### **UDP** socket

A UDP socket can be established with the system calls

- socket (AF\_INET|AF\_INET6, SOCK\_DGRAM, 0);
- setsockopt;
- bind (local IP address, Port);
- connect.
- NOTE 1: 'setsockopt' can be used to set the option SO\_BROADCAST to allow broadcast messages (e.g. for DHCP).
- NOTE 2: Usage of 'connect' depends on implementation of the system adaptor.

#### 4.2.4.2.2 Socket Release

A socket is released:

- in case of TCP when the remote entity closes the connection;
- when it is closed explicitly by the IP\_PTC (system call 'close').
- NOTE 1: In general the sockets are independent from the configuration of the DRBs. Especially in case of UDP or ICMP the sockets can exist even without any DRB being configured.
- NOTE 2: For IMS, TCP close happens for unprotected ports after initial registration and for protected ports after deregistration or re-registration: Any protected TCP connections are kept as long as the UE is registered independent of whether the RRC connection is released in between. In general TCP close is expected to be done from the client's end.

In detail

- after initial registration TTCN waits  $\Delta T$  seconds for the UE to close any TCP connection on the unprotected port
- after de-registration TTCN waits  $\Delta T$  seconds for the UE to close its client TCP connection; after this is done the TTCN closes any remaining TCP connection (independently of the server/client role)
- after re-registration when there is a new security context TTCN waits  $\Delta T$  seconds for the UE to close its client TCP connection of the old security context.
- as special case after an emergency call the same procedure is applied as for de-registration  $\Delta T$  is 3s.

#### 4.2.4.3 Handling of IP data

Sending and receiving of IP data is done by the same ASPs as the socket establishment on IP\_SOCK. In TTCN the IP data are handled by a separate TTCN component: IP\_PTC. This PTC can deal with the data according to the respective protocol, e.g. DHCP. In general, this is out of scope for the (signalling conformance) test case in terms of pass/fail assignment.

The IP\_PTC will receive data from sockets being configured for the corresponding IP protocols. Any unrecognised IP packets are discarded by the IP stack in the system adaptor.

When the IP data is relevant for the test purpose, e.g. the test purpose is to test DHCP, the IP data are routed to the EUTRA\_PTC. This allows generic protocol implementations for the common case, i.e. IP\_PTC and DHCP server are independent from test case specific implementations.

The interface between EUTRA\_PTC and IP\_PTC is a pure TTCN implementation issue and independent of the system interface. Furthermore it is irrelevant for the system interface whether e.g. the DHCP server is part of the IP\_PTC or implemented as a separate PTC.

- For TCP, the primitives to send and receive data correspond to the 'send' and 'recv' system calls.
- For UDP and ICMP, the primitives correspond to the 'sendto' and 'recvfrom' system calls.
- For both UDP and TCP the system adaptor may send ("in-band") error indications in case of system errors. That results in an assignment of incone by the IP PTC.

#### 4.2.4.4 Routing of IP Data

The routing of IP data is done in the DRB-Mux which gets a routing table configured. This table associates the address and protocol information of IP packets (protocol, local IP address, local port, remote IP address, remote port) with the radio bearer (RAT, cell, DRB id).

In UL a DRB is considered being in raw mode when there is no entry found in the routing table. It is considered being in IP mode when there is any entry regardless of the protocol and address information being stored, i.e. in UL, the SS does not need to evaluate the IP header to route the data (in raw mode this would cause problems in the case of loopback data). In addition for the IP mode, specific entries of the routing table can be flagged to discard or loopback IP packets matching this entry.

The discard mode can be used e.g. for rSRVCC to suppress RTP/RTCP data on the default AM DRB during HO. The major purpose is to discard the data silently (i.e. to suppress any error reporting like ICMP error messages).

NOTE: It is up to system implementation how packets are discarded (explicitly or implicitly by the IP stack) as long as it done silently.

The loopback mode can be configured for RTP and/or RTCP, and depending on the protocol the SS shall manipulate the packets as follows :

- swapping of source and destination address and port.

NOTE: Further manipulation of the RTP header and/or RTCP header is not considered in the present document. Beyond the aforementioned requirements, it is up to system implementation how packets are looped back.

In DL the IP packets of the IP stack are routed to the DRBs acc. to the routing information in the routing table (see annex D for details).

NOTE: Only the IP PTC can re-configure the Routing Table; if that needs to be triggered by a RAT specific PTC, this is done by appropriate coordination messages but the RAT specific PTCs don't have a direct access to the routing tables.

#### 4.2.4.5 Multiple PDNs

In case multiple PDNs broadcast, or multicast datagrams sent by the UE, need to assigned to the respective PDN:

IPv4

When the UE does not get a valid IPv4 address assigned via NAS signalling it will request the IP address via DHCP. In this case there are DHCP broadcast messages in UL.

In the case of multiple PDNs, it cannot be distinguished by evaluating the IP address to which PDN the message belongs but additional information is necessary:

The network side needs to know which interface (i.e. network) the broadcast comes from; in case of LTE this is associated with the default bearer of the particular PDN.

NOTE: In principle the 'chaddr' field or the 'client identifier' option of the DHCP messages may be used to distinguish different interfaces (e.g. for Ethernet this would be the MAC address) but it is not specified how these fields are to be used by the UE (or how to configure them at the UE); RFCs (e.g. RFC 2131) only require the client identifier to be unique in a given subnet.

IPv6

The UE gets an interface identifier assigned via NAS signalling (TS 24.301 [21] clause 6.2.2) which is used as link-local address during stateless address auto configuration (TS 23.060 [43] clause 9.2.1.1 and TS 29.061 [44] clause 11.2):

The UE may send a ROUTER SOLICITATION message (multicast) to which the network responds with a ROUTER ADVERTISEMENT.

Since the ROUTER SOLICITATION message contains the interface identifier as assigned via NAS signalling, even in the case of multiple PDNs it can distinguished which PDN is concerned, as long as the interface identifiers are different for different PDNs (for UE side as well as for network side).

NOTE: According to TS 23.060 [43] clause 9.2.1.1 and RFC 3314 a real network (PDN-GW) itself shall send an (unsolicited) ROUTER ADVERTISEMENT after it has assigned the interface identifier.

Conclusions and Requirements:

In the case of broadcast or multicast messages TTCN needs additional information about the PDN being addressed.

When a socket connection is configured to allow broadcasts and there is a broadcast or multicast message in UL the SS shall provide information about on which bearer the datagram has been sent (RAT, cell, DRB id).

NOTE: From the socket programming point of view multiple PDNs for the SS are like a multi-homed host: Servers for different interfaces are bound to different interfaces (e.g. using the 'bind' system call with a specific IP address instead of IPADDR\_ANY) or a server may retrieve the interface id for a received datagram from the IP stack with an appropriate system call.

Even though the details are implementation dependent, the SS shall be capable of:

determining RAT, cell, DRB id for any broadcast or multicast datagram in UL

avoiding any duplication of messages in UL even when multiple servers are listening to broadcast/multicast messages (what is a possible SS implementation)

#### 4.2.4.6 IP Addresses Guidelines

#### 4.2.4.6.1 Common Structure of IP Addresses

IPv4:

Network prefix (subnet address) n bits

Host part 32-n bits

with 'n' e.g. depending on the network class

IPv6:

Network prefix

Global routing prefix 64 - n bits

Subnet ID n bits

Interface ID 64 bits

Addresses within one network (PDN) have all the same subnet address (IPv4) or global routing prefix (IPv6)

NOTE: As a consequence at the system simulator, routing can be done based on appropriate network masks, but that is dependent on SS implementation and therefore is out of scope for this document.

#### 4.2.4.6.2 Common Requirements regarding IP Addresses

IP addresses are configured via PIXIT parameters as defined in clause 9.1.

These PIXIT parameters shall fulfil the following requirements:

Network and UE addresses shall be different from each other

Network entities (DHCP server, DNS server, P-CSCF etc.) of a given PDN shall all have the same global routing prefix (IPv6) or subnet address (IPv4).

The IP address assigned to the UE shall have the same global routing prefix (IPv6) or subnet address (IPv4) as the corresponding network.

Requirements for IPv6: according to TS 23.401, cl. 5.3.1.2.2

The 64 bit network prefix of a UE's IPv6 address is unique

The UE may change its interface id during auto configuration

The UE must use the given interface id in the link local address for router solicitation but may use any other interface id in the global address

NOTE: As a consequence, the SS implementation needs to cope with the changing of the UE address and cannot rely on static IP address assignment to the UE.

Global routing prefix (IPv6) and subnet address (IPv4) shall be different for different PDNs

Home agent address:

The home agent is located in the UE's home network (which shall be considered to find an appropriate network prefix for the home agent's IP address)

In order to simplify implementations, the following rules shall be applied:

The IPv6 interface identifier as assigned to the UE via NAS signalling shall be unique, i.e.

It shall be different for different PDNs

It shall differ from the interface ids of the other entities on the link (in general the interface id of the PDN-GW)

Multiple PDNs shall have different IPv6 interface identifier for the PDN-GW

NOTE: Consistency checks for addresses of different PDNs can be done based on an appropriate network mask (IPv4, e.g. 255.255.255.0) and global routing prefix (IPv6, e.g. 2001:db8:1234::/48).

#### 4.2.4.6.3 Network Entities and their IP addresses

In general and in accordance of IMS test cases in TS 36.523-1 [1] and TS 34.229-1 [40] the simulated network architecture can be illustrated as in Figure 4.2.4.6.3-1.

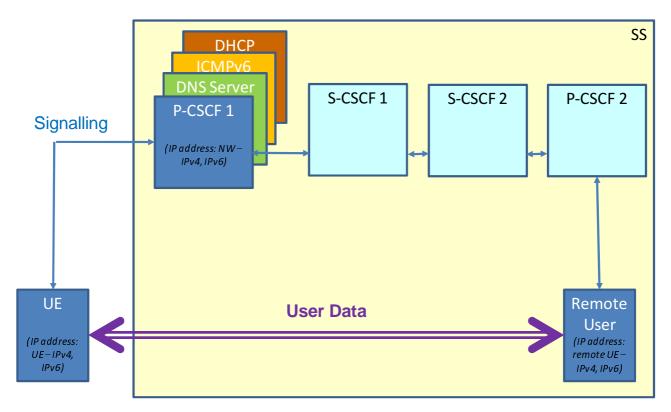


Figure 4.2.4.6.3-1: Simulated Network Architecture

For simplification and to keep the number of PIXITs small, several network entities share the same PIXIT:

px\_IPv4\_AddressXX\_NW: P-CSCF 1 (IPv4 address), DNS Server (IPv4 address), DHCP Server

px\_IPv6\_AddressXX\_NW: P-CSCF 1 (IPv6 address), DNS Server (IPv6 address), ICMPv6 Server

("XX" refers to the respective PDN)

In general , in test cases according to TS 36.523-1 [1] and TS 34.229-1 [40] no IP addresses are needed for S-CSCF 1, S-CSCF 2 or P-CSCF 2.

#### 4.2.4.7 User Plane Signalling for Address Allocation

For IPv4, the UE gets assigned the IP address via NAS signalling unless it explicitly requests to use DHCP.

For IPv6, the UE gets assigned a unique interface identifier to be used until it has successfully performed the auto-configuration procedure (Ref. to RFC 2462).

NOTE: This clause specifies behaviour of the SS (TTCN) to achieve successful IP signalling; but in general, IP signalling is out of scope for conformance tests as defined in TS 36.523-1 [1].

#### 4.2.4.7.1 DHCP

When the UE supports IPv4 and does not get an IPv4 address via NAS signalling it will request the address via DHCP (Ref. to RFC2131).

The UE may send a **DHCPDISCOVER** with or without Rapid Commit Option (Ref. to RFC 4039):

UE sends **DHCPDISCOVER** according to table 4.2.4.7.1-1 with Rapid Commit Option.

TTCN sends **DHCPACK** according to table 4.2.4.7.1-4

UE sends **DHCPDISCOVER** according to table 4.2.4.7.1-1 without Rapid Commit Option.

TTCN sends **DHCPOFFER** according to table 4.2.4.7.1-2

When the Rapid Commit option is not used the UE sends a DHCPREQUEST as response to the DHCPOFFER:

UE sends **DHCPREQUEST** according to table 4.2.4.7.1-3

TTCN sends **DHCPACK** according to table 4.2.4.7.1-4

Any other DHCP messages shall be ignored by TTCN.

Table 4.2.4.7.1-1: DHCPDISCOVER

	UDP	
SRC ADDR	0.0.0.0	any address
SRC Port	68	not checked
DEST ADDR	255.255.255	broadcast
DEST Port	67	
	DHCP	
ор	'01'O	BOOTREQUEST
htype	any value	
hlen	any value	
hops	any value	
xid	any value	
secs	any value	
flags	any value	
ciaddr	any value	0 according to RFC 2131 Table 5
yiaddr	any value	0 according to RFC 2131 Table 5
siaddr	any value	0 according to RFC 2131 Table 5
giaddr	any value	0 according to RFC 2131 Table 5
chaddr	any value	client's hardware address
sname	any value	(may be overloaded with further options)
file	any value	(may be overloaded with further options)
options		NOTE
magic cookie	'63825363'O	
message type	'01'O	DHCPDISCOVER
rapid commit	present	shortened address assignment by 2- message exchange acc. to RFC 4039
	not present	address assignment by 4-message exchange

Table 4.2.4.7.1-2: DHCPOFFER

UDP					
SRC ADDR	valid server address	address as configured by PIXIT			
SRC Port	67				
DEST ADDR	255.255.255.255	broadcast			
DEST Port	68				
DHCP					
ор	'02'O	BOOTREPLY			
htype	as in corresponding DHCPDISCOVER	NOTE 1			
hlen	as in corresponding DHCPDISCOVER	NOTE 1			
hops	,00,O	NOTE 2			
xid	as in corresponding DHCPDISCOVER	NOTE 2			
secs	'0000'O	NOTE 2			
flags	as in corresponding DHCPDISCOVER	NOTE 2			
ciaddr	'00000000'O	NOTE 2			
yiaddr	valid UE address	address to be assigned to the UE (as configured by PIXIT)			
siaddr	0	the UE does not need to retrieve any operating system executable image			
giaddr	as in corresponding DHCPDISCOVER	NOTE 2			
chaddr	as in corresponding DHCPDISCOVER	NOTE 2			
sname	'000000000000000'O				
file	'00000000000000000000000000000000				
options					
magic cookie	'63825363'O				
message type	'02'O	DHCPOFFER			
lease time	86400	one day; mandatory (NOTE 2)			
server identifier	server address	server address as used in the UDP header			
NOTE 1: To get any valid value NOTE 2: According to table 3 in RFC 2131					

Table 4.2.4.7.1-3: DHCPREQUEST

UDP				
SRC ADDR	0.0.0.0	any address		
SRC Port	68	not checked		
DEST ADDR	255.255.255.255	broadcast		
DEST Port	67			
DHCP				
ор	'01'O	BOOTREQUEST		
htype	any value			
hlen	any value			
hops	any value			
xid	any value			
secs	any value			
flags	any value			
ciaddr	any value	0 according to RFC 2131 Table 5		
yiaddr	any value	0 according to RFC 2131 Table 5		
siaddr	any value	0 according to RFC 2131 Table 5		
giaddr	any value	0 according to RFC 2131 Table 5		
chaddr	any value	client's hardware address		
sname	any value	(may be overloaded with further options)		
file	any value	(may be overloaded with further options)		
options		NOTE		
magic cookie	'63825363'O			
message type	'02'O	DHCPREQUEST		
NOTE: Any further options are not evaluated and ignored by TTCN				

Table 4.2.4.7.1-4: DHCPACK

	UDP	
SRC ADDR	valid server address	address as configured by PIXIT
SRC Port	67	not checked
DEST ADDR	255.255.255.255	broadcast
DEST Port	68	
	DHCP	
ор	'02'O	BOOTREPLY
htype	'01'O	
hlen	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
hops	'00'O	NOTE
xid	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
secs	'0000'O	NOTE
flags	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
ciaddr	'00000000'O	NOTE
yiaddr	valid UE address	address to be assigned to the U (as configured by PIXIT)
siaddr	0	the UE does not need to retrieve any operating system executable image
giaddr	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
chaddr	as in corresponding DHCPREQUEST or DHCPDISCOVER	NOTE
sname	(000000000000000)O	
file	O'000000000000000000000000000000000000	
options		
magic cookie	'63825363'O	
message type	'05'O	DHCPACK
lease time	86400	one day; mandatory (NOTE)
server identifier	server address	server address as used in the Ul header
OTE: According to table 3	3 in RFC 2131	

#### 4.2.4.7.2 DHCPv6

DHCPv6 is not needed for E-UTRA conformance tests as defined in 36.523-1[1]

#### 4.2.4.7.3 ICMPv6

When the UE supports IPv6 it will perform IPv6 Stateless Address Auto configuration according to RFC 4862. The UE sends an **ICMPv6 Router Solicitation** message according to table 4.2.4.7.3-1; as response the TTCN sends an **ICMPv6 Router Advertisement** message according to table 4.2.4.7.3-2.

NOTE: The TTCN does not send any (periodic) unsolicited Router Advertisement, i.e. the UE is expected to ask for an immediate advertisement whenever it is needed.

Any other ICMPv6 messages are ignored by the TTCN (especially in accordance to TS 23.060, clause 9.2.1.1, the TTCN silently discards Neighbour Solicitation).

Table 4.2.4.7.3-1: ICMPv6 Router Solicitation

IPv6				
SRC ADDR	link local address	NOTE 1		
DEST ADDR	multicast address	NOTE 2		
ICMPv6 (Ref. to RFC 4861)				
type	133	Router Solicitation		
code	0			
checksum	not checked			
reserved	ignored			
options				
source link-layer address	ignored if present			
other options	ignored			

NOTE 1: The UE shall use the interface identifier as assigned via NAS signalling (but this is not checked in

NOTE 2: TTCN detects the multicast address by checking it to start with FF02 but accepts any of these addresses.

Table 4.2.4.7.3-2: ICMPv6 Router Advertisement

IPv	<b>7</b> 6				
SRC ADDR	link local address (NW)	NOTE 1			
DEST ADDR	link local address (UE)	NOTE 2			
ICMPv6 (Ref. to RFC 4861)					
type	134	Router Advertisement			
code	0				
checksum	calculated by TTCN				
current hop limit	64	arbitrarily selected			
m-flag	'0'B	no "Managed address configuration"; NOTE 3			
o-flag	'0'B	no "Other configuration"			
reserved	'000000'B				
router lifetime	65535	max. value			
reachable time	0	unspecified			
retrains timer	0	unspecified			
options					
source link-layer address	not present				
mtu	not present				
prefix information					
type	'03'O				
length	4				
prefix length	64	/64 IPv6 prefix acc. to TS 23.401			
on-link flag	'0'B	no "On-link detection"; NOTE 3			
autonomous address configuration flag	'0'B				
reserved1	'000000'B				
valid lifetime	'FFFFFFFO	infinity; NOTE 3			
preferred lifetime	'FFFFFFFO	infinity; NOTE 3			
reserved2	'00000000'B				
prefix	globally unique /64 IPv6 prefix to be assigned to the UE	NOTE 4, 5			

NOTE 1: The server's link local address is derived from the server's global IPV6 address (PIXIT parameter)

NOTE 2: As received as SRC address of the corresponding Router Solicitation

NOTE 3: Acc. to TS 29.062 clause 11.2.1.3.2

NOTE 4: The routing prefix of the UE's global IPv6 address is derived from the respective PIXIT parameter NOTE 5: Since the UE may change its interface identifier after successful auto configuration to any value in general the IPv6 address used by the UE differs from the PIXIT

#### 4.2.4.7.4 DNS

In general DNS is not needed for E-UTRA conformance tests as defined in 36.523-1[1].

Nevertheless as the IP test model is also applicable for test suites other than 36.523-1[1] handling of certain DNS queries (according to RFC 1035 [58]) is supported over UDP:

Table 4.2.4.7.4-1: Supported DNS Queries

DNS Header		
id	any value	2 octets; id to be used in response
qr	'0'B	query
opcode	'0000'B	standard query
aa	'?'B	Authoritative Answer: any value in query
tc	'0'B	no truncation
rd	'?'B	Recursion Desired: any value
ra	'?'B	Recursion Available: any value in query
Z	'000'B	must be '000'B according to RFC 1035 [58]
rcode	'????'B	Response code: na for query
qdcount	1	unsigned 16 bit integer: number of questions
ancount	0	unsigned 16 bit integer: number of answers
nscount	0	unsigned 16 bit integer: number of authority
		records
arcount	0	unsigned 16 bit integer: number of additional
		records
Questions		
DNS Question: only one question per query is supported		
qname	any value	octetstring with encoded domain name according
		to RFC 1035 clause 4.1.2 [58]
qtype	'0001'O or	Type A (IPv4 Address according to RFC 1035
	'001C'O	clause 3.2.2 [58]) or Type AAAA (IPv6 Address
		according to RFC 3596 clause 2.1 [59])
qclass	'0001'O	IN (internet)

Table 4.2.4.7.4-2: Corresponding DNS Responses

DNS Header			
id	same value as in corresponding query		
qr	'1'B	response	
opcode	same value as in corresponding query		
aa	'1'B	Authoritative Answer	
tc	'0'B	no truncation	
rd	'0'B	no recursion	
ra	'0'B	no recursion	
Z	'000'B		
rcode	'0000'B	no error	
qdcount	1	unsigned 16 bit integer: number of questions	
ancount	1	unsigned 16 bit integer: number of answers	
nscount	0	unsigned 16 bit integer: number of authority records	
arcount	0	unsigned 16 bit integer: number of additional records	
Questions			
DNS Question	same value as in corresponding query		
Answers			
DNS Answer			
qname	same value as in corresponding query/question		
qtype	same value as in corresponding query/question		
qclass	'0001'O	IN (internet)	
ttl	86400	one day	
rdlength	4 for IPv4 16 for IPv6		
rdata	octetstring containing IPv4 or IPv6 address		

# 4.2.4A LTE-Carrier Aggregation test Models

#### 4.2.4A.1 CA-MAC test model

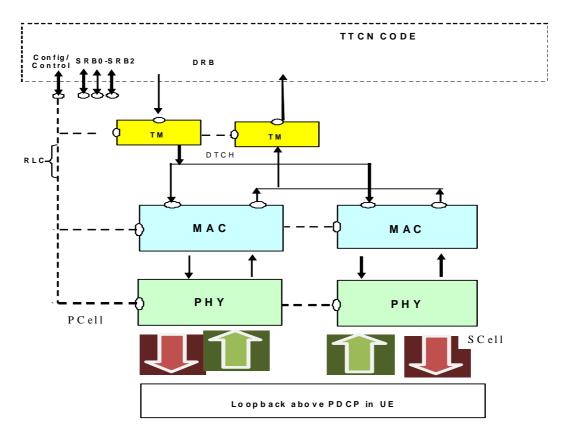


Figure 4.2.4A.1-1: Test model for CA-MAC testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled (since Mandatory) but with dummy ciphering algorithm, which is equivalent to not using ciphering. ROHC is not configured on UE Side.

On the SS Side,

Pcell only: On DRBs the RLC is configured in transparent mode. Hence with this configuration PDU's out of SS RLC are same as the SDU's in it. There is no PDCP configured on SS Side. The ports are directly above RLC.

Pcell/Scell: Layer 1 is configured in the normal way. MAC is configured in a special mode, where it does not add any MAC headers in DL and /or not remove any MAC headers in UL directions respectively at DRB port. In this case, the TTCN shall provide the final PDU, including padding. Except for this, the MAC layer shall perform all of its other functions. For SRB's/BCCH/PCCH the configuration is same as in CA-RRC test model.

There are two different test modes in which MAC header addition/removal can be configured:

DL/UL header-transparent mode: no header addition in DL and no header removal in UL.

DL only header-transparent mode: no header addition in DL; UL MAC is configured in normal mode to remove MAC header and dispatch the MAC SDUs according to the logical channel Ids.

If SS MAC is configured in DL/UL header-transparent mode, the PDU's exchanged at the DRB port between TTCN and SS, shall be the final MAC PDU's consisting of MAC, RLC and PDCP headers. TTCN code shall take care in DL of building MAC header, RLC headers and PDCP headers and in UL handle MAC, RLC and PDCP headers. TTCN code shall take care of maintaining sequence numbers and state variables for RLC and PDCP layers. During testing of multiple DRBs at the UE side, it shall still be possible to configure only one DRB on SS side with configuration in the

figure 4.2.4A.1-1. Other DRBs will not be configured, to facilitate routing UL TBs. Multiplexing/de-multiplexing of PDUs meant/from different DRBs shall be performed in TTCN. Since the MAC layer does not evaluate the MAC headers in UL it cannot distinguish between SRB and DRB data in UL. Therefore there shall be no SRB traffic while MAC is configured in this test mode.

If SS MAC is configured in DL only header-transparent mode, the UL PDUs exchanged at the DRB port between TTCN and SS, shall be final RLC PDUs consisting of RLC and PDCP headers. SS shall route these PDUs based on logical channel IDs. In DL, TTCN sends fully encoded MAC PDUs at the DRB port (consisting of MAC, RLC and PDCP headers). In this case TTCN needs to take care of maintaining sequence numbers and state variables for RLC and PDCP layers. Furthermore in UL and DL the SS MAC layer shall be capable of dealing with SRB data (i.e. it shall handle DL RLC PDUs coming from SRBs RLC layer or dispatch UL RLC PDUs to SRBs) as in normal mode.

NOTE: TTCN shall ensure that no DL MAC SDUs in normal mode and DL MAC PDUs in test mode are mixed for the same TTI.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception in Pcell over system indication port, if configured. In a similar way the reception of RACH preambles in Pcell/Scell is reported by SS over the same port, if configured.

The RACH Procedure configured in active Scell controls the RACH procedure in Scell. The PDCCH order is sent on PDCCH controlling the Scell. PRACH preamble is received in the Scell. RAR is transmitted in the associated Pcell as per RACH procedure in active Scell.

#### 4.2.4A.2 CA-RRC test model

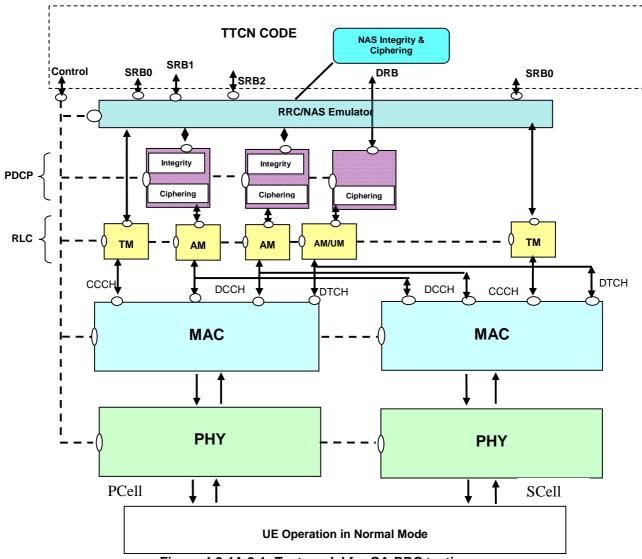


Figure 4.2.4A.2-1: Test model for CA-RRC testing

The UE is configured in normal mode. On UE side Ciphering/Integrity (PDCP and NAS) is enabled and ROHC is not configured.

On the SS Side L1 (Pcell/Scell), MAC (Pcell/Scell), RLC (Pcell) and PDCP (Pcell) are configured in normal way. They shall perform all of their functions. For SRB0 the DL and UL port is above RLC. For SRB1 and SRB2 the port is above/below the RRC and NAS emulator, which may be implemented as a parallel test component. For DRB, the port is above PDCP. PDCP Ciphering/Integrity is enabled. NAS integrity/Ciphering is enabled.

Note: RLC for BCCH/PCCH/CCH are configured per serving cell; RLC and PDCP for DCCH/DTCH are configured only in Pcell and are additionally multiplexed on MAC of associated Scells.

The RRC/NAS emulator for SRB1 and SRB2 shall provide the Ciphering and integrity functionality for the NAS messages. In UL direction, SS shall report RRC messages, still containing (where appropriate) the secure and encoded NAS message, to the RRC port. In DL, RRC and NAS messages with same timing information shall be embedded in one PDU after integrity and ciphering for NAS messages.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception in Pcell over system indication port, if configured. In a similar way the reception of RACH preambles in Pcell/Scell is reported by SS over the same port, if configured.

The RACH Procedure configured in active Scell controls the RACH procedure in Scell. The PDCCH order is sent on PDCCH controlling the Scell. PRACH preamble is received in the Scell. RAR is transmitted in the associated Pcell as per RACH procedure in active Scell.

# 4.2.4B Dual Connectivity test models

### 4.2.4B.1 DC MAC test model

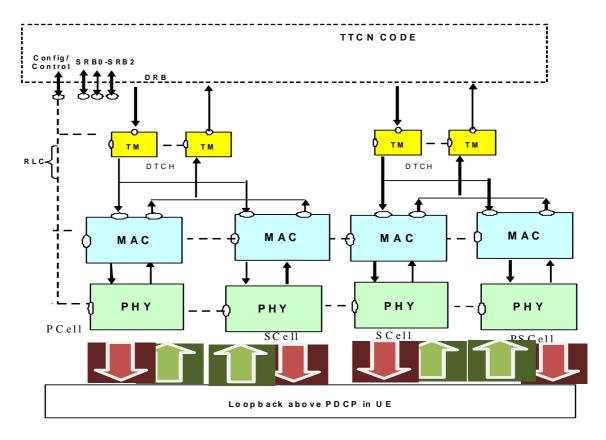


Figure 4.2.4B.1-1: Test model for DC MAC testing

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled (since mandatory) with dummy ciphering algorithm, which is equivalent to not using ciphering. ROHC is not configured on UE Side.

On the SS Side, zero or more SCell's associated with PCell/PSCell may be configured.

PCell/PSCell only: On DRBs the RLC is configured in transparent mode. Hence with this configuration PDU's out of SS RLC are same as the SDU's in it. There is no PDCP configured on SS Side. The ports are directly above RLC.

PCell/PSCell: Layer 1 is configured in the normal way. MAC is configured in a special mode, where it does not add any MAC headers in DL and /or not remove any MAC headers in UL directions respectively at DRB port. In this case, the TTCN shall provide the final PDU, including padding. Except for this, the MAC layer shall perform all of its other functions. For SRB's/BCCH/PCCH the configuration is same as in Dual connectivity-RRC test model.

For Split DRB's the TM DRB from the CG will be used to send/receive PDU's in that CG.

There are two different test modes in which MAC header addition/removal can be configured:

- DL/UL header-transparent mode: no header addition in DL and no header removal in UL.
- DL only header-transparent mode: no header addition in DL; UL MAC is configured in normal mode to remove MAC header and dispatch the MAC SDUs according to the logical channel Ids.

If SS MAC is configured in DL/UL header-transparent mode, the PDU's exchanged at the DRB port between TTCN and SS, shall be the final MAC PDU's consisting of MAC, RLC and PDCP headers. TTCN code shall take care in DL of building MAC header, RLC headers and PDCP headers and in UL handle MAC, RLC and PDCP headers. TTCN code shall take care of maintaining sequence numbers and state variables for RLC and PDCP layers. During testing of multiple DRBs at the UE side, it shall still be possible to configure only one DRB on SS side per CG with configuration in the figure 4.2.4B.1-1. Other DRBs will not be configured, to facilitate routing UL TBs. Multiplexing/de-multiplexing of PDUs meant/from different DRBs shall be performed in TTCN. Since the MAC layer does not evaluate the MAC headers in UL it cannot distinguish between SRB and DRB data in UL. Therefore there shall be no SRB traffic while MAC is configured in this test mode.

If SS MAC is configured in DL only header-transparent mode, the UL PDUs exchanged at the DRB port between TTCN and SS, shall be final RLC PDUs consisting of RLC and PDCP headers. SS shall route these PDUs based on logical channel IDs. In DL, TTCN sends fully encoded MAC PDUs at the DRB port (consisting of MAC, RLC and PDCP headers). In this case TTCN needs to take care of maintaining sequence numbers and state variables for RLC and PDCP layers. Furthermore in UL and DL the SS MAC layer shall be capable of dealing with SRB data (i.e. it shall handle DL RLC PDUs coming from SRBs RLC layer or dispatch UL RLC PDUs to SRBs) as in normal mode.

NOTE: TTCN ensures that no DL MAC SDUs in normal mode and DL MAC PDUs in test mode are mixed for the same TTI.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception in PCell over system indication port, if configured. In a similar way the reception of RACH preambles in PCell/SCell is reported by SS over the same port, if configured.

The RACH Procedure configured in active SCell controls the RACH procedure in SCell. The PDCCH order is sent on PDCCH controlling the SCell. PRACH preamble is received in the SCell. RAR is transmitted in the associated PCell as per RACH procedure in active SCell.

#### 4.2.4B.2 DC PDCP test model

The PDCP test model is based on DC RRC test model except for the following.

The UE is configured in Test Loop Mode, to loop back the user domain data above PDCP layer. On UE side Ciphering is enabled and ROHC is not configured.

The PDCP is configured in a special mode, named transparent mode. In this mode, SS shall not add PDCP header (DL) and remove PDCP Header (UL). The TTCN maintains sequence numbers and state variables for the PDCP layer. The TTCN makes use of the AS ciphering functionality in both directions, employing the dummy ciphering algorithm. Ciphering/deciphering are performed using TTCN external functions. ROHC is not configured.

#### 4.2.4B.3 DC RRC test model

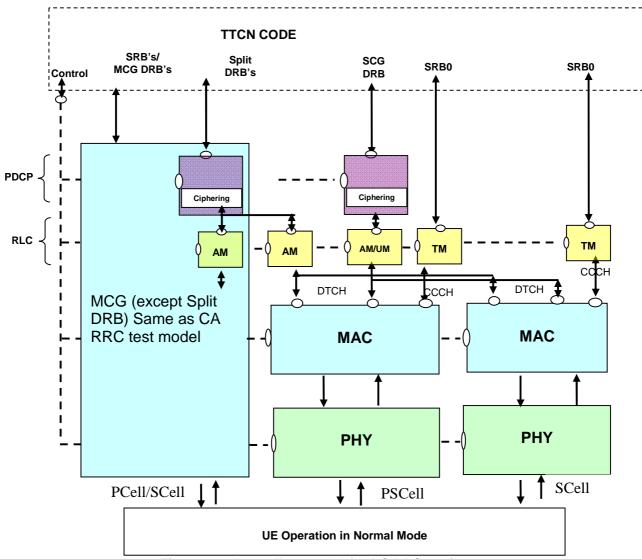


Figure 4.2.4B.3-1: Test model for DC RRC testing

The UE is configured in normal mode. On UE side Ciphering/Integrity (PDCP and NAS) is enabled and ROHC is not configured. Zero or more SCell's associated with PCell/PSCell may be configured.

On the SS Side L1 (PCell/PSCell/SCell), MAC (PCell/PSCell/SCell), RLC (PCell/PSCell) and PDCP (PCell/PSCell) are configured in normal way. They shall perform all of their functions. SRB's are configured only in PCell. For SRB0 the DL and UL port is above RLC. For SRB1 and SRB2 the port is above/below the RRC and NAS emulator, which may be implemented as a parallel test component. For DRB, the port is above PDCP. PDCP Ciphering/Integrity is enabled. NAS integrity/Ciphering is enabled.

NOTE: RLC for BCCH/PCCH/CCCH are configured per serving cell; RLC and PDCP for DCCH/DTCH are configured only in PCell/PSCell and are additionally multiplexed on MAC of associated SCells in the CG (carrier group).

For Split DRB's PDCP is not configured in PSCell. If UL traffic on split DRB will be steered through SCG (i.e. *ul-DataSplitDRB-ViaSCG* is true), the IE *ul-DataSplitDRB-ViaSCG* will only be provided in PDCP-Info in PSCell.

The PCell and SCell (associated with either PCell or PSCell) is same as in CA RRC test model in clause 4.2.4A.2.

The RRC/NAS emulator for SRB1 and SRB2 shall provide the Ciphering and Integrity functionality for the NAS messages. In UL direction, SS shall report RRC messages, still containing (where appropriate) the secure and encoded

NAS message, to the RRC port. In DL, RRC and NAS messages with same timing information shall be embedded in one PDU after integrity and ciphering for NAS messages.

The UL Scheduling Grant and DL Scheduling assignments are configured from TTCN over system control port. SS reports PUCCH scheduling information reception in PCell/PSCell over system indication port, if configured. In a similar way the reception of RACH preambles in PCell/PSCell/SCell is reported by SS over the same port, if configured.

### 4.2.5 IP model extension for IMS

The IMS test model is based on the IP Test Model with extensions to support IPsec. Support of Signalling Compression (SigComp) may be added in the future if needed.

IMS in general may use TCP, UDP or alternated TCP/UDP as transport layer for signalling messages.

At TTCN-3 system interface level there are no IMS specific ports or ASPs, i.e. IMS specific issues are purely handled in TTCN and therefore out of scope for this document.

NOTE: Even though the main intention to introduce the IMS test model is to support the initial IMS registration procedure, the IMS test model is independent of any specific IMS procedures.

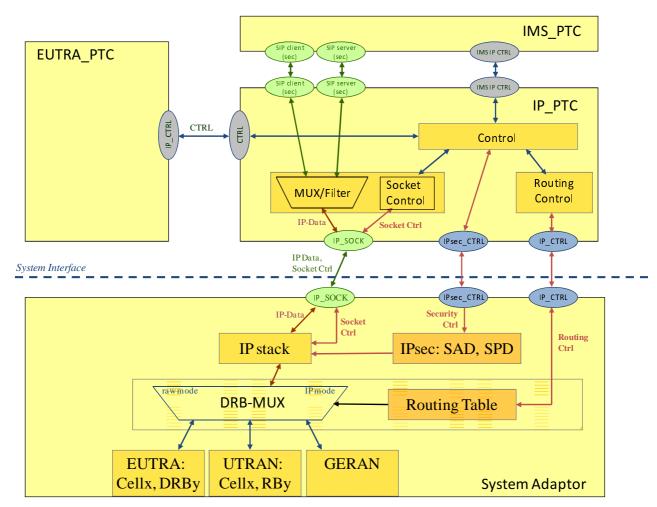


Figure 4.2.5-1: Example for IP model supporting IMS

NOTE 1: At the system interface IPsec is the only difference compared to the IP model of clause 4.2.4

NOTE 2: It is a working assumption to have a separate PTC for IMS as shown in figure 4.2.5-1

NOTE 3: Ports between the IP\_PTC and the IMS\_PTC are for illustration only

#### 4.2.5.1 IPsec

IPsec involves security policy database (SPD) and security association database (SAD) (Ref. RFC4301). The entries in the databases are configured with security parameters by ASPs at the IPsec\_CTRL port.

NOTE: IPsec is not directly associated to a given socket but IPsec is applied to IP packets matching a configured security association.  $\Rightarrow$  configuration of IPsec in general is independent of the existence of sockets but typically the IPsec configuration is done just before establishment of a corresponding socket.

The SS shall cleanup all IPsec database entries which has been setup by TTCN during a test case at the end of the test case independent of how the test case terminates (normal termination, run-time error etc.)

#### 4.2.5.1.1 Security Association

NOTE: Within this clause SA is used as abbreviation of 'Security Association' (i.e. not as abbreviation for 'System Adaptor' as usual)

During the IMS signalling handling two pairs of SAs consisting of four unidirectional SAs will be used, one pair of SAs (SA2 and SA4) is between the server port of UE and the client port of the SS, another pair of SAs (SA1 and SA3) is between the client port of UE and the server port of the SS, see figure 4.2.5.2.3.1-1.

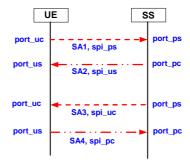


Figure 4.2.5.2.3.1-1 Two pairs of SAs

SA1 used for data flow from port\_uc to port\_ps is an inbound SA for protected server port of P-CSCF, its Security Parameter Index spi\_ps is selected by P-CSCF (IMS Registration/Authentication function in IP\_PTC) and presented in 401 Unauthorised; SA2 used for data flow from port\_pc to port\_us is an inbound SA for protected server port of UE, its Security Parameter Index spi\_us is selected by UE and presented in initial REGISTER message; SA3 used for data flow from port\_ps to port\_uc is an inbound SA for protected client port of UE, its Security Parameter Index spi\_uc is selected by UE and presented in initial REGISTER message; SA4 used for data flow from port\_us to port\_pc via an inbound SA for client port of P-CSCF, its Security Parameter Index spi\_pc is selected by P-CSCF (IMS Registration/Authentication function in IP\_PTC) and presented in 401 Unauthorised message. The pair of SA1 and SA3 is for bidirectional traffic between port\_uc and port\_ps. The pair of SA2 and SA4 is for bidirectional traffic between port\_pc and port\_us. Those four spi\_xx and other security parameters are negotiated during security association set up procedure and shall be passed to IPsec protocol layer in the SS. See "SAD and SPD" and clause 7.2 of TS 33.203 [41].

These four unidirectional SA and relevant ports are shared by TCP and UDP. TCP transport will use all four SAs, UDP transport uses only two SAs, because there is no traffic from port\_ps to port\_uc, nor from port\_us to port\_pc. Figure 4.2.5.2.3.1-2 shows the usage of ports and SAs under UDP and TCP transport in a generic registration procedure (see clause C.2 of TS 34.229-1 [40]).

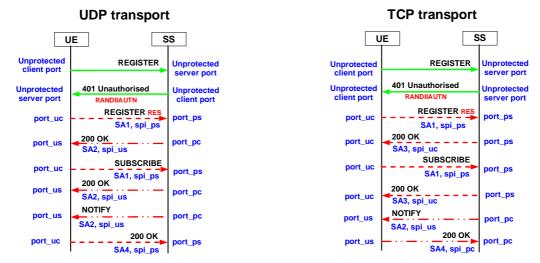


Figure 4.2.5.2.3.1-2: Usage of ports and SAs in UDP and TCP transport

#### 4.2.5.1.2 SAD and SPD

SAD and SPD are used by IPsec to store various security parameters (per Security Association). During IMS AKA, the UE and the IMS Registration/Authentication function in IP\_PTC negotiates the negotiable parameters for security association setup, this negotiation is carried out at the SIP level in TTCN-3, and the resulting security association parameters are maintained in TTCN-3. The involved parameters are:

```
spi_uc; spi_us; spi_pc; spi_ps
encryption algorithm
integrity algorithm
```

The IMS AKA will generate key  $IK_{IM}$ , the security parameters  $IK_{ESP}$  and  $CK_{ESP}$  are derived from  $IK_{IM}$  and  $CK_{IM}$  in TTCN-3 (Ref. Annex I of TS 33.203[41]). ASPs are used to pass these parameters (per security association and with its selectors) from TTCN-3 to SAD and SPD of IPsec layer in the SS.

The same  $IK_{ESP}$  and  $CK_{ESP}$  will be used for the four unidirectional SAs. All of the four unidirectional SAs will use the same negotiated encryption algorithm and integrity algorithm.

In addition to those negotiable security parameters, other security parameters are fixed in IMS environment (see clause 7.1 of TS 33.203 [41]):

Life type: second SA duration:  $2^{32}-1$  Mode: transport

IPsec protocol: ESP, ESP integrity applied

Key length: 192 bits for DES-EDES\_CBC, 128 bits for AES-CBC and HMAC-MD5-96; 160 bits

for HMAC-SHA-1-96

These parameters are hard coded with IPsec implementation in the SS, not passed from TTCN-3.

An SA have to be bound to selectors (specific parameters) of the data flows between UE and P-CSCF (IMS Registration/Authentication function in IP\_PTC), the selectors are:

source IP address

destination IP address

source port

destination port

transport protocols that share the SA

IP addresses bound to the two pairs of SAs are:

For inbound SAs at the P-CSCF (the SS side):

- The source and destination IP addresses associated with the SA are identical to those in the header of the IP packet in which the initial SIP REGISTER message was received by the P-CSCF.

For outbound SAs at the P-CSCF (the SS side):

- The source IP address bound to the outbound SA equals the destination IP address bound to the inbound SA; the destination IP address bound to the outbound SA equals the source IP address bound to the inbound SA.

Ports bound to the two pairs of SAs are depictured in figure 4.2.5.2.3.1-1, port\_ps and port\_pc shall be different from the default SIP ports 5060 and 5061. The number of the ports port\_ps and port\_pc are communicated to the UE during the security association setup procedure.

The transport protocol selector shall allow UDP and TCP.

The selectors are passed to the SS IPsec layer together with the security parameters related to an SA bound to the selectors.

### 4.2.5.2 Signalling Compression (SigComp)

Signalling compression is mandatory (see clause 8 of TS 24.229 [42]) and Signalling compression (RFC 3320 [43], RFC 3485 [44], RFC 3486 [45], RFC 4896 [46], RFC 5049 [47]) protocol is used for SIP compression. SigComp entity in the model is used to carry out the compression/decompression functions. In receiving direction of the SS the SigComp entity will detect whether the incoming SIP message is compressed, and decompress the message if it is compressed. In the SS transmitting direction, the TTCN, via ASP, controls when the compression of outgoing SIP message is started. Stateless compression is not used in the SIP environment. For state full operation of SigComp the ASP passing compartment ID to SigComp is applied. The SS shall clean all states related to a connection in SigComp when an ASP for closing the connection is received. The SS shall also clean all states in the SigComp when abortion of a test case is detected or after the system reboots. If decompression failure occurs while decompressing a message, the message shall be discarded. The SigComp entity in the SS shall automatically find if a secure port or un-secure port is being used for transmission or reception of messages. If an un-secure port is used for transmission, it shall not include state creation instructions. If the state creation command is received in a compressed message on an un-secured port, a decompression failure shall be generated.

### 4.2.5.3 SIP TTCN-3 Codec

SIP is a text-based protocol, the messages exchanged between the UE and the SS are character strings. In TTCN-3 the messages are structured to take the advantages of TTCN-3 functionalities, and to make the debugging and maintenance easier.

Even though there is no encoding/decoding of SIP messages at the TTCN-3 system interface, the IMS\_PTC uses the SIP codec by means of the TTCN-3 build-in functions encoulue and decoulue.

The SIP codec is specified in TS 34.229-3 [45] clause 7.

# 4.2.6 Support of DSMIPv6

For testing of DSMIPv6 IP packets being relevant for the test cases may be routed by the IP\_PTC to the PTCs with specific test case implementation. There are not specific requirements for the system interface.

The functions of HA and ePDG are FFS.

### 4.2.7 MBMS test model

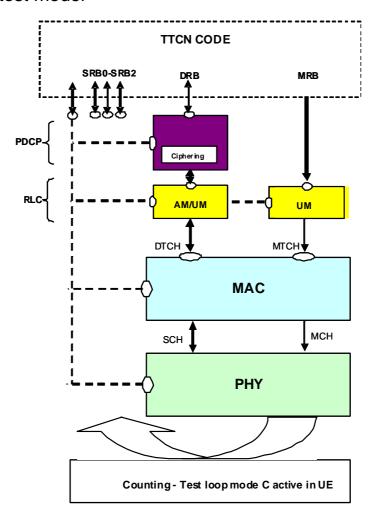


Figure 4.2.7-1: Test model for MBMS testing

The UE is configured in Test Loop Mode C to count the successfully received MBMS Packets. On the UE side, Ciphering/Integrity (PDCP and NAS) are enabled on SRBs/DRB. No security is configured on MCCH/MTCH.

On the SS side, the cell is configured as a normal cell, the MBMS parameters are configured by using an additional call of SYSTEM\_CTRL\_REQ. L1, MAC and RLC are configured for MCCH/MTCH in normal mode; they shall perform all of their functions. The MRB ports are above RLC. For MTCH data transmission, the SS shall set the MCH Scheduling Information (MSI) in the MAC PDU in the first subframe allocated to the MCH within the MCH scheduling period to indicate the position of each MTCH and unused subframes on the MCH according to TS 36.321[16] clause 6.1.3.7 The SS will be explicitly configured by the TTCN for MSI MAC control element. SS shall repeat the same configured MSI in the first subframe allocated to the MCH within each new MCH scheduling period.

The MRB data is considered as raw data and is scheduled with explicit timing control information from TTCN on MTCH.

### 4.2.8 OCNG test model

The OCNG generator is a logical block in the SS MAC layer, activated/deactivated by TTCN. There is one OCNG generator per cell, and OCNG may be activated by TTCN in any cell (i.e. serving or neighbour).

When OCNG is activated in a cell, the SS shall automatically transmit uncorrelated pseudo random data in an arbitrary number of DL MAC TB's on PDSCH's, in each non-ABS (Almost Blank Subframe) identified by *MeasSubFramePattern*, identified by an arbitrary number of virtual (non existing) UE's with C-RNTI's set different

from the C-RNTI of the UE under test. The SS shall treat these MAC TB's in a special way, i.e. shall not expect any HARQ feedback and shall not make any HARQ retransmissions. The SS shall select the number of virtual UE's to achieve the following conditions in each non-ABS subframe:

- Load all CCE's unused by any scheduled RNTI (SI-RNTI, C-RNTI, P-RNTI, RA-RNTI, Temp C-RNTI, SPS C-RNTI, M-RNTI) transmissions.
- Utilize all PRB's un-assigned by any scheduled RNTI.
- The modulation is restricted to QPSK.

The DCI combination 1 defined in clause 7.3.3.5.1 is used to facilitate maximum utilization of un-assigned PRB's.

While activating OCNG on a non-PCell, TTCN shall take care of timing information for the cell such that the SFN and subframe number should result in the corresponding PCell SFN mod x = 0, where x is the size of the subframePattern bit string divided by 10 and the corresponding subframe number of Pcell =0.

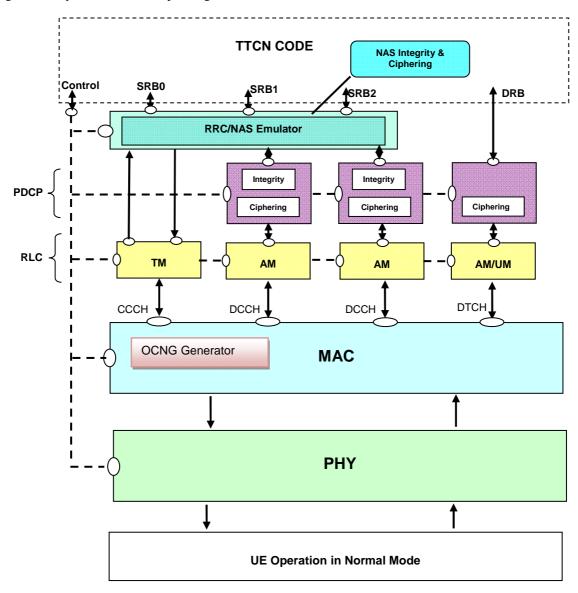


Figure 4.2.8-1: Test model for testing with OCNG

# 4.2.9 Device-to-Device Proximity Services test model

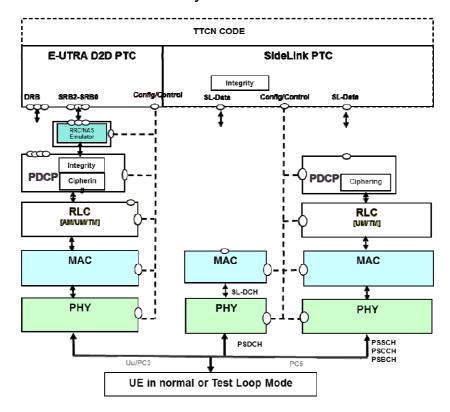


Figure 4.2.9-1: D2D ProSe test model

For testing of Device-to-Device Proximity Services (D2D ProSe), the system simulator (SS) shall implement, in addition to one or several simulated E-UTRA cells (L1/L2), one or several simulated UEs (L1/L2), called hereafter SS-UE. An SS-UE is used to send/receive data with the UE under test over the PC5 interface. This is depicted in the D2D ProSe test model of Figure 4.2.9-1.

From a TTCN architecture point of view Figure 4.2.9-2 depicts the TTCN component model used for D2D ProSe.

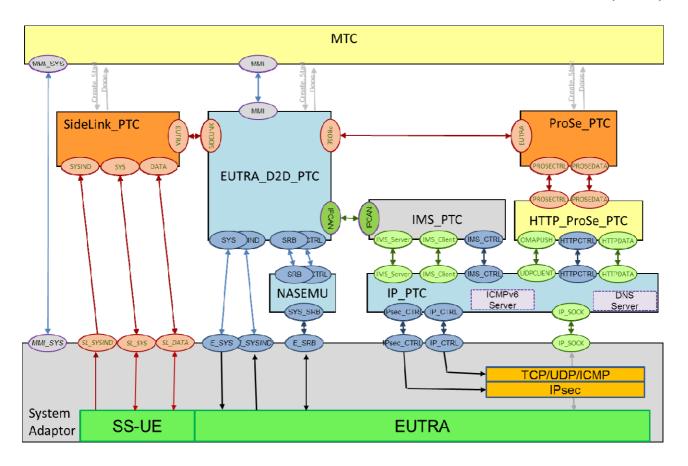


Figure 4.2.9-2: D2D ProSe component model

An SS-UE is controlled by TTCN in the SideLink PTC and is configured for Direct Discovery or Direct Communication by TTCN over sidelink system control SL\_SYS port.

The ProSe Function is simulated in the ProSe\_PTC. The HTTP\_ProSe\_PTC takes care about extracting and embedding PC3 messages from/into HTTP requests and responses and to generate the trigger for network-initiated procedures (OMA PUSH). There are no PC3 interface specific system ports, i.e. PC3 messages are IP user data in terms of clause 4.2.4.

### 4.2.9.1 ProSe Function test model

The PC3 Control Protocol procedures between the UE and the ProSe Function can be tested by TTCN at the ProSe\_PTC. The ProSe\_PTC handles ProSe discovery messages and procedures as defined in TS 24.334 [61].

The purpose of the HTTP\_ProSe\_PTC is to emulate the transport protocol for PC3 Control Protocol messages. It is responsible to receive HTTP requests addressing the ProSe function in UL, for encoding and decoding of the ProSe discovery messages and to provide the HTTP responses with all relevant headers in DL.

In addition the HTTP\_ProSe\_PTC provides means to trigger network-initiated procedures (e.g. OMA PUSH) and is used for HTTP based authentication (e.g. GBA).

## 4.2.9.2 Direct Discovery test model

The UE under test is configured in normal mode or in Test loop mode D.

The SS-UE is configured in coverage. L1 and MAC are configured in normal way, they shall perform all of their functions. The SL\_DATA port for transmission and reception of SL-DCH message, i.e. PC5\_DISCOVERY messages, is above MAC.

On UE side integrity in SL-DCH message is applied. TTCN in SL\_UE PTC provides the integrity functionality for the SL-DCH messages:

- In reception, SS-UE shall report to TTCN the SL-DCH message, containing the Message Code Integrity (MIC), with the SFN/Subframe at which the message was received. TTCN shall check the MIC field.
- In transmission, TTCN computes the MIC before sending the SL-DCH messages to SS-UE.

The SS-UE is configured by TTCN over sidelink system control port to receive/transmit SLSS. The SS-UE shall report SLSS reception over the sidelink system indication port.

#### 4.2.9.3 Direct Communication test model

The UE under test is configured in Test loop mode E [FFS], ciphering (PDCP on STCH) is not enabled unless specified otherwise in the test case and ROHC is not configured.

The SS-UE is configured in coverage or out of coverage. L1, MAC and RLC are configured in normal way, they shall perform all of their functions. PDCP is configured in normal mode or in 'no header manipulation' special mode in STCH security test cases:

- When configured in normal mode, PDCP shall perform all of its functions. PDCP ciphering is not enabled unless specified otherwise in the test caseand ROHC is not configured.
- When configured in 'no header manipulation' mode, no header manipulation shall be performed in PDCP layer in both directions: the SS-UE shall not add PDCP header (in transmission) and remove PDCP Header (in reception). PDCP state variables shall be maintained by SS-UE PDCP layer. PDCP ciphering is enabled when specified in the test and ROHC is not configured.

The SL\_DATA port for transmission and reception of STCH data is above PDCP. The STCH data is considered as raw data.

## 4.3 SAE Test Model

# 4.3.1 NAS Test Model

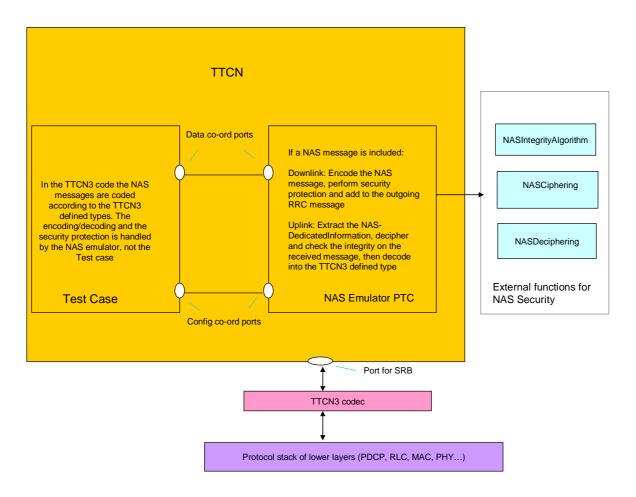


Figure 4.3.1-1: NAS Test Model

The NAS emulator is a parallel test component which handles NAS security, with the help of external functions to perform the integrity and (de)ciphering.

The interface between the emulator and the TTCN (co-ordination messages) handle data as TTCN-3 values. The interface between the emulator and the SS handles the RRC messages as TTCN-3 values, containing (where applicable) secure, encoded NAS messages.

The NAS emulator is not part of the test case in terms of verdict assignment (i.e. it does not check the correctness of any protocol message). Nevertheless, in case of fatal errors such as encode/decode errors, the NAS emulator sets the verdict to inconclusive and terminates immediately - which causes the test case to terminate. I.e. the NAS emulator does not resolve error situations.

## 4.4 Inter RAT Test Model

# 4.4.1 E-UTRAN-UTRAN Inter RAT Test Model

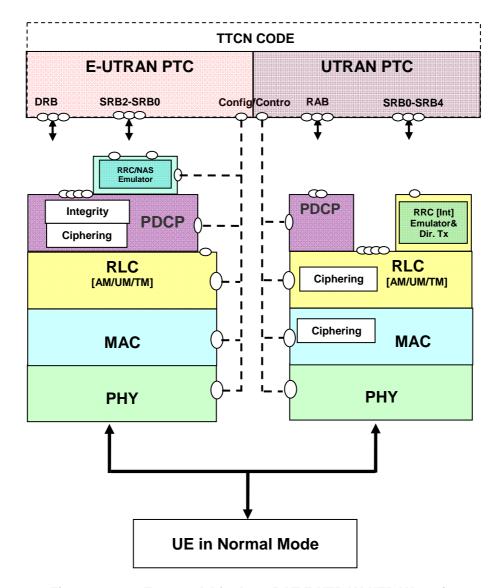


Figure 4.4.1-1: Test model for Inter RAT E-UTRAN-UTRAN testing

The model consists of dual protocol stack one for E-UTRAN and one for UTRAN. The TTCN implementation for E-UTRAN and UTRAN functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is same as the model defined in clause 4.2.2 for RRC testing.

The SS UTRAN part consisting of PHY, MAC, RLC and PDCP (optionally) (IF PS user RB established only), are configured in normal mode. They shall perform all of their functions normally. Ciphering is enabled and shall be performed in RLC (AM/UM) and MAC (TM RLC). Integrity is enabled, and SS shall provide RRC emulator for integrity protection calculation and checking and 'Direct transfer' adaptation. Ports are above RLC (CS RAB and SRB0), PDCP (PS RAB) and RRC Emulator (SRB1 to SRB4).

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Ciphering is enabled in UTRAN.

#### 4.4.1.1 User data over UTRAN

User data transferred over UTRAN is distinguished between:

Raw user data (raw mode),

IP data (IP mode).

Depending upon whether the user data is relevant for the purpose of test, several scenarios are listed:

Raw user data relevant for the purpose of test,

IP data relevant for the purpose of test,

IP data, considered as IP signalling, not directly relevant for the purpose of test.

#### 4.4.1.1.1 Raw user data over UTRAN

The raw user data can be as RLC SDUs and PDCP SDUs. The DL and UL user data are routed to UTRAN\_PTC (Fig. 4.4.1.1.2-1). The IP stack in SS is not involved for all raw user data applications.

RLC SDUs is applied if the test loop mode 1 with loopback of RLC SDUs in TS 34.109 [9] is activated. PDCP in SS is not configured in this case; the DL and UL user data are routed to UTRAN\_PTC via the RLC port.

The raw user data as PDCP SDUs is applied in the following cases:

the test loop mode 4 (TS 34.109 [9]) is activated,

the test loop mode 1 is activated with loopback of PDCP SDUs (TS 34.109 [9]),

the test loop mode B (TS 36.509 [4]) is activated and raw data is looped back on UTRAN,

IP raw data is another type of raw user data. The test loop mode is not activated. This case is applied when sending uplink data is triggered by the upper tester.

PDCP and optional RoHC are configured in SS, the DL and UL user data are routed to UTRAN\_PTC via the PDCP port.

Feeding raw user data is largely used in the pure UTRAN test in TS 34.123-3 [7].

#### 4.4.1.1.2 IP data over UTRAN

The IP data over UTRAN is applied to E-UTRA-UTRAN I-RAT and UTRAN test cases. The IP stack in SS is involved. IP data is considered as:

IP packets data (IP mode) relevant for the purpose of test,

IP signalling (IP mode), to be handled in TTCN at IP Layer

One of the IP signalling handling is the stateless address auto configuration for IPv6, illustrated in Fig. 4.4.1.1.2-1.

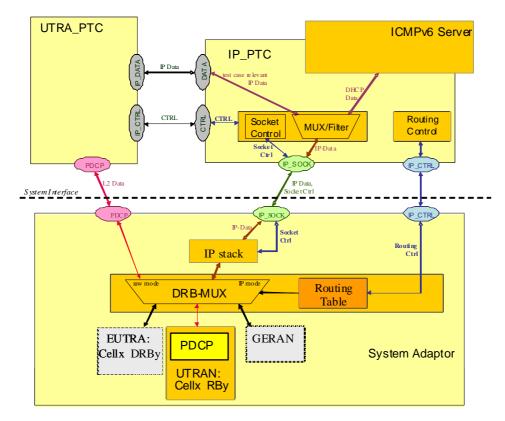


Figure 4.4.1.1.2-1: UTRAN IP test model with an ICMPv6 server

## 4.4.1.1.3 Routing IP data

The routing of user data is the function of DRB-Mux and controlled by a routing table.

If there is no entry in the routing table for a given RB, it is considered being in raw mode, raw user data is routed to or from the UTRAN PDCP port.

If there is an entry in the routing table for a given RB, it is considered being in IP mode, IP data is routed to or from the IP stack.

For EUTRA-UTRAN or UTRAN test, the routing entry parameters in the DRB-Mux's routing table are specified as (RAT=Utran, cell-id=-1, RB id). SS PDCP entity does not belong to a particular cell; the cellId shall be assigned to the value -1. Consequently, the UTRAN cell id provided in DRB-Mux is set to cell-id=-1.

IP protocol information of IP data (protocol, local IP address, local port, remote IP address, and remote port) is also provided in the routing table. More information can be found in 4.2.4.

### 4.4.2 E-UTRAN-GERAN Inter RAT Test Model

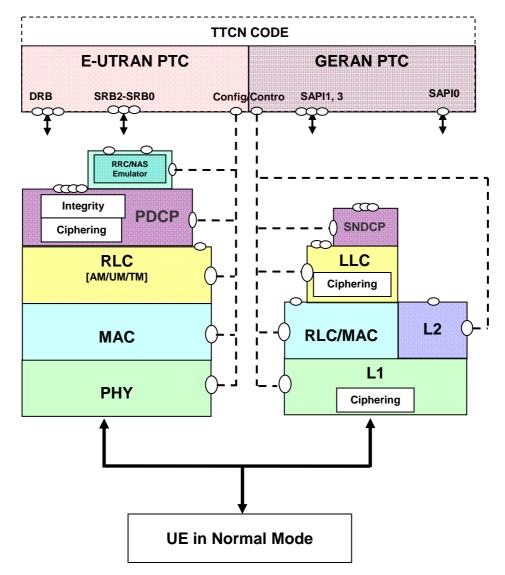


Figure 4.4.2-1: Test model for Inter RAT E-UTRAN-GERAN testing

The model consists of dual protocol stack one for E-UTRAN and one for GERAN. The TTCN implementation for E-UTRAN and GERAN functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is the same as the model defined in clause 4.2.2 for RRC testing.

The SS GERAN model for GPRS consists of L1, MAC/ RLC and LLC, configured in normal mode. SNDCP may also be configured. If SNDCP is configured, this shall reference the LL Entity by the LLMEId. They shall perform all of their functions normally. Ciphering is enabled and shall be performed in LLC. XIDs shall be sent/received by the TTCN and the TTCN will then send the XID information to the SS using the G\_CLLC\_XID\_Config\_REQ ASP. Ports are above RLC (GRR messages), LLC (NAS and Data) and SNDCP (User Data).

The SS GERAN model for GSM consists of L1, L2 (MAC/ RLC), configured in normal mode. They shall perform all of their functions normally. Ciphering is enabled and shall be performed in L1. Ports are above L2.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Ciphering is enabled in GERAN.

### 4.4.2.1 User data over GERAN

User data transferred over GERAN is distinguished between:

Raw user data (raw mode),

IP data (IP mode).

Depending upon whether the user data is relevant for the purpose of test, several scenarios are listed:

Raw user data relevant for the purpose of test,

IP data relevant for the purpose of test,

IP data, considered as IP signalling, not directly relevant for the purpose of test.

#### 4.4.2.1.1 Raw user data over GERAN

The raw user data can be as RLC blocks and SNDCP SDUs. The DL and UL user data are routed to GERAN PTC (Fig. 4.4.2.1.2-1). The IP stack in the SS is not involved for all raw user data applications.

RLC blocks are applied if testloop mode B (TS 36.509 [4]) is activated and raw data is looped back on GERAN.

IP raw data is another type of raw data. The testloop mode is not activated. This case is applied when sending uplink data is triggered by the upper tester.

SNDCP and optionally RoHC are configured in the SS, DL and UL user data are routed to GERAN\_PTC via the SNDCP port.

#### 4.4.2.1.2 IP data over GERAN

The IP data over GERAN is applied to EUTRA – GERAN I-RAT test cases. The IP stack in the SS is involved. IP data is considered as:

- IP packets data (IP mode) relevant for the purpose of the test,
- IP signalling (IP mode), to be handled in the TTCN at IP layer.

One of the IP signalling handling is the stateless address auto configuration for IPv6, illustrated in Figure 4.4.2.1.2-1.

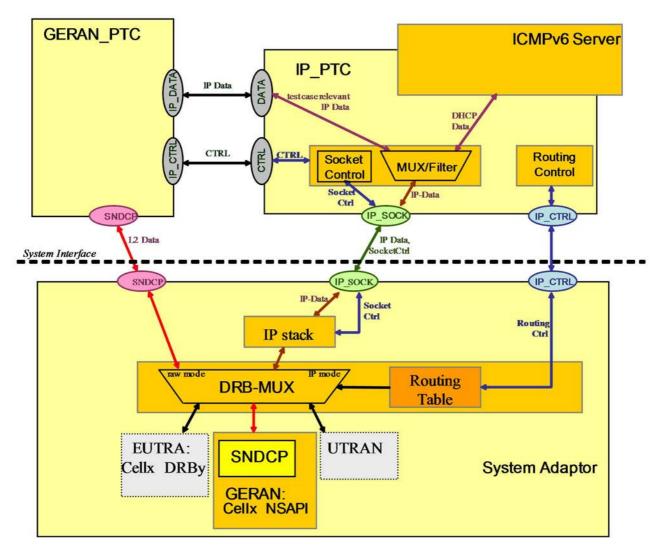


Figure 4.4.2.1.2-1: GERAN IP test model with an ICMPv6 server

### 4.4.2.1.3 Routing IP data

The routing of user data is the function of the DRB-Mux and is controlled by a routing table.

If there is no entry in the routing table for a given NSAPI, it is considered to be in raw mode, raw user data is routed to or from the GERAN SNDCP port.

If there is an entry in the routing table for a given NSAPI, it is considered to be in IP mode, IP data is routed to or from the IP stack.

For EUTRA-GERAN, the routing entry parameters in the DRB-Mux's routing table are specified as (RAT = GERAN, cell-id, NSAPI). IP protocol information of IP data (protocol, local IP address, local port, remote IP address, and remote port) is also provided in the routing table. More information can be found in clause 4.2.4.

# 4.4.3 E-UTRAN-CDMA2000 Inter RAT Test Model

### 4.4.3.1 E-UTRAN-CDMA2000 HRPD Inter RAT Test Model

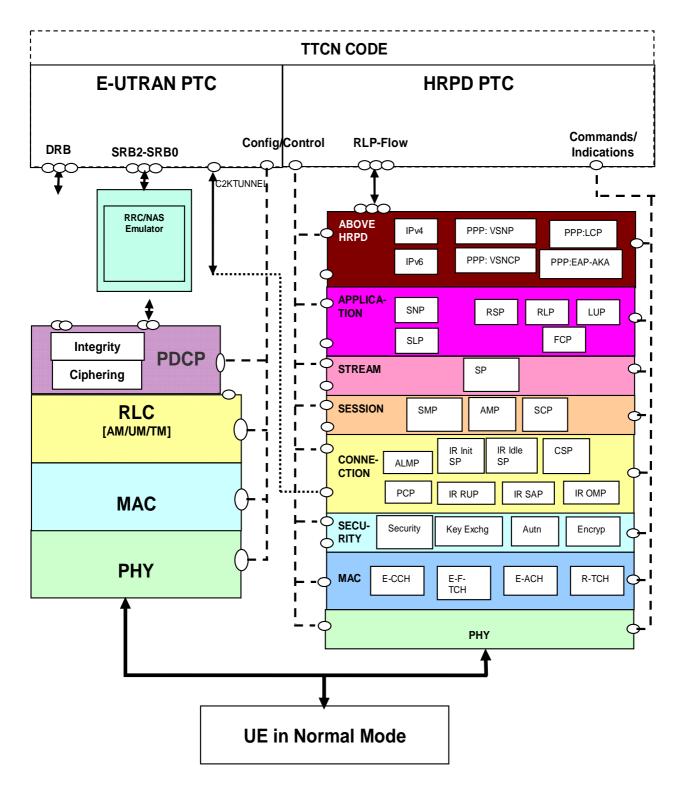


Figure 4.4.3-1: Test model for InterRAT E-UTRAN-CDMA2000 HRPD testing

The model consists of a dual protocol stack, one for E-UTRAN and one for eHRPD. The TTCN implementation for E-UTRAN and eHRPD functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is same as the model defined in clause 4.2.2 for RRC testing.

The eHRPD part emulation in SS is considered as a black box. The commands/Indications port is used for commanding the SS to bring the UE into the desired state and monitoring the progress. The System commands and indications are designed with principle of having minimum command/indication per eHRPD procedure hence avoid racing conditions and timing issues. By default, the execution order of sub procedures (e.g. protocol negotiations) cannot be monitored by TTCN. The SS emulations shall be compliant with respective 3GPP/3GPP2 core specifications and guarantee execution order of respective eHRPD procedures as per relevant 3GPP/3GPP2 test/core specifications.

The C2KTUNNEL port is used for routing encapsulated

- 1. pre-registration messages (i.e. messages encapsulated in *ULInformationTransfer* and *DLInformationTransfer*) in the EUTRAN cell to the eHRPD and
- 2. handover related eHRPD messages (i.e. messages encapsulated in *HandoverFromEUTRAPreparationRequest/ULHandoverPreparationTransfer/MobilityFromEUTRACommand*).

The SS eHRPD part consists of Physical, MAC, Security, Connection, Session, Stream, Application and Layers for PPP and IP configured in normal mode. They shall perform all of their functions normally. Encryption may be enabled and performed in security layer.

The CDMA2000 eHRPD emulation in the SS supports the following layers and protocols:

- Physical layer (Subtype 2).
- MAC layer:
  - Enhanced (Subtype 0, Subtype 1) Control Channel MAC Protocol (ECH).
  - Enhanced (Subtype 1) Forward Traffic Channel MAC Protocol (E-F-TCH).
  - Enhanced (Subtype 1) Access Channel MAC Protocol (E-ACH).
  - Subtype 3 Reverse Traffic Channel MAC Protocol (R-TCH).
- Security Layer:
  - Default Security Protocol (Security).
- Connection Layer:
  - Default Air Link Management Protocol (ALMP).
  - Default Connected State Protocol (CSP).
  - Default Packet Consolidation Protocol (PCP).
  - Inter-RAT Signalling Adaptation Protocol (IR-SAP) (required only for optimized handover).
  - Inter-RAT Initialization State Protocol (IR-Init SP) (required only for optimized handover).
  - Inter-RAT Idle State Protocol (IR-Idle SP) (required only for optimized handover).
  - Inter-RAT Route Update Protocol (IR-RUP) (required only for optimized handover).
  - Inter-RAT Overhead Messages Protocol (IR-OMP) (required only for optimized handover).
- Session Layer:
  - Default Session Management Protocol (SMP).
  - Default Address Management Protocol (AMP).
  - Default Session Configuration Protocol (SCP).
- Stream Layer:

- Default Stream Protocol (DSP).
- Application Layer:
  - Default Signalling Application:
    - Signalling Network Protocol (SNP).
    - Signalling Link Protocol (SLP).
  - Enhanced Multi-Flow Packet Application:
    - Route Selection Protocol (RSP).
    - Radio Link Protocol (RLP).
    - Location Update Protocol (LUP).
    - Flow Control Protocol (FCP).
  - Alternate Enhanced Multi-Flow Packet Application (to be listed along with EMPA during SCP negotiation)
- Above eHRPD:
  - PPP: Vendor Specific Network Control Protocol (PPP:VSNCP).
  - PPP: Vendor Specific Network Protocol (PPP:VSNP).
  - PPP: Link Control Protocol (PPP:LCP).
  - PPP: Extensible Authentication protocol-Authentication and Key Agreement' (PPP:EAP-AKA').
  - IPv4.
  - IPv6.

During pre-registration phase, one cell per preRegistrationZoneID (ColorCode) to be simulated will be configured by TTCN with power level as 'off', or as specified by the test case. The SS will be issued System commands for pre-registration and expect the appropriate system indications.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Encryption is enabled in HRPD.

#### 4.4.3.2 E-UTRAN-CDMA2000 1xRTT Inter RAT test model

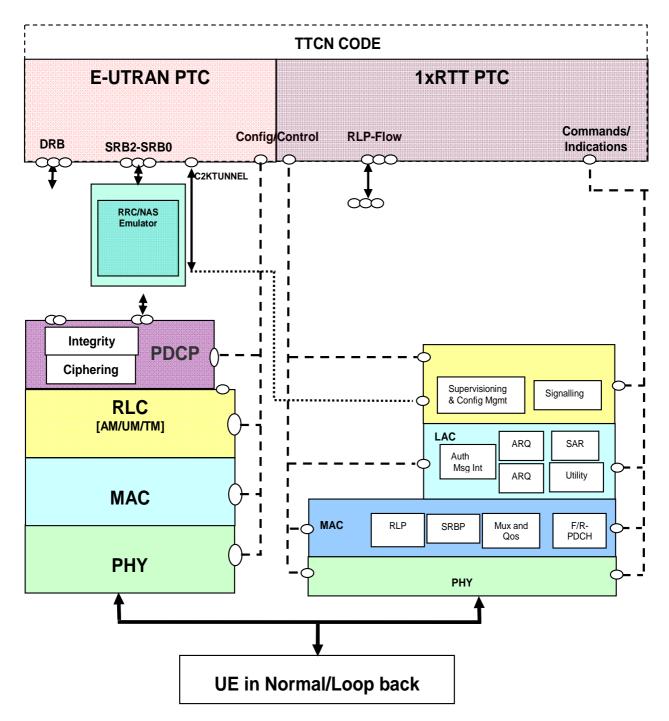


Figure 4.4.3.2-1: Test model for InterRAT E-UTRAN-CDMA2000 1xRTT testing

The 1xRTT test model consists of a dual protocol stack, one for E-UTRAN and one for 1xRTT. The TTCN implementation for E-UTRAN and 1xRTT functionalities are in separate Parallel Test Components. The SS E-UTRAN part is same as the model defined in clause 4.2.2 for RRC testing.

The 1xRTT part emulation in SS is considered as a black box. The commands/Indications port is used for commanding the SS to bring the UE into the desired state and monitoring the progress. The System commands and indications are designed with principle of having minimum command/indication per 1xRTT procedures hence avoid racing conditions and timing issues. By default, the execution order of sub procedures(e.g. protocol negotiations) cannot be monitored by TTCN. The SS emulations shall be compliant with respective 3GPP/3GPP2 core specifications and guarantee execution order of respective 1xRTT procedures as per relevant 3GPP/3GPP2 test/core specifications.

The C2KTUNNEL port is used for routing encapsulated

- 1. pre-registration messages (i.e. messages encapsulated in *CSFBParametersResponseCDMA2000*, *ULInformationTransfer* and *DLInformationTransfer*) in the EUTRAN cell to the 1xRTT and
- 2. handover, e-CSFB related 1xRTT messages (i.e. messages encapsulated in *HandoverFromEUTRAPreparationRequest/ ULHandoverPreparationTransfer/ MobilityFromEUTRACommand*).

The SS 1xRTT part consists of Physical, MAC, LAC, Session, Stream, Application and Layers for PPP and IP configured in normal mode. They shall perform all of their functions normally. Encryption may be enabled and performed in security layer.

The CDMA2000 1xRTT emulation in the SS supports the following layers and protocols:

- Physical layer.
- MAC layer:
  - Signalling Radio Burst protocol.
  - Radio Link Protocol for Data services.
  - Forward and Reverse Packet Data Channel functions.
  - Multiplexing and QoS Delivery.
- Link Access Control:
  - Authentication and Message Integrity sublayer [optional].
  - ARQ sublayer.
  - Addressing.
  - Utility.
  - Segmentation and Reassembly.
- Layer 3:
  - Super visioning and Configuration Management.
  - Signalling Protocol.

During pre-registration phase, one cell per preRegistrationZoneID (ColourCode) to be simulated will be configured by TTCN with power level as 'off', or as specified by the test case. The SS will be issued System commands for pre-registration and expect the appropriate system indications.

The UE is configured in normal mode or loop back mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Encryption may be enabled in 1xRTT.

## 4.4.4 E-UTRAN FDD-TDD Inter RAT Test Model

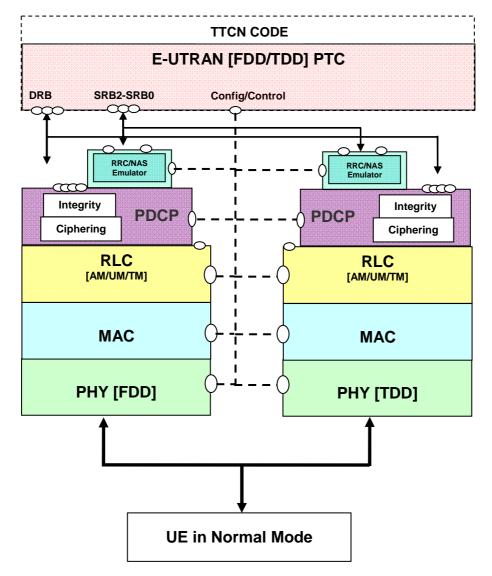


Figure 4.4.4-1: Test model for Inter RAT E-UTRANFDD-TDD testing

The model consists of dual protocol stack one for E-UTRANFDD and one for E-UTRANTDD. The TTCN implementation for E-UTRANFDD and TDD functionalities will be in the same Parallel Test Component. The SS E-UTRAN (both FDD and TDD) part is the same as the model defined in clause 4.2.2 for RRC testing. SS E-UTRANFDD and TDD shall be configured as separate cells.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured for both FDD and TDD.

## 4.4.5 E-UTRAN-UTRAN-GERAN Inter RAT Test Model

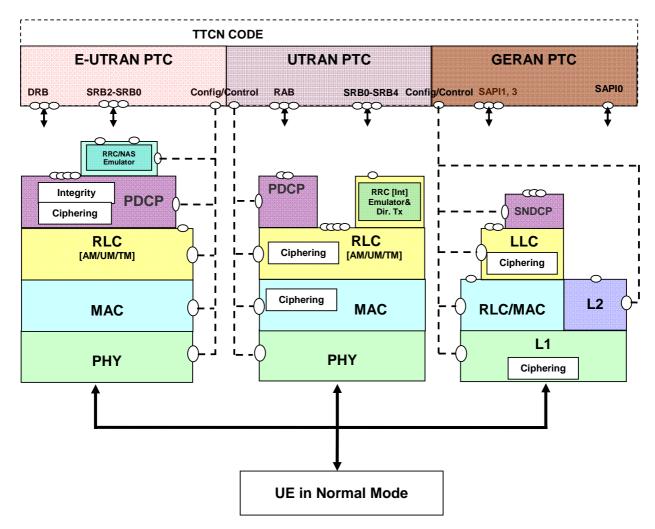


Figure 4.4.5-1: Test model for Inter RAT E-UTRANFDD-TDD testing

The model consists of integrated protocol stack supporting E-UTRAN, UTRAN and GERAN. The TTCN implementation for E-UTRAN, UTRAN and GERAN functionalities will be in separate Parallel Test Components. The SS E-UTRAN part is the same as the model defined in clause 4.2.2 for RRC testing. The SS UTRAN part is the same as the model defined in clause 4.4.1. The SS GERAN part is same as the model defined in clause 4.4.2.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN. Ciphering/Integrity are enabled in UTRAN. Ciphering is enabled in GERAN.

# 4.4.6 3GPP-WLAN Inter working Test Model

# 4.4.6.1 E-UTRAN-WLAN Inter working Test Model

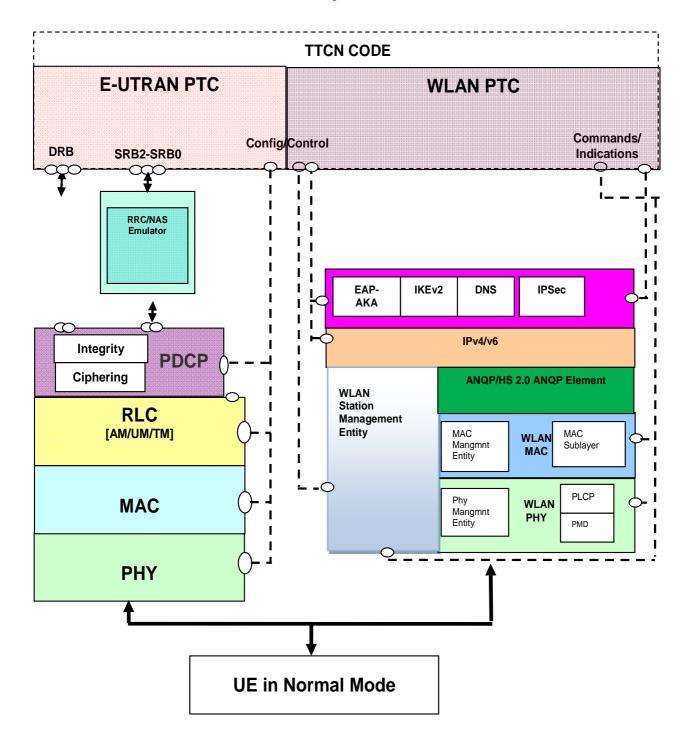


Figure 4.4.6.1-1: Test model for E-UTRAN-WLAN interworking testing

The model consists of a dual protocol stack, one for E-UTRAN and one for WLAN. E-UTRAN and WLAN functionalities are implemented in separate Parallel Test Components in the TTCN. The SS E-UTRAN part is the same as the model defined in clause 4.2.2 for RRC testing. The WLAN part is specified in clause 4.5.

The UE is configured in normal mode. Ciphering/Integrity (PDCP and NAS) are enabled and ROHC is not configured in E-UTRAN.

NOTE: It is not mandatory to support IP address preservation. A UE supporting it will include INTERNAL\_IP4\_ADDRESS or the INTERNAL\_IP6\_ADDRESS attribute or both in the CFG\_REQUEST Configuration Payload within the IKE\_AUTH request message. The ePDG then relays in the IKEv2 Configuration Payload (CFG\_REPLY) of the final IKE\_AUTH response message the remote IP address information to the UE. Reference 24.302 [67] clause 7.2.2(UE) and 7.3.1(ePDG).

## 4.4.6.2 UTRAN-WLAN Inter working Test Model

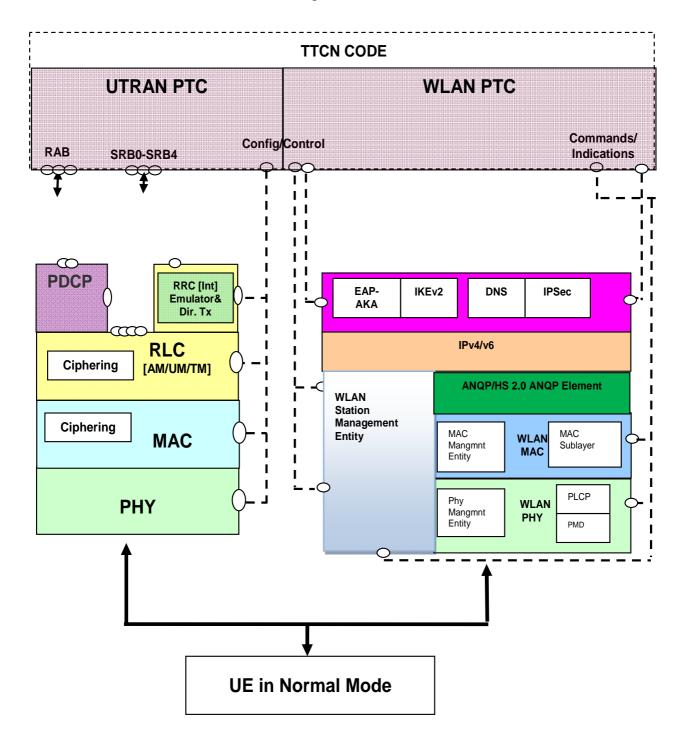


Figure 4.4.6.2-1: Test model for UTRAN-WLAN interworking testing

The model consists of a dual protocol stack, one for UTRAN and one for WLAN. UTRAN and WLAN functionalities are implemented in separate Parallel Test Components in the TTCN. The SS UTRAN part is the same as the model defined in clause 4.4.1. The SS WLAN part is defined in clause 4.5.

## 4.5 Generic WLAN Test Model

The generic WLAN test model is applicable for IMS over WLAN testing, as well as for E-UTRAN/UTRAN-WLAN interworking testing. The TTCN and SS implementations emulate an untrusted Non-3GPP IP Access as specified in TS 23.402 [63]: There is the WLAN access point (WLAN AP) and the emulation of ePDG and AAA-server.

### 4.5.1 WLAN Access Point

The WLAN access point emulation is done at the SS with a few configuration parameters provided by TTCN. The following layers need to be supported:

- Station Management Entity
- Physical layer:
  - Physical Sublayer Management Entity
  - Physical layer Convergence procedure
  - Physical Medium Dependent
- MAC layer:
  - MAC Management Entity
  - MAC sublayer
  - Also contains security services
- ANQP element and HS 2.0 ANQP Network elements

WLAN security protocol using WPA/WPA2 algorithms shall be supported.

### 4.5.2 ePDG/AAA-Server Emulation

An IPsec tunnel is established between the UE being in the untrusted network and the ePDG: Establishment, maintenance and release of the IPsec tunnel requires IP signalling between the tunnel end-points (UE, ePDG) according to RFC 5996 [64] and TS 33.402 [25]. IP data between the UE and the emulated 3GPP network is transferred through the IPsec tunnel by using UDP Encapsulation of IPsec ESP Packets according to RFC 3948 [65].

Figure 4.5.2-1 shows the principle of the IPsec tunnel. Note that the IP addresses of 3GPP and non-3GPP network shall be different.

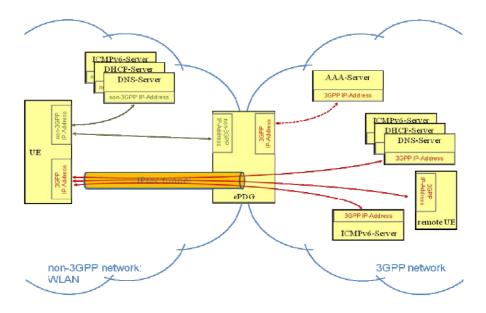


Figure 4.5.2-1: IPsec tunnel for untrusted Non-3GPP IP Access to 3GPP network

During establishment of the IPsec tunnel, parameters for authentication and authorization (EAP AKA) are exchanged between the ePDG and the AAA-server (see TS 33.402 [25] clause 8).

The means for establishment, maintenance and release of the IPsec tunnel shall be provided by the SS. The TTCN does not deal with IKE messages as such. In addition to the IP test model of clause 4.2.4 there are the following requirements for SS implementation:

- IPsec tunnelling according to RFC 5996 [64] (IKEv2) and RFC 3948 [65]
- Emulation of EAP AKA according to RFC 4187 [66] i.e. interworking between IPsec (ePDG) and emulated AAA-server

The enhancement of the common IP test model of clause 4.2.4 is shown in figure 4.5.2-2.

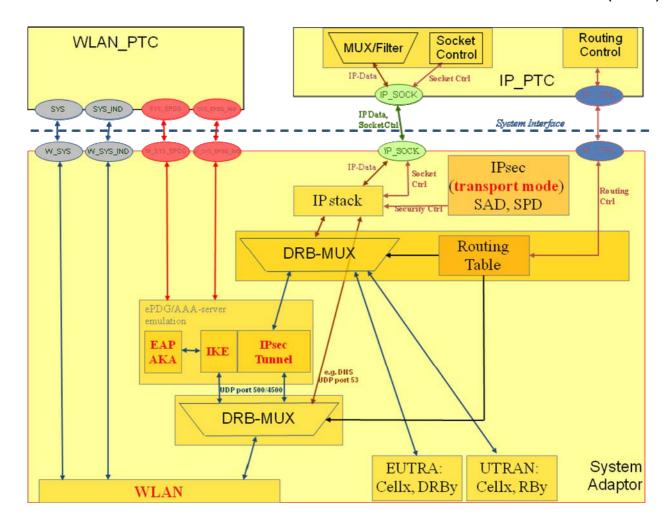


Figure 4.5.2-2: Generic WLAN Test Model

Further implementation requirements:

IPsec tunnel handling is controlled by the TTCN with static parameters

- DNS for dynamic selection of the ePDG is handled in the TTCN according to the common IP test model
- DHCP and ICMPv6 can be handled in the TTCN when needed (as for E-UTRA or UTRAN)
- IMS SIP/SDP signalling is handled in the TTCN as for E-UTRA or UTRAN
- RTP/RTCP loopback model can be configured in the same way as for E-UTRA
- Routing of IP packets from and to WLAN is controlled by the DRB-Mux in the same way as for E-UTRA or UTRAN

In the context of the IPsec tunnel, logically two instances of the DRB-Mux can be considered:

- Uplink
  - lower DRB-Mux to distinguish whether a UDP packet is IKE or ESP data
    - an IKE or ESP packet needs to be routed to the IPsec tunnel
  - upper DRB-Mux to handle IP packets coming out of the IPsec tunnel
- Downlink
  - upper DRB-Mux to distinguish whether an IP packet shall be sent into the IPsec tunnel

- lower DRB-Mux to determine routing of IKE/ESP packets (i.e. the packets inside the tunnel)

# 5 Upper Tester Interface

This clause describes the handling of Upper Tester Commands at the system interface. The internal handling of those commands in TTCN is out of scope.

In the TTCN, the Upper Tester is located at the MTC; therefore there is one interface to the system adaptor common for all RATs.

#### 5.1 Definitions

Upper test (UT) commands are commands at the UT interface and can be distinguished as:

- AT commands:

Well-defined commands specified in 3GPP core specifications like TS 27.007 [32].

At the UT interface AT commands shall be used as defined in the core specifications. It is out of scope of the TTCN implementation whether or not an AT command is supported by the UE and whether automatic operation or manual intervention is used.

All AT commands are sent as AT command strings as defined in clause 5.2. If an AT command is not implemented in the UE, the system adaptor needs to parse the AT command and map it to an appropriate proprietary command (which is out of scope for this document). If required, the system adaptor then also needs to provide a response appropriately formatted as an AT string, as expected by the TTCN.

- MMI commands:

In context of this specification MMI commands are commands for which there is no AT command defined in any core specification. This is independent from the operation (manual or automatic).

For each UT command the interactions between the system adaptor and the UE can be distinguished as either an automatic operation or requiring manual intervention.

- Automatic operation:

There is no interaction needed by the test operator i.e. the UT command is performed automatically (e.g. by using the UE's AT command interface). It is up to the system adaptor implementation to use the given UT command or map it to proprietary UE command(s) depending on each UE implementation (see clause 5.2).

- Manual intervention:

The UT command is performed by a test operator (e.g. by manual handling of the UE). The interaction between the SS and the operator, and the operator and the UE is up to the system adaptor implementation and out of scope for TTCN.

The TTCN implementation shall be the same for both modes. There shall be no difference between automatic operation and manual intervention.

NOTE: Annex E shows message flows for manual intervention and automatic operation in different scenarios. This illustrates the behaviour at the system adapter and shows that the behaviour is the same in TTCN for both modes.

# 5.2 Upper Tester ASPs

There is one primitive defined carrying either an MMI or an AT command to be sent to the system adaptor and one common confirmation primitive to be sent by the system adaptor.

TTCN-3 ASP Definition			
Type Name	UT_SYSTEM_REC	2	
TTCN-3 Type	Record		
Cmd		TTCN-3 Type	union
AT		charstring carrying the TS 27.005 [31] and TS	AT command as defined in TS 27.007 [32], 27.060 [33]
MMI		- Cmd (charst	ring)
		<ul> <li>List of paran</li> </ul>	neters:
		- N	ame (charstring)
		- V	alue (charstring)
CnfRequired		TTCN-3 Type	Ut_CnfReq_Type
		CNF_REQUIRED: SS	shall reply with one confirmation (NOTE)
		NO_CNF_REQUIRED:	SS shall swallow any confirmation generated
		LOCAL CNF REQUIR	RED: SS shall immediately send one
		in case of op	when the command is submitted to the UE i.e. perator interaction when the operator has e command, but SS shall not wait for the UE NOTE)
	TCN, a confirmation shall only be requested in cases when there is no signalling from the UE		
being triggered by the MMI/AT command			

	TTCN-3 ASP Definition			
Type Name	UT_COMMON_CN	F		
TTCN-3 Type	Record			
Result		TTCN-3 Type	boolean	
		1 -	RROR" as result code according to n case of e.g. "+CME ERROR" the	
ResultString		TTCN-3 Type	charstring	
		response by the UE for commands result, optional In case of AT commands, ResultS according to the specification of the	tring shall contain the complete line	

The following MMI commands are defined.

Table 5.1: MMI commands

0	Param	neters
Command	Name	Value
"SWITCH_ON"	(no	ne)
"SWITCH_OFF"	(no	
"POWER_ON"	(no	- (
"POWER_OFF" "INSERT USIM"	"USIM"	ne) <usim></usim>
"REMOVE_USIM"	(no	
"CHECK PLMN"	"PLMN"	<plmn id=""></plmn>
"CHECK_ETWS_INDICATION"	"WARNING1"	<warning1></warning1>
	"WARNING2"	<warning2></warning2>
"CHECK_ETWS_ALERT"	(no	ne)
"CHECK_ETWS_NO_ALERT"	(no	ne)
"CHECK_CMAS_INDICATION"	"WARNING1"	<warning1></warning1>
	"WARNING2"	<warning2></warning2>
"CHECK_CMAS_ALERT"	(no	ne)
"CHECK_CMAS_NO_ALERT"	(no	ne)
"HRPD_PDN_CONNECTION"	(no	ne)
"CHECK_MESSAGE_DISPLAYED"	"Length"	<length></length>
	"Msg"	<msg></msg>
"CHECK_SMS_LENGTH_CONTENT	"Length"	<length></length>
S"	"Msg"	<msg></msg>
"CONFIGURE_SMS_ONLY"	(no	ne)
"DISABLE EPS CAPABILITY"	(no	
"DETACH_NON_EPS"	(no	
"CLEAR_STORED_ASSISTANCE_D ATA"	(no	
"CHECK_DTCH_THROUGHCONNEC TED"	(no	ne)
"GERAN_UPLINK_DATA"	(no	
"SELECT_CSG"	"PLMN"	<plmn id=""></plmn>
"TDLOOFD LIGED DEOFLECTION"	"CSG"	<csg id=""></csg>
"TRIGGER_USER_RESELECTION" "REQUEST_NON_CALL_RELATED_	(no	
SS"	(no	ne)
"MBMS_SERVICE_INTEREST"	"PLMN"	<plmn id=""></plmn>
	"Service"	<mbms service<br="">ID&gt;</mbms>
	"Interest"	"ON" / "OFF"
	"SAI"	<mbms sai=""></mbms>
"MBMS_SERVICE_ACTIVE"	"Service"	<mbms service<br="">ID&gt;</mbms>
	"SAI"	<mbms sai=""></mbms>
	"Active"	"ON" / "OFF"
"MBMS_PRIORITY_OVER_UNICAST	"Priority Over	"FALSE" /
"	Unicast"	"TRUE"
"CHECK_ETWS_NO_INDICATION"	"WARNING1"	<warning1></warning1>
"CHECK CMAS NO INDICATION"	"WARNING2" "WARNING1"	<warning2> <warning1></warning1></warning2>
CHECK_CMAS_NO_INDICATION	"WARNING1"	<warning1></warning1>
"CHECK_CALL_DISPLAY"	"ToDisplay"	<name>/<num BER&gt;</num </name>
"CHECK_CSG"	"CSG"	< CSG ID >
	"Included"	"FALSE" / "TRUE"
"CHECK_NITZ_DST"	"DaylightSaving Time:"	DST
"CHECK_RESPONSE_DISPLAY"	"ToDisplay"	<string></string>
"CHECK_SS_USER_IND"	"Supplementary	<supplemen< td=""></supplemen<>
	Service"	TARY SERVICE>
	"ToDisplay"	<string></string>
"CHECK_SS_USER_IND_FAILURE"	(no	
	ı	

matches the start of the AT response expected by the TTCN					
command is not supported. They can be ignored if the UE supports the AT command. The prefix of these commands					
response is expected by the TTCN in the case when the AT					
		"Monitor"	"ON" / "OFF"		
		"Announce"	"ON" / "OFF"		
	· · · · · · · · · · · · · · · · · · ·	onID"	131101101111192		
"D2D DISC	OVFRY"	"ProSeApplicati	<charstring></charstring>		
		T4005	<t4005></t4005>		
		PLIVIN_LIST	ID_List>		
N"		onID" "PLMN_List"	<plmn< td=""></plmn<>		
"D2D_DISCOVERY_CONFIGURATIO		"ProSeApplicati	<charstring></charstring>		
"D2D_DISC	OVERY_CLEAR"	(none)			
"CMWN_DUMMY" (see Note)		(no	ne)		
		"TimeZone"	<timezone></timezone>		
		"Seconds"	<seconds></seconds>		
		"Minutes"	<minutes></minutes>		
		"Hour"	<hour></hour>		
		"Day"	<day></day>		
	, ,	"Month"	<month></month>		
	MMY" (see Note)	"Year	<year></year>		
	MMY" (see Note)	"Testname"	<testname></testname>		
"CCFC_DU	MMY" (see Note)	"Status"	<status></status>		
OWITER_D	OWNER (SEE NOIE)	Type"	N TYPE>		
"CMTLD DI	UMMY" (see Note)	"Notification	<notificatio< td=""></notificatio<>		
"WLAN_AN	DSF_NOT_CONFIGURED	(no	ne)		
	DSF_CONFIGURED"	(no	·		
(0.4/1.4.5.1.5.5.1	DOE CONFIGURED"	,	, RULE>		
"CONFIGURE_ANDSF_RULE"		"ANDSF Rule"	<andsf< td=""></andsf<>		
			MODE>		
"CONFIGUE	RE_OPERATIONMODE"	"OPERATION	<operation< td=""></operation<>		

The following AT commands are applied in TTCN.

**Table 5.2: AT Commands** 

Command	Reference
ATD	TS 27.007 [32]
ATA	TS 27.007 [32]
ATH	TS 27.007 [32]
AT+CGEQOS	TS 27.007 [32]
AT+CGTFT	TS 27.007 [32]
AT+CGDSCONT	TS 27.007 [32]
AT+CGACT	TS 27.007 [32]
AT+CGCMOD	TS 27.007 [32]
AT+CGDCONT	TS 27.007 [32]
AT+CMGD	TS 27.005 [31]
AT+CSMS	TS 27.005 [31]
AT+CPMS	TS 27.005 [31]
AT+CMGF	TS 27.005 [31]
AT+CSCS	TS 27.007 [32]
AT+CSCA	TS 27.005 [31]
AT+CMGW	TS 27.005 [31]
AT+CMSS	TS 27.005 [31]
AT+CMMS	TS 27.005 [31]
AT+CSMP	TS 27.005 [31]
AT+CGEQREQ	TS 27.007 [32]
AT+CCLK	TS 27.007 [32]
AT+COPS	TS 27.007 [32]
AT+CGATT	TS 27.007 [32]
AT+CEMODE	TS 27.007 [32]
AT+CEN	TS 27.007 [32]
AT+CLIP	TS 27.007 [32]
AT+CLIR	TS 27.007 [32]
AT+COLP	TS 27.007 [32]
AT+CCFC	TS 27.007 [32]
AT+CHLD	TS 27.007 [32]
AT+CEPPI	TS 27.007 [32]
AT+CDU	TS 27.007 [32]
AT+CHCCS	TS 27.007 [32]
AT+COLR	TS 27.007 [32]
AT+CCWA	TS 27.007 [32]
AT+CNAP	TS 27.007 [32]
AT+CLCK	TS 27.007 [32]
AT+CPWD	TS 27.007 [32]
AT+CTZR	TS 27.007 [32]
AT+CTZU	TS 27.007 [32]
AT+CUSD	TS 27.007 [32]
AT+CMWI	TS 27.007 [32]
AT+CPSMS	TS 27.007 [32]

AT commands are referred to TS 27.005 [31], TS 27.007 [32] and TS 27.060 [33].

The setting in TTCN of the AT command elements listed in Table 5-3 may require adaptation to the UE dependent interpretation of the element. It shall be handled by the system adaptor.

Table 5-3: AT commands elements

Element	Reference	TTCN Setting
<cid></cid>	TS 27.007 [32]	EPS Bearer Identity or PDP Context Identity

# 6 ASP specifications

### 6.1 General Requirements and Assumptions

The following common requirements affect ASP definitions:

- The definition of ASPs shall have no impact on the common system architecture or on the performance.
- The codec implementation is out of scope of the present document.
- For peer-to-peer PDUs contained in an ASP encoding rules need to be considered acc. to the respective protocol:
  - ASN.1 BER and PER.
  - Tabular notation for NAS PDUs or layer 2 data PDUs.

There are no encoding rules being defined for top level ASP definitions and information exchanged between the test executable and the System Adaptor (SA) only. Instead encoding depends on implementation of the codec and the SA.

There are no encoding rules being defined for ASPs between TTCN-3 components. This is implementation dependent.

Info elements defined in the protocol specifications (e.g. RRC) shall be re-used in configuration ASPs as far as possible.

For optional fields within the configuration ASPs, the following rules will be applied:

- For ASN.1 fields these will follow the same rules as defined in the RRC specification [19].
- For TTCN-3 fields when the current configuration of an optional field is to be 'kept as it is' then the field will be set to omit.
- For TTCN-3 fields when the current configuration of an optional field is to be released/deleted then a separate option is provided in a union.

### 6.1.1 IP ASP requirements

# 6.1.2 Enhancement of IP ASP for handling IMS signalling

The IMS test model handling registration signalling introduces IPsec and SigComp layers into the IP test model in Figure 4.2.5.2-1. The ASP on system port IP\_SOCK needs to be enhanced to provide additional configuration/control functions for IPsec and SigComp. The enhanced IP ASP should contain:

- 1. Function to clean all IPsec and SigComp configurations and to put the IPsec and SigComp in the initial state.
- 2. Function to return SigComp layer a Compartment Id instructing SigComp layer to save the state of a received message which was compressed.
- 3. Function to start or stop signalling compression in sending direction (the SS to the UE) of SigComp.
- 4. Function to set security parameters (per security association) in IPsec layer.
- 5. A flag indicating whether SigComp layer shall be included in the data path when establishing a connection.
- 6. A flag indicating whether the received message was compressed by SigComp.
- 7. A parameter to point to a compartment used by SigComp to send a message.

### 6.2 E-UTRAN ASP Definitions

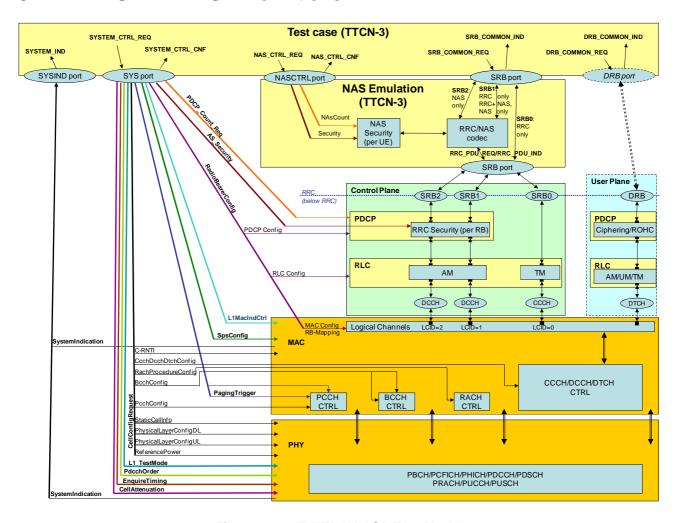


Figure 6.2-1: E-UTRAN ASP Test Model

### 6.2.1 Configuration Primitives

Annex D contains the ASP definitions for configurations.

# 6.2.2 Signalling Primitives

Annex D contains the ASP definitions for configurations.

# 6.2.3 Co-ordination Messages between NAS Emulation PTC and EUTRA PTC

TTCN-3 ASP Definition			
Type Name SRB_COMMON	N_REQ		
TTCN-3 Type Record			
Common Part	TTCN-3 Type	record	
CellId	cell id		
RoutingInfo	SRB0, SRB1, SRB2		
TimingInfo	system frame number and sub-	frame number or "Now"	
ControlInfo	CnfFlag: (normally false)		
	FollowOnFlag:		
		e(s) to be sent on the same TTI will	
	follow		
		o is not used in the messages to be	
	sent on the same TTI	, the SS shall produce an error.	
	false: Indicates that no more m	<u> </u>	
Signalling Part	TTCN-3 Type	record	
Rrc	TTCN-3 Type	union	
	omit:		
		NAS message shall be present; NAS message shall be sent in	
	DLInformationTransfer	_	
	present, NAS message present:		
		be security protected (if necessary) and	
	inserted in RRC PDU's NAS_De	edicatedInformation	
	present, NAS message omit:	a NIAO information)	
0	(RRC message does not contai		
Ccch	DL_CCCH_Message as define		
Dcch	DL_DCCH_Message as define		
Nas	TTCN-3 Type	record	
	omit:	, DDC manage dans not contain	
		; RRC message does not contain	
	(piggybacked) NAS PDU present, RRC message omit:		
		NAS message shall be sent embedded in DLInformationTransfer	
	present, RRC message present:		
	NAS message is piggybacked in RRC message		
	NOTE 2: In case of RRC message being sent on CCCH or does not		
		atedInformation NAS message shall be	
	omitted.	accumonnation in to mossage shall be	
SecurityProtectionInfo		integrity and/or ciphering, if at all)	
NAS message	union of all NAS messages defi		
Twice incodage	PROTECTED NAS MESSAGE	<u></u> 5.00pt <u>0_</u> 01	

TTCN-3 ASP Definition			
Type Name	SRB_COMMON	IND	
TTCN-3 Type	Record		
Common Part		TTCN-3 Type	record
CellId		cell id	
RoutingInfo		SRB0, SRB1, SRB2	
TimingInfo		system frame number; sub-frame number wh	nen PDU has been received
Signalling Part		TTCN-3 Type	record
Rrc		TTCN-3 Type	union
		omit:  NAS message shall be present; NAS messa ULInformationTransfer present, NAS message present:  NAS_DedicatedInformation contains unstructured to NAS PDU and the NAS message of message in structured format present, NAS message omit:  (RRC message does not contain NAS informat)	tured and security contains the deciphered
Ccch		UL_CCCH_Message as define in TS 36.331	
Dcch		UL_DCCH_Message as define in TS 36.331	[19], clause 6.2.1

TTCN-3 ASP Definition				
Nas	TTCN-3 Type	record		
	omit  RRC message shall be present; RRC message does not contain (piggybacked) NAS PDU present, RRC message omit  NAS message has been received in ULInformationTransfer present, RRC message present  NAS message is piggybacked in RRC message			
SecurityProtectionInfo	security status (if protected with integrity and/or ciphering, if at all), nas count			
NAS message	union of all NAS messages define for UL except SECURITY PROTECTED NAS MESSAGE			

	TTCN-3 ASP Definition				
Type Name	NAS_CTRL_REG	2			
TTCN-3 Type	Record				
Common Part		TTCN-3 Type	record		
CellId		cell id			
RoutingInfo		(not used for configuration)			
TimingInfo		current system frame number; sub-frame nu	mber		
		(always provided by the SS)			
Result		Success or error			
		(in case of error an SS specific error code sl			
be evaluated by TTCN but may be useful for validation)		r validation)			
Primitive specific F	Primitive specific Part   TTCN-3 Type   union		union		
Security		Start/Restart			
		Integrity			
		Ciphering			
		NasCountReset			
		Release			
NAS Count		get			
		set			

TTCN-3 ASP Definition			
Type Name	NAS_CTRL_0	CNF	
TTCN-3 Type	Record		
Common Part		TTCN-3 Type	record
CellId		cell id	
RoutingInfo		(not used for configuration)	
TimingInfo		current system frame number; sub-frame number	
		(always provided by the SS)	
Result Success or error			
		(in case of error an SS specific error code shall I	
		evaluated by TTCN but may be useful for validate	tion)
Primitive specific I	Part	TTCN-3 Type	union
Security		(contains no further information)	
NAS Count		get	
		set	

# 6.3 UTRAN ASP Definitions

The UTRAN ASP definitions are specified according to 3GPP TS 34.123 [7], clause 6A.3.

### 6.3.1 Void

# 6.3.2 ASPs for Data Transmission and Reception

TTCN-3 ASP Definition				
Type Name	U_RLC_AM_REQ			
TTCN-3 Type	union			
Port	UTRAN_AM			
RLC_AM_DATA_REQ		-	TS 34.123-3, clause 7.3.2.2.34	
RLC_AM_TestDataReq		-	TS 34.123-3, clause 7.3.3.1	

		TTCN-3 ASP Definition
Type Name	U_RLC_AM_IND	
TTCN-3 Type	union	
Port	UTRAN_AM	
RLC_AM_DATA_CNF		TS 34.123-3, clause 7.3.2.2.34
RLC_AM_DATA_IND		TS 34.123-3, clause 7.3.2.2.34
RLC_AM_TestDataInd		TS 34.123-3, clause 7.3.3.1

TTCN-3 ASP Definition	Port	Defined in
UTRAN_RLC_AM_REQ	UTRAN_AM	TS 34.123-3, clause 7.3.2.2.34
UTRAN_RLC_AM_IND	UTRAN_AM	TS 34.123-3, clause 7.3.2.2.34
UTRAN_RLC_TR_REQ	UTRAN_TM	TS 34.123-3, clause 7.3.2.2.33
UTRAN_RLC_TR_IND	UTRAN_TM	TS 34.123-3, clause 7.3.2.2.33
UTRAN_RLC_UM_REQ	UTRAN_UM	TS 34.123-3, clause 7.3.2.2.35
UTRAN_RLC_UM_IND	UTRAN_UM	TS 34.123-3, clause 7.3.2.2.35
RRC_DataReq	UTRAN_Dc	TS 34.123-3, clause 7.1.2
RRC_DataReqInd	UTRAN_Dc	TS 34.123-3, clause 7.1.2

The Invalid\_DL\_DCCH\_Message type is replaced with:

Type Name	Invalid_DL_DCCH_Message
TTCN-3 Type	NULL

# 6.4 GERAN ASP Definitions

# 6.4.1 ASPs for Control Primitive Transmission

TTCN-3 ASP Definition		
Type Name	GCPHY_CONFIG_REQ	
TTCN-3 Type	Union	
Port	GERAN_CL1	
G_CL1_CreateCell_I	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_DeleteCell_F	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CreateBasic		TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CreateMultiS	SlotConfig_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_DeleteChann	nel_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_ChangePow	erLevel_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CipheringCo	ntrol_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_CipherMode	Modify_REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_ChModeMod		TS 34.123-3, clause 7.3.4.3.2.1
G_CL1_ComingFN_I	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL2_HoldPhyInfo	_REQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL1_L1Header_R	REQ	TS 34.123-3, clause 7.3.4.3.2.1
G_CL2_MeasRptCor	ntrol_REQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL2_NoUAforSAE	BM_REQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL2_ResumeUAf	orSABM_REQ	TS 34.123-3, clause 7.3.4.3.2.2
G_CL2_Release_RE	Q	TS 34.123-3, clause 7.3.4.3.2.2
G_CL1_SetNewKey_	_REQ	TS 34.123-3, clause 7.3.4.3.2.1

	TTCN-3 AS	P Definition
Type Name	G_CPHY_CONFIG_CNF	
TTCN-3 Type	Union	
Port	GERAN_CL1	
ComingFN		RFN
L1Header		L1Header
None		This choice used when neither of the other choices are
		selected

	TTCN-3	ASP Definition
Type Name	G_CRLC_CONFIG_REQ	
TTCN-3 Type	Union	
Port	GERAN_CRLC	
G_CRLC_CreateRL	C_MAC_REQ	TS 34.123-3, clause 7.3.4.3.2.3
G_CRLC_DeleteRL	C_MAC_REQ	TS 34.123-3, clause 7.3.4.3.2.3
G_CRLC_DL_TBF_	Config_REQ	TS 34.123-3, clause 7.3.4.3.2.3
G CRLC UL TBF	Config REQ	TS 34.123-3. clause 7.3.4.3.2.3

TTCN-3 ASP Definition			
Type Name	G_CRLC_CONFIG CNF		
TTCN-3 Type	empty record		
Port	GERAN_CRLC		

	TTCN-3 A	SP Definition
Type Name	G_CLLC_CONFIG_REQ	
TTCN-3 Type	Union	
Port	GERAN_CLLC	
G_CLLC_Assign_RE	EQ .	TS 34.123-3, clause 7.3.4.3.2.4
G_CLLC_Reassign_	REQ	TS 34.123-3, clause 7.3.4.3.2.4
G_CLLC_CreateLLE	_REQ	TS 34.123-3, clause 7.3.4.3.2.4
G_CLLC_DeleteLLE	_REQ	TS 34.123-3, clause 7.3.4.3.2.4

	TTCN-3 ASP Definition
Type Name	G_CLLC_CONFIG_CNF
TTCN-3 Type	empty record
Port	GERAN_CLLC

ASP Name G_CS	NDCP_Activate_REQ	DCP_Activate_REQ		
PCO Type G_CS				
<b>Comments</b> The A	SP is used to activate the	P is used to activate the SNDCP entity		
Parameter Name	Parameter Type	Comments		
sNDCPId	SNDCPId	The SNDCP entity identifier of the cell		
ILMEId	LLMEId	Logical link management entity Id		
nSAPI	integer	The Network Service Access Point Identifier		
sAPI	SAPI	LLC SAPI		
		0 - RFC 1144 [54] compress;		
PCI_Compression	INTEGER	1 - RFC 2507 [55] compression;		
		32 - no compression		
		0 - ITU-T Recommendation V.42bis [56] compression;		
dataCompression	INTEGER	1 - ITU-T Recommendation V.44 [57] compression;		
		32 - no compression		
nPDUNumberSync	INTEGER	0 - Asynchronous		
,	INTEGER	1 - Synchronous		
Detailed Comments				

ASP Name	G_CSNDCP_A	ctivate_CNF	
PCO Type	G_CSAP		
Comments	The ASP is use	d to get the confirmation of a G_CSN	NDCP_Activate_REQ
Paramet	er Name	Parameter Type	Comments
sNDCPId		SNDCPId	SNDCPentity identifier
nSAPI	•	NSAPI	The Network Service Access Point Identifier
Detailed Co	mments		

ASP Name	G_CSNDC	P_Release_REQ	
PCO Type	G_CSAP		
Comments		s used to inform that the NSAF or the requested SAPI is estab	PI is in use and the acknowledge mode peer to peer LLC plished.
D			
Parameter	Name	Parameter Type	Comments
sNDCPId	Name	SNDCPId	The SNDCP entity identifier
	Name	71	

TTCN-3 ASP Definition		
Type Name	G_SNDCP_CONFIG_CNF	
TTCN-3 Type	Record	
Port	GERAN_CSNDCP	

TTCN-3 ASP Definition			
Type Name	G_SNDCP_CONFIG_REQ		
TTCN-3 Type	Union		
Port	GERAN_CSNDCP		
G_CSNDCP_Activate	_REQ		
G_CSNDCP_Release	REQ		

ASP Name	G_CLLC_XID_Config_REQ				
PCO Type	G_CSAP				
Comments	The ASP is used t	The ASP is used to inform the SS of the XID information responded to the UE by TTCN			
Param	eter Name Parameter Type Comments		Comments		
ILMEId		LLMEId			
tLLI	TLLI				
sAPI		SAPI			
xID_Info		XID_Info	the XID parameters responded to the UE/MS		
Detailed C	Comments				

# 6.4.2 ASPs for Data Transmission and Reception

TTCN-3 ASP Definition			
Type Name	GL2_DATAMESSAGE_REQ		
TTCN-3 Type	Union		
Port	GERAN_L2		
G_L2_UNITDATA_R	EQ	TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_Release_REQ		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_SYSINFO_REQ		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_Paging_REQ		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_PagingGPRS_REQ		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_DATA_REQ T		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_GTTP_REQ	·	TS 34.123-3, clause 7.3.4.3.1.1	

The SysInfoType is replaced with:

Type Name	SysInfoMsg
TTCN-3 Type	Union
	SYSTEMINFORMATIONTYPE1
	SYSTEMINFORMATIONTYPE2
	SYSTEMINFORMATIONTYPE3
	SYSTEMINFORMATIONTYPE4
	SYSTEMINFORMATIONTYPE5
	SYSTEMINFORMATIONTYPE6
	SYSTEMINFORMATIONTYPE13
	SYSTEMINFORMATIONTYPE15
	SYSTEMINFORMATIONTYPE2bis
	SYSTEMINFORMATIONTYPE2ter
	SYSTEMINFORMATIONTYPE2quater
_	SYSTEMINFORMATIONTYPE5bis

TTCN-3 ASP Definition			
Type Name	GL2_DATAMESSAGE_IND		
TTCN-3 Type	Union		
Port	GERAN_L2		
G_L2_UNITDATA_IN	ND	TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_Release_CNF		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_Release_IND		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_Estab_IND		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_GTTP_IND		TS 34.123-3, clause 7.3.4.3.1.1	
G_L2_DATA_IND		TS 34.123-3, clause 7.3.4.3.1.1	
G L2 ACCESS IND		TS 34.123-3, clause 7.3.4.3.1.1	

TTCN-3 ASP Definition			
Type Name	GRLC_DATAMESSAGE_REQ		
TTCN-3 Type	Union		
Port	GERAN_RLC		
GRLC_ControlMsg_REQ		TS 34.123-3, clause 7.3.4.3.1.2	

TTCN-3 ASP Definition			
Type Name	GRLC_DATAMESSAGE_IND		
TTCN-3 Type	Union		
Port	GERAN_RLC		
GRLC_ControlMs	g_IND	TS 34.123-3, clause 7.3.4.3.1.2	

TTCN-3 ASP Definition			
Type Name	GLLC_DATAMESSAGE_REQ		
TTCN-3 Type	Union		
Port	GERAN_LLC		
G_LLC_UNITDATA	_REQ	TS 34.123-3, clause 7.3.4.3.1.3	
G LLC XID RES	TS 34.123-3. clause 7.3.4.3.1.3		

ASP Name   G_LLC_NULL_IND				
PCO Type G_DSAP	G DSAP			
Comments The ASP is used to rece	eive the LLC NULL frame, sent by the UE	for Cell Update.		
Parameter Name Parameter Type Comments				
ILMEId	LLMEId			
tLLI	TLLI			
sAPI	SAPI			
Detailed Comments				

TTCN-3 ASP Definition			
Type Name	GLLC_DATAMESSAGE_IND		
TTCN-3 Type	Union		
Port	GERAN_LLC		
G_LLC_UNITDATA_	IND	TS 34.123-3, clause 7.3.4.3.1.3	
G_LLC_XID_IND		TS 34.123-3, clause 7.3.4.3.1.3	
G_LLC_NULL_IND			

ASP Name	G_SN_UNIDATA_REQ			
PCO Type	G_DSAP			
Comments	The ASP is used to send a valid IP datagram on the specified NSAPI to the UE/MS by unacknowledged transmission.			
Parar	ameter Name Parameter Type Comments		Comments	
sNDCPId			SNDCPId	
nSAPI			integer	5 to 15
n_PDU			N_PDU	Valid IPv4 or IPv6 datagram
Detelled Co	comments Unacknowledged transmission mode			

ASP Name	G_SN_UNITDA	ATA_IND										
PCO Type	G_DSAP											
	The ASP is used to receive an IP datagram on the specified NASPI from the UE/MS in unacknowledged transmission mode.											
Para	ameter Name		Parameter Type	Comments								
sNDCPId			SNDCPId									
nSAPI			integer	5 to 15								
n_PDU			N_PDU IPv4 or IPv6 datagram									
Detailed Comments Unacknowledged transmission mode												

Type Name	SNDCPId
Type Definition	INTEGER
Type Encoding	
Comments	The identifier of the SNDCP entity in SGSN

	TTCN-3 ASP Definition										
Type Name	G_SN_DATAMESSAGE_REQ										
TTCN-3 Type	Union										
Port	GERAN_SNDCP										
G_SN_UNITDATA_F	REQ										

	TTCN-3 ASP Definition										
Type Name	G_SN_DATAMESSAGE_IND										
TTCN-3 Type	Union										
Port	GERAN_SNDCP										
G_SN_UNITDATA_I	ND										

# 7 Test Methods and Design Considerations

# 7.1 Channel Mapping

Figure 7.1 shows the channel type mapping that is used for the configuration of the SS. In layer 2 test cases non default channel mapping can be applied on SS, as explained in clause 4.2.1.

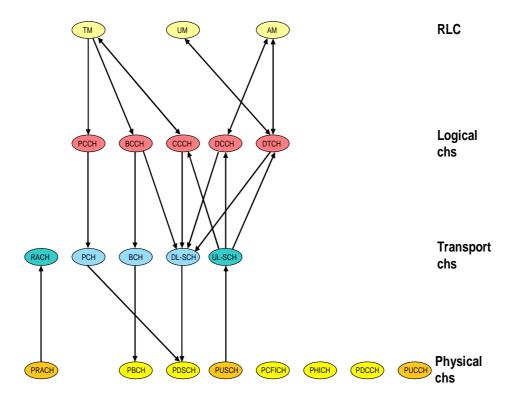


Figure 7.1-1: Channel type mapping for the default configuration of the SS

#### 7.1.1 PDCCH Candidate Selection

In this clause following abbreviations are used:

- Common search Space Aggregation: CS\_Agr.
- UE-Specific Search Space Aggregation: UE\_Agr.
- Total number of CCEs available in a subframe: Max\_CCE.

SS shall apply defined rules below in a DL subframe for PDCCH candidates' selection.

- Scheduled transmissions on SI-RNTI / P-RNTI / RA-RNTI/M-RNTI, use Common Search Space. UL and DL Scheduled transmissions on C-RNTI SPS C-RNTI, DL Scheduled transmissions on Temp. C-RNTI and UL Scheduled transmission on SL-RNTI, use UE-Specific Search Space. Transmissions on TPC-PUCCH-RNTI / TPC-PUSCH-RNTI and UL Scheduled transmissions on Temp. C-RNTI is not considered for default CCE management.
- If a transmission on SI-RNTI is scheduled, PDCCH candidate corresponding to CCEs between 0 and (CS\_Agr-1) is used. For FDD, this PDCCH candidate is reserved for SI-RNTI, and left vacant if no SI-RNTI transmission is scheduled. For TDD the default UL/DL configuration type 1, this PDCCH candidate is reserved for SI-RNTI in subframes 0 & 5 (i.e. subframes where PDCCH for UL grant for C-RNTI/SPS-RNTI is not scheduled).

- PDCCH candidates corresponding to CCEs between CS\_Agr and (2\*CS\_Agr-1) can be used for the transmission on P-RNTI, RA-RNTI or M-RNTI. In conformance test cases with single UE, there is no requirement for transmissions scheduled for more than one of P-RNTI, RA-RNTI or M-RNTI in one DL subframe. As per 36.331 [19] clause 5.8.1.3, the MCCH change notification indicator shall be transmitted on MBSFN subframes only.

#### For FDD:

- For DL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI the lowest value of m =m' which has a PDCCH available from CCEs between 2\*CS\_Agr and (Max\_CCE-1) shall be used. 'm' is defined in TS 36.213 [30], clause 9.1.1.
- For UL transmission for C-RNTI/SPS-RNTI/ SL-RNTI the lowest value of m =m">m" which has a PDCCH available from CCEs between 2\*CS\_Agr and (Max\_CCE-1) shall be used, irrespective of PDCCH candidate corresponding to m' is used or not. In conformance test cases with single UE, there is no requirement for transmissions scheduled for more than one of C-RNTI/SPS-RNTI or SL-RNTI in one DL subframe.

#### For TDD:

- For DL transmission, for C-RNTI/SPS-RNTI/Temp C-RNTI the lowest value of m =m' which has a PDCCH available from CCEs between 1\*CS\_Agr and (Max\_CCE-1) shall be used. 'm' is defined in TS 36.213 [30] clause 9.1.1. It is further assumed that in a typical conformance testing environment, there will not be a requirement to schedule DL transmission for C-RNTI/SPS-RNTI/Temp C-RNTI, P-RNTI and RA-RNTI in one DL sub frame.
- For UL transmission, for C-RNTI/SPS-RNTI/ SL-RNTI the lowest value of m =m"and if in the sub frame m' is also used, m"!=m' has a PDCCH available from CCEs between 0 and (Max\_CCE-1) shall be used. In conformance test cases with single UE, there is no requirement for transmissions scheduled for more than one of C-RNTI/SPS-RNTI or SL-RNTI in one DL subframe.

NOTE: If m' or m" cannot be allocated in any TTI, it is a TTCN error due to X-RNTI not properly allocated. The error shall be reported to TTCN. The TTCN will exit the test case assigning an inconclusive verdict.

#### 7.1.1.1 FDD candidates selection

Table 7.1.1.1-1 gives the CCE resources utilized for m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=2 resulting in 6 PDCCH candidates m=0..5 and channel Bandwidth of 5 MHz. This give Max\_CCE =20 for FDD. The table also gives the corresponding CCE start indices of PDCCH candidates for m' and m".

Table 7.1.1.1-1: CCE Start indices(m' & m" to be used for various C-RNTIs (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	0	1	0	0	0	3	4	0	0	0
	4097	CCE_St_Ind'	12	8	14	8	12	8	8	8	14	10
		m"	1	2	1	1	1	4	5	1	1	1
		CCE_St_Ind"	14	10	16	10	14	10	10	10	16	12
tsc_C_RNTI_Def2	'1034'H	m'	0	0	2	0	0	4	4	1	0	0
	4148	CCE_St_Ind'	12	16	8	14	10	8	8	8	18	16
		m"	1	1	3	1	1	5	5	2	5	1
		CCE_St_Ind"	14	18	10	16	12	10	10	10	8	18
tsc_C_RNTI_Def3	'1111'H	m'	0	0	0	2	3	0	0	0	0	4
	4369	CCE_St_Ind'	16	10	14	8	8	10	14	8	18	8
		m"	1	1	1	3	4	1	1	1	5	5
		CCE_St_Ind"	18	12	16	10	10	12	16	10	8	10
tsc_C_RNTI_Def4	'1FF1'H	m'	0	0	0	0	3	0	0	0	2	4
	8177	CCE_St_Ind'	12	12	18	16	8	18	18	18	8	8
		m"	1	1	5	1	4	5	5	5	3	5
		CCE_St_Ind"	14	14	8	18	10	8	8	8	10	10
tsc_C_RNTI_Def5	'04D2'H	m'	0	2	0	4	0	2	3	0	1	0
	1234	CCE_St_Ind'	10	8	10	8	14	8	8	14	8	10
		m"	1	3	1	5	1	3	4	1	2	1
		CCE_St_Ind"	12	10	12	10	16	10	10	16	10	12
tsc_C_RNTI_Def6	'0929'H	m'	4	0	4	0	0	1	3	3	4	2
	2345	CCE_St_Ind'	8	10	8	12	14	8	8	8	8	8
		m"	5	1	5	1	1	2	4	4	5	3
		CCE_St_Ind"	10	12	10	14	16	10	10	10	10	10
tsc_C_RNTI_Def7	'0D80'H	m'	2	0	2	0	0	0	3	0	0	2
	3456	CCE_St_Ind'	8	16	8	18	14	14	8	16	14	8
		m"	3	1	3	5	1	1	4	1	1	3
		CCE_St_Ind"	10	18	10	8	16	16	10	18	16	10
tsc_C_RNTI_Def8	'11D7'H	m'	0	0	0	2	0	0	3	2	0	2
	4567	CCE_St_Ind'	8	16	8	8	14	16	8	8	8	8
		m"	1	1	1	3	1	1	4	3	1	3
		CCE_St_Ind"	10	18	10	10	16	18	10	10	10	10
tsc_C_RNTI_Def9	'162E'H	m'	0	3	0	0	0	2	0	0	3	2
	5678	CCE_St_Ind'	12	8	12	16	8	8	16	18	8	8
		m"	1	4	1	1	1	3	1	5	4	3
		CCE_St_Ind"	14	10	14	18	10	10	18	8	10	10
tsc_C_RNTI_Def10	'1A85'H	m'	0	0	0	3	0	1	0	1	3	2
	6789	CCE_St_Ind'	16	8	16	8	8	8	16	8	8	8
		m"	1	1	1	4	1	2	1	2	4	3
		CCE_St_Ind"	18	10	18	10	10	10	18	10	10	10

Table 7.1.1.1-1a gives the CCE resources utilized for m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=2 resulting in 6 PDCCH candidates m=0..5 and channel Bandwidth of 5 MHz and CFI=2, suitable for eMBMS test cases. This give Max\_CCE =12 for FDD. The table also gives the corresponding CCE start indices of PDCCH candidates for m' and m".

Table 7.1.1.1-1a: CCE Start indices(m' & m" to be used for various C-RNTIs with CFI=2 (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	4	3	3	0	2	1	2	0	3	1
	4097	CCE_St_Ind'	8	8	8	8	8	8	8	8	8	8
		m"	5	4	4	1	3	2	3	1	4	2
		CCE_St_Ind"	10	10	10	10	10	10	10	10	10	10
tsc_C_RNTI_Def2	'1034'H	m'	0	4	0	0	3	4	0	0	1	0
	4148	CCE_St_Ind'	8	8	8	10	8	8	8	10	8	8
		m"	1	5	1	5	4	5	1	5	2	1
		CCE_St_Ind"	10	10	10	8	10	10	10	8	10	10
tsc_C_RNTI_Def3	'1111'H	m'	2	0	0	4	0	0	0	2	0	2
	4369	CCE_St_Ind'	8	10	10	8	10	10	10	8	10	8
		m"	3	5	5	5	5	5	5	3	5	3
		CCE_St_Ind"	10	8	8	10	8	8	8	10	8	10

Tables 7.1.1.1-2, 7.1.1.1-3 and 7.1.1.1-4 give the CCE resources utilized for m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=2 resulting in 6 PDCCH candidates m=0..5 and bandwidths of 10/15/20 MHz respectively. This gives Max\_CCE =25(10 MHz)/37(15 MHz)/50(20 MHz) for FDD. The tables also give the corresponding CCE start indices of PDCCH candidates for m' and m". These are in general to be applied in MAC Transport block size test cases defined in clause 7.1.7 of TS 36.523-1 [1].

Table 7.1.1.1-2: CCE Start indices (m' & m") to be used for default C-RNTI (10 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	0	3	3	0	0	0	0	0	0	0
	4097	CCE_St_Ind'	12	8	8	20	16	18	16	8	14	18
		m"	1	4	4	1	1	1	1	1	1	1
		CCE_St_Ind"	14	10	10	22	18	20	18	10	16	20
tsc_C_RNTI_Def2	'1034'H	m'	0	4	0	0	0	4	0	0	0	0
	4148	CCE_St_Ind'	8	8	20	10	14	8	20	22	18	8
		m"	1	5	1	1	1	5	1	5	1	1
		CCE_St_Ind"	10	10	22	12	16	10	22	8	20	10
tsc_C_RNTI_Def3	'1111'H	m'	0	0	0	4	0	0	0	2	0	0
	4369	CCE_St_Ind'	16	10	10	8	22	22	22	8	10	16
		m"	1	1	1	5	5	5	5	3	1	1
		CCE_St_Ind"	18	12	12	10	8	8	8	10	12	18
tsc_C_RNTI_Def4	'1FF1'H	m'	2	0	0	4	0	0	3	0	2	0
	8177	CCE_St_Ind'	8	20	14	8	10	18	8	22	8	12
		m"	3	1	1	5	1	1	4	5	3	1
		CCE_St_Ind"	10	22	16	10	12	20	10	8	10	14
tsc_C_RNTI_Def5	'04D2'H	m'	3	0	0	0	0	2	3	3	1	0
	1234	CCE_St_Ind'	8	16	22	12	22	8	8	8	8	22
		m"	4	1	5	1	5	3	4	4	2	5
		CCE_St_Ind"	10	18	8	14	8	10	10	10	10	8
tsc_C_RNTI_Def6	'0929'H	m'	0	0	2	2	0	1	0	0	0	2
	2345	CCE_St_Ind'	20	18	8	8	18	8	18	22	12	8
		m"	1	1	3	3	1	2	1	5	1	3
		CCE_St_Ind"	22	20	10	10	20	10	20	8	14	10
tsc_C_RNTI_Def7	'0D80'H	m'	4	0	0	1	0	0	0	0	0	4
	3456	CCE_St_Ind'	8	20	20	8	14	22	10	8	18	8
		m"	5	1	1	2	1	5	1	1	1	5
		CCE_St_Ind"	10	22	22	10	16	8	12	10	20	10
tsc_C_RNTI_Def8	'11D7'H	m'	2	0	0	0	0	4	3	2	4	0
	4567	CCE_St_Ind'	8	8	12	8	10	8	8	8	8	20
		m"	3	1	1	1	1	5	4	3	5	1
		CCE_St_Ind"	10	10	14	10	12	10	10	10	10	22
tsc_C_RNTI_Def9	'162E'H	m'	0	0	2	4	0	0	2	0	1	0
	5678	CCE_St_Ind'	8	10	8	8	16	16	8	14	8	16
		m"	1	1	3	5	1	1	3	1	2	1
		CCE_St_Ind"	10	12	10	10	18	18	10	16	10	18
tsc_C_RNTI_Def10	'1A85'H	m'	0	0	0	3	0	0	0	0	3	0
	6789	CCE_St_Ind'	12	12	20	8	12	18	20	10	8	12
		m"	1	1	1	4	1	1	1	1	4	1
		CCE_St_Ind"	14	14	22	10	14	20	22	12	10	14

Table 7.1.1.1-3: CCE Start indices (m' & m") to be used for default C-RNTI (15 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
tsc_C_RNTI_Def	'1001'H	m'	4	0	0	0	0	0	0	0	0	0
	4097	CCE_St_Ind'	8	14	14	20	16	18	28	20	26	30
		m"	5	1	1	1	1	1	1	1	1	1
		CCE_St_Ind"	10	16	16	22	18	20	30	22	28	32
tsc_C_RNTI_Def2	'1034'H	m'	0	0	0	0	0	4	0	0	0	0
	4148	CCE_St_Ind'	32	12	20	34	14	8	8	10	30	32
		m"	1	1	1	5	1	5	1	1	1	1
		CCE_St_Ind"	34	14	22	8	16	10	10	12	32	34
tsc_C_RNTI_Def3	'1111'H	m'	0	0	0	4	0	0	0	0	0	0
	4369	CCE_St_Ind'	16	22	22	8	10	22	34	28	34	28
		m"	1	1	1	5	1	1	5	1	5	1
		CCE St Ind"	18	24	24	10	12	24	8	30	8	30

C-RNTI SF0 SF1 SF2 SF3 SF4 SF5 SF6 SF7 SF8 SF9 Value tsc\_C\_RNTI\_Def '1001'H m' CCE\_St\_Ind' m" CCE St Ind" tsc\_C\_RNTI\_Def2 '1034'H m' CCE\_St\_Ind m' CCE\_St\_Ind" tsc\_C\_RNTI\_Def3 '1111'H lm' CCE\_St\_Ind' lm' 

Table 7.1.1.1-4: CCE Start indices (m' & m") to be used for default C-RNTI (20 MHz)

#### 7.1.1.2 TDD candidates selection

CCE St Ind"

The default TDD subframe configuration 1 is applied to this clause. By default no DL data is scheduled in special subframes 1 and 6.

Considering that each TDD subframe having different PHICH group number, and only two symbols being present for PDCCH in the special subframes 1 and 6 for bandwidth of 5 MHz, two symbols for PDCCH in all subframes for bandwidth of 10/15/20 MHz (TS 36.508 [3]), each subframe has, therefore, different number of MAX\_CCE.

Table 7.1.1.2-1 gives the PDCCH candidates of m' and m" for default values of common search space aggregation level =8, UE-specific search space aggregation L=8 resulting in 2 PDCCH candidates m=0,1 and the corresponding CCE start indices for channel bandwidth of 5MHz. SF0 and SF5 cannot be used for UL grant. SF1 and SF6 are not used for DL assignment. SF2, SF3, SF7 and SF8 are not applicable to PDCCH CCE allocation since they are uplink subframes.

Table 7.1.1.2-1: CCE Start indices (m' & m") to be used for various C-RNTIs (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	21	12	-	-	20	21	12	-	-	20
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	1	0	-	-	-	0
	4097	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	0	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def2	'1034'H	m'	1	-	-	-	0	1	-	-	-	1
	4148	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def3	'1111'H	m'	1	-	-	-	0	0	-	-	-	1
	4369	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def4	'1FF1'H	m'	1	-	-	-	0	0	-	-	-	1
	8177	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m''	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def5	'04D2'H	m'	0	-	-	-	0	1	-	-	-	0
	1234	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def6	'0929'H	m'	1	-	-	-	0	0	-	-	-	1
	2345	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m''	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	10	-	-	0
tsc_C_RNTI_Def7	'0D80'H	m'	1	-	-	-	0	0	-	-	-	1
	3456	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m''	-	0	-	-	1	-	0	-	-	0
	1	CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def8	'11D7'H	m'	1	-	-	-	0	0	-	-	-	1
	4567	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def9	'162E'H	m'	1	-	-	-	0	0	-	-	-	1
	5678	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def1	'1A85'H	m'	1	-	-	-	0	0	-	-	-	1
0	6789	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0

Table 7.1.1.2-1a gives the PDCCH candidates of m' and m" for default values of common search space aggregation level =4, UE-specific search space aggregation L=4 resulting in 2 PDCCH candidates m=0,1 and the corresponding CCE start indices for channel bandwidth of 5MHz and CFI=2, suitable for eMBMS test cases. SF0 and SF5 cannot be used for UL grant. SF1 and SF6 are not used for DL assignment. SF2, SF3, SF7 and SF8 are not applicable to PDCCH CCE allocation since they are uplink subframes.

Note: With Max-CCE=13 or 12, aggregation level of 8 results in only 1 PDCCH candidate. Hence aggregation level of 4 is used.

Table 7.1.1.2-1a: CCE Start indices (m' & m") to be used for various C-RNTIs with CFI=2 (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	13	12	-	-	12	13	12	-	-	12
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	0	1	-	-	-	1
	4097	CCE_St_Ind'	4	-	-	-	8	4	-	-	-	4
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	4	-	-	0	-	8	-	-	0
tsc_C_RNTI_Def2	'1034'H	m'	0	-	-	-	0	1	-	-	-	0
	4148	CCE_St_Ind'	4	-	-	-	4	4	-	-	-	4
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	8	-	4	-	-	8
tsc_C_RNTI_Def3	'1111'H	m'	0	-	-	-	0	0	-	-	-	0
	4369	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	8	-	-	0	-	8	-	-	0

Tables 7.1.1.2-2, 7.1.1.2-3 and 7.1.1.2-4 give the PDCCH candidates of m' and m" for default values of common search space aggregation level =8, UE-specific search space aggregation L=8 resulting in 2 PDCCH candidates m=0,1 and the corresponding CCE start indices for bandwidths of 10/15/20 MHz respectively, with the different Max\_CCE number for each subframe.

Table 7.1.1.2-2: CCE Start indices (m' & m") to be used for default C-RNTI (10 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	27	25	-	-	25	27	25	-	-	25
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	0	1	-	-	-	1
	4097	CCE_St_Ind'	8	-	-	-	16	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	8	-	-	0	-	16	-	-	0
tsc_C_RNTI_Def	'1034'H	m'	0	-	-	-	0	1	-	-	-	0
2	4148	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	16	-	8	-	-	16
tsc_C_RNTI_Def	'1111'H	m'	0	-	-	-	0	0	-	-	-	0
3	4369	CCE_St_Ind'	16	-	-	-	16	16	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	16	-	-	0	-	16	-	-	0

Table 7.1.1.2-3: CCE Start indices (m' & m") to be used for default C-RNTI (15 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	41	37	-	-	37	41	37	-	-	37
tsc_C_RNTI_Def	'1001'H	m'	0	-	-	-	1	0	-	-	-	0
	4097	CCE_St_Ind'	8	-	-	-	8	8	-	-	-	8
		m"	-	0	-	-	0	-	0	-	-	1
		CCE_St_Ind"	-	8	-	-	0	-	0	-	-	16
tsc_C_RNTI_Def	'1034'H	m'	0	-	-	-	0	1	-	-	-	1
2	4148	CCE_St_Ind'	8	-	-	-	24	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	16	-	-	0
tsc_C_RNTI_Def	'1111'H	m'	0	-	-	-	0	1	-	-	-	1
3	4369	CCE_St_Ind'	24	-	-	-	24	8	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	8	-	-	0	-	24	-	-	0

Table 7.1.1.2-4: CCE Start indices (m' & m") to be used for default C-RNTI (20 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
_		Max_CCE	55	50	-	-	50	55	50	-	-	50
tsc_C_RNTI_Def	'1001'H	m'	1	-	-	-	0	0		-	-	0
	4097	CCE_St_Ind'	8	-	-	-	16	24		-	-	24
		m"	-	0	-	-	1		0	-	-	1
		CCE_St_Ind"	-	8	-	-	24		16	-	-	32
tsc_C_RNTI_Def	'1034'H	m'	0	-	-	-	0	1	-	-	-	0
2	4148	CCE_St_Ind'	32	-	-	-	8	8	-	-	-	32
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	16	-	32	-	-	40
tsc_C_RNTI_Def	'1111'H	m'	0	-	-	-	0	0	-	-	-	0
3	4369	CCE_St_Ind'	16	-	-	-	40	40	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	40	-	-	0	-	40	-	-	24
tsc_C_RNTI_Def	'1FF1'H	m'	0	-	-	-	0	0	-	-	-	1
4	8177	CCE_St_Ind'	16	-	-	-	40	24	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	32	-	-	0	-	8	-	-	0
tsc_C_RNTI_Def	'04D2'H	m'	0	-	-	-	0	0	-	-	-	0
5	1234	CCE_St_Ind'	8	-	-	-	40	16	-	-	-	40
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	16	-	-	0	-	8	-	-	0
tsc_C_RNTI_Def	'0929'H	m'	0	-	-	-	0	0	-	-	-	0
6	2345	CCE_St_Ind'	32	-	-	-	24	24	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	24	-	-	32	-	24	-	-	24
tsc_C_RNTI_Def	'0D80'H	m'	1	-	-	-	0	0	-	-	-	1
7	3456	CCE_St_Ind'	8	-	-	-	8	40	-	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	32	-	-	16	-	40	-	-	0
tsc_C_RNTI_Def	'11D7'H	m'	0	-	-	-	0	1	-	-	-	0
8	4567	CCE_St_Ind'	16	-	-	-	40	8	-	-	-	32
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	32	-	-	0	-	8	-	-	40
tsc_C_RNTI_Def	'162E'H	m'	0	-	-	-	0	0	-	-	-	0
9	5678	CCE_St_Ind'	32	-	-	-	16	16	-	-	-	16
		m"	-	0	-	-	1	-	0	-	-	1
		CCE_St_Ind"	-	40	-	-	24	-	16	-	-	24
tsc_C_RNTI_Def	'1A85'H	m'	1	-	-	-	1	0	-	-	-	1
10	6789	CCE_St_Ind'	8	-	-	-	8	24	-	-	-	8
		m"	-	0	-	-	0	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	32	-	-	0

#### 7.1.1.2.1 TDD candidates selection in special subframes

In test cases (7.1.3.12/13) testing DL data transmission in special subframes following CCE tables will be used

Table 7.1.1.2.1-1: CCE Start indices (m' & m") to be used for various default C-RNTI (5 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	21	12	-	-	20	21	12	-	-	20
tsc_C_RNTI_Def	'1001'H	m'	1	1	-	-	1	0	1	-	-	0
	4097	CCE_St_Ind'	8	0	-	-	8	8	0	-	-	8
		m"	-	0	-	-	0	-	0	-	-	1
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0
tsc_C_RNTI_Def2	'1034'H 4148	m'	1	1	-	-	0	1	1	-	-	1
		CCE_St_Ind'	8	0	-	-	8	8	0	-	-	8
		m"	-	0	-	-	1	-	0	-	-	0
		CCE_St_Ind"	-	0	-	-	0	-	0	-	-	0

NOTE: Special subframes with Max CCE =12 and aggregation of 8 result in only 1 PDCCH. Hence either only UL grant or DL allocation is possible.

Table 7.1.1.2.1-2: CCE Start indices (m' & m") to be used for default C-RNTI (20 MHz)

C-RNTI	Value		SF0	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9
		Max_CCE	55	50	-	-	50	55	50	-	-	50
tsc_C_RNTI_Def	'1001'H	m'	1	0	-	-	0	0	0	-	-	0
	4097	CCE_St_Ind'	8	8	-	-	16	24	16	-	-	24
		m"	-	1	-	-	1	-	1	-	-	1
		CCE_St_Ind"	-	16	-	-	24	-	24	-	-	32
tsc_C_RNTI_Def	'1034'H	m'	0	1	-	-	0	1	0	-	-	0
2	4148	CCE_St_Ind'	32	8	-	-	8	8	32	-	-	32
		m"	-	0	-	-	1	-	1	-	-	1
		CCE_St_Ind"	-	0	-	-	16	-	40	-	-	40

#### 7.1.2 ePDCCH Candidate Selection

Total number of eREGs available in a subframe: Max\_eREG.

Total number of eCCEs available in a subframe: Max\_eCCE.

The value of numberPRB-Pairs=8 to be used in ePDCCH signalling test cases result in MAX\_eREG=128 as per 36.211 [35] clause 6.2.4A. As per 36.211 [35] clause 6.8A.1 results in MAX\_eCCE=32.

#### 7.1.2.1 FDD candidates selection

The UE specific search space aggregation L=2 same as in clause 7.1.1.1 is used. For DL transmission for C-RNTI/SPS-RNTI value of m=0 (m') in set config ID 0 shall be used. 'm' is defined in TS 36.213 [30], clause 9.1.4. For UL transmission for C-RNTI/SPS-RNTI the lowest value of m=1 (m") shall be used.

C-RNTI SF0 SF2 SF3 SF4 SF6 Value SF1 SF5 SF7 SF8 SF9 tsc\_C\_RNTI\_Def '1001'H 0 0 0 0 0 0 0 n Λ 0 m' 4097 CCE\_St\_Ind 20 2 10 28 0 26 16 8 22 2 1 m" 1 1 1 1 1 1 1 1 1 CCE St Ind" 4 18 26 12 16 10 0 24 6 18 tsc C RNTI Def2 '1034'H 0 0 0 0 0 0 0 0 0 m 0 4148 CCE\_St\_Ind' 8 24 4 26 14 0 4 26 8 1 1 1 1 1 m' 1 CCE\_St\_Ind" 24 8 20 10 30 16 20 6 10 24

Table 7.1.2.1-1: eCCE Start indices (m' & m") to be used for various C-RNTIs

eCCE start indices are independent of bandwidth. NOTE:

#### 7.1.2.2 TDD candidates selection

The search space aggregation L=8 same as in clause 7.1.1.2 is used. For DL transmission for C-RNTI/SPS-RNTI value of m=0 (m') in set config ID 0 shall be used. 'm' is defined in TS 36.213 [30], clause 9.1.4. For UL transmission for C-RNTI/SPS-RNTI the lowest value of m=1(m") shall be used.

C-RNTI SF0 SF1 SF2 SF3 SF4 SF5 SF8 Value SF<sub>6</sub> SF7 SF9 Max\_CCE 21 12 20 21 12 20 tsc\_C\_RNTI\_Def 1001'H m' 0 0 0 0 4097 CCE\_St\_Ind 16 0 8 8 0 1 0 1 m' CCE\_St\_Ind" 8 16 0 \_ 24 tsc\_C\_RNTI\_Def2 '1034'H 0 0 0 m' 0 4148 CCE\_St\_Ind 0 \_ -24 0 \_ 0 0 1 0 1 CCE\_St\_Ind"

0

8

0

16

Table 7.1.2.2-1: CCE Start indices (m' & m") to be used for various C-RNTIs

#### 7.2 **Uplink Grant**

The Network/SS informs the UE if it is allowed to make Uplink Data transmission by transmitting 'DCI format 0' on PDCCH. The UE shall transmit (4 TTI later for FDD or variable for TDD) a Transport block of exactly the same size as specified in DCI format 0. The UE has no control of its own on TB size, and has to merely follow the network, even if that means lots of MAC padding or resource starving.

The UE has the following means to communicate if it has UL data ready for transmission and subsequently the estimate of quantity of data to be transmitted.

RACH procedure: UE in idle mode, handed over to a new cell or connected mode but PUCCH is unsynchronized (sometimes referred to as PUCCH is not configured) will trigger RACH procedure on data ready for transmission in UL.

Scheduling Request: UE in connected mode, no grant configured, PUCCH is synchronized and has data ready for transmission in UL, will transmit a scheduling request on PUCCH.

Buffer Status Reports: UE in connected mode, PUCCH synchronized, has a configured grant for current TTI, but grant is not sufficient to transmit all the data will include MAC control element BSR in the UL MAC PDU.

RACH and SR indicate on data availability and BSR provides an estimate of data available for transmission.

CQI/PMI/RI feedback from the UE which indicates the channel conditions and recommended number of layers.

Hence to determine the exact need of the grant requirement of the UE a network/SS needs to act on all four of the above. This eventually complicates the SS implementation and hence the grant allocation procedure is simplified such that SS needs only to react on reception of SR and grant allocation configured from the TTCN.

The SS disables aperiodic CQI/PMI/RI feedback from the UE by setting the 'CQI request field' to 0 in DCI format 0/RAR grant.

When request for periodic CQI/PMI/RI feedback is requested due to TTCN configuration, the SS does not react on periodic CQI/PMI/RI feedback received and still allocates grants as configured from TTCN.

The SS, if configured for maintaining PUCCH synchronization at UE, shall periodically transmit automatically MAC PDUs containing the MAC control element 'Timing Advance'. The period as configured by the TTCN is set to 80 % of the 'Time Alignment Timer' default value (750 ms) configured at UE.

Additionally the SS can be configured to automatically transmit a 'configured' UL grant at every reception of a Scheduling Request. This grant should be selected under the following restrictions:

- All UE categories can handle this i.e. (for UEs Cat 1 and above TBS <= 5160, for Cat 0 TBS <= 1000).
- It is sufficiently large that most of uplink signalling messages can be transmitted. In case the grant is not sufficient to fit the whole UL data, the UE will have to wait for the expiry of RETX\_BSR\_TIMER and retransmit a SR. And hence the procedure is repeated.

The following 5 types of grant allocation configurations are possible. Grant allocation Types 1 to 3 are applicable, when the UE is in connected state. Grant allocation Type 4 is applicable when UE is establishing /re-establishing the RRC Connection, or during handover or in connected state but PUCCH is not synchronised. Grant allocation type 5 is applicable when the UE is in connected state and is used for lower category UEs when the UL grants greater than Max TBS supported by the UE is needed.

#### Grant Allocation Type 1:

- SS is configured to maintain PUCCH Synch.
- SS is configured to send an automatically 'configured Grant' (in terms of  $I_{\rm MCS}$  and  $N_{\rm PRB}$ ) to the UE on every reception of a Scheduling Request, within 10 subframes. The default configured grant is  $I_{\rm MCS} = 9$  and  $N_{\rm PRB} = 25$  for test cases without IMS signalling within the test body and  $I_{\rm MCS} = 20$  and  $N_{\rm PRB} = 25$  for test cases with IMS signalling within the test body, unless explicitly specified in test cases.
- By default this type of grant allocation is applied. The majority of Idle mode, RRC and NAS test cases, the preambles of all tests and the postambles of those tests for which UE is still PUCCH synchronised at the end of test body. A few Layer 2 tests also use this type of grant.

#### Grant Allocation Type 2:

- Configure SS to maintain PUCCH Synch.
- Configure SS to periodically transmit a grant ( $I_{MCS}$  and  $N_{PRB}$ ). Number of grants (1 or more) and period (in ms) configured by TTCN.
- The first grant transmitted is as specified in the explicit timing information. If timing information is "now" the SS selects the first suitable subframe for UL transmission.
- The grant allocation period for TDD shall be assigned without conflict with the allowed UL subframes in the TDD subframe configurations. As example of allocation period, the TDD UL Grant allocation can be assigned as in multiples of 5 ms.
- This type of grant allocation is applicable to the majority of RLC, PDCP and a few MAC test cases.
- No additional grant is allocated on reception of any SRs.

#### **Grant Allocation Type 3:**

- SS may or may not be configured to maintain PUCCH Synch.
- Configure SS to transmit a one time grant ( $I_{MCS}$  and  $N_{PRB}$ ) in the time requested by TTCN. The one time transmission is achieved by setting Number of grants=1 and period =Only once
- This type of grant allocation is suitable for MAC and DRB tests when UE is in UL Synchronised state

Grant Allocation Type 4 (RACH configuration):

- In addition to the 3 types of UL grant allocations, a fourth type of grant allocation during the RACH procedure is also possible, where the SS behaves as per the RACH procedure configured and allocates the configured grant during the RACH procedure. This UL Grant type is used in the configuration for the preamble in many situations, basically in MAC test cases. This type of grant is further used when UE is establishing/re-establishing the RRC connection or during handover, or when the UE is not PUCCH synchronised;

#### Grant Allocation Type 5:

- SS is configured to maintain PUCCH Synch.
- Configure SS to periodically transmit a grant (I<sub>MCS</sub> and N<sub>PRB</sub>) on reception of SR. Number of grants (1 or more) and period (in ms) configured by TTCN. The first grant is sent within 10 subframes of SR. Reception of SR starts/restarts periodic grant transmission. The default configured grant is I<sub>MCS</sub> = 12 and N<sub>PRB</sub> = 25 for UE Cat 1 and I<sub>MCS</sub> = 14 and N<sub>PRB</sub> = 4 for UE Cat 0, unless explicitly specified in test cases.
- This type of grant allocation is suitable when the UE category is lower than 2. The majority of Idle mode, RRC and NAS test cases, the preambles of all tests and the postambles of those tests which UE is still PUCCH synchronised at the end of the test body. A few Layer 2 tests also use this type of grant.

All the UL grant allocation methods define grant allocation in terms of  $I_{MCS}$  and  $N_{PRB}$  to be used. The SS shall allocate RBs corresponding to PRB indices  $0..(N_{PRB}-1)$ .

#### 7.2.1 Exception TC list

This clause contains the exception test case list where the explicit uplink grant types other than UL grant type 1 are specified.

Table 7.2.1-1: Exception test case list with explicit uplink grant types other than UL grant type 1

Group	Test Case	Uplink Grant Type 2	Uplink Grant Type 3
RLC	7.2.2.6	X	
	7.2.2.7	X	
	7.2.3.1		X
	7.2.3.2	X	
	7.2.3.4		X
	7.2.3.5		X
	7.2.3.6	X	
	7.2.3.7	X	
	7.2.3.9	X X X	
	7.2.3.10	X	X
	7.2.3.13		X
	7.2.3.15	X	
	7.2.3.17	X	
	7.2.3.18		X
	7.2.3.21		X
MAC	7.1.4.1	X	
	7.1.4.2		X
	7.1.4.3	X	
	7.1.4.4		X
	7.1.4.7		X
	7.1.4.8	X	X
	7.1.4.10		X
	7.1.4.11		X
	7.1.4.14		X
	7.1.4.15	X	
	7.1.4.16	X	
	7.1.5.1		
	7.1.5.2	X X X	
	7.1.5.3	X	
	7.1.5.4	Х	
	7.1.5.5	Х	
	7.1.6.1		X
PDCP	7.3.5.4		X
RRC	8.2.1.5	X	
NAS	9.2.1.1.24		X
DRB	12.1.1		X X
	12.1.2		X

#### 7.3 Downlink Resource Allocation

The DL resource allocation is an SS emulation function. In order to ensure similar DL behaviours (within defined tolerances) on the different SS platforms in the timing stringent requirements, all downlink resource allocation schemes specified in the present clause shall be supported by the SS.

When the DL data is to be sent with a specific scheduling requirement, for instance, in a TTI in advance rather than "now", the TTCN shall ensure that the data is scheduled at least 100 ms in advance. The 100 ms time in general covers all time delays, from the time DL data is sent by the TTCN at the EUTRA PTC to the completion of the transmission at the SS (TTCN delays, codec delays, adaptor delays and SS processing delays at various protocol Layers). In the case of more than one NAS PDU is piggy-backed in a scheduled RRC PDU, 20 ms shall be added per additional NAS PDU: 100 ms + ((NoOfNASPDUs - 1) \* 20 ms; this calculation is based on the assumption that there are not more than 7 piggy-backed NAS messages; this is valid for LTE.

NOTE: The DL data means DL signalling and/or data in the present clause.

### 7.3.1 PDCCH DCI default formats

Two types of DCI combinations are identified as default formats for the signalling and protocol test.

#### DCI combination 1 uses:

- DCI format 1A, resource allocation type 2 localised, for all DL scheduling types.

#### DCI combination 2 uses:

- DCI format 1C, resource allocation type 2 distributed, for scheduling of PCCH/BCCH/RAR; and
- DCI format 1 resource allocation type 0, for UE dedicated scheduling.

#### 7.3.1.1 Default DCI Format to be used in test cases configuring MIMO

Transmission mode 3 will be used in MIMO test cases configuring 2 Transmit antenna SS environment. As per 36.213 Table 7.1-5, in Transmission mode 3, UE is expected to decode only DCI formats 2A and 1A. Similarly for Transmission mode 4, UE is expected to decode only DCI formats 2 and 1A. Hence for all test cases configuring 2TX (2 antenna ports) at SS, DCI combination 1 is the default DCI combination to be applied. This allows DCI format 1A to be used as default DL scheduling scheme for test sequences not explicitly specified to use DCI formats 2A or 2(i.e. preamble, postamble etc.)

### 7.3.2 Radio parameters configured

The SS shall support DL QPSK, 16QAM and 64QAM modulation schemes. The configured radio parameters, including DCI format, resource allocation types, maximum allowed modulation scheme, first virtual / physical resource block to be used, maximum available resource blocks and redundancy version, are provided to the SS.

In the normal signalling test condition, DL RLC and HARQ retransmissions are rare. The redundancy version is provided to allow the occasional HARQ retransmissions. For those MAC, RLC tests contained in table 7.3.2-1 where timing requirements are involved the DL or UL HARQ retransmissions are not tolerable. Table 7.3.2-2 lists the RLC tests where timing requirements are involved, only one DL or UL HARQ retransmission per transport block is tolerable. Unless otherwise specified, if HARQ retransmissions occur in the test cases contained in table 7.3.2-1 or more than one HARQ retransmission occurs in the test cases of table 7.3.2-2, the test cases will be terminated with verdict inconclusive.

NOTE: If the test is expecting the reporting of UL ACK/NACK for the DL MAC PDUs, or is configuring the PHICH in a certain mode, HARQ retransmissions other than those that are already specified in the prose will have an impact on the test sequence. If test cases perform scheduling of data transmissions and/or receptions, or the testing timers in the test cases are less than 900 ms (i.e. the tolerance for 90 ms), HARQ retransmissions will make it difficult to continue testing.

Table 7.3.2-1: TC list intolerable of HARQ retransmissions

Test case	Comment								
	MAC								
7.1.3.1, 7.1.3.2, 7.1.3.4, 7.1.3.5, 7.1.3.6, 7.1.3.9, 7.1.6.1, 7.1.6.2	HARQ feedback reporting enabled or DL CRC errors introduced; DL HARQ un specified (re)transmissions will result in 'Fail' in test body, UL HARQ retransmissions are allowed;								
7.1.4.8	Strict relationship between grant and UL data								
7.1.4.3	Up to 104 PDUs to be sent in DL every TTI;								
7.1.4.2, 7.1.4.11, 7.1.4.12, 7.1.4.14, 7.1.5.4	HARQ feedback transmission specified or PHICH errors introduced								
7.1.4.15, 7.1.4.16	Periodic UL grants								
	RLC								
7.2.2.6, 7.2.2.7, 7.2.2.8, 7.2.2.10, 7.2.3.1, 7.2.3.2, 7.2.3.4 7.2.3.5, 7.2.3.10, 7.2.3.13, 7.2.3.14, 7.2.3.15, 7.2.3.18	Tolerating HARQ retransmissions is not feasible due to rigid timing and scheduling conditions. Testing timer < 900 ms								

Table 7.3.2-2: TC list intolerable of more than one HARQ retransmission per transport block

Test case	Comment
F	RLC
7.2.3.6, 7.2.3.7, 7.2.3.8, 7.2.3.9, 7.2.3.17	Tolerating more than one HARQ retransmission is not feasible due to rigid timing and scheduling conditions. Testing timer < 900 ms

# 7.3.2.1 HARQ Retransmission when MIMO is configured

For test cases configuring MIMO, if in a TTI more than one transport blocks are scheduled (DCI format 2/2A/2B), the HARQ retransmission is handled independently for each transport block by SS. In case UE ACKs one Transport block and NACKs the other and there is no fresh data scheduled for transmission, SS only schedules the NACKed transport block for retransmission, using same  $I_{mcs}$  as used in initial transmission, mapped to codeword 0. Acked Transport block (and hence codeword 1) is disabled by setting corresponding  $I_{MCS} = 0$  and  $rv_{idx} = 1$ . Resource allocation (Nprb) used in retransmission is same as in initial transmission.

It is assumed that retransmission and fresh data scheduled in one TTI will not happen.

### 7.3.3 General DL scheduling scheme

The rules in the present clause, unless particularly specified, are applied to both default DCI combinations.

The bandwidth of 5/10/15/20 MHz makes 25/50/75/100 available physical resource blocks respectively. The 25/50/75/100 resource blocks are divided into three distinct sets. Exact set sizes and the elements contained in the individual sets depend upon the DCI combination to be applied.

- The first set is reserved for BCCH mapped to DL-SCH (SI-RNTI).
- The second set is reserved for PCCH mapped to DL-SCH (P-RNTI).
- The third set is used for one of mutually exclusive transmissions of:
  - 'Random Access Response' mapped to DL-SCH (RA-RNTI); or
  - UE-dedicated scheduling mapped to DL-SCH (C-RNTI/ SPS C-RNTI/ Temp C-RNTI).

For each subframe for which data of one or more types is scheduled, the SS shall select a Transport Block Size (TBS), independently for each type of data scheduled, such that:

- All the scheduled data is transmitted respecting the timing information. More details on the timing information can be found in clause 7.8.
- Not more than MaxRbCnt resource blocks are used, for DCI format 1C, N<sub>PRB</sub> = MaxRbCnt.
- Minimum MAC Padding is performed.
- If all scheduled Data cannot be transmitted in the indicated subframe, for example due to TDD and half duplex configuration, it shall be transmitted in the next available subframe.

#### 7.3.3.1 Additional rules for BCCH scheduling scheme

This scheme is applicable for Data transmission on logical channel BCCH mapped to DL-SCH, PDCCH scrambled by SI-RNTI. For both DCI combinations 4 physical resource blocks are reserved for BCCH transmission. The maximum modulation scheme is restricted to QPSK.

Following additional rules are applied for TBS selection:

The Max TBS, the maximum TBS allowed for the scheduling scheme, is restricted to 600. (nearest value achievable for  $I_{TBS} = 9$  and  $N_{PRB} = 4$ , as per table 7.1.7.2.1-1 of TS 36.213 [30]).

- If the scheduled Data cannot fit into a TBS smaller or equal to Max TBS, SS generates an error (it's a TTCN error). TTCN should gracefully exit the test case as a fatal error, assigning inconclusive verdict.
- Rules in clause 7.3.3.1.1 for DCI combination 1 and in clause 7.3.3.1.2 for DCI combination 2 shall be applied.

#### 7.3.3.1.1 BCCH with DCI combination 1

TS 36.213 [30], table 7.1.7.2.1-1, rows with  $I_{TBS}$  =0..26 and columns with  $N_{PRB}$  =2 (corresponding to TPC LSB =0) and  $N_{PRB}$  =3 (corresponding to TPC LSB =1), TBS <=Max TBS are applicable.

Distinct TBSs and all (TPC LSB,  $I_{TBS}$ ) combinations for each distinct TBS are listed in the sheet.

If a TBS can have two (TPC LSB,  $I_{TBS}$ ) combinations, the combination with TPC LSB =0 is selected.

RIV indicates 4 PRBs with index 0..3 allocated.

#### 7.3.3.1.2 BCCH with DCI combination 2

TS 36.213 [30], table 7.1.7.2.3-1,  $I_{TBS} = 0..17$  with TBS  $\leq$ Max TBS are applicable.

RIV indicates 4 virtual RBs with index 0..3 allocated. These virtual RBs correspond to the physical RBs

- with index 0, 6, 12, 18 in even slots and 12, 18, 0, 6 in odd slots for 5 MHz bandwidth;
- with index 0, 12, 27, 39 in even slots and 27, 39, 0, 12 in odd slots for 10 MHz bandwidth;
- with index 0, 16, 48, 64 in even slots and 48, 64, 0, 16 in odd slots for 15 MHz bandwidth;
- with index 0, 24, 48, 72 in even slots and 48, 72, 0, 24 in odd slots for 20 MHz bandwidth.

#### 7.3.3.2 Additional rules for PCCH specific scheduling scheme

This scheme is applicable for Data transmission on logical channel PCCH mapped to DL-SCH, PDCCH scrambled by P-RNTI. For DCI combination 1, one physical resource block is reserved. For DCI combination 2, two physical resource blocks are reserved for 5 MHz bandwidth, and four physical resource blocks are reserved for 10 MHz, 15 MHz or 20 MHz bandwidth. The maximum modulation scheme is restricted to QPSK.

Following additional rules are applied for TBS selection:

- If the scheduled Data cannot fit into Max TBS, SS generates an error (it's a TTCN error). TTCN should gracefully exit the test case as a fatal error, assigning inconclusive verdict.
- Rules in clause 7.3.3.2.1 for DCI combination 1 and clause 7.3.3.2.2 for DCI combination 2 shall be applied.

#### 7.3.3.2.1 PCCH with DCI combination 1

TS 36.213 [30], table 7.1.7.2.1-1, rows with  $I_{TBS}$  =0..26 and columns with  $N_{PRB}$  =2 (corresponding to TPC LSB =0) and  $N_{PRB}$  =3 (corresponding to TPC LSB =1) TBS <=Max TBS are applicable.

The Max TBS is restricted to 120 (nearest value achievable for  $I_{TBS} = 9$  and  $N_{PRB} = 1$ , as per table 7.1.7.2.1-1 of TS 36.213 [30]).

Distinct TBSs and all (TPC LSB,  $I_{TBS}$ ) combinations for each distinct TBS are listed in the sheet.

If a TBS can have two (TPC LSB,  $I_{TBS}$ ) combinations, the combination with TPC LSB =0 is selected.

RIV indicates 1 PRBs with index 4 allocated.

#### 7.3.3.2.2 PCCH with DCI combination 2

TS 36.213 [30], table 7.1.7.2.3-1,  $I_{TBS}$  =0..11 for 5 MHz/  $I_{TBS}$  =0..17 for 10, 15 or 20 MHz with TBS  $\leq$  Max TBS are applicable.

The Max TBS is restricted to

```
296 bits (nearest value achievable for I_{TBS} = 9 and N_{PRB} = 2) for 5 MHz bandwidth,
```

600 bits (nearest value achievable for  $I_{TBS} = 9$  and  $N_{PRB} = 4$ ) for 10, 15 or 20 MHz bandwidth.

RIV indicates either two virtual RBs with index 4 and 5 allocated, or four virtual RBs with index 4 to 7 allocated. These virtual RBs correspond to physical RBs:

```
with index 1 and 7 in even slots and 13 and 19 in odd slots for 5 MHz bandwidth;
```

with index 1, 13, 28, 40 in even slots and 28, 40, 1, 13in odd slots for 10 MHz bandwidth;

with index 1, 17, 49, 65 in even slots and 49, 65, 1, 17 in odd slots for 15 MHz bandwidth;

with index 1, 25, 49, 73 in even slots and 49, 73, 1, 25 in odd slots for 20 MHz bandwidth.

#### 7.3.3.3 Additional rules for RAR specific scheduling scheme

This scheme is applicable for transmission of Random Access Response mapped to DL-SCH, PDCCH scrambled by RA-RNTI. For both DCI combinations four physical resource blocks are reserved. The maximum modulation scheme is restricted to QPSK.

Following additional rules are applied for TBS selection:

- The Max TBS is restricted to 600 bits (nearest value achievable for  $I_{TBS} = 9$  and  $N_{PRB} = 4$ , as per table 7.1.7.2.1-1 of TS 36.213 [30]).
- If the scheduled Data cannot fit into Max TBS, SS generates an error (it's a TTCN error). TTCN should gracefully exit the test case as a fatal error, assigning inconclusive verdict.
- Rules in clause 7.3.3.3.1 for DCI combination 1 and clause 7.3.3.3.2 for DCI combination 2 shall be applied.

#### 7.3.3.3.1 RAR with DCI combination 1

TS 36.213 [30], table 7.1.7.2.1-1, rows with  $I_{TBS} = 0..26$  and columns with  $N_{PRB} = 2$  (corresponding to TPC LSB = 0) and 3 (corresponding to TPC LSB = 1) TBS  $\leq$  Max TBS are applicable

Distinct TBSs and all (TPC LSB,  $I_{TBS}$ ) combinations for each distinct TBS are listed in the sheet.

If a TBS can have two (TPC LSB,  $I_{TBS}$ ) combinations, the combination with TPC LSB = 0 is selected.

RIV indicates 4 PRBs with index 5..8 allocated.

#### 7.3.3.3.2 RAR with DCI combination 2

TS 36.213 [30], table 7.1.7.2.3-1,  $I_{TBS} = 0..17$  with TBS <= Max TBS are applicable.

RIV indicates 4 virtual RBs are allocated. These corresponds to physical RB

with index 13, 19, 2, 8 in even slots and 1, 7, 14, 20 in odd slots for 5 MHz bandwidth;

with index 2, 14, 29, 41 in even slots and 29, 41, 2, 14 in odd slots for 10 MHz bandwidth;

with index 2, 18, 50, 66 in even slots and 50, 66, 2, 18 in odd slots for 15 MHz bandwidth;

with index 2, 26, 50, 74 in even slots and 50, 74, 2, 26 in odd slots for 20 MHz bandwidth.

#### 7.3.3.4 Additional rules for UE-dedicated scheduling scheme in normal mode

The UE-dedicated DL scheduling can work in the normal mode or in the explicit mode. The two resource allocation schemes shall be reconfigurable from each other when the UE and SS are not sending and receiving data, for instance, at end of the test preamble and before the beginning of the test body.

The present clause is specified for the use of the normal mode. The explicit mode is referred to clause 7.3.3.6.

The scheme specified in the present clause is applicable for transmission of data dedicated to a UE in a DL subframe, mapped to DL-SCH, PDCCH scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI when spatial multiplexing MIMO mode is not configured. The maximum modulation scheme is restricted to 64QAM. For the DCI combination 1, 20 physical resource blocks (5 to 24), and for the DCI combination 2, 17 physical resource blocks are reserved. In the case when three intra frequency cells are applied to the test in the DCI combination 1, for the purpose of interference reduction, only 9 PRBs (16 to 24) are reserved.

In TDD normal TBS selection mode, no data is transmitted in DwPTS of the special subframe. For FDD, data can be transmitted in any subframe, except for half-duplex Type B UEs for which scheduling restrictions are specified in clause 7.26.

The following additional rules are applied for TBS selection:

- Multiple ASPs can also carry same explicit timing information; indicating different ASP payloads, eventually needs to be transmitted in 1 TTI.
- For UE Category ≠ 0 the Max TBS is restricted to 10296 bits (Max supported by UE category type 1).
- For UE Category = 0, the Max TBS is restricted to 1000 bits. Hence in all TBS sheets only TB combinations with TBSize  $\leq$  1000 are used.

For 5 MHz bandwidth and the DCI combination 1 with 20 PRBs or DCI combination 2, the TBS 8248, 8760, and 9528 are blocked as they result in coding rates higher than 0.93.

For 5 MHz bandwidth and special DCI combination 1 with 9 PRBs, the TBS 2216, 5992 and 6712 are blocked as they result in coding rates higher than 0.93.

For 10 MHz, 15 MHz and 20 MHz bandwidths none of TBSs are blocked due to coding rates higher than 0.93.

TBS 280 is blocked for all bandwidths as it can be achieved by only Nprb =1 and Itbs=15, requiring 64 QAM modulation scheme. This TBS would normally be used for "RACH procedure MSG4+RRCconnectionSetup".

The blocked TBS are considered to be not available for selection.

- Data pending for transmission in a given sub-frame consists of (listed in transmission priority order):
  - MAC Control Elements that the SS needs to send.
  - AMD STATUS PDU(s) that the SS needs to send.
  - Data not sent in previous subframe(s).
  - Fresh Data scheduled for transmission in this subframe for all logical channels.
- Distinct TBSs and all  $(N_{PRB}, I_{TBS})$  combinations for each distinct TBS are listed in the sheet.
- If a TBS size can be achieved with more than one combination of  $I_{MCS}(I_{TBS})$  and  $N_{PRB}$ :
  - Select combination with lowest delta between  $N_{PRB}$  and  $I_{MCS}$ .
  - If still more than one combination remain, select combination with highest  $N_{PRB}$ .
- Not more than one RLC Data PDU shall be placed in a MAC PDU per logical channel (i.e. minimize RLC segmentation).
- In a subframe, in case there is data pending for transmission from more than one logical channel, for each type of data pending for transmission as defined above, priority shall be given to the logical channel with the lowest logical channel priority value. In case of more than one logical channel with the same logical channel priority value, these logical channels should be served equally. Data pending for transmission from more than one logical channel will rarely happen for the signalling and protocol test.
- Data not transmitted within a subframe is scheduled as pending for transmission in the next available subframe
  according to the priorities given above. Pending data for transmission will rarely happen for the signalling and
  protocol test.
- TBS selected in a context by various platforms shall be within an allowed deterministic tolerance of:

- 2 bytes for potential Timing Advance Command MAC Control Element (1 byte data + 1 byte MAC sub header).
- 4 bytes each for AMD STATUS PDU (2 bytes data + 2 bytes MAC subheader).
- Therefore in the worst case the SS may add up to (2 + 4 x N<sub>AMRB</sub>) bytes to the data scheduled for transmission in a certain subframe, where N<sub>AMRB</sub> is the number of AM radio bearers (SRB or DRB) actively sending DL data in the test, in any subframe.
- For DCI combination 1 RIV is calculated based on physical resource blocks corresponding to  $N_{PRB}$  of the selected TBS and  $(N_{PRB}, I_{TBS})$  combination. The physical resource blocks that can be allocated are the first  $N_{PRB}$  resources of index range
  - 5..24 for 5 MHz bandwidth,
  - 28..49 for 10 MHz bandwidth.
  - 9..30 for 15 & 20 MHz bandwidth.
- For DCI combination 2, RBG assignment is calculated based on physical resource blocks corresponding to  $N_{PRB}$  of the selected TBS and ( $N_{PRB}$ ,  $I_{TBS}$ ) combination. The size of RBG is 2 for 5 MHz, 3 for 10 MHz and 4 for 15 & 20 MHz. The available physical resource blocks for allocation are:
  - For 5 MHz bandwidth, RBG1(2,3), RBG2(4,5), RBG4(8,9), RBG5(10,11), RBG7(14,15), RBG8(16,17), RBG10(20,21), RBG11(22,23) and RBG12(24). If  $N_{PRB}$  is even, the first  $N_{PRB}$  /2 available RBGs are allocated. If  $N_{PRB}$  is odd, then first ( $N_{PRB}$ -1)/2 RBGs and RBG 12 are allocated.
  - For 10 MHz bandwidth, RBG1(3,4,5), RBG2(6,7,8), RBG3(9,10,11), RBG5(15,16,17), RBG6(18,19,20), RBG10(30,31,32), RBG11(33,34,35), RBG12(36,37,38) and RBG16(48,49). If N<sub>PRB</sub> mod 3 is 0, the first N<sub>PRB</sub> /3 RBGs are allocated. If N<sub>PRB</sub> mod 3 is 2, then first (N<sub>PRB</sub> -2)/3 available RBGs and RBG 16 are allocated.
  - For 15 MHz bandwidth, RBG1(4,5,6,7), RBG2(8,9,10,11), RBG3(12,13,14,15), RBG5(20,21,22,23), RBG6(24,25,26,27), RBG7(28,29,30,31), RBG11(44,45,46,47), RBG13(52,53,54,55), RBG14(56,57,58,59), RBG15(60,61,62,63), RBG17(68,69,70,71), RBG18(72.73.74). If  $N_{\rm PRB}$  mod 4 is 0, the first  $N_{\rm PRB}$  /4 RBGs are allocated. If  $N_{\rm PRB}$  mod 4 is 3, then first ( $N_{\rm PRB}$  -3)/4 available RBGs and RBG 18 are allocated.
  - For 20 MHz bandwidth, RBG1(4,5,6,7), RBG2(8,9,10,11), RBG3(12,13,14,15), RBG4(16,17,18,19), RBG5(20,21,22,23), RBG7(28,29,30,31), RBG8(32,33,34,35), RBG9(36,37,38,39), RBG10(40,41,42,43), RBG14(56,57,58,59), RBG15(60,61,62,63), RBG16(64,65,66,67), RBG17(68,69,70,71), RBG19(76.77.78.79) and RBG20(80,81,82,83). The first  $N_{\rm PRB}$  /4 RBGs are allocated.

#### 7.3.3.5 DL Resource allocation bitmaps

#### 7.3.3.5.1 DCI combination 1

Table 7.3.3.5.1-1: Physical resource allocation bitmap for DCI combination 1 (5 MHz) with 20 PRBs

$N_{PRB}$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BCCH																									
PCCH																									
RAR																									
UE-Dedicated																									

# Table 7.3.3.5.1-2: Physical resource allocation bitmap for DCI combination 1 (5 MHz) with 9 PRBs

$N_{PRB}$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BCCH																									
PCCH																									
RAR																									
UE-Dedicated																									

# Table 7.3.3.5.1-3 (columns 0–34): Physical resource allocation bitmap for DCI combination 1 (10 MHz)

$N_{PRB}$	0	1	2	3	4	5	6	7	8	922	2327	28	29	30	31	32	33	34
BCCH																		
PCCH										Not	Used for PBCH and other common							
RAR										Used	<b>e</b> langia							
UE-Specific																		

# Table 7.3.3.5.1-3 (columns 35–49): Physical resource allocation bitmap for DCI combination 1 (10 MHz)

$N_{PRB}$	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
BCCH															
PCCH															
RAR															
UE-Specific															

# Table 7.3.3.5.1-3A (columns 0–20): Physical resource allocation bitmap for DCI combination 1 (15 MHz)

$N_{PRB}$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BCCH																					
PCCH																					
RAR																					
UE-Specific																					

Table 7.3.3.5.1-3B (columns 21-74): Physical resource allocation bitmap for DCI combination 1 (15 MHz)

$N_{PRB}$	21	22	23	24	25	26	27	28	29	30	3133	3441	4274
BCCH												Used for PBCH and	
PCCH												**************************************	
RAR											Not Used	other common	Not Used
UE-Specific												signals	

Table 7.3.3.5.1-4 (columns 0–20): Physical resource allocation bitmap for DCI combination 1 (20 MHz)

$N_{PRB}$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BCCH																					
PCCH																					
RAR																					
UE-Specific																					

# Table 7.3.3.5.1-5 (columns 21-99): Physical resource allocation bitmap for DCI combination 1 (20 MHz)

$N_{PRB}$	21	22	23	24	25	26	27	28	29	30	3146	4752	5399
BCCH												Used for PBCH and	
PCCH											Not Used	other common	Not Used
RAR											Not Used		Not Osed
UE-Specific												elisangia .	

#### 7.3.3.5.2 DCI combination 2

Table 7.3.3.5.2-1: Physical resource allocation bitmap for DCI combination 2 (5 MHz)

$N_{PRB}$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BCCH-Even	0						1						2						3						
BCCH-Odd	2						3						0						1						
PCCH-Even		4						5																	
PCCH-Odd														4						5					
RAR-Even			8						9					6						7					
RAR-Odd		6						7							8						9				
UE-Dedicated																									

Table 7.3.3.5.2-2 (columns 0-20): Physical resource allocation bitmap for DCI combination 2 (10 MHz)

$N_{PRB}$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BCCH-Even	0												1								
BCCH-Odd	2												3								
PCCH-Even		4												5							
PCCH-Odd		6												7							
RAR-Even			8												9						
RAR-Odd			10												11						
UE-Specific	Х	Х											Х	Х							
RBGs		0			1			2			3			4			5			6	

Table 7.3.3.5.2-2 (columns 21-41): Physical resource allocation bitmap for DCI combination 2 (10 MHz)

$N_{PRB}$	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
BCCH-Even							2												3		
BCCH-Odd							0												1		
PCCH-Even								6												7	
PCCH-Odd								4												5	
RAR-Even									10												11
RAR-Odd									8												9
UE-Specific		X	×	X	×	X	×	Х											Х	Х	
RBGs		7			8			9			10			11			12			13	

Table 7.3.3.5.2-2 (columns 42-49): Physical resource allocation bitmap for DCI combination 2 (10 MHz)

$N_{PRB}$	42	43	44	45	46	47	48	49
BCCH-Even								
BCCH-Odd								
PCCH-Even						lot I	Jsed	ı
PCCH-Odd					1	NOI C	JS60	
RAR-Even								
RAR-Odd								
UE-Specific								
RBG's		14			15		1	6

Table 7.3.3.5.2-2a (columns 0-19): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BCCH-																				
Even	0																1			
BCCH-Odd	2																3			
PCCH-																				
Even		4																5		
PCCH-Odd		6																7		
RAR-Even			8																9	
RAR-Odd			10																11	
UE-Specific	Х	Х															Х	Х		
RBG's				0		•		1				2				3				4

Table 7.3.3.5.2-2a (columns 20-39): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
BCCH-																				
Even																				
BCCH-Odd																				
PCCH-																				
Even																				
PCCH-Odd																				
RAR-Even																				
RAR-Odd																				
UE-Specific																				
RBG's				5				6				7				8				9

Table 7.3.3.5.2-2a (columns 40-59): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
BCCH-																				
Even									2											
BCCH-Odd									0											
PCCH-																				
Even										6										
PCCH-Odd										4										
RAR-Even											10									
RAR-Odd											8									
UE-Specific									Х	Х										

RBG's	10	11	12	13	14
INDO 3	10	1.1	14	13	17

Table 7.3.3.5.2-2a (columns 60-74): Physical resource allocation bitmap for DCI combination 2 (15 MHz)

nprb	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
BCCH-															
Even					3										
BCCH-Odd					1										
PCCH-															
Even						7									
PCCH-Odd						5									
RAR-Even							11								
RAR-Odd							9								
UE-Specific					Х	Х									
RBG's				15				16				17			18

Table 7.3.3.5.2-3 (columns 0-19): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

$N_{PRB}$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BCCH-Even	0																			
BCCH-Odd	2																			
PCCH-Even		4																		
PCCH-Odd		6																		
RAR-Even			8																	
RAR-Odd			10																	
UE-Specific	Х	Х																		
RBGs		C	)			1				2				3	<b>.</b>			4		Ť

Table 7.3.3.5.2-3 (columns 20-39): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

$N_{PRB}$	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
BCCH-Even					1															
BCCH-Odd					3															
PCCH-Even						5														
PCCH-Odd						7														
RAR-Even							9													
RAR-Odd							11													
UE-Specific					X	X														
RBGs		5	5			6				7	•			8	}			9	)	

Table 7.3.3.5.2-3 (columns 40-59): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

$N_{PRB}$	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
BCCH-Even									2											
BCCH-Odd									0											
PCCH-Even										6										
PCCH-Odd										4										
RAR-Even											10									
RAR-Odd											8									
UE-Specific									×	×	X									
RBG's		1	0			1	1			1:	2			1:	3			1.	4	

Table 7.3.3.5.2-3 (columns 60-79): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

$N_{PRB}$	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
BCCH-Even													3							
BCCH-Odd													1							
PCCH-Even														7						
PCCH-Odd														5						
RAR-Even															11					
RAR-Odd															9					
UE-Specific													Х	Х						
RBGs		1:	5			1	6			1	7			18	8			1	9	

Table 7.3.3.5.2-3 (columns 80-99): Physical resource allocation bitmap for DCI combination 2 (20 MHz)

$N_{PRB}$	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
BCCH-Even																				
BCCH-Odd																				
PCCH-Even																	1	Not l	Jsed	l
PCCH-Odd																				
RAR-Even																				
RAR-Odd																				
UE-Specific																				
RBGs		2	0			2	1			2	2			2	3			2	4	

NOTE: Odd and even refer to slots.

#### 7.3.3.6 UE-dedicated scheduling scheme in explicit mode

This scheme applies to:

- 1. spatial multiplexing MIMO configurations or
- 2. *transmit diversity MIMO configurations* and non-MIMO configuration where the normal mode scheduling scheme is inappropriate.

SS is configured with an exact TBS (modulation and coding scheme,  $I_{mcs}$ , and number of resource blocks,  $N_{prb}$ ) to use. Other parameters, such as the HARQ process number and redundancy version to use for each transmission, are also configured by the TTCN. SS shall use TBS sheets with matching DCI format and Resource allocation Type. If the parameter 'FirstRbIndex' is configured different than specified in respective TBS sheet, the resource block bit maps in TBS sheet s are shifted by 'FirstRbIndex' and applied, with an exception for Resource allocation type 0 where only the full size 'Resource block groups' are shifted by 'FirstRbIndex'; if the last Resource block group is not full size, and is part of resource block bitmap, it is applied without any shift.

All data scheduled for a certain subframe shall be transmitted in the single indicated subframe, using configured parameters. The TTCN shall ensure that the configured parameters are consistent, in particular that the scheduled data size and the configured TBS match each other. Data scheduled by the prose, and hence also by the TTCN, provides possible space for the Timing Advance MAC control element and the RLC Status PDU. The SS shall include one of these if so triggered, else the bits reserved for these are filled by MAC padding.

Additionally, in the case of MIMO data scheduled for transmission in a given sub-frame, this consists of (listed in transmission priority order):

- MAC Control Elements that the SS needs to send (if triggered).
- AMD STATUS PDU(s) that the SS needs to send (if triggered).
- Fresh data scheduled for transmission in this subframe for one or more logical channels, as per logical channel priority [lower value = higher priority]; if data is available for more than one logical channel with the same priority, then the logical channel corresponding to the DRB-ID with the lower value has the higher priority.
- MAC padding.

The following additional rules need to be applied on data scheduled for transmission to be mapped on two transport blocks corresponding to two code words:

- Higher priority data (as stated above) maps on to Transport Block 1 and lower priority data maps on Transport Block 2 (if Transport Block 1 gets full); and
- Minimum MAC padding is performed in Transport Block 1; and
- If data from one logical channel needs to be mapped on to two transport blocks, the PDCP PDUs with lower PDCP sequence numbers get mapped on to Transport Block 1.

By default no data is scheduled in TDD special subframes (i.e. subframes 1 and 6 for default TDD subframe configuration). For testing DL data reception in TDD special subframe, explicit mode TBS selection shall be used. The TTCN shall ensure that the configured parameters are consistent, in particular that the scheduled data size and the configured TBS match each other. As per TS36.213 [30] clause 7.1.7, for special subframe configuration 9 with normal cyclic prefix or special subframe configuration 7 with extended cyclic prefix, the actual Nprb used for TB size calculation will be a max( floor{ Nprb in DCI command \*0.375},1). Tables 7.3.3.6-1/2 give the mapping for Nprb in DCI command and Nprb used for TB size determination.

Table 7.3.3.6-1: Nprb DCI to Nprb TBS mapping for 20 Mhz

Nprb in DCI command (configured by TTCN)	4	8	12	16	20	24	28	32	36	40	44	48	54	60
Nprb used for TBS determination	1	3	4	6	7	9	10	12	13	15	16	18	20	22

Table 7.3.3.6-2: Nprb DCI to Nprb TBS mapping for 5 Mhz

Nprb in DCI command (configured by TTCN)	4	6	8	12	14	16
Nprb used for TBS determination	1	2	3	4	5	6

#### 7.3.3.6.1 DL Scheduling in Transport Block Size Selection Test Cases

The MAC transport block size selection test cases defined in clause 7.1.7 of TS 36.523-1 [1], use bandwidths of 5/10/15/20MHz. For the preamble and post amble in these tests, the default scheduling rules defined in clauses 7.3.3.1 to 7.3.3.4 for 5/10/15/20 MHz and DCI combination 1A are applied respectively. During the test body, when the actual TB sizes with appropriate DCI and resource allocation formats needed are to be tested, the SS is configured in explicit mode for UE-dedicated scheduling.

#### 7.3.3.7 Resource allocation sheets

Attached with this Technical Specification, the DL resource allocation tables can be found, providing physical resource allocations for various transport block sizes, developed as per rules specified in clause 7.3.3, in Microsoft Excel format. Each individual sheet in the workbook represents various scheduling schemes as per table 7.3.3.7-1.

Table 7.3.3.7-1: DL resource allocation sheets

S. No	Sheet Name	Description
1	DCI-1A-PCCH	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by P-RNTI (5 MHz, 10 MHz, 15 MHz and 20 MHz)
2	DCI-1A-BCCH	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by SI-RNTI (5 MHz, 10 MHz, 15 MHz and 20 MHz)
3	DCI-1A-RAR	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by RA-RNTI (5 MHz, 10 MHz, 15 MHz and 20 MHz)
4	DCI-1A-UE-Specific	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (5 MHz)
5	DCI-1A-3-IntraFreq-	DL Resource scheduling for DCI format 1A and PDCCH is
	UE-Specific	scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI and three Intra
		Freq cells are configured (5 MHz)

S. No	Sheet Name	Description
6	DCI-1A-UE-Specific-10MHz	DL Resource scheduling for DCI format 1A and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (10 MHz)
6A	DCI-1A-UE-Specific-15MHz	DL Resource scheduling for DCI format 1A and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (15 MHz)
7	DCI-1A-UE-Specific-20MHz	DL Resource scheduling for DCI format 1A and PDCCH is
		scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI (20 MHz)
		Also in preamble/postamble phase of MAC TBS test cases with 15
8	DCI-1C-PCCH	MHz bandwidth configured DL Resource scheduling for DCI format 1C and PDCCH is
	2011010011	scrambled by P-RNTI (5 MHz)
9	DCI-1C-BCCH	DL Resource scheduling for DCI format 1C and PDCCH is
40	DOL 40 DAD	scrambled by SI-RNTI (5 MHz)
10	DCI-1C-RAR	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by RA-RNTI (5 MHz)
11	DCI-1-UE-Specific	DL Resource scheduling for DCI format 1, Resource allocation 0
	·	and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI
40	DOLLAR DOCULARMIL O. A.	(5 MHz)
12	DCI-1C-PCCH-10MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is scrambled by P-RNTI (10 MHz)
13	DCI-1C-BCCH-10MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is
	·	scrambled by SI-RNTI (10 MHz)
14	DCI-1C-RAR-10MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is
15	DCI-1-UE-Specific-	scrambled by RA-RNTI (10 MHz)  DL Resource scheduling for DCI format 1, Resource allocation 0
	10MHz-Gap1	and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI
	·	(10 MHz)
15A	DCI-1C-PCCH-15MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is
15B	DCI-1C-BCCH-15MHz-Gap1	scrambled by P-RNTI (15 MHz)  DL Resource scheduling for DCI format 1C and PDCCH is
.02	Der re Beerr reiming cap :	scrambled by SI-RNTI (15 MHz)
15C	DCI-1C-RAR-15MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is
15D	DCI-1-UE-Specific-	scrambled by RA-RNTI (15 MHz)  DL Resource scheduling for DCI format 1, Resource allocation 0
130	15MHz-Gap1	and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI
	·	(15 MHz)
16	DCI-1C-PCCH-20MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is
17	DCI-1C-BCCH-20MHz-Gap1	scrambled by P-RNTI (20 MHz)  DL Resource scheduling for DCI format 1C and PDCCH is
''	DOI-10-DOO11-20W112-Gap1	scrambled by SI-RNTI (20 MHz)
18	DCI-1C-RAR-20MHz-Gap1	DL Resource scheduling for DCI format 1C and PDCCH is
40	DOLA LIE On a siting COMMUN	scrambled by RA-RNTI (20 MHz)
19	DCI-1-UE-Specific-20MHz- Gap1	DL Resource scheduling for DCI format 1, Resource allocation 0 and PDCCH is scrambled by C-RNTI/ SPS C-RNTI/ Temp C-RNTI
	Sup !	(20 MHz)
20	DCI-1-RA0-ExplicitConfig	DL Resource scheduling for DCI format 1, Resource allocation 0
24	DCI 1 DA1 ExplicitConfic	and PDCCH is scrambled by C-RNTI
21	DCI-1-RA1-ExplicitConfig	DL Resource scheduling for DCI format 1, Resource allocation 1 and PDCCH is scrambled by C-RNTI
22	DCI1A-ExplicitConfig	DL Resource scheduling for DCI format 1A, Resource allocation
	DOLOA DAO 5. 11 110. 15	2(localised & distributed) and PDCCH is scrambled by C-RNTI
23	DCI-2A-RA0-ExplicitConfig	DL Resource scheduling for DCI format 2A, Resource allocation 0 and PDCCH is scrambled by C-RNTI
24	DCI-2A-RA1-ExplicitConfig	DL Resource scheduling for DCI format 2A, Resource allocation 1
		and PDCCH is scrambled by C-RNTI

## 7.4 Cell Configurations

## 7.4.1 Cell Configuration Types

Three cell configurations are defined in TS 36.508 [3] clause 6.3.3: Full Cell, Minimum Uplink Cell and Broadcast Only Cell; however the TTCN always considers all cells as Full Cells, and thus always provides the complete cell configuration parameters.

The SS may:

- always configure a cell as a 'Full Cell' based on the complete information; or
- configure the cell based on the 'CellConfig\_Type' flag taking only the required configuration parameters and ignoring the others.

For a given value of the 'CellConfig\_Type' flag, the TTCN shall:

- For Full Cell Configuration:
  - expect normal SS behaviour.
- For Minimum Uplink Cell Configuration:
  - Configure the SS to report Preamble detection.
  - Assign verdicts based on the PRACH Preamble Indications.
  - Consume any uplink SRB0 messages (if the SS is configured as a Full Cell).
- For Broadcast Only Cell Configuration:
  - Not configure the SS to report Preamble detection.
  - Consume any uplink SRB0 messages (if the SS is configured as a Full Cell).

### 7.4.2 Cell Power Change

To set and adjust the cell power at the two test ports, Reference Power and Attenuation, are provided in the record Reference Power.

The field Reference Power is only set when the cell is created and is not updated during the test case execution. The SS applies the Reference Power when the cell is fully configured.

To adjust the power level in the test case, the field Attenuation is used. After initial configuration of a cell the attenuation corresponds to the value "off". When the power is changed for more than one cell, the power changes must happen at the same time for all the cells according to the time instances for power level changes specified in TS 36.523-1 [1]. The time it takes to complete the power change for all the cells shall be done:

- within a maximum of 700 ms when changing the power of a cell from "off" to a certain value; or
- within a maximum of 100 ms (10 frames) otherwise.

The SS shall ensure the power level at the test ports conform to the required downlink signal levels specified in clause 6.2.2.1 of TS 36.508 [3].

### 7.4.3 E-UTRAN cell identity

### 7.4.3.1 Timing parameters of cells

For RRC and Idle mode test, the timing parameters in table 7.4.3.1-1 are applied. The specification of Cell 1 - Cell 30 can be found in TS 36.508 [3].

Table 7.4.3.1-1: Timing parameters of simulated cells

cell ID	SFN offset	FDD Tcell	TDD Tcell (Ts)							
		( <i>T</i> s)	Synchronous	Non synchronous						
Cell 1	0	0	0	0						
Cell 2	124	30720	154	30720						
Cell 3	257	150897	77	150897						
Cell 4	1000	61440	307	61440						
Cell 6	657	524	77	524						
Cell 10	129	43658	77	43658						
Cell 11	957	92160	154	92160						
Cell 12	1015	181617	154	181617						
Cell 13	890	31244	154	31244						
Cell 14	680	300501	77	300501						
Cell 23	383	212337	154	212337						
Cell 28	890	31244	154	31244						
Cell 29	680	300501	77	300501						
Cell 30	1015	181617	154	181617						
NOTE:	NOTE: For TDD, synchronous Tcell values are applied unless specified otherwise in the test cases.									

Table 7.4.3.1-2 is applied to the NAS test when more than one PLMN exists in a test case. Further cell parameters can be found in TS 36.508 [3], table 6.3.2.2-3.

Table 7.4.3.1-2: Timing parameters of simulated cells for NAS TCs in different PLMNs

cell ID	SFN	FDD Tcell	TDD	Tcell (Ts)	
	offset	( <i>Ts</i> )	Synchronous	Non synchronous	
Cell A	0	0	0	0	
Cell B	124	30720	154	30720	
Cell C	257	61440	307	61440	
Cell D	1000	92160	154	92160	
Cell E	752	32047	77	32047	
Cell F	NA	NA	NA	NA	
Cell G	957	631	77	631	
Cell H	1015	31351	154	31351	
Cell I	890	127200	77	127200	
Cell J	680	1327	77	1327	
Cell K	383	157920	154	157920	
Cell L	562	188640	307	188640	
Cell M	471	307	122880		
NOTE: For T	DD, synchro	nous Tcell val	ues are applied unles	s specified otherwise in	
the te	est cases.				

Figure 7.4.3.1-3 illustrates shifting DL transmission timing offset by Tcell = 1 subframe, between multiple NAS FDD cells on the same frequency (table 7.4.3.1-4) in the same PLMN.

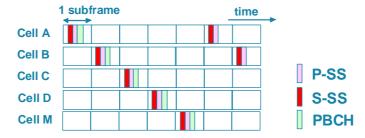


Figure 7.4.3.1-3: Timing offset between FDD cells on the same frequency

Table 7.4.3.1-4 is applied to the NAS test when all NAS cells in a test case belong to the same PLMN. Further cell parameters can be found in TS 36.508 [3], table 6.3.2.2-2.

Table 7.4.3.1-4: Timing parameters of simulated cells for NAS TCs in same PLMN

cell ID	SFN offset	FDD Tcell (Ts)	TDD Tcell (Ts)		
		, ,	Synchronous	Non synchronous	
Cell A	0	0	0	0	
Cell B	124	30720	154	30720	
Cell C	257	150897	77	150897	
Cell D	1000	61440	307	61440	
Cell E	NA	NA	NA	NA	
Cell F	NA	NA	NA	NA	
Cell G	NA	NA	NA	NA	
Cell H	NA	NA	NA	NA	
Cell I	NA	NA	NA	NA	
Cell J	NA	NA	NA	NA	
Cell K	NA	NA	NA	NA	
Cell L	NA	NA	NA	NA	
Cell M	471	31244	154	31244	
NOTE: For	 nchronous Tcell	values are applied	unless specified oth	nerwise in the test	

Shifting radio frame transmission timing can eliminate the following interference between intra frequency cells:

- P-SS/S-SS to P-SS/S-SS, RS, PBCH, PCFICH, PDCCH and PHICH.
- PBCH to PBCH.
- PBCH to PCFICH, PDCCH and PHICH.
- PDSCH to PCFICH, PDCCH, PHICH.

As TDD UL and DL are on same frequency, to avoid interference between DL and UL, the Random Access Response Timing Advance (RAR TA) is related to the Tcell:

For TDD cells:

```
RAR TA = [FLOOR ((Tcell) mod 30720 / 16) ] mod 1282
```

For FDD, the Random Access Response Timing Advance is set to 0.

In MBMS test cases, cells belonging to the same MBSFN Area have a synchronized radio frame timing: the SFN offset and Tcell values are set to the values of the cell having the lower cellId value.

In Carrier Aggregation signalling test cases, the SFN offset and Tcell of configured cells has to be same.

Editors note: More clarification in terms of tables representing configured cells may be needed. Cell 1, Cell 2, Cell3, Cell12 & Cell 6 are configured in CA test cases.

### 7.4.4 Cell configurations for NAS test cases

The default cell identifiers for NAS cells are defined in 36.508 [3] clause 6.3.2.2.

The allocation of Physical layer cell identifiers to the individual cells is according to (*PCI mode 6*) being differential for the cells working on the same radio frequency. The way of PCI allocation can reduce the interference between the intrafrequency cells for reference signal to reference signal, PCFICH to PCFICH and PHICH to PHICH. The definition of Cell A - Cell M can be found in TS 36.508 [3].

### 7.4.5 Configuration of Multi-Cell Environment

When there is more than one EUTRA cell in a test case the following rules are applied in TTCN:

- At the beginning of the preamble, before initial attachment of the UE, all EUTRA cells are configured but switched off.
- In the preamble only the serving cell is switched on; all other cells remain switched off.
- At the end of the preamble the cells are configured according to the initial power level settings (T0) of the test case.

The mapping of cells to physical resources and management of the physical resources are out of TTCN scope. The following principles can be applied to the system simulator:

- Cells being switched off need not to be mapped to physical resources.
- When a cell is switched off mapping to a physical resource may be kept and reused when the cell is switched on again.
- When a cell is switched on it can either already been mapped to a physical resource or it needs to be mapped to a free resource.
- When there are less physical resources than cells it is up to SS implementation to find strategies to dynamically map the cells to the resources.

Independent from the strategies being used the system simulator shall obey timing restrictions for changing power-levels of one or several cells as stated in clause 7.4.2.

### 7.5 TDD Considerations

LTE options of FDD and TDD will be contained in the same common FDD and TDD test cases, similar to the prose in TS 36.523-1 [1].

The TDD Uplink-downlink configuration 1 in 3GPP TS 36.211 [35], table 4.2-2 is applied.

### 7.5.1 FDD vs. TDD implementation

FDD/TDD differences are introduced in the common FDD and TDD test cases using branches at a low level in the test case. The branches are used either:

- to assign a variable;
- to implement a different behaviour;
- to change an FDD or TDD parameter in a template sent to the UE or SS.

The mode under test (FDD or TDD) is based on the value of the bands under test.

### 7.5.2 Guideline for FDD vs. TDD verification

With respect to EUTRA FDD vs. TDD technologies, it is recommended that separate verifications for FDD and TDD are required for the TCs in TS 36.523-1 [1]:

- clause 6, 7, 8, 12, 13;
- with MultiRAT involved.

### 7.6 Special RLC Modes

### 7.6.1 Suppression of RLC Acknowledgements

Two different modes, both applicable per radio bearer, are defined as:

- General suppression:

- If this mode is activated, no RLC acknowledgements will be generated by the SS. This mode can be switched
  on and will persist until it is switched off. Afterwards the SS will continue handling the RLC
  acknowledgements as normal.
- One time suppression:
  - If this mode is activated, no RLC acknowledgement will be generated by SS for the next RLC message data PDU received. Once this has been done, the SS continues handling RLC acknowledgements as normal.

In case of a handover the modes continue to be active.

### 7.6.2 Modification of VT(S)

This mode allows to manipulate the RLC state variable VT(S) so that the SS can generate an RLC sequence number as needed during a test. The input to the special test mode is an integer (0..1023) as value of ModifyVTS, The SS shall set variable VT(S) as follows:

$$VT(S) := ModifyVTS.$$

The purpose of this special test mode is to force an incorrect RLC sequence number to be used by the SS. Once VT(S) has been modified in the RLC entity at the SS side, this RLC entity will be inconsistent. One possibility to bring the RLC entity back to normal is to re-establish the RLC peer connection. This is done in the only use case of this special RLC test mode by performing an RRC Connection reconfiguration immediately after the test mode has been applied.

Users of this test mode should ensure that the RLC AM PDU carrying the incorrect sequence number will reach the peer RLC entity. It is therefore recommended to activate the RRC Connection reconfiguration only after some delay. This delay shall be short enough to ensure that the UE will not yet request the retransmission of the RLC PDU corresponding to the skipped sequence numbers.

### 7.7 System information

### 7.7.1 System information broadcasting

The rules for the transmission of BCCH messages are specified in TS 36.331 [19], clause 5.2. The current clause provides the implementation guidelines.

The ASPs SYSTEM\_CTRL\_REQ and SYSTEM\_CTRL\_CNF are used as interface to SS; the following rules apply:

- The complete system information is provided to SS by using a single ASP.
- SS starts scheduling all system information from the same SFN.
- The scheduling information sent to SS is the same as the scheduling information sent to the UE. For each SI message, the subframeOffset in SYSTEM\_CTRL\_REQ indicates the exact point in time in the SI window at which SS shall start the transmission of the related SI.
- SS shall set the systemFrameNumber in the MIB to the 8 most significant bits of the SFN. A dummy value is provided by TTCN.
- The system information is sent to SS using the asn.1 types, SS shall encode in unaligned PER and add the necessary padding bits as specified in TS 36.331 [19], clause 9.1.1.1.

### 7.7.2 Scheduling information

The maximum number of resource blocks as defined in table 7.7.2-1 are used to broadcast the system information.

Table 7.7.2-1: Maximum number of resource blocks

	Maximum number of resource blocks assigned
SIB1	4
for all SIs	4

The subframe offset values used for SI messages are according to table 7.7.2-2.

Table 7.7.2-2: SubframeOffset values

Scheduling Information No. Acc to TS 36.508 [3], clause 4.4.3.1.2	subframeOffset (FDD)	subframeOffset (TDD)
SI1	1	0
SI2	1	0
SI3	3	15
SI4	7	15
SI5	7	15

All System Information messages are sent only once within the SI-window.

Table 7.7.2-3 (FDD) and 7.7.2-4(TDD) give the SFN's and subframe numbers in which the MIB, SI1, SI2, SI3, SI4 & SI5 are actually scheduled as per default parameters for si-WindowLength(20sf), periodicity for SI1(16), SI2(32), SI3(64), SI4(64) and SI5(64) for bandwidths 5/10/15/20 MHz defined in TS 36.508 [3]:

Table 7.7.2-3: System Information Scheduling (FDD)

SFN\SUBFrame	0	1	2	3	4	5	6	7	8	9
0	MIB	SI1				SIB1				
1	MIB									
2 3	MIB	SI2				SIB1				
3	MIB									
4	MIB			SI3		SIB1				
5	MIB									
6 7	MIB					SIB1		SI4		
7	MIB									
8	MIB					SIB1		SI5		
9	MIB									
10	MIB					SIB1				
11	MIB									
12	MIB					SIB1				
13	MIB									
14	MIB					SIB1				
15	MIB									
16	MIB	SI1				SIB1				
17	MIB									
18	MIB					SIB1				
19	MIB									
20	MIB					SIB1				
21	MIB									
22	MIB					SIB1				
23	MIB									
24	MIB					SIB1				
25	MIB									
26	MIB					SIB1				
27	MIB									
28	MIB					SIB1				
29	MIB									
30	MIB					SIB1				
31	MIB									

SFN\SUBFrame	0	1	2	3	4	5	6	7	8	9
32	MIB	SI1				SIB1				
33	MIB									
34	MIB	SI2				SIB1				
35	MIB									
36	MIB					SIB1				
37	MIB									
38	MIB					SIB1				
39	MIB									
40	MIB					SIB1				
41	MIB									
42	MIB					SIB1				
43	MIB									
44	MIB					SIB1				
45	MIB									
46	MIB					SIB1				
47	MIB									
48	MIB	SI1				SIB1				
49	MIB									
50	MIB					SIB1				
51	MIB									
52	MIB					SIB1				
53	MIB									
54	MIB					SIB1				
55	MIB									
56	MIB					SIB1				
57	MIB									
58	MIB					SIB1				
59	MIB									
60	MIB					SIB1				
61	MIB									
62	MIB					SIB1				
63	MIB									
64	MIB	SI1				SIB1				
65	MIB									
66	MIB	SI2				SIB1				
67	MIB							ļ		
68	MIB			SI3		SIB1		ļ		
69	MIB									
70	MIB					SIB1		SI4		
71	MIB									
72	MIB					SIB1		SI5		

Table 7.7.2-4: System Information Scheduling (TDD)

SFN\SUBFrame	0	1	2	3	4	5	6	7	8	9
0	MIB, SI1					SIB1				
1	MIB									
2	MIB, SI2					SIB1				
3	MIB									
4	MIB					SIB1				
5	MIB					SI3				
6	MIB					SIB1				
7	MIB					SI4				
8	MIB					SIB1				
9	MIB					SI5				
10	MIB					SIB1				
11	MIB									
12	MIB					SIB1				
13	MIB									
14	MIB					SIB1				
15	MIB									
16	MIB, SI1					SIB1				
17	MIB									

SFN\SUBFrame         0         1         2         3         4         5         6         7         8           18         MIB         SIB1         SI	9
19       MIB       SIB1         20       MIB       SIB1         21       MIB       SIB1         22       MIB       SIB1         23       MIB       SIB1         24       MIB       SIB1         25       MIB       SIB1         26       MIB       SIB1         27       MIB       SIB1         28       MIB       SIB1         29       MIB       SIB1         30       MIB       SIB1         31       MIB       SIB1         32       MIB, SI1       SIB1         33       MIB       SIB1         34       MIB, SI2       SIB1	
20       MIB       SIB1         21       MIB       SIB1         22       MIB       SIB1         23       MIB       SIB1         24       MIB       SIB1         25       MIB       SIB1         26       MIB       SIB1         27       MIB       SIB1         28       MIB       SIB1         29       MIB       SIB1         30       MIB       SIB1         31       MIB       SIB1         32       MIB, SI1       SIB1         33       MIB       SIB1         34       MIB, SI2       SIB1	
21     MIB       22     MIB       23     MIB       24     MIB       25     MIB       26     MIB       27     MIB       28     MIB       29     MIB       30     MIB       31     MIB       32     MIB, SI1       33     MIB       34     MIB, SI2	
22       MIB       SIB1         23       MIB       SIB1         24       MIB       SIB1         25       MIB       SIB1         26       MIB       SIB1         27       MIB       SIB1         28       MIB       SIB1         29       MIB       SIB1         30       MIB       SIB1         31       MIB       SIB1         32       MIB, SI1       SIB1         33       MIB       SIB1         34       MIB, SI2       SIB1	
23     MIB       24     MIB       25     MIB       26     MIB       27     MIB       28     MIB       29     MIB       30     MIB       31     MIB       32     MIB, SI1       33     MIB       34     MIB, SI2	
24       MIB       SIB1         25       MIB       SIB1         26       MIB       SIB1         27       MIB       SIB1         28       MIB       SIB1         29       MIB       SIB1         30       MIB       SIB1         31       MIB       SIB1         32       MIB, SI1       SIB1         33       MIB       SIB1         34       MIB, SI2       SIB1	
25     MIB       26     MIB       27     MIB       28     MIB       29     MIB       30     MIB       31     MIB       32     MIB, SI1       33     MIB       34     MIB, SI2         SIB1       SIB1       SIB1       SIB1       SIB1       SIB1       SIB1       SIB1       SIB1	
26     MIB     SIB1       27     MIB     SIB1       28     MIB     SIB1       29     MIB     SIB1       30     MIB     SIB1       31     MIB     SIB1       32     MIB, SI1     SIB1       33     MIB     SIB1       34     MIB, SI2     SIB1	
27     MIB       28     MIB       29     MIB       30     MIB       31     MIB       32     MIB, SI1       33     MIB       34     MIB, SI2         SIB1       SIB1       SIB1	
28     MIB     SIB1       29     MIB       30     MIB       31     MIB       32     MIB, SI1       33     MIB       34     MIB, SI2         SIB1       SIB1       SIB1	
29     MIB       30     MIB       31     MIB       32     MIB, SI1       33     MIB       34     MIB, SI2         SIB1       SIB1	
30 MIB SIB1 SIB1 SIB1 SIB1 SIB1 SIB1 SIB1 SI	
31 MIB SI2 SIB1 SIB1 SIB1 SIB1 SIB1 SIB1 SIB1 SIB1	
32 MIB, SI1 SIB1 SIB1 33 MIB SIB1 SIB1 SIB1	
33 MIB SI2 SIB1	
34 MIB, SI2 SIB1	
34   MIB, SI2       SIB1	
1 05 1 100	
35 MIB	
36 MIB SIB1	
37 MIB	
38 MIB SIB1	
39 MIB	
40 MIB SIB1	
41 MIB	
42 MIB SIB1	
43 MIB	
44 MIB SIB1	
45 MIB	
46 MIB SIB1	
47 MIB	
48 MIB, SI1 SIB1	
49 MIB	
50 MIB SIB1	
51 MIB	
52 MIB SIB1	
53 MIB	
54 MIB SIB1	
55 MIB SID:	
56 MIB SIB1	
57 MIB SIB1	
58 MIB SIB1	
59 MIB SIB1	
60 MIB SIB1	
61 MIB SIBI	
61 MIB SIB1	
63 MIB	
64 MIB, SI1 SIB1	
65 MIB	
66 MIB, SI2 SIB1	
67 MIB	
68 MIB SIB1	
69 MIB SI3	
70 MIB SIB1	
71 MIB SI4	
72 MIB SIB1	
73 MIB SI5	

NOTE: Subframes 4 and 9 are avoided so as to facilitate availability of PDCCHs in the UE specific search space for transmission of PDCCH for both UL C-RNTI/SPS-RNTI and DL C-RNTI/SPS-RNTI/Temp C-RNTI.

### 7.7.3 System information modification

For system information modification, the same rules as defined in clause 7.7.1 are applied.

The SFN for the start of modification period is calculated by TTCN. The modified system information and the calculated SFN are provided in the ASP SYSTEM\_CTRL\_REQ.

#### 7.7.3.1 Non-PWS System Information modification

The modification of system information is notified by paging messages containing the systemInfoModification. The paging messages are sent during one modification period before broadcasting the modified system information. The paging messages are sent on paging occasions (PO) within the paging frames (PF). With the default paging and sysinfo parameters provided in 36.508 [3] PO is set to 9 for FDD and 0 for TDD.

#### 7.7.3.1.1 UE in Idle\_mode

When the UE is in idle mode, the paging frames calculation is based on the UE identity (see to TS 36.304 [14], clause 7). With:

defaultPagingCycle = 128

nB=oneT

modificationPeriodCoeff=n4

it results in 4 paging messages to be sent on the paging occasions during the modification period in the frames of:

SFN mod  $128 = (UE_ID) \mod 128$ .

#### 7.7.3.1.2 UE in connected mode

When the UE is in connected mode, paging messages are sent on the paging occasions of each frame within the paging cycle throughout a modification period. This results in 128\*4 consecutive paging messages to be sent during the modification period.

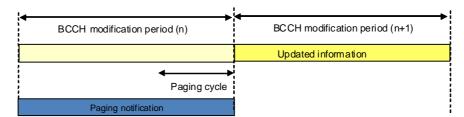


Figure 7.7.3.1.2-1: Paging notification UE in connected mode

For ETWS and/or CMAS capable UEs in connected mode, paging messages are sent on the paging occasions of each frame within the last paging cycle of the modification period. This results in 128 consecutive paging messages to be sent during the modification period.

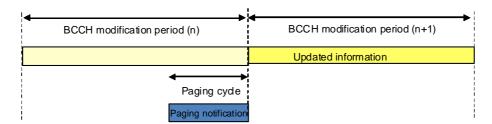


Figure 7.7.3.1.2-2: Paging notification for ETWS and/or CMAS capable UE in connected mode

#### 7.7.3.2 PWS System Information modification

The modification of system information for ETWS and CMAS notification is notified by paging messages. The transmission of system information notification is not necessarily at the beginning of a modification period.

When the UE is in idle mode, the paging frames calculation is the same as defined in clause 7.7.3.1.1.

When the UE is in connected mode, paging messages are sent on the paging occasions of each frame during a paging cycle. This results in 128 consecutive paging messages to be sent. The transmission of the first paging message and the first system information notification are simultaneous and are sent at the beginning of a paging cycle.

### 7.8 Timers and Timing Restrictions

A timer is set at the beginning of each test case to guard against system failure. Behaviour on expiry of this guard timer shall be consistent for all test cases.

A watchdog timer can be specified for receive statements in order to reduce blocking time when a test case has already failed. Watchdog timers are a kind of TTCN auxiliary timer. When a watchdog timer is used to control a receive event, its expiry does not need to be handled explicitly in the test case, but will lead to a fail or inconclusive verdict due to handling in the default behaviour.

In idle mode operations, an idle mode generic timer is specified for receive statements if the test case specification does not explicitly specify a wait time for the specific test step or test purpose. The expiry of this idle mode generic timer is at least 6 minutes to safely cover most test scenarios.

The watchdog timer and the idle mode generic timer are only to be used inside the test case test body; if the timer expires a fail verdict is applied.

It is the TTCN responsibility to ensure that appropriate timer values are being used.

Tolerances (as described in TS 36.508 [3]) are not applicable to guard timers, idle mode generic timers and watchdog timers.

In general timers of less than 500 ms shall not be implemented by TTCN timers but controlled by usage of the timing information provided by the SS (This is based on an estimate of the system delay). To achieve this, there will be cases when a DL message is scheduled at a specific point in time. This shall be done by adding at least 100 ms to the current time.

If Timing is 'now' the SS shall schedule the data transmission or the (re)configuration in the next available sub-frame, but will ensure that this period is less than 80 ms.

### 7.8.1 Auxiliary timers

For practical reasons, the TTCN can include timers that are not specified as part of the expected sequence. These timers are documented below.

RLC and PDCP watchdog timer.

### 7.8.2 RRC timers reconfiguration

Considering the allowed UE accuracy for the RRC timer T3xx being between 100 ms and 2.5 % of T3xx (see TS 36.133 [37]), the TTCN applies the RRC net timers tolerance as MAX (10% of T3xx, (100 ms + 5 RTT)), whereby:

FDD: 10 % of T3xx or 140 ms whichever is higher.

TDD: 10 % of T3xx or 155 ms whichever is higher.

### 7.8.3 MAC TA timer reconfiguration

Considering that the UE applies new values for MAC timers not before restart of the timer (see TS 36.321 [16], clause 5.8), when the TA timer is changed at the UE, a delay in TTCN will be added so as to allow SS to transmit

Timing advance MCE (based on current periodic Timing advance configuration) and hence resulting in restart of TA timer at UE with new value.

### 7.8.4 Non-protocol timers

Time durations or periods in the test specification without corresponding references in the core specifications are considered as non-protocol timers for which no timer tolerances are applied in the TTCN.

#### 7.9 Error Indication

There are several situations on lower layer in which SS shall raise an error rather than trying to resolve the problem. This is done by sending a SystemIndicationError to the test case. SS shall raise an error in the following cases:

- HARQ retransmissions (applicable when SS is configured to indicate HARQ retransmissions as errors):
  - HARQ CRC error for UL data;
  - HARQ NACK from the UE unless SS is configured to report HARQ ACK/NACK.
- Paging, System information exceeds max. number of resource blocks.
- Configuration: max. number of resource blocks specified for a channel exceeds system bandwidth.
- When in User-Plane a DL PDCP PDU or SDU not fitting into one TTI is sent with Harq Process being explicitly specified.
- SS gets invalid TimingInfo for TDD from the test case.
- SS detects contradiction of UL grant(s) and TDD configuration.
- Data scheduled for the same TTI does not fit into an available transport block.

Further error conditions are specified in annex D.

#### 7.10 Race Conditions

When two uplink messages are sent from the UE within a very small amount of time, they may be received in either order in the TTCN if they are received on different ports. This may cause a race condition which is due to the snapshot mechanism in TTCN. In these cases, the TTCN will accept the messages in either order and then compare the timestamps of both messages to ensure they were sent in the correct order.

For UL messages received at a single port, there are normally no race conditions, with the exception of the SRB port where the following rules shall be fulfilled, in order to achieve an ordered UL message queue:

- UL messages are queued according to the timing information.
- UL messages with the same timing information are queued according to the logical channel priority with the "higher-first-in" principle.

#### 7.11 Radio Link Failure

A radio link failure shall be triggered by switching the downlink power level of the source cell to the value for non-suitable "Off" for the time period of least T310 + time it takes to receive N310 consecutive out-of-sync indications from lower layers (non-suitable "Off" is defined in TS 36.508 [3], whereas T310 and N310 are defined in TS 36.331 [19]).

If the RRC re-establishment procedure is used in a radio link failure context, it shall be realised by using two cells.

### 7.12 Test method for RRC signalling latency

Test cases testing RRC signalling latency will need special test method. The PUCCH synchronisation state of UE influences the test method. Following 2 different ways in which the UE's completeness of procedure can be probed are considered:

- 1. UE is still PUCCH synchronized and can respond to uplink grants.
- 2. UE needs a RACH procedure and hence RACH procedural delays add upon the actual procedure delay.

### 7.12.1 Procedure delays in PUCCH synchronized state

For latency tests there may be up to 4 HARQ retransmissions in DL (corresponding to the default configuration of the SS) but HARQ retransmissions in UL cannot be compensated, i.e. any HARQ error in UL shall result in an inconclusive verdict for the test case (otherwise a UE may get fail due to a HARQ error).

Figure 7.12.1-1 demonstrates the latency check procedure that will be applied when UE is in PUCCH synchronized state and can respond to uplink grants.

SS is configured to report ACK/NACK received from UE, to TTCN.

NOTE: Due to L2 signalling (e.g. RLC STATUS PDUs) it is necessary to limit the reporting of UL HARQ ACK/NACK to the time between sending of the RRC message and receiving the ACK.

By default SS is configured to retransmit any DL MAC PDU max 4 times.

To avoid unexpected side effects the Time Alignment timer needs to be set to infinity and the SS shall be configured to not send any Timing Advance MAC control elements during the latency tests (since this may result in additional ACK/NACK)

The SS shall be configured to report HARQ errors and in the case of an UL HARQ error, an inconclusive verdict is assigned.

In the case of HARQ retransmissions in DL the HARQ RTT Timer according to TS 36.321 clause 7.7 [16] is

- 8 for FDD
- 10 for TDD configuration 1 in case the DL PDU is sent in subframe 4 (as per default; see Table 7.12.1-1).

The SS shall schedule DL retransmission at 4th TTI for FDD and TDD since reception of the NACK.

Let N be the max allowed delay for procedure.

TTCN schedules at time T1 a DL message to the UE.

TTCN schedules UL grants at

```
\begin{split} &T_2(k) = T_1 + N + 1 + \Delta_1 + k * RTT; \\ &with \\ &k = 0..4; \ number \ of \ HARQ \ retransmission \ in \ DL \\ &RTT = 8 \ (FDD) \\ &RTT = 10 \ (TDD) \\ &\Delta_1 = 0 \ (FDD) \\ &\Delta_1 = 0..3 \ (TDD; \ possible \ UL \ subframe \ uncertainty \ since \ not \ all \ subframes \ can \ be \ used \ for \ UL) \end{split} Example: &\text{given TDD; DL PDU \ sent \ at \ subframe \ 4; \ N=10} \\ &\Rightarrow \Delta_1 = 1 \ \text{since \ UL \ grant \ cannot \ be \ scheduled \ for \ subframe \ 5 \ but \ needs \ subframe \ 6 \ (36.213 \ [30] \ cl.8.0) \end{split}
```

The UL data is sent by the UE at

 $T_3(K) = T_2(K) + 4 + \Delta_2$  with  $\Delta_2 = 0$  for FDD and  $\Delta_2 = 0..3$  for TDD and K is the value of k corresponding to which a HARQ Ack is received

The latency requirements are fulfilled when

$$T_3(K) - T_1 = N + 5 + \Delta_1 + \Delta_2 + K * RTT$$

Looking at TDD configuration 1 in detail it can be shown that  $\Delta = \Delta_1 + \Delta_2 = 0$ .. 3

$$\Rightarrow$$
 T<sub>3</sub>(K) - T<sub>1</sub> = N + 5 +  $\Delta$  + k \* RTT; with  $\Delta$  = 0 .. 3

#### NOTE:

as long as N is a multiple of 5ms, given T1 is at 4th TTI for TDD configuration 1 we get  $\Delta = 3$  ( $\Delta_1 = 1$  and  $\Delta_2 = 2$ , 36.213 [30] cl.8.0)

### Delay Requirement Y-X<= N+?

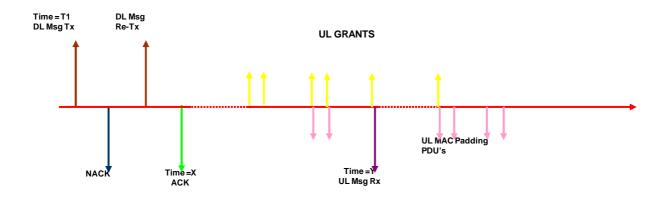


Figure 7.12.1-1: Delays in PUCCH synchronized state

Subframe 0 3 4 5 6 8 9 **Configuration 1** D D S U U D S U U D Delay from DL to Ack/Nack [TTIs] 6,7 4 6,7 4 Delay from NCK to re tx [TTIs] 6 6 4 4 RTT 11 10 10 11 10 10

Table 7.12.1-1: TDD configuration 1

### 7.12.2 Procedure delays when RACH procedure required

Figure 7.12.2-1 demonstrates the latency check procedure that will be applied when UE is not PUCCH synchronized state needs RACH procedure.

PRACH configuration index is set as 14 for FDD, 12 for TDD which allows UE to send Preamble in any frame at any subframe.

SS is configured to report ACK/NACK, PRACH preambles received from UE.

By default SS is configured to retransmit any DL MAC PDU max 4 times [1 Transmission and 4 Retransmission].

Let N be the max allowed delay for procedure.

TTCN schedules at time T1, DL message to the UE. This is achieved using Time stamps in send ASP's.

The time difference between the ACK and the reception of PRACH preamble will be checked against N plus any Interruption time (TS 36.133 [37]) and verdict is assigned, when  $(Y-X) \le N + T$  interrupt  $+ \Delta$ :

 $\Delta = 0$  for FDD;

 $\Delta = 3TTI$  for TDD, where 3TTI is UL subframe uncertainty.

If cell change occurs, cell timing differences, Frame number offsets need to be included for procedural delay evaluations.

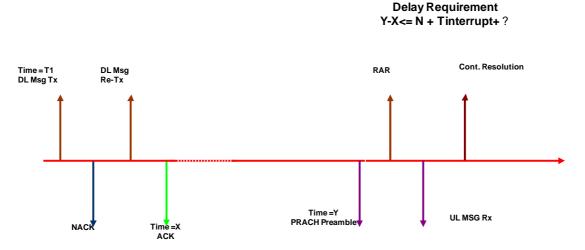


Figure 7.12.2-1: Delays when RACH procedure needed

### 7.13 RLC test method for scheduled data

The test loop mode is applied to the RLC tests. The allowed SS delay for sending data (< 80 ms) is comparable to the default values of the RLC timers. In order to ensure a unique TTCN implementation of the RLC test cases and the deterministic test result, independent from the SS platforms and UEs, scheduled data method can be applied to the test.

The scheduled data method is suitable to the RLC test if:

Receiving multiple UL RLC SDUs is expected in the test; the UE may send a STATUS PDU in addition.

Time measurement is required for the looped back RLC SDUs.

DL RLC PDUs are sent on consecutive TTIs; the subframe numbers to be applied are relevant in TDD.

Table 7.13-1 illustrates the data scheduling in the RLC test.

Table 7.13-1: Scheduled RLC test events

Sched	uled timing	t0 (see note 1)	t1 (see note 1)	t2					
Test event	Multiple SDUs	Obtain the	Send DL data	Provide UL grant (see note 2)					
descriptions	Time measurement	reference time	Send DL data	Receive UL data					
DL data in TDD			Send 1 <sup>st</sup> DL data	Send subsequent data					
				(see note 3)					
NOTE 1: (t1-t0)	≥ 100 ms which is great	ater than the allow	ed SS max. delay time,	80 ms.					
NOTE 2: (t2-t1)	= 60 ms, this duration v	vill allow the UE tra	ansmitting max. 3 sche	duling requests (every 20 ms					
once)	once) after the UL data to be looped back being available at the UE without going onto PRACH.								
NOTE 3: The ap	pplied TDD subframe nu	umbers 4, 5, 9, 10,	, 14, 15, 19, 20, 24, 25,						

If the test case prose does not indicate timely restrictions for the scheduling, sequential sending events are scheduled in consecutive TTIs.

NOTE 1: For TDD configuration 1, the subframes 0, 4, 5 and 9 are considered as consecutive.

NOTE 2: Scheduling may imply to execute the test steps in the TTCN in an order different from the order given in the test case prose. However, the sequence of the events over the air follows the prose description.

### 7.14 IP packets for Loopback Mode

### 7.14.1 IP packets used for Loopback Mode A

It is irrelevant which kind of data is used in loopback mode A. Some PDCP test cases however specify to use IP packets. In these cases, an ICMPv4 ECHO REPLY shall be used with a valid IP header checksum and valid ICMP checksum.

### 7.14.2 IP packets used for Loopback Mode B

According to TS 36.509 [4], the UE performs loopback mode B above the UL TFT entity. Therefore IP packets need to match the packet filters signalled to the UE according to TS 36.508 [3], clause 6.6.2:

When the UE gets configured via NAS signalling with packet filter #1 and #2 according to TS 36.508 clause 6.6.2 the IP packets shall fulfil the following requirements:

#### Protocol:

UDP referred to packet filter #1 and #2

#### IP addresses:

Referred to TS 36.508 [3], table 6.6.2-3, note 1 source and destination IP address are the same.

#### Ports:

packet filter #1 specifies DL filter ⇒ IP packet's source port shall match remote port of packet filter #1.

packet filter #2 specifies UL filter  $\Rightarrow$  IP packet's destination port shall match remote port of packet filter #2.

To summarize, on dedicated bearers for loopback mode B, UDP packets used shall match the packet filters configured at the UE side. The UDP packets, having no specific content, shall have the correct header checksum and UDP checksum. On the default bearer, any other packets can be used, as an example, ICMPv4 ECHO REPLY similar as for loopback mode A.

#### 7.15 Connected Mode DRX

The SS shall support connected mode DRX according to TS 36.321 [16], i.e. the SS shall not send any data to the UE while the UE is not monitoring the PDCCH. To achieve this, the SS needs to estimate the UE's Active Time by considering the on-duration as well as the drx-inactivity timer:

#### on-duration:

The on-duration can be derived from the SS' DRX configuration.

#### drx-inactivity timer:

According to TS 36.321 [16], clause 5.7 at the UE the drx-inactivity timer is started or restarted during the Active Time whenever PDCCH indicates a new transmission (DL or UL).

There is no activation time for the configuration of DRX at the UE and it is not acceptable just to consider the on-duration after re-configuration of the UE (for DRX\_L according to TS 36.508 [3] the DRX cycle is 1.28 s); instead the drx-inactivity timer needs to be taken in account after DRX reconfiguration as well.

The following rules shall be applied to achieve synchronisation of SS and UE:

SS shall consider drx-inactivity timer as restarted at the UE whenever the UE is addressed on the PDCCH (DL data or UL grant).

- 2. When there is a scheduling request sent by the UE, SS assigns a grant independent of DRX; when sending out that grant on PDCCH SS considers drx-inactivity timer as (re-)started (as per 1. above).
- 3. For all DL messages scheduled with specific timing information SS shall send the data at the given time irrespective of current DRX configuration.
- 4. DRX (re-)configuration:
  - a) when DRX has not been configured at the UE yet:
    - a1) TTCN will configure the SS just before the sending out the RRCConnectionReconfiguration message configuring DRX at the UE; no other send-events between the reconfiguration of the SS and sending the RRC message shall be scheduled in TTCN.
    - a2) TTCN will schedule sending of the RRCConnectionReconfiguration message configuring DRX with specific timing information.
  - b) Reconfiguration of DRX at the UE: Same as a) but:
    - b1)TTCN shall schedule sending of the RRCConnectionReconfiguration according to the old DRX configuration (i.e. the SS does not need to cache the new configuration).
  - c) RRC connection release:
    - c1) TTCN will release DRX at the SS just after the RRC connection release procedure.
- 5. There shall be no parallel data on any DRBs during DRX reconfiguration.

NOTE: Timing requirements in the DRX test cases:

a) The drx-Inactivity Timer shall be long compared to the duration between sending RRCConnectionReconfiguration and receiving RRCConnectionReconfigurationComplete (> 50 ms). It ensures the SS in-time sending of the RLC STATUS PDU.

or

b) The drx-cycle shall be short compared to the RLC timers applied for SRB1.

Figure 7.15-1 illustrates DRX (re)configuration at the SS and the UE.

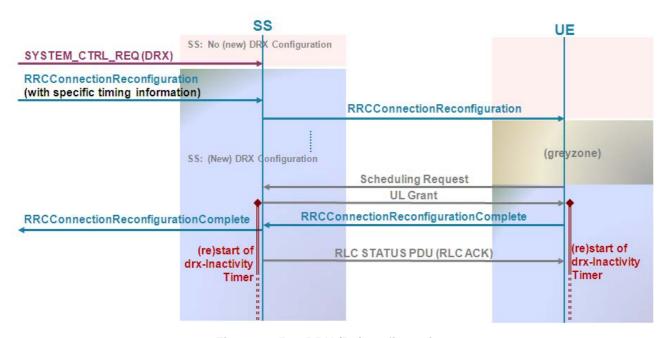


Figure 7.15-1: DRX (Re)configuration

- NOTE 1: Between RRCConnectionReconfiguration and RRCConnectionReconfigurationComplete the UE may send a separate RLC STATUS PDU to acknowledge the RRCConnectionReconfiguration, but that does not affect the principle as long as SS applies rule 2.
- NOTE 2: During the "greyzone" SS does not know about DRX configuration at the UE; during that period according to rule 4a1 and rule 5 there is no data to be sent by SS.

The TTCN (re)configures the connected mode DRX in SS for the test cases if DRX\_S is applied (Ref. TS 36.508 [3]. The (re)configuration of DRX\_L in SS is FFS.

For test case 7.1.6.1 and 7.1.6.2, DRX will not be activated at the SS. Periodic UL grants every 5ms (suitable for both FDD and TDD and less than drx-InactivityTimer 6ms) will be allocated to the UE during the steps configuring test case specific DRX parameters of the test case to prevent UE from activating DRX; These grants may result in padding MAC PDU's transmitted by UE, which will be received by SS MAC and discarded.

### 7.16 Handover Sequences

### 7.16.1 Sequence of inter-cell handover

In general, the Inter-Cell handover is done without activation time, i.e. the timing information for configuration of the SS and sending of the RRCConnectionReconfiguration is 'Now'.

The sequence may be interrupted if other events need to be handled. E.g. when a TAU procedure is performed in the target cell and there are procedures left to be executed on the source cell.

- 1. Transfer of the PDCP Count for AM DRBs from source to target cell:
  - a) Source Cell: Get PDCP COUNT.
  - b) Target Cell: Set PDCP COUNT.

NOTE 1: There shall be no further sending/receiving of AM DRB data before the HO has been done.

- 2. Target Cell: Inform the SS about the HO and about the source cell id.
- 3. Target Cell: Configure RACH procedure either dedicated or C-RNTI based.
- 4. Target Cell: Activate security.

NOTE 2: For AM DRBs the PDCP count is maintained (for SRBs and UM DRBs the PDCP count is reset).

- 5. Target Cell: configure DRX (if necessary).
- NOTE 3: As long as the DRX configuration is not modified by the RRCConnectionReconfiguration the target cell gets the same DRX configuration as the source cell.
- NOTE 3A: According to TS 36.331 clause 5.5.6.1 the measurement gap configuration is released at the UE due to the handover, therefore nothing needs to be configured at the target cell regarding measurement gaps.
- 6. Source Cell: Stop periodic TA.

NOTE 4: Unless explicitly specified UL grant configuration keeps configured as per default at the source cell.

- 7. Target Cell: Configure UL grant configuration ("OnSR", periodic TA is not started).
- 8. Source Cell: Send RRCConnectionReconfiguration.
- 9. Target Cell: Receive RRCConnectionReconfigurationComplete.
- 10. Target Cell: Start periodic TA.
- 11. Target Cell: Inform the SS about completion of the HO (e.g. to trigger PDCP STATUS PDU).
- 12. Target Cell: Re-configure RACH procedure as for initial access.

12a. Target Cell: Configure measurement gap configuration (if necessary).

13. Source Cell: Reset SRBs and release DRBs.

14. Source Cell: Release DRX and MeasGapConfig configuration.

# 7.16.1a Sequence of inter-cell CA handover (more than one CC before and after handover)

The Inter-Cell handover is done with activation time, i.e. the timing information for configuration of the SS and sending of the RRCConnectionReconfiguration is explicit. Time 'T' is set to 700 ms in advance of the handover, time T1 = T + 10 ms and time T2 = T + 20 ms.

At Time T, steps 1-3:

- 1. Source Pcell: Configure source primary cell for stop of automatic Time alignment MCE transmission by SS
- 2. Target Pcell: Configure target pcell for no RACH response transmission
- 3. Source Pcell: Schedule the transmission of RRC Connection Reconfiguration message to UE requesting Handover to target Pcell and Scell

At time T2, steps 4-5:

- 4. Target Pcell: If target Pcell is same as source Scell, configure SS for target Pcell to be converted from a Scell to Pcell
- 4a. Configuration of DRBs at the target PCell
- 5. Transfer of the PDCP Count for AM DRBs from source to target Pcell:
  - a) Source PCell: Get PDCP COUNT.
  - b) Target PCell: Set PDCP COUNT.

NOTE 1: There shall be no further sending/receiving of AM DRB data before the HO has been done.

At time T1, steps 6-12:

- 6. Target PCell: Inform the SS about the HO and about the source Pcell id.
- 7. Target PCell: Configure RACH procedure either dedicated or C-RNTI based.
- 8. Target PCell: Activate security.

NOTE 2: For AM DRBs the PDCP count is maintained (for SRBs and UM DRBs the PDCP count is reset).

- 9. Target PCell & Target Scell: configure DRX.
- NOTE 3: As long as the DRX configuration is not modified by the RRCConnectionReconfiguration the target cell gets the same DRX configuration as the source cell.
- NOTE 4: According to TS 36.331 clause 5.5.6.1 the measurement gap configuration is released at the UE due to the handover, therefore nothing needs to be configured at the target cell regarding measurement gaps.
- 10. Target PCell: Configure UL grant configuration ("OnSR", periodic TA is not started).
- 11. Target PCell: Configure Target Pcell as Pcell.
- 12. Target SCell: Configure Target Scell for
  - 12.1 Configure RACH procedure C-RNTI based.
  - 12.2 Configure UL grant configuration ("OnSR", periodic TA is not started).
  - 12.3 Configure target SCell as Scell with new Pcell association.

After time T2 (without activation time):

- 13. Target PCell: Receive RRCConnectionReconfigurationComplete.
- 14. Target PCell: Start periodic TA.
- 15. Target PCell: Inform the SS about completion of the HO (e.g. to trigger PDCP STATUS PDU).
- 16. Target PCell: Re-configure RACH procedure as for initial access.
- 16a. Target Pcell & TargetSCell: Configure measurement gap configuration (if necessary).
- 17. Source PCell: If source Pcell is not target Scell, reset SRBs and release DRBs.
- 18. Source Pcell: If source Pcell is not target Scell, configure from Pcell to normal cell.
- 19. Source Pcell: If source Pcell is not target Scell, Release DRX and MeasGap configuration
- 20. Source SCell: If source Scell is neither target Pcell or Scell, Release DRX and MeasGapConfig configuration.
- 21. Source Scell: If source Scell is neither target Pcell or Scell, configure from Scell to normal cell.
- 22. Source Scell: If source Scell is neither target Pcell or Scell, Configure UL grant configuration ("OnSR", periodic TA is not started).

### 7.16.2 Sequence of intra-cell handover

For Intra-Cell handover dedicated timing information is used: the sequence starts at time T with sending of the RRCConnectionReconfiguration. T is set to 300 ms in advance of the handover.

- 0. Before T: Get PDCP count for AM DRBs.
- 1. At T: Send RRCConnectionReconfiguration.
- 2. At T + 5ms: Release SRBs and DRBs.
- 3. At T + 5ms: Configure RACH procedure either dedicated or C-RNTI based.
- NOTE 1: Since the RACH procedure may require a new C-RNTI to be used it cannot be configured before sending out the RRCConnectionReconfiguration.
- 3A At T + 5ms: Release MeasGapConfig configuration.
- NOTE 2: According to TS 36.331, clause 5.5.6.1 the measurement gap configuration is released at the UE due to the handover, therefore MeasGapConfig is released unless a new measurement gap configuration is explicitly given in the RRCConnectionReconfiguration.
- 4. At T + 10ms: (Re-) configure SRBs and DRBs.
- 5. At T + 10ms: Reestablish security, disable TA transmission.
- NOTE 3: For AM DRBs the PDCP count is maintained while for SRBs and UM DRBs the PDCP count is reset.
- 6. (after step 5) Receive RRCConnectionReconfigurationComplete.
- 7. (after step 6) Re-configure RACH procedure as for initial access, enable TA transmissions.
- 8. (after step 7) Restore the PDCP count for AM DRBs.

### 7.16.3 UL Grants used in RA procedure during handover

In the Random Access Procedure a grant is assigned to the UE by the Random Access Response and another grant, as initial grant, is assigned for contention resolution.

When UL data is pending, the UE will try to put as much data into given grants as possible, i.e. it will segment the user data and send it e.g. with the initial grant if possible. To avoid this segmentation of user data, the grants assigned during handover will be set in TTCN to:

Grant assigned by Random Access Response: 56 bits.

Initial grant: 104 bits.

NOTE 1: According to TS 36.321 [16], clause 5.1.4, 56 bits are the minimum grant which can be assigned by the Random Access Response. That is sufficient to convey C-RNTI (3 bytes) and short BSR (2 bytes) or long BSR (4 bytes) but even with short BSR the remaining 2 bytes are not sufficient to convey any segment of the RRCConnectionReconfigurationComplete (at least 4 bytes).

NOTE 2: The RRCConnectionReconfigurationComplete (9 bits) shall completely be conveyed in the initial grant of RA procedure. This requires a minimum of 10 bytes (1 byte MAC header + 2 bytes RLC header + 5 bytes PDCP header + 2 bytes payload). Additionally an optional PHR MAC element (2 bytes) needs to be considered since the PHR has higher priority than the MAC SDU. Any further user data would require a minimum of 5 additional bytes (2 bytes MAC header + 2 bytes RLC header + 1 byte payload).

### 7.17 Simulation of PDCP MAC-I Failure in UE

PDCP integrity protection test cases 7.3.4.x have the requirement to trigger MAC-I failures in UE for downlink messages; to achieve the MAC-I failure in UE two methods are specified in the subsequent sub clauses.

### 7.17.1 Integrity and ciphering not yet activated

UE has not yet started Integrity protection and it is required to trigger MAC-I failure for the PDCP PDU carrying RRC SecurityModeCommand starting integrity with one of integrity protection algorithms. Further a conformant UE will respond with SecurityModeFailure without any integrity protection.

This is achieved by:

Not configuring SS PDCP to start integrity and ciphering with selected algorithm.

RRC SecurityModeCommand is sent indicating Integrity protection through the desired algorithm.

Normal behaviour of PDCP layer in SS will include all zeros in MAC-I.

This results in MAC-I failure as UE will calculate the XMAC-I with indicated algorithm.

### 7.17.2 Integrity and/or ciphering already activated

UE has started Integrity protection (ciphering configured with possibly non null algorithm) and it is required to trigger MAC-I failure for the PDCP PDU carrying an RRC UECapabilityEnquiry message. A conformant UE will trigger an RRCConnectionReestablishment procedure.

This is achieved by:

Configuring SS PDCP to use a different Integrity algorithm other than used by UE (i.e. if UE is configured to use AES, SS is configured to use SNOW3G and vice versa).

Ciphering is configured at SS side same as in UE side.

The MAC-I included by SS PDCP will be as per new algorithm.

UE will calculate XMAC-I based on its own algorithm which is different from the algorithm SS has used and will result in MAC-I failure.

### 7.18 RRC Connection Release Sequence

According to TS 36.331 [19], clause 5.3.8.3, after reception of the RRCConnectionRelease the UE may either wait 60 ms or for indication of acknowledgement from lower layer. After the RRC connection release there are cases where

the UE may immediately come up with an RRC connection request. This requires scheduled release of resources at the SS:

1. At T: Send RRCConnectionRelease, stop UL grants.

2. At T + 5ms: Release security.

3. At T + 10ms: Release DRX configuration at the SS.

3A At T + 15ms: Release measurement gap configuration at the SS.

4. At T + 50ms: no action.

5. At T + 55ms: Release SRBs and DRBs.

6. At T + 60ms: (Re-) configure SRBs.

7. Delay of 840ms (NOTE)

T is set to 300ms in advance of RRC connection release.

NOTE: The delay ensures that the UE is camping on the serving cell again to avoid side effects e.g. due to subsequent power level changes. It does not affect any sending of messages by the UE. The delay 840ms is chosen to ensure the UE is re-camping on the cell and has read relevant system information, MIB, SIB1, SIB2 and all other SIs.

### 7.19 DL CCCH Message and Contention Resolution MAC Control Element transmission in one MAC PDU or in separate MAC PDUs

When the contention based RACH procedure is being executed (RRC Connection Establishment or RRC Connection Reconfiguration), in general the contention resolution MAC control element and the DL RRC PDU (RRC Connection Setup/RRC Connection Reject/RRC Connection Re-establishment/RRC Connection Re-establishment Reject) are sent in one MAC PDU. This is achieved by pre-configuring the SS (before the start of the RRC procedure) to send the encoded DL message and contention resolution MCE in one MAC PDU.

Nevertheless, due to specific test purposes there are still many cases where it is necessary to send the DL CCCH message separately:

RRC connection establishment

When RRC connection establishment is part of the test purpose

Special cases: , e.g. when no contention resolution shall be sent according to the test purpose

RRC Connection Reestablishment is part of the test purpose

RRC Connection Reject is part of the test purpose

RRC Connection Reestablishment Reject is part of the test purpose

NOTE: The way contention resolution is applied has impact on the DCI format being used in a test case: when the DL CCCH message is sent separately DCI combination 1 according to clause 7.3.1 shall be used.

# 7.20 RRC Connection Reconfiguration Sequence (Measurement Control)

When an RRC Connection Reconfiguration message contains information to configure measurement gaps at the UE according to TS 36.331 [19] clause 5.5.2.9, the SS needs to be configured accordingly:

IF MeasConfig contains measGapConfig:

1. At T: Send RRC Connection Reconfiguration.

2. At T + 5ms: Configure measurement gaps at the SS.

3. (after step 2) Receive RRC Connection Reconfiguration Complete

#### **ELSE**

- 1. Send RRC Connection Reconfiguration (without scheduling)
- 2. Receive RRC Connection Reconfiguration Complete.

T in general is set to 100ms in advance of the RRC connection reconfiguration.

### 7.21 GERAN special issues

### 7.21.1 Timeslot assigned for GERAN CS traffic

Timeslot 3 shall be used as the timeslot assigned for GERAN CS traffic, in order to avoid conflicts with timeslots reserved for other purposes (e.g. the GPRS channel which is assigned to timeslot 4).

### 7.21.2 Subchannel used in GERAN L2 access message

The subchannel is valid only for the following logical channel types: FACCH/H, SDCCH/8, SDCCH/4. For other logical channel types this field is not applicable and shall be coded as 15 for compatibility with TTCN2 test cases. The SS shall ignore it if this field is coded as 15.

### 7.21.3 Paging in GERAN

The system paging parameter BS\_PA\_MFRMS is set to a value of 2 multi frames, in order to ensure the next paging occasion is as soon as possible.

### 7.22 EUTRAN RSRQ Calculations

### 7.22.1 Assumptions

- As per 36.214 [53] clause 5.1.1 and 5.12, the RSRP and RSSI shall be averaged over the same set of resource blocks. It is assumed that the power calculations made over one symbol are good enough for RSRQ calculations. This is based on the assumption that the power levels remain the same across the symbols on which the UE is calculating the average. The contribution of Nprb and the OFDM symbols carrying cell specific reference symbols per PRB contribute equally in numerator and denominator, hence RSRQ calculations in dB with aggregation over cell DL bandwidth and without aggregation result in the same output.
- As per table 7.4.3.1.1-1, for FDD the timing offset between the intra frequency cells is always a multiple of sub frame duration i.e. 3072 Ts, hence in the symbols carrying cell-specific reference signals in one cell, the other cell (interference) is also carrying a cell-specific reference signal, even though in a different subframe. Hence from an interference calculation perspective, we can safely assume that the cells contributing an interference shall also transmit the same cell specific reference signal in the symbol/
- The noise source is treated as a dummy cell transmitting on all resource elements with equal EPRE. Hence to switch off the noise source, a value of non-suitable "Off" cell, as per 36.508 [3] table 6.2.2.1-1 shall be used (<-145), and the signal level uncertainties similar to configured cells in 36.508 [3] clause 6.2.2.1 will also be applied to the noise source.
- When the Noc value remains 'off' during the test case execution, the Virtual Noise Generator is not configured in the SS.

#### 7.22.2 The Ideal Calculation

The test case specifies the RS-EPRE (dBm/15kHz) which is the cell absolute power-cell attenuation in dBm per carrier of 15 kHz; the linear average over few measurements will give the RRP value.

It is assumed that the power levels of all contributors is fluctuating hence in the typical test environment RS-EPRE will be the RSRP over a single carrier frequency.

The RS-EPREmW(mW/15kHz) = 10 power (RSRP/10).

The energy in noise source [Noc] for the frequency is also specified in the same units of dBm/15kHz.

The RSSImW calculation(mW over a resource block frequency of 180 kHz) = 2 (the sum over all intra frequency configured cells RS-EPREmW) + 10 power ((Noc/10)\*12.

The cell inference is multiplied by 2 as in a RB, cell specific reference is transmitted in only 2 carriers. But the AWGN transmits on all 12 carriers in the resource block.

The RSRQ in dB will be the 10\*log (RS-EPREmW/RSSImW).

### 7.22.3 Additional RSRQ Calculations For Fixing Boundary Values

In addition to the ideal calculation, various RSRQ calculations take into consideration the combinations of the SS signal uncertainties and possibly all 12 carriers being used for DL transmission.

The 12 carriers being used can happen when the UE makes the measurement in a subframe when a DL PDSCH is scheduled or measurement is in subframe zero and the UE measures in OFDM symbol carrying PBCH i.e. slot 1, symbol 0.

The Min and Max RSRQ values are identified from 6 different RSRQ calculations:

RSRQ Ideal: RSRQ calculated in ideal conditions as given above

RSRQ Min: RSRQ calculation applying -ve signal uncertainty to all configured cells and noise source

RSRQ Max: RSRQ calculation applying +ve signal uncertainty to all configured cells and noise source

RSRQ Max Worst Case: RSRQ calculation applying +ve signal uncertainty for measured cell and -ve signal uncertainty to all remaining configured cells and noise source. This shall be the Max RSRQ possible

RSRQ Max And 12 Carriers: RSRQ calculation applying +ve signal uncertainty to all configured cells and noise source and cell interference considered over all 12 carriers

RSRQ Min Worst Case And 12 Carriers: RSRQ calculation applying -ve signal uncertainty for measured cell and +ve signal uncertainty to all others; and cell interference considered over all 12 carriers. This shall be the Min RSRQ possible

Applying UE measurement accuracy 36.133 [37], Table 9.1.6.2-1, +/-4dB normal conditions and side conditions of RSRQ when RSRP  $\hat{E}$ s/Iot  $\geq$  -6 dB & RSRP  $\geq$  -124 dBm the final boundary value for RSRQ is

Min RSRQ With UE Meas Acc := Min RSRQ -4 dB

Max RSRQ With UE Meas Acc := Max RSRQ + 4 dB

For conditions to fulfil desired cell selection or reselection, the respective conditions shall be satisfied for both the boundary values Min RSRQ RSRQ With UE Measurement Accuracy and Max RSRQ With UE Measurement Accuracy.

As the Boundary conditions also consider the worst scenario of all 12 carriers being transmitted, the requirement for OCNG is removed. There is no need to restrict measurement bandwidth and will be applicable for both DCI formats.

### 7.23 Test method for elCIC and felCIC

When periodic CQI feedback is requested due to TTCN configuration, the SS reports the periodic CQI to the TTCN. SS does not react on periodic CQI received and still allocates grants as configured from TTCN.

In the selected ABS no DL/UL user data (SRB/DRB) is scheduled, nor paging is transmitted; this is controlled by TTCN.

For feICIC testing, the SS may be configured to temporarily stop the transmission of SIB1 and its associated DCI.

### 7.24 Carrier Aggregation Signalling Sequences

### 7.24.1 Initial configuration of Pcell

Cell is configured as a normal cell by using function f\_EUTRA\_CellConfig\_Def. The missing CA default parameters (e.g. UL power control Common) are configured by using additional ASP call(s).

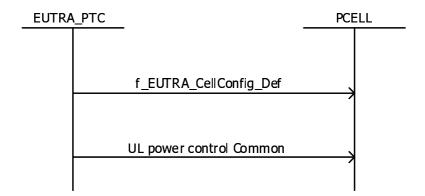


Figure 7.24.1-1: CA sequence of an initial cell configuration for a cell to be used as Pcell

### 7.24.2 Initial configuration of SCell

Cell is configured as a normal cell except for SRB/DRB configuration by function f\_EUTRA\_SS\_ConfigureActiveCell.

SRB0 not yet configured in step 1 is then configured.

The missing CA default parameters (e.g. UL power control (Common + Dedicated), PUSCH config Dedicated, SRS UL Dedicated) are configured by using additional ASP call(s).

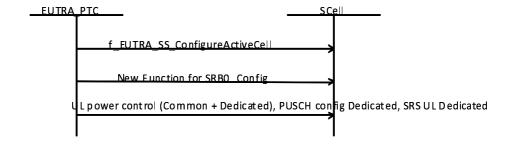


Figure 7.24.2-1: CA sequence of an initial cell configuration for a cell to be used as Scell

#### 7.24.3 Scell Addition and/or release

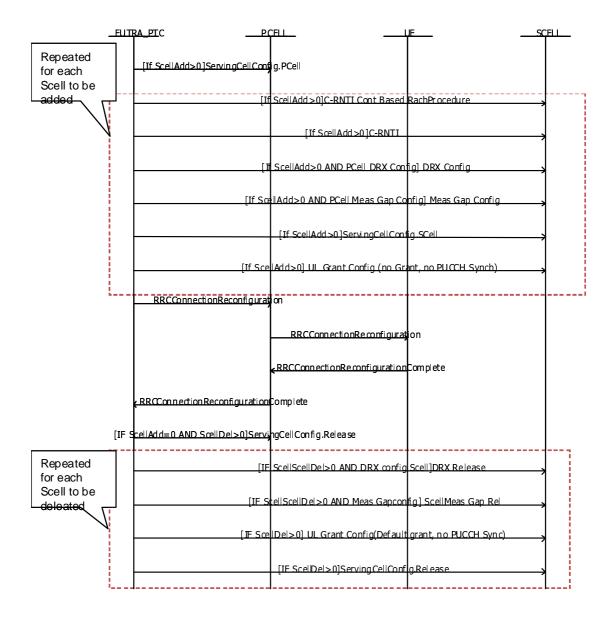


Figure 7.24.3-1: CA sequence of Scell Addition and/or release

#### 7.25 Test method for MBMS

### 7.25.1 Schedule transmission of MCCH messages

The rules for the transmission of MCCH messages are specified in TS 36.331 [19], clause 5.8.1.2. The ASPs SYSTEM\_CTRL\_REQ and SYSTEM\_CTRL\_CNF are used as interface to SS; the following rules apply:

The complete MCCH information is provided to SS by using a single ASP. The MCCH carries the *MBSFNAreaConfiguration* and may also carry the *MBMSCountingRequest* message.

The scheduling information sent to SS is the same as the scheduling information sent to the UE.

The MCCH information is sent to SS using the asn.1 types, SS shall encode in unaligned PER and add the necessary padding bits as specified in TS 36.331 [19], clause 9.1.1.1.

Segmentation occurs when the MCCH message size is larger than the TBS of the MCH. SS starts scheduling all MCCH information blocks from the same SFN.

NOTE: With the default values NPRB=NRBDL=25 for 5 MHz and default signalling Imcs =2; then Itbs=2 and the TB size will be 1096 bits, hence segmentation may never happen.

### 7.25.2 MCCH change notification

A change notification is used to indicate the modification of MCCH information. The notification is transmitted on PDCCH, it includes the notification indicator provided in the ASP and is transmitted using the M-RNTI (defined in 3GPP TS 36.321 [16] Table 7.1-1).

The notification messages are sent during one modification period before transmitting the modified MCCH information. The SFN for the start of modification period is calculated by TTCN. The modified MCCH information and the calculated SFN are provided in the ASP SYSTEM\_CTRL\_REQ. The notification messages are sent on SFN/subframes calculated by TTCN according to 36.331 [19] clause 6.3.7.

### 7.25.3 MTCH data scheduling

The SS is configured with configuration parameters for CSA, PMCH, MRBs, MSI and scheduling information for MTCH data transmission.

The TTCN shall ensure that:

- For each configured MCH, the routing & timing information of the scheduled MRB data is consistent with the configured MSI.
- The size of all MRB data scheduled in the same subframe shall fit within the resource allocation of that subframe

The SS shall ensure that:

- In subframes belonging to the CSA and for which no MCCH/MTCH/MSI data is scheduled by the TTCN, no MCH data shall be sent in MBMS subframes not used as per MSI.

If an MTCH packet is scheduled from TTCN in a subframe in which MCCH will be automatically transmitted by SS and/or MSI is configured and needs to be included, the MTCH packet and MCCH data along with possible MSI are included in one MAC PDU and *signallingMCS* is used.

When data is sent on MTCH the SS shall set the MSI in the MAC header according to TS 36.321 [16] clause 6.1.3.7. The periodicity of the MSI is defined by the MCH scheduling period i.e. the MSI is not necessarily included in the subframe where the RLC SDU is transmitted.

# 7.26 UE Category 0 FDD Half-Duplex Considerations (Type B Half Duplex)

Type B FDD half duplex UE has limitations in receiving a DL sub frame preceding or following a UL subframe for the same UE hence a blank subframe is needed. In [non TTI bundling considerations] max 3 contiguous subframes UL or DL can be scheduled. And after and before any contiguous DL/UL subframes block a blank subframe is needed.

If the UE under test is a Type B FDD half duplex UE:

- SS will be configured per cell by providing UE category info and FDD half duplex operation.
- When explicit timing info is provided in any DL transmission, the SS shall ignore the UE capability and shall follow the explicit scheduling. It will be TTCN responsibility to schedule UL/DL transmissions based on UE capability. Paging is always explicitly scheduled and hence SS follows explicit scheduling for paging.
- SI scheduling will be configured as per TDD SI scheduling (Table 7.7.2-4) restricting system info transmissions in sub frames 0 and 5.

- For non-explicitly scheduled new DL transmissions/ new UL grant allocations, the SS shall restrict UL/DL operations as per table below:

Table 7.26-1: Scheduling pattern for type B half-duplex FDD UE (non-explicitly scheduled)

SFN\SubFrame	0	1	2	3	4	5	6	7	8	9
X (any)	SI	Blank	New UL Data/ HARQ	Blank	Blank	SI	DL HARQ		New DL Data/ UL Grant	Blank

- If HARQ retransmissions are required:
  - DL retransmissions being asynchronous in nature shall be scheduled by the SS as per above schedule (i.e. subframe 8).
  - UL retransmissions being synchronous will not be limited to subframe 2. i.e. the first UL retransmission will be in frame X+1, subframe 0, second retransmission in frame X+1, subframe 8 and so on.
  - HARQ retransmissions shall be prioritised over new transmissions.

### 7.27 Test method for Device-to-Device Proximity Services

### 7.27.1 Direct Discovery test method

SS-UE is configured in coverage, i.e. it is associated with a EUTRA-cell (as specified in clause 7.27.2.1).

SS-UE can be configured for sidelink data transmission and/or reception:

- When UE under test is configured in sidelink discovery type 1 (i.e. ue-Selected), the SS-UE is configured in reception with the same pool(s) of resource.
- When UE under test is configured in sidelink discovery type 2B (i.e. scheduled), the SS-UE is configured in reception with the same pool of resource and same indexes.
- For transmission, TTCN configures the SS-UE with a pool of resources and provides the SL\_DATA\_REQ ASP including:
  - the SL-DCH message to be transmitted,
  - the timing info indicating the SFN/Subframe of the first discovery period,
  - the number of discovery periods in which the message shall be transmitted,
  - the selected PSDCH resource value (n\_PSDCH), this value is incremented by TTCN after each transmission cycle. To avoid clashes when multiple PC5\_DISCOVERY messages are transmitted within the same discovery period, TTCN will provide different n\_PSDCH values.

#### 7.27.2 Direct Communication test method

#### 7.27.2.1 Synchronisation and SBCCH transmission

When configured in coverage, the SS-UE is associated with a EUTRA-cell. SS-UE shall use the same configuration parameters i.e. Band, Bandwidth, UL frequency, Cell timing, TDD Frame structure, Cyclic Prefix of the associated EUTRA cell.

When out of coverage, SS-UE is configured explicitly by TTCN, e.g. Band, Bandwidth, TDD Frame structure. For timing synchronisation SS-UE can be configured either:

- To synchronise from UE under test transmitted SLSS/MIB-SL: UE under test is the synchronisation source. The SS-UE shall use the received SLSS and MIB-SL including the DirectFrameNumber/DirectSubframeNumber as synchronisation source as specified in TS 36.331 [19], clause 5.10.9.2

 To be the synchronisation source: SS-UE shall initiate autonomously the DirectFrameNumber/DirectSubframeNumber and transmit SLSS/MIB-SL.

When the SS-UE is configured by TTCN over sidelink system control port to receive/transmit SLSS and MIB-SL, the following rules apply:

- For transmission, the complete MIB-SL message is provided to SS-UE. SS-UE shall set the DirectFrameNumber and DirectSubframeNumber in the MIB-SL, a dummy value is provided by TTCN.
- The MIB-SL is sent to SS-UE using asn.1 types. The rules for encoding and transmission of SBCCH messages (MIB-SL) are specified in TS 36.331 [19].
- For reception, SS-UE shall report SLSS or MIB-SL over the sidelink system indication port.

#### 7.27.2.2 Sidelink data transmission/reception

When UE is in coverage and configured in transmission mode 1 (i.e. scheduled), the sidelink Scheduling Grant is configured in SS by TTCN over system control port. On PDCCH, the SS informs the UE under test if it is allowed to make sidelink data transmission by transmitting 'DCI format 5' including 'SCI format 0' with the CRC scrambled by SL-RNTI (acc. to TS 36.213 [61] clause 14.2). The UE under test will transmit on PSCCH/PSSCH as specified in the received DCI format 5 and 'SCI format 0'. SS shall only react on reception of SR and grant allocation configured from the TTCN. The following sidelink grant allocation is configured:

- SS is configured to maintain PUCCH Synch.
- SS is configured to send automatically a 'configured Grant' (in terms of  $N_{PSCCH}$ ,  $I_{TRP}$  and  $N_{PRB}$ ) to the UE on every reception of a Scheduling Request, within 10 subframes.
  - The default resource for PSCCH is  $N_{PSCCH} = 14$ ,
- The default configured grant for PSSCH in SCI format 0 is  $I_{\text{TRP}} = 4$  and  $N_{\text{PRB}} = 25$ . The SS shall allocate resource allocation RBs corresponding to PRB indices 0..( $N_{\text{PRB}}$ -1).- SS-UE is configured with the same pool(s) of resources as UE under test.

When UE is out of coverage or configured in transmission mode 2 (i.e. ue-Selected), UE selects autonomously the resources on PSCCH/PSSCH. SS-UE is configured with the same pool(s) of resources as UE under test.

The SS-UE, when triggered to transmit data, is configured with  $I_{MCS}$ =0 and the same  $N_{PSCCH}$ ,  $I_{TRP}$  and  $N_{PRB}$  as specified above.

### 8 External Function Definitions

The following external functions are required to be implemented by the SS.

TTCN-3 External Function			
Name	fx_KeyDerivationFunction		
Description	Hashing function for Hashing algorithms as defined in TS 33.401 [24]		
	SHA-256 encoding algorithm is used as KEY Description Function		
Parameters	KDF	KDF_HMAC_SHA_256 (no other KDF defined yet)	
	Key	bit key	
	String	string being constructed acc. to TS 33.401 [24], annex A	
Return Value	256 bit derived key		

TTCN-3 External Function		
Name	fx_NasIntegrityAlgorithm	
Description	Apply integrity protection algorithm on a given octetstring	
Parameters	NAS PDU	octetstring according to TS 24.301 [21], clause 4.4.3.3 this shall include octet 6 to n of the security protected NAS message, i.e. the sequence number IE and the NAS message IE
	Integrity Algorithm	3 bits as defined in TS 24.301 [21], clause 9.9.3.23
	KNAS <sub>int</sub>	Integrity key
	NAS COUNT	as documented in TS 24.301
	BEARER Id	fix value ('00000'B) acc. TS 33.401 [24], clause 8.1
	Direction	UL: 0
		DL: 1
		(acc. to TS 33.401 [24], clause B.1)
Return Value	Message Authentication Code (4 octets)	

TTCN-3 External Function		
Name	fx_NasCiphering	
Description	Apply ciphering on a given octetstring	
Parameters	NAS PDU	octetstring
	Ciphering Algorithm	3 bits as defined in TS 24.301 [21], clause 9.9.3.23
	KNAS <sub>enc</sub>	Ciphering Key
	NAS COUNT	as documented in TS 24.301
	BEARER Id	fixed value ('00000'B) acc. TS 33.401 [24], clause 8.1
Return Value	ciphered octet string	

TTCN-3 External Function		
Name	fx_NasDeciphering	
Description	Apply deciphering on a given octetstring	
Parameters	ciphered NAS PDU	octetstring
	Ciphering Algorithm	3 bits as defined in TS 24.301 [21], clause 9.9.3.23
	KNAS <sub>enc</sub>	Ciphering Key
	NAS COUNT	as documented in TS 24.301 [21]
	BEARER Id	fixed value ('00000'B) acc. TS 33.401 [24], clause 8.1
Return Value	deciphered octet string	

TTCN-3 External Function		
Name	fx_AsIntegrityAlgorithm	
Description	Apply integrity protection algorithm on a given octetstring	
Parameters	PDCP PDU	octetstring
	Integrity Algorithm	3 bits as defined in TS 33.401 [24]
	KRRCint	Integrity key
	PDCP COUNT	octetstring, length 4
	BEARER Id	the value of the DRB identity minus one
	Direction	UL: 0
		DL: 1
		(acc. to TS 33.401 [24], clause B.2)
Return Value	Message Authentication Code (4 octets)	

TTCN-3 External Function		
Name	fx_AsCiphering	
Description	Apply ciphering on a given octetstring	
Parameters	SDU	octetstring
	Ciphering Algorithm	3 bits as defined in TS 33.401 [24]
	KRRC <sub>enc</sub>	Ciphering Key
	PDCP COUNT	octetstring, length 4
	BEARER Id	the value of the DRB identity minus one
Return Value	ciphered octet string	

TTCN-3 External Function					
Name	fx_AsDeciphering				
Description	Apply deciphering on a	given octetstring			
Parameters	ciphered SDU	octetstring			
	Ciphering Algorithm	3 bits as defined in TS 33.401 [24]			
	KRRC <sub>enc</sub>	Ciphering Key			
	PDCP COUNT	octetstring, length 4			
	BEARER Id	the value of the DRB identity minus one			
Return Value	deciphered octet string				

	TTCN-3 External Function				
Name	fx_GetSystemTime				
Description	Function to get the syste	em time: Implementation is based on C standard library (time.h)			
Parameters	p_Struct_tm (out)	p_Struct_tm returns local system time equivalent to "struct tm" as defined for C standard library (time.h or ctime):			
		<pre>type record Struct_tm_Type {   integer tm_sec,</pre>			
		for leap seconds in certain systems  C implementation:     time_t v_Now = time(NULL);     struct tm *v_Tm = localtime(&v_Now);			
	p_TimezoneInfo (out)	p_TimezoneInfo returns the difference (in seconds) between the UTC time (GMT) and the local time (integer value);			
		<pre>C implementation:    int timezone =      (int)difftime(mktime(gmtime(&amp;v_Now)), v_Now);</pre>			
		NOTE: p_TimezoneInfo does not consider daylight saving e.g. it is always 3600 for CET independent of summer/winter			
Return Value	None				

TTCN-3 External Function			
Name	fx_MD5_Hex		
Description	external function to calcula	ate the MD5 Message-Digest Algorithm according to RFC 1321	
Parameters	Data	octetstring	
Return Value	octetstring		

## 9 IXIT Proforma

This partial IXIT proforma contained in the present document is provided for completion, when the related Abstract Test Suite is to be used against the Implementation Under Test (IUT).

Text in *italics* is a comment for guidance for the production of an IXIT, and is not to be included in the actual IXIT.

The completed partial IXIT will normally be used in conjunction with the completed ICS, as it adds precision to the information provided by the ICS.

## 9.1 E-UTRAN PIXIT

**Table 9.1-1: Common PIXIT** 

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_AccessPointName	octetstring			Access Point Name, as defined in TS 23.003 [48] and used in TS 24.008 [20], clause 10.5.6.1
px_AttachTypeTested	EUTRA_ATTAC H_TESTED_Typ e	EPS_ATTACH_ON LY	EPS_ATTA CH_ONLY, COMBINED _ATTACH	Attach Type to be tested, if UE supports both pc_Attach and pc_Combined_Attach
px_eAuthRAND	B128_Type	oct2bit('A3DE0C6 D363E30C364A40 78F1BF8D577'O)		Random Challenge
px_EllipsoidPointWithAltitude	O8_Type			Ellipsoid Point With Altitude value to be provided in Update UE location information (see 36.509 cl. 6.12)
px_HorizontalVelocity	O3_Type			Horizontal Velocity value to be provided in Update UE location information (see 36.509 cl. 6.12)
px_eJapanMCC_Band6	NAS_Mcc	'442'H		Japan MCC code to be used for Band 6. The same value will be used for E-UTRA and Inter-RAT cells. Type is different to that defined in TS 34.123-3 [7]
px_PWS_CB_DataPage1	charstring			ETWS or CMAS Page 1 warning data message
px_PWS_CB_DataPage2	charstring			ETWS or CMAS Page 2 warning data message
px_PWS_CB_DataPage3	charstring			ETWS or CMAS Page 3 warning data message
px_PWS_CB_DataPage4	charstring			ETWS or CMAS Page 4 warning data message
px_PWS_CB_DataCodingSche me	bitstring			ETWS or CMAS data coding scheme of the alphabet/coding and the applied language [see TS 23.041]
px_ETWS_DigitalSignature	O43_Type			ETWS Digital Signature
px_IPv4_Address1_UE	charstring			IPv4 Address connected to PDN1
px_IPv4_Address2_UE	charstring			IPv4 Address connected to PDN2
px_IPv4_Address2a_UE	charstring			IPv4 Address connected to PDN2a
px_IPv4_Address1_NW	charstring			IPv4 Gateway Address in PDN1
px_lpv4_Address2_NW	charstring			Ipv4 Gateway Address in PDN2
px_IPv4_Address1_RemoteUE	charstring			IPv4 Address of remote UE connected to PDN1
px_IPv4_Address2_RemoteUE	charstring			IPv4 Address of remote UE connected to PDN2
px_lpv4_Address_HomeAgent	charstring			Ipv4 Home Agent Address
px_IPv6_Address1_UE	charstring			IPv6 Address connected to PDN1
px_IPv6_Address2_UE	charstring			IPv6 Address connected to PDN2

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_IPv6_Address2a_UE	charstring			IPv6 Address connected to PDN2a
px_IPv6_Address1_NW	charstring			IPv6 Gateway Address in PDN1
px_lpv6_Address2_NW	charstring			Ipv6 Gateway Address in PDN2
px_IPv6_Address1_RemoteUE	charstring			IPv6 Address of remote UE connected to PDN1
px_IPv6_Address2_RemoteUE	charstring			IPv6 Address of remote UE connected to PDN2
px_lpv6_Address_HomeAgent	charstring			Ipv6 Home Agent Address
px_SMS_ChkMsgReceived	boolean	true		Whether the operator can check an MT Short Message received
px_SMS_MsgFrmt	charstring	"1"		SMS message format <mode> (see TS 27.005 [31] cl. 3.2.3).  NOTE: Default value is for text mode. Change value to "0" to execute tests with PDU mode.</mode>
px_RATComb_Tested	RATComb_Test ed_Type	EUTRA_UTRA	EUTRA_UT RA, EUTRA_GE RAN, EUTRA_Onl	This parameter represents the network RAT capability / preference and indicates which, if any is supported, RAT combination is to be tested.
px_SinglePLMN_Tested	SinglePLMN_Te sted_Type	MultiPLMN	SinglePLM N, MultiPLMN	This parameter represents the network capability/preference to support multi PLMNs on the same test Band and indicates the preference of multi PLMNs or single PLMN test environment. This PIXIT shall be set to SinglePLMN when only one frequency is defined for the test band.
px_UE_CS_PS_UsageSetting_ Tested	CS_PS_MODE	VOICE_CENTRIC	VOICE_CE NTRIC, DATA_CEN TRIC	Specifies which CS/PS mode is under test
px_UE_PS_UsageSetting_Test ed	PS_MODE	VOICE_CENTRIC	VOICE_CE NTRIC, DATA_CEN TRIC	Specifies which PS mode is under test
px_UTRAN_ModeUnderTest	UTRAN_FDD_T DD	UTRAN_FDD	UTRAN_FD D, UTRAN_TD D	Specifies which radio access technology is being tested in UTRAN
px_TestLoopModeB_Delay	O1_Type	'5A'		This parameter represents the IP_PDU_delay to be used for UE test loop mode B in test cases, where long delay may be needed e.g. because of user interaction.
px_IP_MTU_Size	integer	65535		MTU Size. This value is specific to the SS.
px_UTRAN_OverlappingNotSup portedFrequencyBandMFBI	integer			A not supported UTRAN frequency band that is overlapping with a supported band (px_MFBI_UTRAN_FrequencyBa nd). This PIXIT shall be set also in accordance with the values of the 3 PIXIT items: px_UARFCN_D_High, px_UARFCN_D_Mid,px_UARFC N_L_Mid. Applied to MFBI test case scenario.
px_MFBI_UTRAN_FrequencyB	integer			A supported UTRAN frequency
and				band overlapping with

Parameter Name	Parameter Type	Default Value	Supported Values	Description
				px_UTRAN_OverlappingNotSupp ortedFrequencyBandMFBI. Applied to MFBI test case scenario.

Table 9.1-2: E-UTRAN PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_eTDDsubframeConfig	TDD_SubframeA ssignment_Type	1		TDD uplink-downlink subframe configuration
px_ePrimaryBandChannelBand	DI_Bandwidth_T	n25		Channel bandwidth used on
width	ype			px_ePrimaryFrequencyBand
px_ePrimaryFrequencyBand	integer	1		E-UTRA primary frequency band E-UTRA secondary frequency
px_eSecondaryFrequencyBand	integer	2		band
px_eSecondaryBandChannelBa ndwidth	DI_Bandwidth_T ype	n25		Channel bandwidth used on px_eSecondaryFrequencyBand
px_EUTRA_CA_BandCombination	CA_BandCombi nation_Type	CA_1C		Band combination for CA test cases
px_EUTRA_DC_BandCombination	DC_BandCombi nation_Type	DC_1A-3A		Band combination for DC test cases
px_NAS_CipheringAlgorithm	B3_Type	001'B		NAS Ciphering Algorithm (eea1)
px_NAS_IntegrityProtAlgorithm	B3_Type	001'B		NAS Integrity Algorithm (eia1)
px_RRC_CipheringAlgorithm	CipheringAlgorit hm_r12	eea1		Ciphering Algorithm
px_RRC_IntegrityProtAlgorithm	IntegrityProtAlgo rithm	eia1		Integrity Algorithm
px_eMaxNumberROHC_Contex tSessions	MaxNumberRO HC_ContextSes sions_Type	Cs16		Maximum number of ROHC context sessions
px_MFBI_FrequencyBand	integer	26		A supported E-UTRA frequency band overlapping with px_OverlappingNotSupportedFre quencyBand_MFBI. Applied to MFBI test case scenario.
px_MFBI_BandChannelBandwi dth	DI_Bandwidth_T ype	n25		E-UTRAN channel bandwidth used on px_MFBI_FrequencyBand. Applied to MFBI test case scenario.
px_OverlappingNotSupportedFr equencyBand_MFBI	integer	27		A not supported E-UTRA frequency band that is overlapping with a supported band (px_MFBI_FrequencyBand). Applied to MFBI test case scenario.
px_OverlappingSupportedFrequ encyBand_MFBI	integer	26		A supported E-UTRA frequency band overlapping with px_OverlappingNotSupportedFre quencyBand_MFBI. Applied to MFBI enhancement test case scenario.
px_ProSeAnnApplicationIdentity 1	charstring	mcc345.mnc012.Pr oSeApp.Food.Rest aurants.Italian		A ProSe Application ID with which data structure the UE is preconfigured and for which the UE can request and perform Direct Discovery Announcing. TS 23.003, section 24.2.
px_ProSeMonApplicationIdentit y1	charstring	mcc300.mnc165.Pr oSeApp.*.Sports.S urfing		A ProSe Application ID with which data structure the UE is preconfigured and for which the UE can request and perform Direct Discovery Monitoring. TS 23.003, section 24.2
px_ProSeMonApplicationIdentit yNot1	charstring	mcc208.mnc*.ProS eApp.Shops.Food. Wine		A ProSe Application ID with which data structure the UE is NOT preconfigured to request and perform Direct Discovery Monitoring. TS 23.003, section 24.2
px_ProSe_TLS_CipherSuite	TLS_CIPHER_T	TLS_PSK_WITH_3		TLS cipher suite to be used

уре	DES_EDE_CBC_S	for ProSe communication
	HA	

# 9.2 MultiRAT PIXIT

#### **Table 9.2-1: GERAN PIXIT**

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_GERAN_BandUnderTest	GERAN_BandU nderTestType	GSM_P900		Indicates which band is under test

#### **Table 9.2-2: UTRAN PIXIT**

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_UTRAN_CipheringAlgorithm	CipheringAlgorit hm_r7	uea2	uea0, uea1, uea2	UTRAN Ciphering algorithm
px_UARFCN_Low_TDD	integer			Low Range downlink UARFCN value for LCR TDD
px_UARFCN_Mid_TDD	integer			Mid Range downlink UARFCN value for LCR TDD
px_UARFCN_High_TDD	integer			High Range downlink UARFCN value for LCR TDD
px_TDD_OperationBandCha rstring	charstring	a	px_UARFCN_Mid_TD D, px_UARFCN_Low_TD D and px_UARFCN_High_T DD shall take the values according to the value of px_TDD_OperationBa ndCharstring.	Applicable for TDD The operation band under test as defined in 34.108 clause 5.1.2.

Table 9.2-3: CDMA2000 HRPD PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_HRPD_BandClass	BandclassCDMA 2000_Type	1		Band Class; Table 1.5-1 of C.S0057-E v1.0 Default value corresponds to 1.8 to 2.0 GHz PCS band
px_HRPD_SectorID_Cell15	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 000000001'O)		Sector ID of Cell 15; Clause 13.9 of C.S0024-C v2.0
px_HRPD_SectorID_Cell16	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 000000002'O)		Sector ID of Cell 16; Clause 13.9 of C.S0024-C v2.0
px_HRPD_SectorID_Cell17	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 00000003'O)		Sector ID of Cell 17; Clause 13.9 of C.S0024-C v2.0
px_HRPD_SectorID_Cell18	SectorID_HRPD _Type	oct2bit('FEA00000 0000000000000000 00000004'O)		Sector ID of Cell 18; Clause 13.9 of C.S0024-C v2.0
px_ColorCode	ColorCode_Type	64		Colour code of the subnet to which the sectors belong; Same for all HRPD cells
px_ColorCodeDiff	B32_Type	128		Colour code of the subnet to which the sectors belong; Adifferent colour code than default
px_OpenLoopAdjust	OpenLoopAdjust _Type	10		The value of open loop adjust to be used by access terminals in the open loop power estimate, expressed as an unsigned value in units of 1 dB. The value used by the access terminal is -1 times the value of this field
px_UATI24	O3_Type	'123456'O		UATI to be allocated to the UE, clause 6.3.7.2.2 of C.S0024-C v2.0
px_MACIndex	integer	15		ReverseLinkMACIndex to be used. Allowed values 0383 C.S0024-C v2.0 clause 12.4.1.3.2.2

Table 9.2-4: CDMA2000 1xRTT PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_1XRTT_BaseId_Cell19	B16_Type	int2bit (39,16)		Base ID of Cell 19
px_1XRTT_BaseId_Cell20	B16_Type	int2bit (40,16)		Base ID of Cell 20
px_1XRTT_BaseId_Cell21	B16_Type	int2bit (41,16)		Base ID of Cell 21
px_1XRTT_BaseId_Cell22	B16_Type	int2bit (42,16)		Base ID of Cell 22
px_1XRTT_NID	B16_Type	int2bit (100,16)		default Network ID of 1xRTT Cells
px_1XRTT_SID	B15_Type	int2bit (200,15)		default SystemID of 1xRTT Cells
px_1XRTT_TMSI_Def	O4_Type	'1234ABCD'O		TMSI to be used in 1XRTT
px_1XRTT_MinProtRev	ProtRev_Type	0		Minimum Protocol revision supported by Base Station
px_1XRTT_UserInfo_EncMode	EncryptionMode _Type	2		Encryption Mode Rijndael algorithm
px_1XRTT_Sig_EncMode	EncryptionMode _Type	2		Encryption Mode Rijndael algorithm
px_1XRTT_BandClass	BandclassCDMA 2000_Type	1		Band Class; Table 1.5-1 of C.S0057 E v1.0. Default value corresponds to 1.8 GHz to 2.0 GHz PCS band
px_PowerDownRegEnabled	boolean	true		Parameter for power down reg in 1xRTT
px_1XRTT_Zone_Timer	B3_Type	'000'B		Zone timer sent in 'System Parameters Message' overhead message
px_RAND	B32_Type	'000011110000111 100001111000011 11'B		Random Challenge Data to be included along with mobility parameters in CSFBParametersResponseCDM A2000 or HandoverFromEUTRAPreparationRequest
px_RAND2	B32_Type	'000011110000111 100001111000011 11'B		Random Challenge Data to be included along with mobility parameters in CSFBParametersResponseCDM A2000 or HandoverFromEUTRAPreparationRequest

Table 9.2-5: WLAN PIXIT

Parameter Name	Parameter Type	Default Value	Supported Values	Description
px_ePDG_lpsec_CipheringAlgo rithm	IPsec_Ciphering Algorithm_Type	des_ede 3_cbc	des_ede3_cbc, aes_cbc, nociph	Ipsec Ciphering Algorithm used in ePDG
px_ePDG_lpsec_IntegrityAlgorit hm	IPsec_IntegrityAl gorithm_Type	_	hmac_md5_96, hmac_sha_1_96	Ipsec Integrity Algorithm used in ePDG
px_WLANBand	WLAN_Band_Ty pe	Band2_ 4Ghz	Band2_4Ghz, Band5Ghz, Band3_6Ghz	WLAN ISM Band
px_WLAN_RulesToBeTested	WLAN_RulesTo BeTested	"ANDSF _Rules"	"ANDSF_Rules", "RAN_Rules"	Rules to be tested in WLAN test cases

# 10 Postambles

The purpose of this clause is to specify postambles to bring the UE to a well defined state regardless of the UE state at the termination of main test body or of the SS conditions and values of the system information inherited from the test.

#### 10.1 Postambles for E-UTRA to UTRA tests

This clause describes UE postamble procedures which are used at the end of inter-RAT test cases specified in TS 36.508 [3] so as to switch off the UE.

UE LTE and UTRAN postamble conditions are specified in table 10.1-1.

Table 10.1-1: UE postamble conditions

LTE UE attach type	UE UTRA CS/PS domain	Postamble condition
attach	pc_CS AND pc_PS	C1
	pc_PS AND NOT (pc_CS)	C2
combined_attach	pc_CS AND pc_PS	C3
	pc_CS AND NOT (pc_PS)	C4

## 10.1.1 UE postamble states and procedures for E-UTRA to UTRA

In order to bring the UE to the switched/powered off state, a number of procedures need to be executed in a hierarchical sequence, according to the reference end state specified in each test procedure sequence. The sequences and the identified procedures are shown in figure 10.1.1-1.

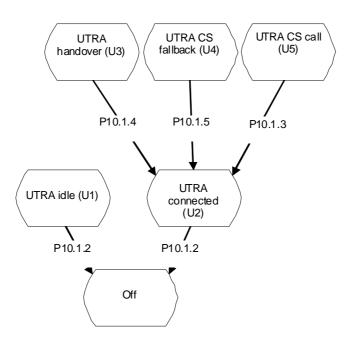


Figure 10.1.1-1: UE postamble procedures for E-UTRA / UTRA test cases

NOTE 1: Depending on the test case specifications the termination of a test case can be in any state of figure 10.1.1-1.

UE in UTRA state U2, U3, U4 and U5 may send data on the established radio bearer and shall be accepted and handled.

NOTE 2: NAS and AS security procedures during routing area update and handover are performed according to TS 33.401 [24], clauses 9.1.1 and 9.2.1 and TS 25.331 [36], clause 8.3.6.3.

# 10.1.2 Switch/Power off procedure

## 10.1.2.1 Procedure

Table 10.1.2.1-1: Switch/Power off procedure

C4	Dragadowa	Procedure Message Sequence		
Step	Procedure	U-S	Message	
1	The UE is powered off or switched off, (see ICS)	-	-	
-	EXCEPTION: Steps 2 to 7 specify the behaviour if UE supports pc_SwitchOnOff.	-	-	
-	EXCEPTION: Steps 2 to 4 are used only when the UE is in UTRA idle end state (U1).			
2	The UE transmits RRC CONNECTION REQUEST	>	RRC CONNECTION REQUEST	
3	The SS transmit a RRC CONNECTION SETUP	<	RRC CONNECTION SETUP	
4	The UE transmits an RRC CONNECTION SETUP COMPLETE message	>	RRC CONNECTION SETUP COMPLETE	
-	EXCEPTION: Step 4Aa1 to 4Aa6 specifies optional behaviour if the UE is registered to IMS services. UE may perform IMS-deregistration procedure.			
4Aa1	The UE transmits UPLINK DIRECT TRANSFER message or INITIAL DIRECT TRANSFER message when the UE is in UTRA idle end state (U1). This message includes a GMM SERVICE REQUEST message with service type=Data.	>	GMM SERVICE REQUEST	
4Aa2	The SS transmits a SECURITY MODE COMMAND message for the ps domain.		SECURITY MODE COMMAND	
4Aa3	The UE transmits a SECURITY MODE COMPLETE message.		SECURITY MODE COMPLETE	
4Aa4	The SS transmits a RADIO BEARER SETUP message using the UTRA reference radio bearer parameters and combination "UTRA PS RB" according to TS 36.508 subclause 4.8.3 and Table 4.8.3-1.		RADIO BEARER SETUP	
4Aa5	The UE transmits a RADIO BEARER SETUP COMPLETE		RADIO BEARER SETUP COMPLETE	
4Aa6	IMS de-registration is performed using the generic procedure defined in 34.229-1 [40] Annex C.30.			
-	EXCEPTION: Step 5a1 specifies behaviour when the current UTRA cell is in NMO I and the UE is in condition: - C1 or - C3	-	-	
5a1	The UE transmits an UPLINK DIRECT TRANSFER message or INITIAL DIRECT TRANSFER message when the UE is in UTRA idle end state (U1). This message includes a DETACH REQUEST message with the detach type='power switched off, GPRS/IMSI combined detach'	>	DETACH REQUEST	
-	EXCEPTION: Step 5b1 specifies behaviour when the current UTRA cell is in (NMO I or NMO II) and the UE is in condition C4	-	-	
5b1	The UE transmits an UPLINK DIRECT TRANSFER message or INITIAL DIRECT TRANSFER message when the UE is in UTRA idle end state (U1). This message includes an IMSI DETACH INDICATION message	>	IMSI DETACH INDICATION	

Cton	Ducasdura	Message Sequence		
Step	Procedure	U - S	Message	
-	EXCEPTION: Step 5c1 specifies behaviour	-	-	
	when the current UTRA cell is in (NMO I or			
	NMO II) and the UE is in condition C2		DETA OLI DEGLIEGE	
5c1	The UE transmits an UPLINK DIRECT	>	DETACH REQUEST	
	TRANSFER message or INITIAL DIRECT			
	TRANSFER message when the UE is in			
	UTRA idle end state (U1).			
	This message includes a DETACH			
	REQUEST message with detach type='power switched off, PS detach"			
	EXCEPTION: Steps 5d1 and 5d2 specify			
-	behaviour when the current UTRA cell is in	_		
	NMO II and the UE is in condition:			
	- C1 or			
	- C3.			
	Both detach messages (in steps 5d1 and 5d2)			
	can be sent by UE in any order.			
5d1	The UE transmits an UPLINK DIRECT	>	DETACH REQUEST	
	TRANSFER message or INITIAL DIRECT			
	TRANSFER message when the UE is in			
	UTRA idle end state (U1) and this is the first			
	message received.			
	This message includes a DETACH			
	REQUEST message with the detach			
	type='power switched off, PS detach"			
5d2	The UE transmits an UPLINK DIRECT	>	IMSI DETACH INDICATION	
	TRANSFER message or INITIAL DIRECT			
	TRANSFER message when the UE is in			
	UTRA idle end state (U1) and this is the first			
			DDG GONNEGTION DELEAGE	
6		<	RRC CONNECTION RELEASE	
7			RRC CONNECTION RELEASE	
,	THE SE GARDING A TITLE SOLVED TON	_	COMPLETE	
6	The SS transmits an RRC CONNECTION RELEASE message The UE transmits a RRC CONNECTION	<	RRC CONNECTION RELEASE	

# 10.1.3 CC disconnect procedure

## 10.1.3.1 Procedure

Table 10.1.3.1-1: CC disconnect procedure

Cton	Procedure		Message Sequence
Step	Procedure	U - S	Message
1	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a DISCONNECT message.	<	DISCONNECT
2	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a RELEASE message.	>	RELEASE
3	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a RELEASE COMPLETE message.	<	RELEASE COMPLETE
4	Void		
5a	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE
5b	The UE transmits a RRC CONNECTION RELEASE COMPLETE message	>	RRC CONNECTION RELEASE COMPLETE
5c	The UE transmits RRC CONNECTION REQUEST	>	RRC CONNECTION REQUEST
5d	The SS transmit a RRC CONNECTION SETUP	<	RRC CONNECTION SETUP
5e	The UE transmits an RRC CONNECTION SETUP COMPLETE message	>	RRC CONNECTION SETUP COMPLETE
6	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE REQUEST message with Update type ='Combined RA/LA Updated'	>	ROUTING AREA UPDATE REQUEST
7	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT
8	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE

# 10.1.4 PS Routing Area Update procedure

## 10.1.4.1 Procedure

Table 10.1.4.1-1: PS Routing Area Update procedure

Ston	Step Procedure		Message Sequence		
Step		U-S	Message		
-	EXCEPTION: steps 1a1 to 1a5 specify the UE behaviour when the current UTRA cell is in NMO I and the UE is in condition: - C1 or - C3 and the UE is not registered to the LAC	-	-		
1a1	of the current UTRA cell The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE REQUEST message with Update	>	ROUTING AREA UPDATE REQUEST		
	type ='Combined RA/LA Updated'				
1a2	Void	-	-		
1a3	Void	-	-		
1a4 	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT		
1a5	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE		
-	EXCEPTION: steps 1b1 to 1b5 specify the UE behaviour when the current UTRA cell is in (NMO I or NMO II) and the UE is in condition: - C2 or - C3 and the UE is registered to the LAC of the current UTRA cell	-	-		
1b1	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE REQUEST message with Update type ='RA Update'	>	ROUTING AREA UPDATE REQUEST		
1b2	Void	-	-		
1b3	Void	-	-		
1b4	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT		
1b5	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE		
-	EXCEPTION: steps 1c1 to 1c9 specify the UE behaviour when the current UTRA cell is in NMO II and the UE is in condition: - C1 or - C3 and the UE is not registered to the LAC of the current UTRA cell.  The LOCATION UPDATE REQUEST message (step 1c6) can be received during	-	-		
1c1	the routing area updating procedure (steps 1c1 to 1c4).  The UE transmits an UPLINK DIRECT TRANSFER message.  This message includes a ROUTING AREA UPDATE REQUEST message with Update type ='RA Update'.	>	ROUTING AREA UPDATE REQUEST		

Step	Procedure		Message Sequence		
Step		U - S	Message		
1c2	Void	-	-		
1c3	Void	-	-		
1c4	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE ACCEPT message.	<	ROUTING AREA UPDATE ACCEPT		
1c5	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a ROUTING AREA UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE		
1c6	The UE transmits an UPLINK DIRECT TRANSFER message. This message includes a LOCATION UPDATING REQUEST message.	>	LOCATION UPDATING REQUEST		
1c7	The SS transmits a SECURITY MODE COMMAND message.	<	SECURITY MODE COMMAND		
1c8	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE		
1c9	The SS transmits a DOWNLINK DIRECT TRANSFER message. This message includes a LOCATION UPDATING ACCEPT	<	LOCATION UPDATING ACCEPT		
1c10	The EU transmits a UPLINK DIRECT TRANSFER message. This message includes a TMSI REALLOCATION COMPLETE	>	TMSI REALLOCATION COMPLETE		

# 10.1.5 CS fallback procedure

### 10.1.5.1 Procedure

Table 10.1.5.1-1: CS fallback procedure

Cton	Procedure	Message Sequence		
Step	Procedure	U-S	Message	
-	EXCEPTION: In parallel to the events	-	-	
	described in step 1a1 to 2a5 the steps			
	specified in table 10.1.5.1-2 takes place.			
-	EXCEPTION: Steps 1a1 and 1a2 specify the	-	-	
	MO call procedure and step 1b1 specifies the			
	MT call procedure.			
1a1	The UE transmits an INITIAL DIRECT	>	CM SERVICE REQUEST	
	TRANSFER message including a CM			
	SERVICE REQUEST message.			
1a2	The SS transmits an UPLINK DIRECT	<	CM SERVICE REJECT	
	TRNASFER message including a CM			
	SERVICE REJECT with the reject cause #32			
	(Service option not supported)			
-	EXCEPTION: Step 1b1 specifies the MT call	-	-	
45.4	procedure.		DACINO DECDONOS	
1b1	The UE transmits an INITIAL DIRECT	>	PAGING RESPONSE	
	TRANSFER message including a PAGING			
	RESPONSE message.			
-	EXCEPTION: Steps 2a1 and 2a5 specify the	-	-	
	location area update procedure when the current UTRA cell is in NMO II and the UE is			
	in condition C3 and the UE is not registered to			
	the LAC of the current UTRA cell.			
2a1	The UE transmits an UPLINK DIRECT	>	LOCATION UPDATING REQUEST	
201	TRANSFER message.		LOCATION OF DATING REQUEST	
	This message includes a LOCATION			
	UPDATING REQUEST message.			

04	D 1	Message Sequence		
Step	Procedure	U-S	Message	
2a2	The SS transmits a SECURITY MODE COMMAND message.	<	SECURITY MODE COMMAND	
2a3	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	
2a4	The SS transmits a DOWNLINK DIRECT TRANSFER message.	<	LOCATION UPDATING ACCEPT	
	This message includes a LOCATION UPDATING ACCEPT			
2a5	The EU transmits a UPLINK DIRECT TRANSFER message.	>	TMSI REALLOCATION COMPLETE	
	This message includes a TMSI REALLOCATION COMPLETE			
3	The SS transmits a SECURITY MODE COMMAND message.	<	SECURITY MODE COMMAND	
4	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	
5	The SS transmits a DOWNLINK DIRECT TRANSFER message.	<	ROUTING AREA UPDATE ACCEPT	
	This message includes a ROUTING AREA UPDATE ACCEPT message.			
6	The UE transmits an UPLINK DIRECT TRANSFER message.		ROUTING AREA UPDATE COMPLETE	
	This message includes a ROUTING AREA UPDATE COMPLETE message.	>		
-	EXCEPTION: Steps 7a1 and 7a5 specify the combined routing updating procedure when	-	-	
	the initial RAU procedure was for RA Only. This may occur either before, or after, steps 8 and 9			
7a1	The UE transmits a ROUTING AREA UPDATE REQUEST message.	>	ROUTING AREA UPDATE REQUEST	
7a2	The SS transmits a SECURITY MODE COMMAND message.	<	SECURITY MODE COMMAND	
7a3	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	
7a4	The SS transmits a DOWNLINK DIRECT TRANSFER message.	<	ROUTING AREA UPDATE ACCEPT	
	This message includes a ROUTING AREA UPDATE ACCEPT message.			
7a5	The UE transmits an UPLINK DIRECT TRANSFER message.	>	ROUTING AREA UPDATE COMPLETE	
	This message includes a ROUTING AREA UPDATE COMPLETE message.			
-	EXCEPTION: Steps 7b1 and 7b4 specify the location updating procedure when the current UTRA cell is in network mode (NMO I or NMO	-	-	
	II) and the UE is in condition C4 and the UE is			
	not registered to the LAC of the current UTRA cell.			
7b1	The UE transmits an UPLINK DIRECT TRANSFER message.	>	LOCATION UPDATING REQUEST	
	This message includes a LOCATION UPDATING REQUEST message.			
7b2	The SS transmits a SECURITY MODE COMMAND message.	<	SECURITY MODE COMMAND	
7b3	The UE transmits a SECURITY MODE COMPLETE message.	>	SECURITY MODE COMPLETE	
7b4	The SS transmits a DOWNLINK DIRECT TRANSFER message.	<	LOCATION UPDATING ACCEPT	
	This message includes a LOCATION UPDATING ACCEPT			
7b5	The EU transmits a UPLINK DIRECT TRANSFER message.	>	TMSI REALLOCATION COMPLETE	
	This message includes a TMSI REALLOCATION COMPLETE			

Ston	Step Procedure		Message Sequence	
Step			Message	
8	The SS transmits an RRC CONNECTION RELEASE message.	<	RRC CONNECTION RELEASE	
9	The UE transmits an RRC CONNECTION	>	RRC CONNECTION RELEASE	
	RELEASE COMPLETE message.		COMPLETE	

Table 10.1.5.1-2: Parallel behaviour

St	Procedure	Message Sequence		TP	Verdict
		U-S	Message		
1	The UE transmits a ROUTING AREA UPDATE	>	ROUTING AREA UPDATE	-	-
	REQUEST message.		REQUEST		

## 10.2 Postambles for E-UTRAN to GERAN tests

This clause describes UE postamble procedures which are used at the end of inter-RAT test cases defined in TS 36.508 [3] so as to switch off the UE. UE LTE and GERAN postamble transitions are specified in table 10.2-1.

Table 10.2-1: UE postamble conditions

LTE UE attach type	UE GERAN CS/PS domain	Postamble condition
attach	pc_GPRS	C1
combined attach	pc_GPRS	C2
	NOT pc_GPRS	C3

# 10.2.1 UE postamble states and procedures for E-UTRA to GERAN test cases

In order to bring the UE to the switched/powered off state there are a number of procedures that need to be executed in a hierarchical sequence, according to the reference end state specified in each test procedure sequence. The sequences and the identified procedures are shown in figure 10.2.1-1.

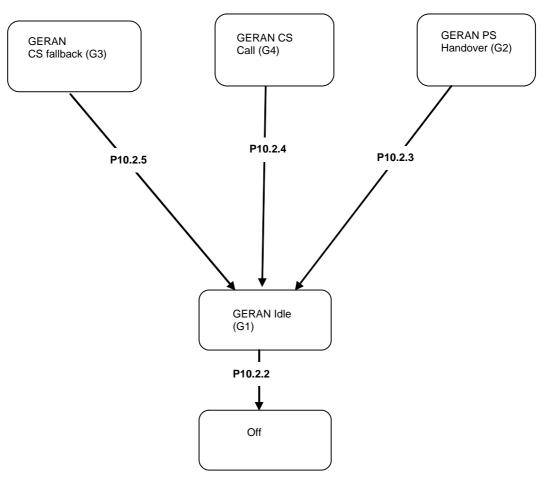


Figure 10.2.1-1: UE postamble procedures for E-UTRA / GERAN test cases

NOTE 1: Depending on the test case specifications the termination of a test case can be in any state of figure 10.2.1-1.

NOTE 2: The security procedures for interworking to GERAN are according to TS 33.401 [24] clauses 10.2.1 and 10.3.1.

# 10.2.2 Switch/Power off procedure

## 10.2.2.1 Procedure

Table 10.2.2.1-1: Switch/Power off procedure

Step	Procedure		Message Sequence
Step		U - S	Message
1	The UE is powered off or switched off, (see ICS)	-	-
-	EXCEPTION: Steps 2a1 to 2c2 specify the behaviour if UE supports pc_SwitchOnOff.	-	-
-	EXCEPTION: Step 2a1 specifies behaviour when the GERAN cell is in (NMO I or NMO II) and UE is in condition C1	-	-
2a1	The UE transmits a DETACH REQUEST message	>	DETACH REQUEST
-	EXCEPTION: Step 2b1 specifies behaviour when the GERAN cell is in (NMO I or NMO II) and UE is in condition C3	-	-
2b1	The UE transmits an IMSI DETACH INDICATION message	>	IMSI DETACH INDICATION
-	EXCEPTION: Steps 2c1 – 2c1A3 and step 2c2 specify behaviour when the GERAN cell is in NMO II and UE is in condition C2. The messages can be sent in any order	-	-
2c1	The UE transmits an IMSI DETACH INDICATION message	>	IMSI DETACH INDICATION
2c1A1	The UE transmits a <i>Classmark Change</i> message	>	CLASSMARK CHANGE
-	EXCEPTION: Steps 2c1A2 and 2cA3 can occur in any order	-	-
2c1A2	IF pc_UTRA THEN the UE transmits a <i>Utran</i> Classmark Change message.	>	UTRAN CLASSMARK CHANGE.
2c1A3	IF UE is still attached for GPRS (step 2c2 has not yet occurred) THEN the UE transmits a GPRS Suspension Request message	>	GPRS SUSPENSION REQUEST
2c2	The UE transmits a DETACH REQUEST message	>	DETACH REQUEST

# 10.2.3 PS Handover procedure

## 10.2.3.1 Procedure

Table 10.2.3.1-1: PS handover procedure

01	Dun and dun a	Message Sequence			
Step	Procedure	U-S	Message		
-	EXCEPTION: Steps 1a1 and 1a3 specify the	-	-		
	UE behaviour when GERAN cell is in NMO I				
	and the UE is in condition C2 and the UE is				
	not registered to the LAC of this cell.				
1a1	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE REQUEST		
	UPDATE REQUEST message with update				
4.0	type='Combined RA/LA Update'.		DOLITING AREA LIBRATE ACCEPT		
1a2	The SS transmits a ROUTING AREA	<	ROUTING AREA UPDATE ACCEPT		
4-0	UPDATE ACCEPT message. The UE transmits a ROUTING AREA				
1a3	UPDATE COMPLETE message.	>	ROUTING AREA UPDATE COMPLETE		
_	EXCEPTION: Steps 1b1 and 1b3 specify the	_			
_	location updating procedure when GERAN	-	-		
	cell is in (NMO I or NMO II) and the UE is in				
	condition C2 and the UE is registered to the				
	LAC of this cell.				
1b1	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE REQUEST		
	UPDATE REQUEST message with update				
	type='RA Update'.				
1b2	The SS transmits a ROUTING AREA	<	ROUTING AREA UPDATE ACCEPT		
	UPDATE ACCEPT message.				
1b3	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE COMPLETE		
	UPDATE COMPLETE message.	>			
-	EXCEPTION: Steps 1c1 and 1c6 specify the	-	-		
	location updating procedure when GERAN				
	cell is in NMO II and the UE is in condition C2				
	and the UE is not registered to the LAC of this				
4 - 4	cell.		DOLITING ADEA LIDDATE DEGLISOT		
1c1	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE REQUEST		
	UPDATE REQUEST message with update				
1c2	type='RA Update'. The SS transmits a ROUTING AREA	<	ROUTING AREA UPDATE ACCEPT		
102	UPDATE ACCEPT message.	\	ROUTING AREA OFDATE ACCEPT		
1c3	The UE transmits a ROUTING AREA		ROUTING AREA UPDATE COMPLETE		
100	UPDATE COMPLETE message.	>	NOOTING AREA OF BATE COMITEETE		
1c4	The UE transmits a LOCATION UPDATING	>	LOCATION UPDATING REQUEST		
	REQUEST message.		Look thore of Branco Regolor		
1c4A1	The UE transmits a Classmark Change	>	CLASSMARK CHANGE		
	message				
-	EXCEPTION: The next step describes	-	-		
	behaviour that depends on UE capability.				
1c4A2	IF pc_UTRA THEN the UE transmits a Utran	>	UTRAN CLASSMARK CHANGE.		
	Classmark Change message.				
1c5	The SS transmits a LOCATION UPDATING	<	LOCATION UPDATING ACCEPT		
	ACCEPT				
1c6	The UE transmits a TMSI REALLOCATION		TMSI REALLOCATION COMPLETE		
	COMPLETE				

## 10.2.4 CC disconnect procedure

#### 10.2.4.1 Procedure

Table 10.2.4.1-1: CC disconnect procedure

Step	Procedure	Message Sequence		
Step		U - S	Message	
1	The SS transmits a DISCONNECT message.	<	DISCONNECT	
2	The UE transmits a RELEASE message.	>	RELEASE	
3	The SS transmits a RELEASE COMPLETE		RELEASE COMPLETE	
	message.	<		
4	The SS transmits a CHANNEL RELEASE		CHANNEL RELEASE	
	message.	<		

## 10.2.5 CS fallback procedure

#### 10.2.5.1 Procedure

Table 10.2.5.1-1: CS fallback procedure MO call

01	Dun and duna		Message Sequence
Step	Procedure	U - S	Message
-	EXCEPTION: Steps 1a1 and 1a2 specify the	-	-
	MO call procedure.		
1a1	The UE transmits a CM SERVICE REQUEST	>	CM SERVICE REQUEST
	message.		
1a2	The SS transmits a CM SERVICE REJECT	<	CM SERVICE REJECT
	with the reject cause #32 (Service option not		
	supported)		
-	EXCEPTION: Step 1b1 specifies the MT call	-	-
	procedure.		
1b1	The UE transmits a PAGING RESPONSE	>	PAGING RESPONSE
	message.		
-	EXCEPTION: Steps 2a1 to 2a6 specify the	-	-
	procedure when GERAN cell is in NMO II and		
	if the UE is in condition C2 and the UE is		
	registered to the LAC of the current GERAN		
0-4	cell.		LOCATION LIDDATING DEGLICOT
2a1	The UE transmits a LOCATION UPDATING	>	LOCATION UPDATING REQUEST
2a1A1	REQUEST message. The UE transmits a Classmark Change		CLASSMARK CHANGE
ZaiAi	message	>	CLASSWARK CHANGE
-	EXCEPTION: The next step describes	_	
_	behaviour that depends on UE capability.	-	-
2a1A2	IF pc_UTRA THEN the UE transmits a <i>Utran</i>	>	UTRAN CLASSMARK CHANGE.
ZaiAZ	Classmark Change message.	>	OTRAN CLASSWARK CHANGE.
2a2	The SS transmits a LOCATION UPDATING	<	LOCATION UPDATING ACCEPT
Zaz	ACCEPT		EGOATION OF DATING ACCEL T
2a3	The UE transmits a TMSI REALLOCATION		TMSI REALLOCATION COMPLETE
	COMPLETE		TWO THE TELES OF T
2a4	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE REQUEST
	UPDATE REQUEST message.		
2a5	The SS transmits a ROUTING AREA	<	ROUTING AREA UPDATE ACCEPT
	UPDATE ACCEPT message.		
2a6	The UE transmits a ROUTING AREA		ROUTING AREA UPDATE COMPLETE
	UPDATE COMPLETE message.	>	
-	EXCEPTION: Steps 2b1 to 2b3 specify the	-	-
	location updating procedure when GERAN		
	cell is in (NMO I or NMO II) and if the UE is in		
	condition C3 and the UE is not registered to		
	the LAC of the current GERAN cell		
2b1	The UE transmits a LOCATION UPDATING	>	LOCATION UPDATING REQUEST

Step	Procedure	Message Sequence		
Step	Frocedure	U - S	Message	
	REQUEST message.			
2b1A1	The UE transmits a Classmark Change	>	CLASSMARK CHANGE	
	message			
-	EXCEPTION: The next step describes	-	-	
	behaviour that depends on UE capability.			
2b1A2	IF pc_UTRA THEN the UE transmits a <i>Utran</i>	>	UTRAN CLASSMARK CHANGE.	
	Classmark Change message.			
2b2	The SS transmits a LOCATION UPDATING	<	LOCATION UPDATING ACCEPT	
	ACCEPT			
2b3	The UE transmits a TMSI REALLOCATION		TMSI REALLOCATION COMPLETE	
	COMPLETE			
-	EXCEPTION: Steps 2c1 to 2c3 specify the	-	-	
	routing area updating procedure when the			
	GERAN cell is in NMO I and the UE is in			
	condition C2and the UE is not registered to			
0.4	the LAC of the current GERAN cell		DOLLTING AREA LIBRATE REQUIEST	
2c1	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE REQUEST	
	UPDATE REQUEST message with update			
0.0	type = 'Combined RA/LA update'.		DOLLTING AREA LIRRATE ACCEPT	
2c2	The SS transmits a ROUTING AREA	<	ROUTING AREA UPDATE ACCEPT	
2-2	UPDATE ACCEPT message.		DOLITING ADEA LIDDATE COMPLETE	
2c3	The UE transmits a ROUTING AREA	>	ROUTING AREA UPDATE COMPLETE	
	UPDATE COMPLETE message.			

## 10.3 Postambles for E-UTRA test cases

This clause describes UE postamble states which can be used in the post condition of E-UTRA test cases defined in TS 36.523-1 [1]. The clause also specifies a set of procedures to bring the UE into these states.

## 10.3.1 UE postamble states and procedures for E-UTRA test cases

In order to bring the UE to switched/powered off state there are some procedures that need to be executed. The identified procedures are shown in figure 10.3.1-1.

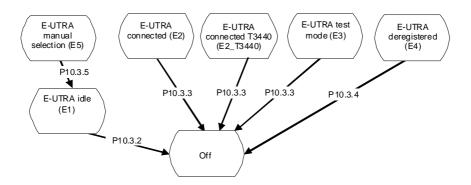


Figure 10.3.1-1: UE postamble states and procedures for E-UTRA

# 10.3.2 Switch/Power off procedure in State E1

## 10.3.2.1 Procedure

Table 10.3.2.1-1: Switch/Power off procedure

04	D		Message Sequence
Step	Procedure	U-S	Message
1	The UE is powered off or switched off, (see ICS)	-	-
-	EXCEPTION: Steps 2a1 to 2a4 specify behaviour if the UE supports pc_SwitchOnOff	-	-
2a1	UE transmits an RRCConnectionRequest message.	>	RRC: RRCConnectionRequest
2a2	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup
-	EXCEPTION: Steps 2a3Aa1 to 2a3Aa6 specify optional behaviour if the UE has previously performed IMS registration	-	-
2a3Aa 1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the IMS signalling procedure by including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST
2a3Aa 2	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand
2a3Aa 3	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete
2a3Aa 4	The SS configures a new data radio bearer, associated with the default EPS bearer context.  The RRCConnectionReconfiguration message is using condition SRB2-DRB(1, 0). The DRB associated with default EPS bearer context obtained during the attach procedure is established	<	RRC: RRCConnectionReconfiguration
	EXCEPTION: In parallel to the event described in step 2a3Aa5 below, the behaviour in TS 34.229-1 [40] Annex C.30 may occur. (IMS de-registration)	-	-
2a3Aa 5	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer context.	>	RRC: RRCConnectionReconfigurationComplet e
2a3Aa 6	The UE initiates the Detach procedure by sending DETACH REQUEST	>	NAS: DETACH REQUEST
	EXCEPTION: Step 2a3Ba1 below specifies the behaviour if the UE has not previously performed IMS registration		
2a3 Ba1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the Detach procedure by including the DETACH REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: DETACH REQUEST
2a4	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE

# 10.3.3 Switch/Power off procedure in State E2 and E3

## 10.3.3.1 Procedure for E2 and E3

Table 10.3.3.1-1: Switch/Power off procedure

Ston	Procedure		Message Sequence
Step	Procedure		Message
-	EXCEPTION: In parallel to the events		
	described in steps 1 to 2a2, the steps		
	described in Table 10.3.3.1-2 may take place		
	if UE supports pc_eMBMS_SC and SIB15 is		
	broadcasted in the cell.		
1	The UE is powered off or switched off (see	-	-
	ICS)		
-	EXCEPTION: Steps 2a1 to 2a2 specify	-	-
	behaviour if the UE supports pc_SwitchOnOff		
-	EXCEPTION: Step 2a1Aa1 to 2a1Aa2 below	-	-
	specifies optional behaviour if the UE has		
	previously performed IMS registration		
2a1Aa	The UE may perform the procedure described	-	-
1 –	in TS 34.229-1 [40] Annex C.30 (IMS de-		
	registration)		
2			
2a1	The UE transmits DETACH REQUEST	>	DETACH REQUEST
2a2	The SS transmits an RRC CONNECTION	<	RRC CONNECTION RELEASE
	RELEASE message		

Table 10.3.3.1-2: Parallel behaviour

St	Procedure	Message Sequence	
		U-S	Message
1	UE transmits a MBMSInterestIndication	>	MBMSInterestIndication
	message.		

## 10.3.3.2 Procedure for E2\_T3440

Table 10.3.3.2-1: RRC release and switch/power off procedure

Cton	Dunnaduun	Message Sequence		
Step	Procedure	U-S	Message	
1	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE	
2	The SS waits for 5s to ensure that the UE goes to RRC_IDLE state.	-		
3	The UE is powered off or switched off (see ICS)	-	-	
-	EXCEPTION: Steps 4a1 to 4a4 specify behaviour if the UE supports pc_SwitchOnOff	-	-	
4a1	UE transmits an RRCConnectionRequest message.	>	RRC: RRCConnectionRequest	
4a2	SS transmit an RRCConnectionSetup message.	<	RRC: RRCConnectionSetup	
-	EXCEPTION: Steps 4a3Aa1 to 4a3Aa6 specify optional behaviour is the UE has previously performed IMS registration	-	-	
4a3Aa 1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the IMS signalling procedure by including the SERVICE REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: SERVICE REQUEST	
4a3Aa 2	The SS transmits a SecurityModeCommand message to activate AS security.	<	RRC: SecurityModeCommand	
4a3Aa 3	The UE transmits a SecurityModeComplete message and establishes the initial security configuration.	>	RRC: SecurityModeComplete	
4a3Aa 4	The SS configures a new data radio bearer, associated with the default EPS bearer context.  The RRCConnectionReconfiguration message is using condition SRB2-DRB(1, 0). The DRB associated with default EPS bearer context obtained during the attach procedure is established	<	RRC: RRCConnectionReconfiguration	
-	EXCEPTION: In parallel to the event described in step 4a3Aa5 below, the behaviour in TS 34.229-1 [40] Annex C.30 may occur. (IMS de-registration)	-	-	
4a3Aa 5	The UE transmits an RRCConnectionReconfigurationComplete message to confirm the establishment of the new data radio bearer, associated with the default EPS bearer context.	>	RRC: RRCConnectionReconfigurationComplet e	
4a3Aa 6	The UE initiates the Detach procedure by sending DETACH REQUEST	>	NAS: DETACH REQUEST	
-	EXCEPTION: Step 4a3Ba1 below specifies the behaviour if the UE has not previously performed IMS registration	-		
4a3 Ba1	The UE transmits an RRCConnectionSetupComplete message to confirm the successful completion of the connection establishment and to initiate the Detach procedure by including the DETACH REQUEST message.	>	RRC: RRCConnectionSetupComplete NAS: DETACH REQUEST	
4a4	The SS transmits an RRC CONNECTION RELEASE message	<	RRC CONNECTION RELEASE	

## 10.3.4 Switch/Power off procedure in State E4

#### 10.3.4.1 Procedure

Table 10.3.4.1-1: Switch/Power off procedure

Step	Procedure	Message Sequence	
Step		U-S	Message
1	The UE is powered off or switched off (see ICS)	-	-

# 10.3.5 Automatic selection mode procedure in State E5 (current cell, neighbour cell)

#### 10.3.5.1 Procedure

Table 10.3.5.1-1: Automatic selection mode procedure

Cton	Procedure	Message Sequence		
Step		U - S	Message	
1	Set UE to Automatic PLMN selection mode.	-	-	
2	The SS configures: - the current cell as a "Non-Suitable Off cell" - the neighbour cell as a "Serving cell"	-	-	
3	Generic test procedure in TS 36.508 subclause 6.4.2.7-1 is performed on the neighbour cell	-	-	
ı	At the end of this test procedure sequence, the UE is in end state E-UTRA idle (E1)	-	-	

## 10.4 Postambles for E-UTRA to HRPD test cases

This clause describes UE postamble states which can be used in the post condition of E-UTRA test cases defined in TS 36.523-1 [1]. The clause also specifies a set of procedures to bring the UE into these states.

# 10.4.1 UE postamble procedures for E-UTRA to HRPD (No Pre-Registration)

#### 10.4.1.1 Registration on HRPD Cell

Table 10.4.1.1: Registration on HRPD Cell procedure

Cton	Procedure		Message Sequence
Step	Procedure	U - S	Message
1	The UE transmits a UATIRequest message.	>	UATIRequest
2	The SS transmits <i>UATIAssignment</i> message	<	UATIAssignment
3	The UE transmits UATIComplete message	>	UATIComplete
4	The UE transmits ConnectionRequest	>	ConnectionRequest
	message.		
5	The SS transmits a TrafficChannelAssignment	<	TrafficChannelAssignment
	message.		
6	The UE transmits <i>TrafficChannelcomplete</i> .	>	TrafficChannelcomplete
7	The UE transmits ConfigurationRequest	>	SCP:ConfigurationRequest
	message for SCP configuration.		
8	The SS transmits a ConfigurationResponse	<	SCP:ConfigurationResponse

Ctor	Dragodina		Message Sequence	
Step	Procedure	U-S	Message	
	message for SCP configuration.			
9	The UE transmits ConfigurationRequest	>	Stream:ConfigurationRequest	
	message for Stream protocol.			
10	The SS transmits a ConfigurationResponse	<	Stream: ConfigurationResponse	
	message for Stream protocol accepting EMPA			
	bound to service network.			
11	The UE transmits EMPA ConfigurationRequest	>	EMPA:ConfigurationRequest	
	message.			
12	The SS transmits an EMPA	<	EMPA: ConfigurationResponse	
	ConfigurationResponse message.			
13	The UE transmits ConfigurationComplete	>	ConfigurationComplete	
	message.			
14	Optionally session negotiation initiated by the	<>	-	
4-5	SS might take place	-		
15	Optionally device level authentication may take	<>	-	
16	place.			
16	Optionally Location Update procedure may take place if the SS is configured to support it.	<>	-	
17	PPP LCP negotiation is performed between			
17	the UE and the SS. EAP-AKA is selected as	<>	-	
	the authentication protocol.			
18	Tunnelled EAP-AKA is performed between the	<>	_	
10	UE and the SS.	\>		
19	The UE transmits VSNCP Configure-Request	>	VSNCP: Configure-Request	
10	message, including a PDN-ID, PDN Type,		Volvor : Coringare request	
	APN, PDN Address with empty content,			
	Protocol Configuration Options, and Attach			
	Type = "handover".			
	The Address Allocation Preference option			
	contained in the Protocol Configuration			
	Options indicates whether the UE wants to			
	perform the IP address allocation during the			
	attach procedure or deferred IPv4 address			
	allocation. PDN Type indicates the UE's IP			
	capability (IPv4, IPv6 or IPv4/v6)			
20	The SS transmits a VSNCP Configure-Ack	<	VSNCP: Configure-Ack	
0.1	message.		LYONOR O. I'. B	
21	The SS transmits a VSNCP Configure-Request	<	VSNCP: Configure-Request	
	message including the PDN-ID configuration			
22	option.	<u> </u>	VSNCP :Configure-Ack	
22	The UE transmits VSNCP Configure-Ack	>	volvor .Comiguie-Ack	
23	message.  Optionally IPv4 address allocation by DHCPv4	<>	_	
23	may occur (depending on the Address	\>		
	Allocation Preference indicated by the UE at			
	Step 19).			
24	Optionally Link global IPv6 address	<>	-	
	configuration by ICMPv6 may occur	` _		
	19). solicitation message.			
	(depending on the Address Allocation Preference indicated by the UE at Step			

#### 10.4.1.2 Detach on HRPD Cell

Table 10.4.1.2: Detach on HRPD Cell procedure

Cton	Procedure	Message Sequence	
Step		U - S	Message
1	The UE transmits PPP:LCP Terminate-	>	LCP:Terminate-Request
	Request		
2	The SS transmits PPP: LCP Terminate-Ack	<	LCP:Terminate-Ack
3	the UE and SS perform Session update to	<>	-
	release the reservations		

## 11 Guidelines on test execution

This clause provides the guidelines on test executions.

The restriction on test case execution as listed in this clause is due to the restriction of bandwidth to accommodate the necessary number of radio frequencies for the specific operating Band as used by the test cases.

## 11.1 EUTRA single technology

This clause provides the guidelines for the test cases to be executed on the pure EUTRA test configuration.

A test case using more than one radio frequency, i.e. using the radio frequencies f2 or f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.6, 6.1.1.7, 6.1.1.8, 6.1.2.7, 6.1.2.8, 6.1.2.9, 6.1.2.11, 6.1.2.13, 6.1.2.15, 6.1.2.17, 6.1.2.18, 6.3.1, 6.3.5, 6.3.6, 6.3.9, 6.4.1, 6.4.2,

 $8.1.3.4, 8.1.3.5, 8.2.2.6.2, 8.2.4.6, 8.3.1.3, 8.3.1.3a, 8.3.1.4, 8.3.1.6, 8.3.1.9, 8.3.1.10, 8.3.1.11, 8.3.1.26, 8.3.1.27, \\8.3.1.31, 8.3.4.2, 8.3.4.3, 8.3.4.5, 8.6.2.2, 8.6.2.3a, 8.6.2.8, 8.6.2.10, 8.6.2.11, 8.6.2.12, 8.6.4.2, 8.6.4.3, 8.6.4.4, \\8.6.4.8, 8.6.4.9, 8.6.4.10, 8.6.6.2, 8.6.6.5, 8.6.6.6, 8.6.6.7, 8.6.8.2, 8.6.8.6,$ 

9.2.1.1.1a, 9.2.1.1.7, 9.2.1.1.13, 9.2.1.1.15, 9.2.1.1.16, 9.2.1.2.1, 9.2.1.2.10, 9.2.1.2.12, 9.2.1.2.14, 9.2.3.2.1, 9.2.3.2.12, 9.2.3.2.15, 9.2.3.2.16,

11.2.6, 11.2.7,

13.4.1.2,

17.4.1, 17.4.2, 17.4.3.

A test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 6,

Band 11.

Band 14,

Band 17 with 5MHz bandwidth,

Band 23 with 10MHz bandwidth,

Band 30,

Band 38,

Band 39

The list containing such test cases is given below:

```
6.1.1.1, 6.1.1.2, 6.1.1.3, 6.1.1.6, 6.1.1.7, 6.1.1.8, 6.1.2.7, 6.1.2.8, 6.1.2.9, 6.1.2.15, 6.3.5
8.1.3.5, 8.3.1.4, 8.6.4.3,
9.2.1.1.1a, 9.2.1.1.7, 9.2.1.1.15,
11.2.7.
```

A test case using more than three radio frequencies, i.e. using the radio frequency f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 12 with 5MHz bandwidth,

Band 19,

Band 20,

Band 21,

Band 27,

Band 34.

The list containing such test cases is given below:

```
6.1.1.1, 6.1.1.2, 6.1.1.6, 6.1.1.8, 9.2.1.1.7.
```

## 11.1.1 Replacement of test case execution

In case of bandwidth limitation for accommodation of more frequencies, a number of test cases can be replaced with the corresponding mirror test cases without affecting the test coverage. The table 11.1.1-1 shows the possible replacements. Only one of the paired test cases is required for execution.

Table 11.1.1-1: Replacement of test cases

Original test case	Replacing test case
6.1.1.1	6.1.1.1b
6.1.1.2	6.1.1.2a
6.1.1.3	6.1.1.3b
6.1.1.6	6.1.1.6a
6.1.2.7	6.1.2.7a
6.1.2.8	6.1.2.8a
6.1.2.9	6.1.2.9a
8.3.1.9	8.3.1.9a
8.3.1.11	8.3.1.11a
9.2.1.1.1a	9.2.1.1.1b
9.2.1.1.7	9.2.1.1.7a
9.2.1.1.13	9.2.1.1.13a
9.2.1.1.15	9.2.1.1.15a
9.2.1.1.16	9.2.1.1.16a

#### 11.2 EUTRA - UTRA - GERAN

This clause contains the guidelines for the EUTRA interRAT test cases to be executed on the different test configurations: with only UTRA configured, with only GERAN configured or with UTRA-GERAN both configured. Whether or not an EUTRA frequency band overlaps the UTRA band, the dependency will affect the restrictions of the test execution on this band.

NOTE: The case where an EUTRA band overlaps a GSM band is not considered.

#### 11.2.1 UTRA configured – GERAN not configured

This clause provides the guidelines for the EUTRA interRAT test cases where UTRA is configured, while GERAN is either not needed or not configured.

#### 11.2.1.1 EUTRA band overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA or EUTRA, UTRA radio frequencies if an E-UTRA band overlaps the UTRA Band. A test case using more than one radio frequency, on the same EUTRA and UTRA band, shall avoid to be executed on operating

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

- 6.2.1.2, 6.2.1.3, 6.2.2.1, 6.2.2.5, 6.2.2.8, 6.2.3.3, 6.2.3.3a, 6.2.3.4, 6.2.3.4a, 6.2.3.5, 6.2.3.5a, 6.2.3.6, 6.2.3.13, 6.2.3.31, 6.2.3.32, 6.2.3.33, 6.2.4.1, 6.2.4.2, 6.2.4.3, 6.2.4.4, 6.2.4.5, 6.2.4.6, 6.2.4.7, 6.3.3, 6.3.4, 6.3.7, 6.4.3, 6.4.4, 6.4.5, 6.4.6,
- 8.1.3.6, 8.1.3.6a, 8.1.3.7, 8.3.2.3, 8.3.2.3a, 8.3.2.4, 8.3.3.2, 8.3.4.4, 8.4.1.2, 8.4.1.4, 8.4.1.5, 8.4.2.2, 8.4.2.4, 8.5.2.1, 8.6.3.1, 8.6.3.4, 8.6.5.1, 8.6.5.1a, 8.6.5.4, 8.6.7.1, 8.6.7.4, 8.6.9.1, 8.6.9.2, 8.6.10.1, 8.7.1,
- $9.2.1.1.11, 9.2.1.1.12, 9.2.1.2.1b, 9.2.1.2.1c, 9.2.1.2.1d, 9.2.1.2.5, 9.2.1.2.8, 9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, \\ 9.2.1.2.15, 9.2.2.1.3, 9.2.2.1.10, 9.2.3.1.6, 9.2.3.1.10, 9.2.3.1.11, 9.2.3.1.12, 9.2.3.1.15, 9.2.3.1.15a, 9.2.3.1.17, \\ 9.2.3.1.18, 9.2.3.1.18a, 9.2.3.2.1a, 9.2.3.2.1b, 9.2.3.2.1c, 9.2.3.2.3, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, \\ 9.2.3.2.9, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14, 9.2.3.3.1, 9.2.3.3.2, 9.2.3.3.3, 9.2.3.3.4, 9.2.3.3.5, 9.2.3.3.5a, 9.3.1.4, \\ 9.3.1.5, 9.3.1.6,$

11.2.10, 11.2.11,

13.1.2, 13.1.2a, 13.1.3, 13.1.4, 13.1.5, 13.1.15, 13.1.16, 13.3.2.1, 13.4.2.1, 13.4.2.4, 13.4.3.1, 13.4.3.2, 13.4.3.4, 13.4.3.6, 13.4.3.7, 13.4.3.8, 13.4.3.9, 13.4.3.10, 13.4.3.11, 13.4.3.13, 13.4.3.14, 13.4.3.15, 13.4.3.16, 13.4.3.18, 13.4.3.19, 13.4.3.20.

A test case using more than two radio frequencies on the same EUTRA and UTRA band shall avoid to be executed on operating:

Band 6,

Band 11,

Band 14,

Band 17 with 5MHz bandwidth,

Band 23 with 10MHz bandwidth,

Band 38,

Band 39.

The list containing such test cases is given below:

```
6.2.1.2, 6.2.1.3,
```

8.6.3.4, 8.6.5.1a, 8.6.7.4,

9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, 9.2.3.1.15, 9.2.3.1.18, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14.

A test case using more than three radio frequencies, on the same EUTRA and UTRA band shall avoid to be executed on operating

Band 12 with 5MHz bandwidth,

Band 19,

Band 20.

Band 21,

Band 27,

Band 34.

The list containing such test cases is given below:

9.2.1.2.13, 9.2.3.2.13.

#### 11.2.1.2 EUTRA band not overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies. A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

```
6.2.1.2, 6.2.1.3,
```

8.6.3.4, 8.6.5.1a, 8.6.7.4,

9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, 9.2.3.1.15, 9.2.3.1.18, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14,

A test case using more than two radio frequencies shall avoid to be executed on E-UTRA operating

Band 6,

Band 11,

Band 14,

Band 17 with 5MHz bandwidth,

Band 23 with 10MHz bandwidth.

Band 30,

Band 38,

Band 39.

The list containing such test cases is given below:

9.2.1.2.13, 9.2.3.2.13.

## 11.2.2 GERAN configured - UTRA not configured

This clause provides the guidelines for the EUTRA/GERAN test cases where UTRA is either not needed or not configured. The restriction on test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18,

Band 31

The list containing such test cases is given below:

```
6.2.1.4, 6.2.3.17, 6.2.3.18,
```

8.3.2.2,

9.2.1.2.9, 9.2.1.2.11, 9.2.1.2.13, 9.2.3.1.15, 9.2.3.1.18, 9.2.3.2.5, 9.2.3.2.6, 9.2.3.2.7, 9.2.3.2.8, 9.2.3.2.11, 9.2.3.2.13, 9.2.3.2.14.

A test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

Band 6,

Band 11,

Band 14,

Band 17 with 5MHz bandwidth,

Band 23 with 10MHz bandwidth,

Band 30,

Band 38,

Band 39

The list containing such test cases is given below:

9.2.1.2.13, 9.2.3.2.13.

## 11.2.3 Neither UTRA nor GERAN configured

Certain EMM test cases can be executed as EUTRA\_Only configuration despite of UTRA or GERAN test branches included in the test cases. The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

```
Band 12 with 10MHz bandwidth,
Band 13,
Band 17 with 10MHz bandwidth,
Band 18,
Band 31.
```

The list containing such test cases is given below:

```
9.2.3.1.15, 9.2.3.1.18.
```

## 11.2.4 Both UTRA and GERAN configured

This clause provides the guidelines for the EUTRA - UTRA - GERAN test cases where three RAT technologies are simultaneously configured.

#### 11.2.4.1 EUTRA band overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the bandwidth of an EUTRA Band accommodating the necessary number of EUTRA or EUTRA, UTRA radio frequencies if an E-UTRA band overlaps the UTRA Band.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

```
Band 12 with 10MHz bandwidth,
Band 13,
Band 17 with 10MHz bandwidth,
Band 18,
Band 31.
```

The list containing such test cases is given below:

```
6.2.1.1, 8.3.2.5, 8.3.2.6,
9.2.1.2.6, 9.2.1.2.7,
11.2.8
```

A test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on operating:

```
Band 6,
Band 11,
Band 14,
Band 17 with 5MHz bandwidth,
Band 23 with 10MHz bandwidth,
Band 38
Band 39
```

The list containing such test cases is given below:

```
6.2.1.1.
```

#### 11.2.4.2 EUTRA band not overlapping UTRA band

The restriction on test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA Band accommodating the necessary number of EUTRA radio frequencies.

A test case using more than one radio frequency shall avoid to be executed on E-UTRA operating

Band 12 with 10MHz bandwidth.

Band 13.

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

6.2.1.1

### 11.2.5 Replacement of test case execution

In case of bandwidth limitation for accommodation of more frequencies, a number of test cases can be replaced with the corresponding mirror test cases without affecting the test coverage. The table 11.2.1.5-1 shows the possible replacements. Only one of the paired test cases is required for execution.

Table 11.2.5-1: Replacement of interRAT test cases

Original test case	Replacing test case
9.2.3.1.15	9.2.3.1.15a
9.2.3.1.18	9.2.3.1.18a

#### 11.3 EUTRA inter-band

The restriction on test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA band accommodating the necessary number of EUTRA radio frequencies. The inter-band test includes also EUTRA FDD-TDD and inter-band carrier aggregation tests.

## 11.3.1 Primary operating band

A test case using more than one radio frequency on the first operating band, shall avoid to be executed on operating

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18.

Band 31.

The list containing such test cases is given below:

6.1.2.15a, 8.1.3.12.

## 11.3.2 Secondary operating band for inter-band cells

Test case using more than one radio frequency, on the second operating band, shall avoid to be executed on operating

Band 12 with 10MHz bandwidth,

Band 13,

Band 17 with 10MHz bandwidth,

Band 18,

Band 31.

The list containing such test cases is given below:

6.1.1.1a, 6.1.1.3a, 6.1.1.4a, 6.1.2.16, 8.1.3.11a, 8.1.3.12b, 8.2.4.13a, 8.2.4.14a, 8.3.1.12a, 8.3.1.14a

### 11.3.3 Replacement of test case execution

In case of bandwidth limitation for accommodation of more frequencies, a number of test cases can be replaced with the corresponding mirror test cases without affecting the test coverage. The table 11.3.3-1 shows the possible replacements. Only one of the paired test cases is required for execution.

Table 11.3.3-1: Replacement of test cases

Original test case	Replacing test case
8.1.3.12	8.1.3.12b

#### 11.4 EUTRA CA

The restriction on CA test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA CA band accommodating the necessary number of EUTRA radio frequencies.

## 11.4.1 CA contiguous Intra-band operation

Test case using more than two radio frequencies, i.e. using the radio frequencies f3 or f4 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA\_23B,

CA\_38C,

CA\_39C.

The list containing such test cases is given below:

8.2.4.19.1, 8.2.4.21.1

## 11.4.2 CA Inter-band operation

Test case using more than one radio frequency on the primary band, i.e. using the radio frequency f2 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA\_8A-11A,

CA\_12A-25A,

CA\_12A-30A,

CA 18A-28A,

CA\_19A-21A,

CA\_19A-42A,

CA\_19A-42C,

and on E-UTRA CA switched configuration
_
CA_1A-18A,
CA_1A-19A,
CA_1A-21A,
CA_2A-12A,
CA_2A-13A,
CA_2A-17A,
CA_2A-29A,
CA_2A-30A,
CA_3A-19A,
CA_4A-12A,
CA_4A-13A,
CA_4A-17A,
CA_4A-29A,
CA_4A-30A,
CA_5A-12A,
CA_5A-13A,
CA_5A-17A,
CA_5A-30A,
CA_7A-12A,
CA_8A-11A,
CA_11A-18A,
CA_12A-30A,
CA_19A-21A,

The list containing such test cases is given below:

8.2.4.19.2

CA\_29A-30A

Test case using more than one radio frequency on the primary band, i.e. using the radio frequency f2 or f6 (depending upon the Cell being used) specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA\_8A-11A,
CA\_19A-21A,
CA\_12A\_30A
and on E-UTRA CA switched configuration
CA\_8A-11A,
CA\_19A-21A,

CA\_12A\_30A,

CA 29A-30A

The list containing such test cases is given below:

8.2.4.21.2

These test cases can be run with switched allocation of PCell and SCell as specified in TS 36.508 [3] clause 6.2.3.2 (NOTE 3 and 4).

The following test cases are not applicable to be run when executed in the band combinations CA\_2A-29A and CA\_4A-29A, CA\_20A-32A, CA\_23A-29A, CA\_20A-67A and on E-UTRA CA switched configuration CA\_29A-30A:

7.1.2.10.2,

7.1.2.11.2,

7.1.4.20.2,

8.2.2.7.2.

8.2.4.17.2,

8.2.4.20.2,

8.2.4.23.2,

8.3.1.17.2,

8.3.1.18.2

The 3DL CA test cases can be run on 3CCs FDD-TDD band combinations, they are using more than one radio frequency on the primary band, i.e. using the radio frequency f2 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA\_19A-42C

The list containing such test cases is given below:

7.1.2.11.4

## 11.4.3 CA non-contiguous Intra-band operation

Test case using more than two radio frequencies, i.e. using the radio frequencies f3 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA CA Configuration:

CA\_23A-23A

The list containing such test cases is given below:

8.2.4.19.3

8.2.4.21.3

#### 11.5 EUTRA MFBI

The following EUTRA MFBI test cases shall be executed using the combinations specified in Table 11.5-1 for px\_OverlappingNotSupportedFrequencyBand\_MFBI and px\_MFBI\_FrequencyBand:

6.1.2.19, 6.1.2.20, 6.1.2.21, 6.2.3.34, 6.2.3.35

Table 11.5-1: Operating and MFBI EUTRA bands combinations

px_OverlappingNotS upportedFrequencyB and_MFBI	px_MFBI_FrequencyBand (Note)
2	25
3	9
4	10
5	18, 19, 26
9	3
10	4
12	17
17	12
18	5, 26, 27
19	5, 26
25	2
26	5, 18, 19, 27
27	18, 26
33	39
38	41
39	33
41	38

Note: The UE supports one or more of the listed MFBI bands and does not support at least one overlapping band. If the UE supports all overlapping bands, these test cases are not applicable.

Test case 6.1.2.20 is not applicable to be run when executed in the band combination 5 & 18.

For test case 6.2.3.34 additionally the UTRA band combinations specified in Table 11.5-2 for px\_UTRAN\_OverlappingNotSupportedFrequencyBandMFBI and px\_MFBI\_UTRAN\_FrequencyBand shall also be applicable

Table 11.5-2: Operating and MFBI UTRA bands combinations

px_UTRAN_Overlapp ingNotSupportedFre quencyBandMFBI	px_MFBI_UTRAN_FrequencyBand (Note)
2	25
3	9
4	10
5	18, 19, 26
9	3
10	4
18	5, 26
19	5, 26
25	2
26	5, 18, 19
NI ( TI LIE (	COLUMBIA INCLUMENTALIA COLUMBIA

Note: The UE supports one or more of the listed MFBI bands and does not support at least one overlapping band. If the UE supports all overlapping bands, these test cases are not applicable.

### 11.6 EUTRA DC

The restriction on DC test case execution as listed in this clause is due to the restriction of bandwidth of an EUTRA DC band accommodating the necessary number of EUTRA radio frequencies.

Test case using more than one radio frequency on the primary band, i.e. using the radio frequency f2 specified in TS 36.508 [3], shall avoid to be executed on E-UTRA DC inter-band configuration:

DC\_19A-21A,

and on E-UTRA DC switched configuration

DC\_1A-19A,

DC\_1A-21A,

DC\_2A-13A,

DC\_3A-19A,

DC\_4A-12A,

DC\_4A-13A,

DC\_4A-17A,

DC\_5A-12A,

DC\_19A-21A

The list containing such test cases is given below:

8.2.4.25.1, 8.2.4.25.2, 8.2.4.25.3

# Annex A (normative): Test Suites

This annex contains the approved TTCN Test Suites. The test suites have been produced using the Testing and Test Control Notation version 3 (TTCN3) according to ES 201 873-1 [13].

# A.1 Baseline of specifications

Table A.1 shows the baseline of the relevant cores specifications and the test specifications which the delivered TTCN test suites are referred to.

Table A.1: References of the test and Core specifications

Core specifications	TS 36.331 [19]
baseline	TS 24.301 [21]
Test specifications	TS 36.508 [3]
	TS 36.509 [4]
	TS 36.523-1 [1]
	TS 36.523-2 [2]

### A.2 E-UTRA Test Suites

Table A.2 lists all approved test cases.

For a given test case, the following variants are distinguished (if applicable):

- FDD: E-UTRA FDD mode; and UTRA FDD mode in case the test case is Inter-RAT with UTRA cell(s).
- TDD: E-UTRA TDD mode; and UTRA TDD mode in case the test case is Inter-RAT with UTRA cell(s).
- T/F: E-UTRA TDD mode and UTRA FDD mode; only applicable to Inter-RAT test cases with UTRA cell(s).

An "X" in columns FDD, TDD or T/F indicates the test case is approved for the respective variant.

An "-" in columns FDD, TDD or T/F indicates the test case is not applicable to the respective variant.

Table A.2: E-UTRA/EPS TTCN test cases

Test case	Description	FDD	TDD	T/F
6.1.1.1	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN/Automatic mode	Х	Χ	-
6.1.1.1a	PLMN selection / Automatic mode / between FDD and TDD	Χ	Χ	-
6.1.1.1b	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode /	Х	Χ	-
	Single Frequency operation			
6.1.1.2	PLMN selection of "Other PLMN/access technology combinations" / Automatic mode	Χ	Χ	-
6.1.1.2a	PLMN selection of "Other PLMN/access technology combinations" / Automatic mode /	Х	Χ	-
	Single Frequency operation			
6.1.1.3	Cell reselection of ePLMN in manual mode	Χ	Χ	-
6.1.1.3a	Cell reselection of ePLMN in manual mode / between FDD and TDD	Х	Χ	-
6.1.1.3b	Cell reselection of ePLMN in manual mode / Single Frequency operation	Х	Χ	-
6.1.1.4	PLMN selection in shared network environment / Automatic mode	Х	Χ	-
6.1.1.4a	PLMN selection in shared network environment / Automatic mode / between FDD and TDD	Х	Χ	-
6.1.1.6	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode /	Х	Χ	-
	User reselection			
	PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode /	Х	Χ	-
	User reselection / Single Frequency operation			
6.1.1.7	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer	Χ	Χ	-
6.1.1.7a	PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer / Single Frequency	Χ	Χ	-

Test case		FDD	TDD	T/F
0.4.4.0	operation			
6.1.1.8	PLMN selection of RPLMN or (E)HPLMN / Automatic mode	X	X	-
6.1.1.9	PLMN selection of RPLMN or (E)HPLMN; Manual mode	X		-
6.1.2.2	Cell selection, Qrxlevmin	X	X	-
6.1.2.2a	Cell selection / Qqualmin	X	X	-
6.1.2.3	Cell selection/Intra E-UTRAN/Serving cell becomes non-suitable (S<0 or barred)	X	X	-
6.1.2.3a	Cell selection / Intra E-UTRAN / Serving cell becomes non-suitable (Srxlev > 0 and Squal <0)	Х	Х	-
6.1.2.4	Cell reselection	Х	Х	
6.1.2.5	Cell reselection  Cell reselection for inter-band operation	X	X	
6.1.2.6	Cell reselection using Qhyst, Qoffset and Treselection	X	X	-
6.1.2.7	Cell reselection/Equivalent PLMN	X	X	
6.1.2.7 6.1.2.7a	Cell reselection / Equivalent PLMN / Single Frequency operation	X	X	
6.1.2.7 <i>a</i>		X	X	-
	Cell reselection using cell status and cell reservations/Access control class 0 to 9	X	X	
6.1.2.8a	Cell reselection using cell status and cell reservations / Access control class 0 to 9 / Single Frequency operation	_ ^	^	-
6.1.2.9	Cell reselection using cell status and cell reservations/Access control class 11 to15	Х	Х	-
6.1.2.9 6.1.2.9a	Cell reselection using cell status and cell reservations / Access control class 11 to 15 /	X	X	-
0.1.2.9a	Single Frequency operation	^	^	_
6.1.2.10	Cell reselection in shared network environment	Х	Χ	_
6.1.2.11	Inter-frequency cell reselection	X	X	_
6.1.2.12	Cell reselection / Cell-specific reselection parameters provided by the network in a	X	X	
0.1.2.12	neighbouring cell list	_ ^	^	_
6.1.2.13	Cell re-selection, Sintrasearch, Snonintrasearch	Х	Χ	_
6.1.2.14	Speed-dependent cell reselection	X	X	-
6.1.2.15	Inter-frequency cell reselection according to cell reselection priority provided by SIBs	X	X	-
6.1.2.15a	Inter-frequency cell reselection according to cell reselection priority provided by SIBs /	X	X	
0.1.2.13a	Between FDD and TDD	_ ^	^	_
6.1.2.15b	Inter-band cell reselection according to cell reselection priority provided by SIBs	Х	Χ	-
6.1.2.16	Cell reselection / interband operation / Between FDD and TDD	X	X	-
6.1.2.17	Cell reselection for Squal to check against SIntraSearchQ and SnonIntraSearchQ	X	X	-
6.1.2.18	Inter-frequency cell reselection based on common priority information with parameters	X	X	_
0.1.2.10	ThreshX, HighQ, ThreshX, LowQ and ThreshServing, LowQ	_ ^	^	_
6.1.2.19	Intra-frequency cell reselection / MFBI	Х	Χ	-
6.1.2.20	Inter-frequency cell reselection / MFBI	X	X	_
6.1.2.21	Inter-band cell reselection / MFBI	X	X	_
6.1.2.22	Cell reselection / MFBI / UE does not support multiBandInfoList	X		-
6.2.1.1	Inter-RAT PLMN selection / Selection of correct RAT for OPLMN / Automatic mode	X	Х	X
6.2.1.2	Inter-RAT PLMN selection / Selection of correct RAT for UPLMN / Automatic mode	X	X	X
6.2.1.3	Inter-RAT PLMN selection / Selection of correct PLMN and RAT in shared network	X	X	X
0.2.1.3	environment / Automatic mode	_ ^	^	^
6.2.1.4	Inter-RAT PLMN selection / Selection of correct RAT from the OPLMN list / Manual mode	Х	X	_
6.2.1.6	Inter-RAT background HPLMN search / Search for correct RAT for HPLMN / Automatic	X	X	
0.2.1.0	Imode		^	
6.2.2.1	Inter-RAT cell selection/From E-UTRA RRC_IDLE to UTRA_Idle/Serving cell becomes non-	Х	Х	Χ
	suitable		, ,	, ,
6.2.2.2	Inter-RAT cell selection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_idle /	Х	Χ	-
	Serving cell becomes non-suitable			
6.2.2.3	Inter-RAT cell selection / From E-UTRA RRC_IDLE to HRPD Idle / Serving cell becomes	Х	Х	-
	non-suitable			
6.2.2.4	Inter-RAT cell selection / From E-UTRA RRC_IDLE to 1xRTT Dormant / Serving cell	Х	Χ	-
	becomes non-suitable			
6.2.2.5	Cell selection / No USIM	Х	Х	Х
6.2.2.6	Inter-RAT Cell selection / From GSM_Idle/GPRS Packet_idle to E-UTRA RRC_IDLE /	Х	Χ	-
	Serving cell becomes non-suitable			
6.2.2.7	Inter-RAT Cell selection / From GSM_Idle/GPRS Packet_idle to E-UTRA RRC_IDLE /	Х	Χ	-
	Serving cell is barred			
6.2.2.8	Inter-RAT cell selection / From UTRA_Idle to E-UTRA RRC_IDLE / Serving cell becomes	Х	Χ	Х
	non-suitable	<u></u>		
6.2.3.1	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_Idle	Х	X	•
6.2.3.1a	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to GSM_Idle/GPRS Packet_Idle	Х	Х	-
1	(Squal < ThreshServing, LowQ, Srxlev > ThreshX, LowP and Srxlev > ThreshX, HighP)	L		
		т		1/
6.2.3.3	Inter-RAT cell reselection/From UTRA_Idle to E-UTRA RRC_IDLE	X	Χ	Χ

Test case	Description	FDD	TDD	T/F
	SqualServingCell < Threshserving,low2, SqualnonServingCell,x > Threshx, low2 and SqualnonServingCell,x > Threshx, high2)			I
6.2.3.4	Inter-RAT cell reselection / From UTRA CELL_PCH state to E-UTRA RRC_IDLE	Χ	Χ	Χ
6.2.3.4a	Inter-RAT cell reselection / From UTRA_CELL_PCH state to E-UTRA RRC_IDLE based on RSRQ+RSRP evaluation	Х	Х	X
6.2.3.5	Inter-RAT cell reselection/From E-UTRA RRC_IDLE to UTRA_Idle	Х	Χ	Χ
6.2.3.5a	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle (Squal > ThreshX, HighQ, Squal < ThreshServing, LowQ, Squal > ThreshX, LowQ and SnonIntraSearchQ)	Х		-
6.2.3.6	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle according to RAT priority provided by dedicated signalling	Х	Х	Х
6.2.3.7	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher reselection priority than E-UTRA	Х	Х	-
6.2.3.7a	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is higher reselection priority than E-UTRA (Srxlev > ThreshX, HighP)	Х	Χ	-
6.2.3.8	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower reselection priority than E-UTRA	Х	Χ	-
6.2.3.8a	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to HRPD Idle / HRPD cell is lower reselection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, LowP)	Х	Х	-
6.2.3.9	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is higher reselection priority than E-UTRA	Х	Х	-
6.2.3.9a	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is higher reselection priority than E-UTRA (Srxlev > ThreshX, HighP)	Х	Х	1
6.2.3.10	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is lower reselection priority than E-UTRA	Х	Х	ı
6.2.3.10a	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to 1xRTT Dormant / 1xRTT cell is lower reselection priority than E-UTRA (Squal < ThreshServing, LowQ and Srxlev > ThreshX, LowP)	X	Χ	•
6.2.3.13	Inter-RAT cell reselection / From UTRA_Idle to E-UTRA RRC_IDLE according to RAT priority provided by dedicated signalling	Х	Х	Χ
6.2.3.14	Inter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Priority of E-UTRA cells are higher than the serving cell	Х	Х	1
6.2.3.15	Inter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Priority of E-UTRA cells are lower than the serving cell	Х	Х	-
6.2.3.16	Inter-RAT cell reselection / From GSM_Idle to E-UTRAN /based on H_PRIO criteria	X	Χ	-
6.2.3.17	Inter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Priority E-UTRA cells	Х	Х	-
6.2.3.18	Inter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA / Blacklisted E-UTRA cells	Х	Х	-
6.2.3.19	Inter-RAT cell redirection to E-UTRA cell from GSM TCH mode	Х	X	-
6.2.3.21 6.2.3.23	Inter-RAT autonomous cell reselection GPRS Packet_transfer NC0 mode to E-UTRA Inter-RAT cell reselection from GPRS Packet_transfer to E-UTRA in CCN mode / PACKET	X	X	-
6.2.3.24	CELL CHANGE CONTINUE  Inter-RAT cell reselection from GPRS Packet_transfer to E-UTRA in CCN mode / PACKET CELL CHANGE ORDER	Х	Х	-
6.2.3.26	Inter-RAT autonomous cell reselection GPRS Packet_transfer NC1 mode to E-UTRA Cell	Х	Х	-
6.2.3.27	Inter-RAT cell selection from GPRS Packet_transfer to E-UTRA (NC2 mode)	Χ	X	-
6.2.3.28	Inter-RAT cell reselection from GPRS Packet_transfer to E-UTRA	Χ	Χ	-
6.2.3.29	Inter-RAT Cell Reselection from GPRS Packet_transfer NC1 mode to E-UTRA in CCN mode (PACKET MEASUREMENT ORDER)	Х	Х	-
6.2.3.31	Inter-RAT cell reselection / From UTRA_Idle (low priority) to E-UTRA RRC_IDLE (high priority) according to RAT priority provided by dedicated signalling	Х	Х	Х
6.2.3.32	Inter-RAT cell re-selection / From E-UTRA RRC_IDLE to UTRA_Idle, Snonintrasearch	X	Χ	Χ
6.2.3.33	Inter-RAT cell reselection / From E-UTRA RRC_IDLE to UTRA_Idle / Squal based cell reselection parameters are broadcasted in E-UTRAN / UE does not support Squal based cell reselection in UTRAN	X	Χ	Х
6.2.3.35	Inter-RAT cell reselection from UTRA to E-UTRA / MFBI	Х		
6.2.4.1	Inter-RAT absolute priority based reselection in UTRA CELL_FACH to E-UTRA RRC_IDLE (Higher Priority Layers, Srxlev,x > Threshx,high and Srxlev,serv > Sprioritysearch1 and SqualServ >	Х	-	Х
6.2.4.2	Sprioritysearch2) Inter-RAT absolute priority based reselection in UTRA CELL_FACH (Higher Priority Layers, no cell reselection to E-UTRA RRC_IDLE when Srxlev,serv < Sprioritysearch1)	Х	-	Х
6.2.4.3	Inter-RAT absolute priority based reselection in UTRA CELL_FACH to E-UTRA RRC_IDLE (Higher Priority Layers, Squal,x > Threshx,high2 and Srxlev,serv > Sprioritysearch1 and SqualServ > Sprioritysearch2)	Х	-	Х
6.2.4.4	Inter-RAT absolute priority based reselection in UTRA CELL_FACH (lower priority) to E-UTRA	Χ	-	Χ

Test case		FDD	TDD	T/F
	RRC_IDLE (higher priority) (All Layers, Srxlev,x > Threshx,high)			
6.2.4.5	Inter-RAT absolute priority based reselection in UTRA CELL_FACH (lower priority) to E-UTRA RRC_IDLE (higher priority) (All Layers, Squal,x >ThreshX,high2)	Х	1	Х
6.2.4.6	Inter-RAT absolute priority based reselection in UTRA CELL_FACH (higher priority) to E-UTRA RRC_IDLE (lower priority) (All Layers, Srxlev,serv < Sprioritysearch1, Srxlev,serv < Thresh serv,low and Srxlev,x > ThreshX,low)	X	ı	Х
6.2.4.7	Inter-RAT absolute priority based reselection in UTRA CELL_FACH (higher priority) to E-UTRA RRC_IDLE (lower priority) (All Layers, Srxlev,serv < Sprioritysearch1 , Squal,serv <thresh &&="" serv,low2="" squal,x=""> ThreshX,low2)</thresh>	Х	-	Х
6.3.1	Inter-frequency cell reselection / From E-UTRA RRC_IDLE non-CSG cell to E-UTRA RRC_IDLE CSG cell	Х	Х	
6.3.3	Inter-RAT cell reselection / From UTRA_Idle to E-UTRA RRC_IDLE CSG cell	Х	Х	Х
6.3.4	Inter-RAT cell reselection / From UTRA CELL_PCH state to E-UTRA RRC_IDLE CSG cell	Х		
6.3.5	Manual support for CSG ID selection	Х	Х	-
6.3.6	Ignoring CSG cells in cell selection/reselection when allowed CSG list is empty or not supported	Х	Х	-
6.3.7	Inter-RAT Cell reselection from E-UTRA idle non-CSG cell to a UTRA CSG cell	Х	Χ	Χ
6.3.9	Manual CSG ID selection across PLMNs	X	X	-
6.4.1	Manual CSG ID selection / Hybrid cell whose CSG ID is not in the Allowed CSG list nor Operator's list	Х	Х	-
6.4.2	Inter-frequency cell reselection / From E-UTRA RRC_IDLE non-CSG cell to E-UTRA RRC_IDLE member hybrid cell	Х	Х	-
6.4.3	Inter-RAT cell reselection / From E-UTRA RRC_IDLE non-CSG cell to UTRA_Idle member hybrid cell	Х	Х	Х
6.4.4	Inter-RAT cell reselection / From E-UTRA RRC_IDLE non-member hybrid cell to UTRA_Idle member hybrid cell	Х		Х
6.4.5	Inter-RAT cell reselection / From UTRA_Idle to E-UTRA RRC_IDLE member hybrid cell	Χ	Χ	Х
6.4.6	Inter-RAT cell reselection / From UTRA CELL_PCH to E-UTRA RRC_IDLE member hybrid cell	X		
6.4.7	Inter-RAT cell reselection / From GSM_Idle/GPRS Packet_Idle to E-UTRA RRC_IDLE member hybrid cell	Х		-
7.1.1.1	CCCH mapped to UL SCH/ DL-SCH/Reserved LCID (Logical Channel ID)	Χ	Х	_
7.1.1.2	DTCH or DCCH mapped to UL SCH/ DL-SCH/Reserved Logical Channel ID	X	X	-
7.1.2.1	Correct selection of RACH parameters/Random access preamble and PRACH resource explicitly signalled to the UE by RRC/Non-contention based random access procedure	X	X	-
7.1.2.2	Correct selection of RACH parameters/Random access preamble and PRACH resource explicitly signalled to the UE in PDCCH Order/Non-contention based random access procedure	Х	Х	-
7.1.2.3	Correct selection of RACH parameters/Preamble selected by MAC itself/Contention based random access procedure	Х	Х	-
7.1.2.4	Random access procedure/Successful	Х	Х	-
7.1.2.5	Random access procedure/MAC PDU containing multiple RARs	Х	Χ	-
7.1.2.6	Maintenance of uplink time alignment	Х	Х	-
7.1.2.7	MAC contention resolution/Temporary C-RNTI	Χ	Χ	-
7.1.2.8	MAC contention resolution/C-RNTI	Χ	Χ	-
7.1.2.9	MAC backoff indicator	Χ	Χ	-
7.1.2.10.1	CA / Random access procedure / SCell / Intra-band Contiguous CA	Х	Χ	•
7.1.2.10.2	CA / Random access procedure / SCell / Inter-band CA	Χ		-
7.1.2.10.3	CA / Random access procedure / SCell / Intra-band non-contiguous CA	Χ		
7.1.2.11.2	CA / Maintenance of uplink time alignment / Multiple TA / Inter-band CA	Χ	Χ	-
7.1.3.1	Correct handling of DL assignment/Dynamic case	X	Χ	
7.1.3.2	Correct handling of DL assignment / Semi-persistent case	X	Х	-
7.1.3.3	MAC PDU header handling	Χ	Χ	-
7.1.3.4	Correct HARQ process handling/DCCH and DTCH	Х	Х	•
7.1.3.5	Correct HARQ process handling/CCCH	Х	Χ	-
7.1.3.6	Correct HARQ process handling/BCCH	Χ	Χ	•
7.1.3.7	MAC padding	Х	Х	-
7.1.3.9	MAC reset DL	Χ	Х	-
7.1.3.11.1	CA / Correct HARQ process handling / DCCH and DTCH / P cell and Scell / Intra-band Contiguous CA	Х	X	•
7.1.3.11.2	CA / Correct HARQ process handling / DCCH and DTCH / P cell and Scell / Inter-band CA	Х	Х	-
7.1.3.11.3	CA / Correct HARQ process handling / DCCH and DTCH / P cell and Scell / Intra-band non-Contiguous CA	Х		-
7.1.3.12	TDD additional special subframe configuration / Special subframe pattern 9 with Normal Cyclic Prefix / CRS based transmission scheme	1	Х	1

Test case		FDD	TDD	T/F
7.1.3.12a	TDD additional special subframe configuration / Special subframe pattern 7 with Extended Cyclic Prefix	-	Χ	-
7.1.3.13	/ CRS based transmission scheme  TDD additional special subframe configuration / Special subframe pattern 9 with Normal	-	X	-
7.1.3.13a	Cyclic Prefix / UE-specific reference signals based transmission scheme  TDD additional special subframe configuration / Special subframe pattern 7 with Extended Cyclic Prefix	-	Х	-
7.1.4.1	/ UE-specific reference signals based transmission scheme  Correct handling of UL assignment/Dynamic case	Х	Х	_
7.1.4.2	Correct handling of UL assignment / Semi-persistent case	X	X	-
7.1.4.3	Logical channel prioritization handling	X	X	-
7.1.4.4	Correct handling of MAC control information/Scheduling requests and PUCCH	Х	Х	-
7.1.4.5	Correct handling of MAC control information/Scheduling requests and random access procedure	Х	Χ	-
7.1.4.6	Correct handling of MAC control information/Buffer status/UL data arrive in the UE Tx buffer and retransmission of BSR/Regular BSR	Χ	Χ	-
7.1.4.7	Correct handling of MAC control information/Buffer Status/UL resources are allocated/Padding BSR	Х	Χ	-
7.1.4.7a	Correct handling of MAC control information / Buffer Status / UL resources are allocated / Cancellation of Padding BSR	Х	Χ	-
7.1.4.8	Correct handling of MAC control information/Buffer status/Periodic BSR timer expires	Х	Х	-
7.1.4.10	MAC padding	Х	Х	-
7.1.4.11	Correct HARQ process handling	Χ	X	-
7.1.4.12	MAC reset UL	Χ	Χ	-
7.1.4.13	MAC PDU header handling	Χ	Х	-
7.1.4.14	Correct HARQ process handling / TTI bundling	Χ	Χ	-
7.1.4.15	UE power headroom reporting/Periodic reporting	Χ	Χ	-
7.1.4.16	UE power headroom Reporting/DL pathloss change reporting	Χ	Χ	-
7.1.4.18	CA / Correct handling of MAC control information / Buffer Status / UL data arrive in the UE Tx buffer / Extended buffer size	Х	Х	-
7.1.4.19.1	CA / UE power headroom reporting / SCell activation and DL pathloss change reporting / Extended PHR / Intra-band Contiguous	Х	Χ	-
7.1.4.19.2	CA / UE power headroom reporting / SCell activation and DL pathloss change reporting / Extended PHR / Inter-band CA	Χ	Χ	-
7.1.4.20.1	CA / Correct handling of MAC control information / Buffer status / Intra-band Contiguous CA	Χ	Χ	-
7.1.4.20.2	CA / Correct handling of MAC control information / Buffer status / Inter-band CA	Χ	Χ	-
7.1.4.20.3	CA / Correct handling of MAC control information / Buffer status / Intra-band non- Contiguous CA	Х		-
7.1.4.21	CA / UE power headroom reporting / Extended PHR	Χ	Χ	-
7.1.5.1	Inter-TTI PUSCH hopping by uplink grant	Χ	Χ	-
7.1.5.2	Predefined intra-TTI PUSCH hopping (N_sb=1)	Χ	Χ	-
7.1.5.3	Predefined intra-TTI PUSCH hopping (N_sb=2/3/4)	Χ	Χ	-
7.1.5.4	Predefined inter-TTI PUSCH hopping (N_sb=1)	Χ	Χ	-
7.1.5.5	Predefined inter-TTI PUSCH hopping (N_sb=2/3/4)	Χ	Χ	-
7.1.6.1	DRX operation/Short cycle not configured/Parameters configured by RRC	Χ	Χ	-
7.1.6.2	DRX operation/Short cycle not configured/DRX command MAC control element reception	Χ	Χ	-
7.1.6.3	DRX operation / Short cycle configured / Parameters configured by RRC	X	X	-
7.1.6.4	DRX Operation / Short cycle configured / DRX command MAC control element reception	X	X	-
7.1.7.1.1	DL-SCH transport block size selection/DCI format 1/RA type 0	X	X	-
7.1.7.1.2	DL-SCH transport block size selection/DCI format 1/RA type 1	X	X	-
7.1.7.1.3	DL-SCH transport block size selection/DCI format 1A/RA type 2/Localised VRB	X	X	-
7.1.7.1.4 7.1.7.1.5	DL-SCH transport block size selection/DCI format 1A/RA type 2/Distributed VRB DL-SCH transport block size selection / DCI format 2A / RA type 0 / Two transport blocks	X	X	-
7.1.7.1.6	enabled / Transport block to codeword swap flag value set to 0  DL-SCH transport block size selection / DCI format 2A / RA type 1/ Two transport blocks	Х	Χ	-
1	enabled / Transport block to codeword swap flag value set to 1  UL-SCH transport block size selection/DCI format 0	· ·	V	
7 4 7 0 4	IUL-SCH transport block size selection/DCI format ()	Χ	Χ	-
7.1.7.2.1		\ <u>'</u>	· · ·	-
7.1.8.1	Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4	X	X	
7.1.8.1 7.1.9.1.1	Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4 CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Intra-band Contiguous CA	Χ	Х	-
7.1.8.1 7.1.9.1.1 7.1.9.1.2	Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4 CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Intra-band Contiguous CA CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Inter-band CA	X	X	
7.1.8.1 7.1.9.1.1	Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4  CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Intra-band Contiguous CA  CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Inter-band CA  CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer / Intra-band non-Contiguous CA	X X	X	
7.1.8.1 7.1.9.1.1 7.1.9.1.2	Periodic RI reporting using PUCCH / Category 1 UE / Transmission mode 3/4 CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Intra-band Contiguous CA CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer/ Inter-band CA CA / Activation/Deactivation of SCells / Activation/Deactivation MAC control element	X	X	-

T.2.2.1 UM RLC/Segmentation and reassembly/10-bit SN/Framing info field	Test case	Description	FDD	TDD	T/F
Value   Valu	7.2.2.1		Х	Х	-
Value	7.2.2.2		Χ	Χ	-
Value	7.2.2.3		Х		-
P.   P.   P.   P.   P.   P.   P.   P.	7.2.2.4				-
Proceedings   Proceedings   Process   Proces					-
Value   Valu				X	-
Variable				X	-
PDUs/Maximum re-ordering delay below (Reordering					
Value   Valu	7 .2.2.7		^	^	1
PDUS/Maximum re-ordering delay exceeds t-Reordering  7.2.9.9 IM RLC/In sequence delivery of upper layer PDUs with residual loss of RLC  7.2.10 IM RLC/RLC re-establishment procedure  7.2.2.11 UM RLC/RLC re-establishment procedure  7.2.3.11 AM RLC/Concatenation and reassembly/ With residual loss of RLC  7.2.3.11 AM RLC/Segmentation and reassembly/ Praining info field  7.2.3.2 AM RLC/Segmentation and reassembly/ Praining info field  7.2.3.3 AM RLC/Segmentation and reassembly/ Praining info field  7.2.3.4 AM RLC/Segmentation and reassembly/ Praining info field  7.2.3.5 AM RLC/Segmentation and reassembly/ Praining info field  7.2.3.6 AM RLC/Segmentation and reassembly/ Praining info field  7.2.3.7 AM RLC/Segmentation and reassembly/ Praining info field  7.2.3.8 AM RLC/Segmentation and reassembly/ Uniferent numbers of length indicators  7.2.3.9 AM RLC/Corortol of transmit window  7.2.3.9 AM RLC/Corortol of receive window  7.2.3.9 AM RLC/Corortol of receive window  7.2.3.10 AM RLC/Corortol of receive window  7.2.3.10 AM RLC/Corortol of receive window  7.2.3.11 AM RLC/Reconfiguration of RLC parameters by upper layers  7.2.3.12 AM RLC/Reconfiguration of RLC parameters by upper layers  7.2.3.13 AM RLC/Reconfiguration of RLC parameters by upper layers  7.2.3.14 AM RLC/Re-ordering of RLC PDU segments  7.2.3.15 AM RLC/Re-ordering of RLC PDU segments  7.2.3.16 AM RLC/Re-ordering of RLC PDU segments  7.2.3.17 AM RLC/Resementation RLC PDU segments  8.3.3.4 AM RLC/Resementation RLC PDU segments  9.3.3.4 AM RLC/Resementation RLC PDU segments  9.3.3.4 AM RLC/Resementation RLC PDU segments  9.3.3.4 AM RLC/Resementation RLC PDU segments  9.3.3.5 AM RLC/Resementation RLC PDU segments  9.3.3.1 AM RLC/Resementation RLC PDU segments  9.3.3.1 AM RLC/Resementation RLC PDU segments  9.3.3.2 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 36 X X Correct and Last Segment Plag fields  9.3.3.3 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 36 X X Correct Populary Proce	7.2.2.8		X	Х	-
Value   Valu			, ,	, ,	1
PDUs/Maximum re-ordering delay exceeds 1-Reordering  MR LC/Puplicate detection of RLC PDUS  X X X - 7.2.2.11 UM RLC/RLC re-establishment procedure  X X X - 7.2.3.1 AM RLC/Segmentation and reassembly?  X X X - 7.2.3.2 AM RLC/Segmentation and reassemblyPNo PDU segmentation  X X X - 7.2.3.3 AM RLC/Segmentation and reassemblyPraming info field  X X X - 7.2.3.4 AM RLC/Segmentation and reassembly/Praming info field  X X X - 7.2.3.5 AM RLC/Segmentation and reassembly/Praming info field  X X X - 7.2.3.6 AM RLC/Segmentation and reassembly/Praming info field  X X X - 7.2.3.7 AM RLC/Segmentation and reassembly/Praming info field  X X X - 7.2.3.8 AM RLC/Control of transmit window  X X X - 7.2.3.9 AM RLC/Control of transmit window  X X X - 7.2.3.9 AM RLC/Control of transmit window  X X X - 7.2.3.10 AM RLC/Control of receive window  X X X - 7.2.3.10 AM RLC/Control of receive window  X X X - 7.2.3.11 AM RLC/Control of receive window  X X X - 7.2.3.13 AM RLC/Polling for status  X X X - 7.2.3.14 AM RLC/Receiver status triggers  X X X - 7.2.3.15 AM RLC/Receiver status diggers  X X X - 7.2.3.16 AM RLC/Receiver status diggers  X X X - 7.2.3.17 AM RLC/Receiver status diggers  X X X - 7.2.3.18 AM RLC/Receiver status diggers  X X X - 7.2.3.19 AM RLC/Receiver status diggers  X X X - 7.2.3.11 AM RLC/Receiver status diggers  X X X - 7.2.3.11 AM RLC/Receiver status diggers  X X X - 7.2.3.12 AM RLC/Receiver status diggers  X X X - 7.2.3.13 AM RLC/Receiver status diggers  X X X - 7.2.3.14 AM RLC/Receiver status diggers  X X X - 7.2.3.15 AM RLC/Receiver status diggers  X X X - 7.2.3.16 AM RLC/Receiver status diggers  X X X - 7.2.3.17 AM RLC/Receiver status diggers  X X X - 7.2.3.18 AM RLC/Receiver status diggers  X X X - 7.2.3.19 AM RLC/Receiver status diggers  X X X - 7.2.3.10 AM RLC/Receiver status diggers  X X X - 7.2.3.11 AM RLC/Receiver status diggers  X X X - 7.2.3.12 AM RLC/Receiver status diggers  X X X - 7.2.3.13 AM RLC/Receiver status diggers  X X X - 7.3.3.1 AM RLC/Receiver status diggers  X X X - 7.3.3.1 AM RLC/Receiver status d	7.2.2.9		Х	Х	-
7.2.2.10       UM RLC/Duplicate detection of RLC PDUs       X       X       7.2.3.1         7.2.3.1       AM RLC/Concatenation and reassembly       X       X       7.2.3.2         7.2.3.2       AM RLC/Segmentation and reassembly/ Por DU segmentation       X       X       7.2.3.2         7.2.3.3       AM RLC/Segmentation and reassembly/Different numbers of length indicators       X       X       7.2.3.4         7.2.3.4       AM RLC/Segmentation and reassembly/Different numbers of length indicators       X       X       7.2.3.5         7.2.3.5       AM RLC/Gorrect use of sequence numbering       X       X       X       7.2.3.8         7.2.3.6       AM RLC/Correct use of sequence numbering       X       X       X       7.2.3.8         7.2.3.8       AM RLC/Control of receive window       X       X       X       7.2.3.8         7.2.3.9       AM RLC/Grest status triggers       X       X       X       7.2.3.1         7.2.3.10       AM RLC/Gresconfiguration of RLC parameters by upper layers       X       X       7.2.3.1         7.2.3.11       AM RLC/Re-ordering of RLC PDU segments       X       X       7.2.3.1         7.2.3.15       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       7.2.3.1         7.2.3.16 <td></td> <td></td> <td></td> <td></td> <td>1</td>					1
Value   Valu	7.2.2.10		Х	Х	-
Z.2.3.1   AM RLC/Concatenation and reassembly					-
7.2.3.2   AM RLC/Segmentation and reassembly/No PDU segmentation   X				X	-
Z.2.3.1 AM RLC/Segmentation and reassembly/Etaming Info field					_
7.2.3.4   AM RLC/Segmentation and reassembly/Different numbers of length indicators					
7.2.3.5   AM RLC/Reassembly/LI value > PDU size					
7.2.3.6       AM RLC/Correct use of sequence numbering       X       X       -7.2.3.7         7.2.3.7       AM RLC/Control of transmit window       X       X       X         7.2.3.8       AM RLC/Control of receive window       X       X       X         7.2.3.9       AM RLC/Polling for status       X       X       X       -7.2.3.13         7.2.3.13       AM RLC/Reconfiguration of RLC parameters by upper layers       X       X       X       -7.2.3.14         7.2.3.14       AM RLC/Re-ordering of RLC PDU segments       X       X       X       -7.2.3.15         7.2.3.15       AM RLC/Re-ordering of RLC PDU without re-segmentation       X       X       -7.2.3.17         7.2.3.16       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       X         7.2.3.17       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       X         7.2.3.21       AM RLC/Rubicate detection of RLC PDUs       X       X       X         7.2.3.22       AM RLC/Rubicate detection of RLC PDUs       X       X       X         7.2.3.21       AM RLC/Rubicate detection of RLC PDU/S       X       X       X         7.3.3.1       Maintenance of PDCP sequence numbers/User plane/RLC AM       X       X       X					
7.2.3.7   AM RLC/Control of transmit window		· · · · · · · · · · · · · · · · · · ·			
7.2.3.8					
7.2.3.9       MA RLC/Polling for status       X       X       X       Z       Z.2.3.10       AM RLC/Receiver status triggers       X       X       X       Z       Z.2.3.13       AM RLC/Reconfiguration of RLC parameters by upper layers       X       X       X       Z       Z.2.3.14       AM RLC/Re-ordering of RLC PDU segments       X       X       X       Z       Z.2.3.15       AM RLC/Re-ordering of RLC PDU segments       X       X       X       Z       Z.2.3.16       AM RLC/Re-segmentation RLC PDU without re-segmentation       X       X       Z       Z.2.3.17       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       Z       Z.2.3.18       AM RLC/Resesembly/MDD PDU reassembly from AMD PDU segments, Segmentation       X       X       Z       Z.2.3.20       AM RLC/RLC re-establishment at RRC connection reconfiguration including       X       X       Z       Z.2.3.20       AM RLC/RLC re-establishment at RRC connection reconfiguration including       X       X       Z       Z.2.3.21       AM RLC/RLC re-establishment at RRC connection reconfiguration including       X       X       Z       Z.2.3.21       AM RLC/RLC re-establishment at RRC connection reconfiguration including       X       X       Z       Z.2.3.21       AM RLC/Ruc re-establishment at RRC connection reconfiguration including manual reconstructions and reconstruction reconstruction reconstructions reconstructions reconstruction					
7.2.3.10       AM RLC/Recoeliver status triggers       X       X       7.2.3.13       AM RLC/Reconfiguration of RLC parameters by upper layers       X       X       -7.2.3.14       AM RLC/Re-ordering of RLC PDU segments       X       X       X       -7.2.3.15       AM RLC/Re-ordering of RLC PDU segments       X       X       X       -7.2.3.16       AM RLC/Re-transmission of RLC PDU segments       X       X       X       -7.2.3.17       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       X       -7.2.3.18       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       X       -7.2.3.21       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       X       -7.2.3.21       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X       X       -7.2.3.21       AM RLC/Recassembly/AMD PDU reassembly from AMD PDU segments, Segmentation Offset and Last Segment Flag fields       X       X       -7.2.3.21       AM RLC/RLC re-establishment at RRC connection reconfiguration including       X       X       X       -7.2.3.21       AM RLC/RLC re-establishment at RRC connection reconfiguration including       X       X       X       -7.2.3.21       AM RLC/BLC re-establishment at RRC connection reconfiguration including       X       X       -7.2.3.3.1       AM RLC/BLC re-establishment at RRC connection reconfiguration including       X       X       -7.2.3.3.1       AM RLC/BLC re-estab					-
7.2.3.13       AM RLC/Reconfiguration of RLC parameters by upper layers       X       X         7.2.3.14       AM RLC/In sequence delivery of upper layers PDUS       X       X         7.2.3.15       AM RLC/Re-ordering of RLC PDU supper layers PDUS       X       X         7.2.3.16       AM RLC/Re-ransmission of RLC PDU without re-segmentation       X       X         7.2.3.17       AM RLC/Re-segmentation RLC PDU/SO, FI, LSF       X       X         7.2.3.18       AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation Offset and Last Segment Flag fields       X       X         7.2.3.20       AM RLC/RLC re-establishment at RRC connection reconfiguration including mobility Controllifo IE       X       X       X         7.3.1.1       Maintenance of PDCP sequence numbers/User plane/RLC AM       X       X       X         7.3.1.2       Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7 bits)       X       X         7.3.1.3       Maintenance of PDCP sequence numbers/User plane/RLC UM/Long PDCP SN (12 bits)       X       X         7.3.3.1       Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G       X       X         7.3.3.2       Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G       X       X         7.3.3.5       Ciphering an					
7.2.3.14 AM RLC/In sequence delivery of upper layers PDUs 7.2.3.15 AM RLC/Re-ordering of RLC PDU segments 7.2.3.16 AM RLC/Re-transmission of RLC PDU without re-segmentation 7.2.3.17 AM RLC/Re-segmentation RLC PDU/SO, FI, LSF 7.2.3.18 AM RLC/Re-segmentation RLC PDU/SO, FI, LSF 7.2.3.19 AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.20 AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.21 AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.22 AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.21 AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.21 AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.21 AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.21 AMD RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.21 AMD RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation 7.2.3.1.2 Maintenance of PDCP sequence numbers/User plane/RLC AM 7.3.1.2 Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7 bits) 7.3.3.3.1 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X 7.3.3.2 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X 7.3.3.3.3 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES X X 7.3.3.4 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES X X 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES X X 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES X X 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES X X 7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES X X 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithm					
7.2.3.15         AM RLC/Re-ordering of RLC PDU segments         X         X           7.2.3.16         AM RLC/Re-transmission of RLC PDU without re-segmentation         X         X           7.2.3.17         AM RLC/Re-segmentation RLC PDU/SO, FI, LSF         X         X           7.2.3.18         AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation of Segment Flag fields         X         X           7.2.3.20         AM RLC/Duplicate detection of RLC PDUS         X         X         -           7.2.3.21         AM RLC/RLC re-establishment at RRC connection reconfiguration including mobility Controllnfo IE         X         X         -           7.3.1.1         Maintenance of PDCP sequence numbers/User plane/RLC AM         X         X         -           7.3.1.2         Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7 bits)         X         X         -           7.3.1.3         Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7bits)         X         X         -           7.3.1.3         Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7bits)         X         X         -           7.3.1.3         Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7bits)         X         X         -           7.3.1.5         Ciphering and deciphering/Correct f					
7.2.3.16         AM RLC/Re-transmission of RLC PDU without re-segmentation         X         X           7.2.3.17         AM RLC/Re-segmentation RLC PDU/SO, Fl. LSF         X         X           7.2.3.18         AM RLC/Re-segmentation DC/Respended PDC/Respended PDC/Resp					
7.2.3.17 AM RLC/Re-segmentation RLC PDU/SO, FI, LSF 7.2.3.18 AM RLC/Reasembly/AMD PDU reassembly from AMD PDU segments, Segmentation X X X - Offset and Last Segment Flag fields X X X - Offset and Last Segment Flag fields X X X - Offset and Last Segment Flag fields X X X - Offset and Last Segment Flag fields X X X - Offset and Last Segment Flag fields X X X - Offset and Last Segment Flag fields X X X - Offset and Last Segment Flag fields X X X - Offset and Last Segment Flag fields X X X - Offset Am RLC/RLC re-establishment at RRC connection reconfiguration including X X X - Offset Am Amount Flag fields X X X - Offset Amount Flag fields X X X - O					-
AM RLC/Reassembly/AMD PDU reassembly from AMD PDU segments, Segmentation Offset and Last Segment Flag fields 7.2.3.20 AM RLC/Duplicate detection of RLC PDUS 7.2.3.21 AM RLC/RLC re-establishment at RRC connection reconfiguration including mobilityControlInfo IE 7.3.1.1 Maintenance of PDCP sequence numbers/User plane/RLC AM 7.3.1.2 Maintenance of PDCP sequence numbers/User plane/RLC UW/Short PDCP SN (7 bits) 7.3.1.3 Maintenance of PDCP sequence numbers/User plane/RLC UW/Short PDCP SN (12 bits) 7.3.3.1 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G 7.3.3.2 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES 7.3.3.3 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES 7.3.3.4 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES 7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES 7.3.3.1 Integrity protection/Correct functionality of EPS AS encryption algorithms/ ZUC 7.3.3.4 Integrity protection/Correct functionality of EPS AS encryption algorithms / ZUC 7.3.4.1 Integrity protection/Correct functionality of EPS AS integrity algorithms/ ZUC 7.3.4.2 Integrity protection/Correct functionality of EPS AS integrity algorithms/ ZUC 7.3.5.2 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.3 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.4 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.5 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.6 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.7 7.3.5.1 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.1 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.1 PDCP handover/Lossless handover/PDCP sequence number maintenance 7.3.5.1 PDCP handover/Lossless handover/PDCP s					-
Offset and Last Segment Flag fields  7.2.3.20 AM RLC/Duplicate detection of RLC PDUs  7.2.3.21 AM RLC/RLC re-establishment at RRC connection reconfiguration including  X X -  MobilityControlInfo IE  7.3.1.1 Maintenance of PDCP sequence numbers/User plane/RLC AM  7.3.1.2 Maintenance of PDCP sequence numbers/User plane/RLC UW/Short PDCP SN (7 bits)  X X -  7.3.1.3 Maintenance of PDCP sequence numbers/User plane/RLC UW/Short PDCP SN (12 bits)  X X -  7.3.3.1 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X -  7.3.3.2 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X -  7.3.3.3 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/SNOW 3G X X -  7.3.3.3 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES X X -  7.3.3.4 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES X X -  7.3.3.5 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES X X -  7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC X X -  7.3.3.1 Integrity protection/Correct functionality of EPS AS encryption algorithms / ZUC X X -  7.3.4.1 Integrity protection/Correct functionality of EPS AS integrity algorithms/AES X X -  7.3.4.2 Integrity protection / Correct functionality of EPS AS integrity algorithms/AES X X -  7.3.5.3 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.4 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.5 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.6 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.7 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.7 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.7 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.7 PDCP handover/Lossless handover/P			Χ	Х	-
AM RLC/Duplicate detection of RLC PDUs  7.2.3.21 AM RLC/RLC re-establishment at RRC connection reconfiguration including mobility/ControlInfo IE  7.3.1.1 Maintenance of PDCP sequence numbers/User plane/RLC AM  7.3.1.2 Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7 bits)  X X -  7.3.1.3 Maintenance of PDCP sequence numbers/User plane/RLC UM/Long PDCP SN (12 bits)  X X -  7.3.3.1 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X -  7.3.3.2 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X -  7.3.3.3 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X -  7.3.3.4 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES X X -  7.3.3.5 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES X X -  7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC X X -  7.3.4.1 Integrity protection/Correct functionality of EPS AS encryption algorithms / ZUC X X -  7.3.4.2 Integrity protection/Correct functionality of EPS AS encryption algorithms / ZUC X X -  7.3.4.3 Integrity protection/Correct functionality of EPS AS integrity algorithms/AES X X -  7.3.4.3 Integrity protection/Correct functionality of EPS AS integrity algorithms/AES X X -  7.3.5.2 PDCP handover/Lossless handover/PDCP sequence number maintenance X X -  7.3.5.3 PDCP handover/Lossless handover/PDCP status report to convey the information on missing or acknowledged PDCP SDUs at handover  7.3.5.4 PDCP handover/Lossless handover/PDCP status report to convey the information on M X X -  8.3.1.1.1 RRC/Paging for connection in idle mode  X X -  8.3.1.1.2 RRC/Paging for connection in idle mode  X X -  8.3.1.1.1 RRC/Paging for connection in idle mode  X X -  8.3.1.1.2 RRC/Paging for connection in idle mode / Multiple paging records  X X -  8.3.1.1.1 RRC/Paging for connection in idle mode / Shared network environment  X X -  8.3.1.2.	7.2.3.18		X	Х	-
AM RLC/RLC re-establishment at RRC connection reconfiguration including mobilityControlInfo IE  7.3.1.1 Maintenance of PDCP sequence numbers/User plane/RLC AM  7.3.1.2 Maintenance of PDCP sequence numbers/User plane/RLC UW/Short PDCP SN (7 bits)  7.3.1.3 Maintenance of PDCP sequence numbers/User plane/RLC UW/Short PDCP SN (12 bits)  7.3.3.1 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G  7.3.3.2 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/SNOW 3G  7.3.3.3 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/SNOW 3G  7.3.3.4 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES  7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES  7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES  7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC  7.3.4.1 Integrity protection/Correct functionality of EPS AS encryption algorithms / ZUC  7.3.4.2 Integrity protection/Correct functionality of EPS AS integrity algorithms/SNOW 3G  7.3.4.3 Integrity protection/Correct functionality of EPS AS integrity algorithms/AES  7.3.5.2 PDCP handover/Lossless handover/PDCP sequence number maintenance  7.3.5.3 PDCP handover/Lossless handover/PDCP sequence number maintenance  7.3.5.4 PDCP handover/Lossless handover/PDCP sequence number maintenance  7.3.5.5 PDCP handover/In-order delivery and duplicate elimination in the downlink  7.3.6.1 PDCP discard  7.3.6.1 PDCP handover/In-order delivery and duplicate elimination in the downlink  7.3.6.1 PDCP handover/In-order delivery and duplicate elimination in the downlink  7.3.6.1 PDCP discard  8.1.1.1 RRC/Paging for connection in idle mode  8.1.1.1 RRC/Paging for connection in idle mode / Multiple paging records  8.1.1.1 RRC/Paging for connection in idle mode / Shared network environment  7.3.1.1 RRC / Paging for connection in idle mode / Shared					
mobilityControlInfo IE 7.3.1.1 Maintenance of PDCP sequence numbers/User plane/RLC AM 7.3.1.2 Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7 bits) X X 7.3.1.3 Maintenance of PDCP sequence numbers/User plane/RLC UM/Long PDCP SN (12 bits) X X 7.3.3.1 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X 7.3.3.2 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/SNOW 3G X X 7.3.3.3 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES X X 7.3.3.3 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES X X 7.3.3.3.5 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES X X 7.3.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC X X 7.3.3.4.1 Integrity protection/Correct functionality of EPS AS encryption algorithms / ZUC X X 7.3.3.4.2 Integrity protection/Correct functionality of EPS AS integrity algorithms/SNOW 3G X X 7.3.3.4.3 Integrity protection/Correct functionality of EPS AS integrity algorithms/AES X X 7.3.3.4.3 Integrity protection / Correct functionality of EPS AS integrity algorithms/AES X X 7.3.3.4.3 Integrity protection / Correct functionality of EPS AS integrity algorithms/AES X X 7.3.3.4.3 Integrity protection / Correct functionality of EPS AS integrity algorithms / ZUC X X 7.3.3.4.3 Integrity protection / Correct functionality of EPS AS integrity algorithms / ZUC X X 7.3.3.4.3 PDCP handover/Lossless handover/PDCP sequence number maintenance X X X 7.3.3.4.4 PDCP handover/Lossless handover/PDCP sequence number maintenance X X X 7.3.3.4.1 PDCP handover/In-order delivery and duplicate elimination in the downlink X X 7.3.3.4.1 PDCP discard X X 7.3.3.4.1 RRC/Paging for connection in idle mode X X X 7.3.3.4.1 RRC/Paging for connection in idle mode X X X 7.3.3.4.1 RRC/Paging for connection in idle mode / Shared network environment X X X 7.3.3.1.1 RRC/Paging for connection in idle mode / Sha			Χ	Х	-
Maintenance of PDCP sequence numbers/User plane/RLC AM	7.2.3.21		Х	Х	-
Maintenance of PDCP sequence numbers/User plane/RLC UM/Short PDCP SN (7 bits)					
7.3.1.3 Maintenance of PDCP sequence numbers/User plane/RLC UM/Long PDCP SN (12 bits) X X - 7.3.3.1 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G X X - 7.3.3.2 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/SNOW 3G X X - 7.3.3.3 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES X X - 7.3.3.3 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES X X - 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS UP encryption algorithms/AES X X - 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms/AES X X - 7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC X X - 7.3.4.1 Integrity protection/Correct functionality of EPS AS integrity algorithms/SNOW 3G X X - 7.3.4.2 Integrity protection/Correct functionality of EPS AS integrity algorithms/AES X X - 7.3.4.2 Integrity protection / Correct functionality of EPS AS integrity algorithms / ZUC X X - 7.3.5.2 PDCP handover/Lossless handover/PDCP sequence number maintenance X X - 7.3.5.3 PDCP handover/Lossless handover/PDCP sequence number maintenance X X - 7.3.5.4 PDCP handover/Lossless handover/PDCP status report to convey the information on missing or acknowledged PDCP SDUs at handover X X - 8.3.1.1 PDCP discard X X X - 8.3.1.1 PDCP discard X X X - 8.3.1.1 RRC/Paging for connection in idle mode X X X - 8.3.1.1 RRC/Paging for connection in idle mode / Multiple paging records X X X - 8.3.1.1 RRC/Paging for connection in idle mode / Shared network environment X X X - 8.3.1.1 RRC / Paging for connection in idle mode / Shared network environment X X X - 8.3.1.1 RRC / Paging for connection in idle mode / Shared network environment X X X - 8.3.1.1 RRC / Paging for connection in idle mode / Shared network environment X X X - 8.3.1.2 RRC connection establishment/Reject with wait time X X X - RRC connection establishment/Reject with wait time X X X - RRC conn	7.3.1.1		Χ	Χ	-
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7.3.3.3 Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/AES X X - 7.3.3.4 Ciphering and deciphering/Correct functionality of EPS UP encryption algorithms/AES X X - 7.3.3.5 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC X X - 7.3.3.6 Ciphering and deciphering / Correct functionality of EPS AS encryption algorithms / ZUC X X - 7.3.4.1 Integrity protection/Correct functionality of EPS AS encryption algorithms / ZUC X X - 7.3.4.2 Integrity protection/Correct functionality of EPS AS integrity algorithms/SNOW 3G X X - 7.3.4.2 Integrity protection/Correct functionality of EPS AS integrity algorithms/AES X X - 7.3.4.3 Integrity protection / Correct functionality of EPS AS integrity algorithms / ZUC X X - 7.3.5.2 PDCP handover/Lossless handover/PDCP sequence number maintenance X X - 7.3.5.3 PDCP handover/Lossless handover/PDCP sequence number maintenance X X - 7.3.5.4 PDCP handover/Lossless handover/PDCP status report to convey the information on missing or acknowledged PDCP SDUs at handover X X - 7.3.5.5 PDCP handover/In-order delivery and duplicate elimination in the downlink X X - 7.3.6.1 PDCP discard X X X - 7.3.6.1 RRC/Paging for connection in idle mode A Multiple paging records X X X - 7.3.6.1 RRC/Paging for connection in idle mode A Multiple paging records X X X - 7.3.6.1 RRC/Paging for connection in idle mode A Multiple paging records X X X - 7.3.1.1.1 RRC/Paging for connection in idle mode A Multiple paging records X X X - 7.3.1.1.1 RRC/Paging for connection in idle mode A Multiple paging records X X X - 7.3.1.1.1 RRC/Paging for connection in idle mode A Multiple paging records X X X - 7.3.1.1.1 RRC/Paging for connection in idle mode A Multiple paging records X X X - 7.3.1.1.1 RRC/Paging for connection in idle mode A Multiple paging records	7.3.3.1	Ciphering and deciphering/Correct functionality of EPS AS encryption algorithms/SNOW 3G	Χ	Χ	-
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Integrity protection/Correct functionality of EPS AS integrity algorithms/AES					-
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RRC/Paging for notification of BCCH modification in idle mode  RRC / Paging for connection in idle mode / Multiple paging records  RRC / Paging for connection in idle mode / Shared network environment  RRC / Paging for connection in idle mode / Shared network environment  RRC / Paging for connection in idle mode / Shared network environment  RRC / Paging for connected mode  X X  RRC / Paging / EAB active  X X  RRC / Paging / EAB active  RRC connection establishment/Reject with wait time  X X  RRC RRC connection establishment/Return to idle state after T300 timeout  X X  RRC connection establishment/0% access probability for MO calls, no restriction for MO  X X					
RRC / Paging for connection in idle mode / Multiple paging records  X X -  RRC / Paging for connection in idle mode / Shared network environment  X X -  RRC / Paging for connection in idle mode / Shared network environment  X X -  RRC/BCCH modification in connected mode  X X -  RRC / Paging / EAB active  X X -  RRC connection establishment/Reject with wait time  X X -  RRC connection establishment/Return to idle state after T300 timeout  X X -  RRC connection establishment/0% access probability for MO calls, no restriction for MO  X X -					
3.1.1.4   RRC / Paging for connection in idle mode / Shared network environment					
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signalling	8.1.2.5		Х	Х	-
		Isignailing			

Test case	Description	FDD	TDD	T/F
8.1.2.6	RRC connection establishment / Non-zero percent access probability for MO calls, no restriction for MO signalling	Х	Х	-
8.1.2.7	RRC connection establishment/0% access probability for AC 0 to 9, AC 10 is barred, AC 11 to 15 are not barred, access for UE with access class in the range 11 to 15 is allowed	Χ	X	-
8.1.2.8	RRC connection establishment / Range of access baring time	Χ	Χ	-
8.1.2.9	RRC Connection Establishment / 0% access probability for MO calls, non-zero percent access probability for MO signalling	Χ	Х	-
8.1.2.11	RRC connection establishment of emergency call	Х	Х	-
8.1.2.12	RRC connection establishment of emergency call / Limited Service	Χ	Χ	-
8.1.2.13	RRC connection establishment / 0% access probability for MO calls, 0% access probability for MO signalling	Х	Х	-
8.1.2.14	RRC connection establishment / High speed flag	Χ	Χ	-
8.1.3.1	RRC connection release/Success	Х	Χ	-
8.1.3.4	RRC connection release/Redirection to another E-UTRAN frequency	Х	Х	-
8.1.3.5	RRC connection release/Success/With priority information	Χ	Χ	-
8.1.3.6	RRC connection release/Redirection from E-UTRAN to UTRAN	Χ	Χ	Х
8.1.3.6a	RRC connection release / Redirection from E-UTRAN to UTRAN / Pre-redirection info	Χ	Χ	Х
8.1.3.7	RRC connection release / Redirection from UTRAN to E-UTRAN	Χ	Χ	Χ
8.1.3.8	RRC connection release / Redirection from E-UTRAN to GERAN	Χ	Χ	-
8.1.3.9	RRC connection release / Redirection from E-UTRAN to HRPD	Χ	Χ	-
8.1.3.10	RRC connection release / Redirection from E-UTRAN to 1xRTT	Χ	Χ	-
8.1.3.11	RRC connection release / Redirection to another E-UTRAN band	Χ	Χ	-
8.1.3.11a	RRC connection release / Redirection to another E-UTRAN band / Between FDD and TDD	Χ	Χ	-
8.1.3.12	RRC connection release / Success / With priority information / Inter-band	Χ	Χ	
8.1.3.12a	RRC connection release / Success / With priority information / Inter-band / Between FDD and TDD	Х	Х	-
8.1.3.12b	RRC connection release / Success / With priority information / Inter-band(Single frequency operation in source band)	Х	Х	-
8.2.1.1	RRC connection reconfiguration/Radio bearer establishment for transition from RRC_IDLE to RRC_CONNECTED/Success/Default bearer/Early bearer establishment	Χ	Х	-
8.2.1.3	RRC connection reconfiguration/Radio bearer establishment/Success/Dedicated bearer	Χ	Χ	-
8.2.1.5	RRC connection reconfiguration / Radio bearer establishment for transition from RRC_IDLE to RRC CONNECTED / Success / Latency check	Х	Х	-
8.2.1.6	RRC connection reconfiguration / Radio bearer establishment for transition from RRC_IDLE to RRC CONNECTED / Success / Latency check / SecurityModeCommand and RRCConnectionReconfiguration transmitted in the same TTI	Χ	X	-
8.2.1.7	RRC connection reconfiguration/Radio bearer establishment/Success/SRB2	Χ	Χ	-
8.2.1.8	RRC connection reconfiguration / Radio bearer establishment / Success / Dedicated bearer / ROHC configured	Х	Х	-
8.2.2.1	RRC connection reconfiguration/Radio resource reconfiguration/Success	Χ	Х	-
8.2.2.2	RRC connection reconfiguration/SRB/DRB reconfiguration/Success	Χ	Χ	-
8.2.2.3.1	CA / RRC connection reconfiguration / SCell addition/ modification/release / Success / Intraband contiguous CA	Χ	Х	-
8.2.2.3.2	CA / RRC connection reconfiguration / SCell addition/ modification/release / Success / Interband CA	Χ	Х	-
8.2.2.3.3	CA / RRC connection reconfiguration / SCell addition/ modification/release / Success / Intraband non-contiguous CA	Χ	Х	-
8.2.2.4.1	CA / RRC connection reconfiguration / SCell SI change / Success / Intra-band Contiguous CA	Χ	Х	-
8.2.2.4.2	CA / RRC connection reconfiguration / SCell SI change / Success / Inter-band CA	Χ	Χ	-
8.2.2.4.3	CA / RRC connection reconfiguration / SCell SI change / Success / Intra-band non- contiguous CA	Х	Х	-
8.2.2.5.1	CA / RRC connection reconfiguration / SCell addition without UL / Success / Intra-band contiguous CA	Х	Х	-
8.2.2.5.2	CA / RRC connection reconfiguration / SCell addition without UL / Success / Inter-band CA	Χ	Χ	-
8.2.2.5.3	CA / RRC connection reconfiguration / SCell addition without UL / Success / Intra-band non-contiguous CA	X	X	-
8.2.2.6.1	RRC connection reconfiguration/ UE Assistance Information/power preference indication setup and release	Х	Х	-
8.2.2.6.2	RRC connection reconfiguration/ UE Assistance Information/power preference indication release on connection re-establishment	Х	Х	-
8.2.2.6.3	RRC connection reconfiguration/ UE Assistance Information/T340 running	Χ	Х	-
8.2.2.7.1	CA / RRC connection reconfiguration / sTAG addition/ modification/release / Success /	X	X	Х
	Intra-band Contiguous CA			

Inter-band CA 8.2.2.7.3 RC A PRC connection reconfiguration / sTAG addition/ modification/release / Success /	Test case		FDD	TDD	T/F
Intra-band non-configueus CA			Х		-
8.2.4.1 RRC connection reconfiguration/Radio bearer release/Success 8.2.4.1 RRC connection reconfiguration/Handower/Success/Dedicated preamble 8.2.4.2 RRC connection reconfiguration/Handower/Success/Common preamble 8.2.4.3 RRC connection reconfiguration/Handower/Success/Common preamble 8.2.4.4 RRC connection reconfiguration/Handower/Success/Common preamble 8.2.4.5 RRC connection reconfiguration/Handower/Fallure/Intra-cell/Security reconfiguration 8.2.4.6 RRC connection reconfiguration/Handower/Fallure/Intra-cell/Security reconfiguration 8.2.4.7 RRC connection reconfiguration/Handower/Fallure/Re-establishment successful 8.2.4.9 RRC connection reconfiguration/Handower/Fallure/Re-establishment fallure 8.2.4.9 RRC connection reconfiguration/Handower/Fallure/Re-establishment fallure 8.2.4.10 RRC connection reconfiguration/Handower/Fallure/Re-establishment fallure 8.2.4.10 RRC connection reconfiguration/Handower/Success (with measurement)/Inter-band 8.2.4.11 RRC connection reconfiguration/Handower/Success (with measurement)/Inter-band / x x x x x x x x x x x x x x x x x x	8.2.2.7.3	Intra-band non-contiguous CA		Х	1
8.2.4.1         RRC connection reconfiguration/Handover/Success/Common preamble         X <t< td=""><td></td><td></td><td></td><td></td><td>-</td></t<>					-
8.2.4.2 RRC connection reconfiguration/Handover/Success/Common preamble X X X 3.2.4.4 RRC connection reconfiguration/Handover/Success/Intra-cell/Security reconfiguration X X X 3.2.4.4 RRC connection reconfiguration/Handover/Fullure/Intra-cell/Security reconfiguration X X X 3.2.4.4 RRC connection reconfiguration/Handover/Fullure/Re-establishment successful X X X 3.2.4.6 RRC connection reconfiguration/Handover/Fullure/Re-establishment successful X X X 3.2.4.6 RRC connection reconfiguration/Handover/Fullure/Re-establishment failure X X 3.2.4.9 RRC connection reconfiguration/Handover/Fullure/Re-establishment failure X X 3.2.4.9 RRC connection reconfiguration/Handover/Fullure/Re-establishment failure X X 3.2.4.10 RRC connection reconfiguration/Handover/Fullure/Re-establishment failure X X 3.2.4.10 RRC connection reconfiguration/Handover/Success (with measurement) full full full full full full full ful					-
8.2.4.3 RRC connection reconfiguration/Handover/Fallure/Intra-cell/Security reconfiguration X X S 2.4.5 RRC connection reconfiguration/Handover/All parameters included X X X S 2.4.5 RRC connection reconfiguration/Handover/All parameters included X X X S 2.4.5 RRC connection reconfiguration/Handover/All parameters included X X X S 2.4.6 RRC connection reconfiguration/Handover/All parameters included X X X S 2.4.6 RRC connection reconfiguration/Handover/Intra-frequency X X X S 2.4.7 RRC connection reconfiguration/Handover/Intra-frequency X X X S 2.4.1 RRC connection reconfiguration/Handover/Intra-frequency X X X S 2.4.1 RRC connection reconfiguration/Handover/Intra-frequency X X X S 2.4.1 RRC connection reconfiguration/Handover/Inter-band blind handover/Success X X X S 2.4.1 RRC connection reconfiguration/Handover/Success (with measurement) /Inter-band X X X S 2.4.1 RRC connection reconfiguration/Handover/Success (with measurement) /Inter-band X X X S 2.4.1 RRC connection reconfiguration/Handover/Success (with measurement) /Inter-band X X X S 2.4.1 RRC connection reconfiguration/Handover/Fallure/Re-establishment successful/Inter-band X X X S 2.4.1 RRC connection reconfiguration/Handover/Fallure/Re-establishment successful/Inter-band X X X S 2.4.1 RRC connection reconfiguration/Handover/Fallure/Re-establishment fallure/Inter-band X X S 2.4.1 RRC connection reconfiguration/Handover/Success/PCell Change and SCell X X S 2.4.1 RRC Connection reconfiguration/Handover/Success/PCell Change and SCell X X S 2.4.1 RRC Connection reconfiguration/Handover/Success/PCell Change and SCell X X S 2.4.1 RRC Connection reconfiguration/Handover/Success/PCell Change/Scell no X X S 2.4.1 RRC Connection reconfiguration/Handover/Success/PCell Change/Scell					-
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8.2.4.5 RRC connection reconfiguration/Handover/All parameters included  8.2.4.6 RRC connection reconfiguration/Handover/Success/Inter-frequency  8.2.4.7 RRC connection reconfiguration/Handover/Failure/Re-establishment successful  8.2.4.8 RRC connection reconfiguration/Handover/Failure/Re-establishment successful  8.2.4.9 RRC connection reconfiguration/Handover/Failure/Re-establishment successful  8.2.4.10 RRC connection reconfiguration/Handover/Failure/Re-establishment failure  8.2.4.10 RRC connection reconfiguration/Handover/Pailure/Re-establishment failure  8.2.4.10 RRC connection reconfiguration/Handover/Pailure/Re-establishment failure/Re-establishment failure/Re-establishment failure/Re-establishment successful/Inter-band  8.2.4.13 RRC connection reconfiguration/Handover/Success (with measurement)/Inter-band  8.2.4.13 RRC connection reconfiguration/Handover/Success (with measurement)/Inter-band  8.2.4.14 RRC connection reconfiguration/Handover/Failure/Re-establishment successful/Inter-band  8.2.4.14 RRC connection reconfiguration/Handover/Failure/Re-establishment successful/Inter-band  8.2.4.15 RRC connection reconfiguration/Handover/Failure/Re-establishment failure/Inter-band  8.2.4.15 RRC connection reconfiguration/Handover/Failure/Re-establishment failure/Inter-band  8.2.4.15 RRC connection reconfiguration/Handover/Failure/Re-establishment failure/Inter-band  8.2.4.16 RRC connection reconfiguration/Handover/Failure/Re-establishment failure/Inter-band  8.2.4.16 RRC connection reconfiguration/Setup and Change of MiMO/Intra-band Contiguous CA  8.2.4.16.1 CA/RRC connection reconfiguration/Setup and Change of MiMO/Intra-band CA  8.2.4.16.2 CA/RRC connection reconfiguration/Setup and Change of MiMO/Intra-band CA  8.2.4.16.3 CA/RRC connection reconfiguration/Setup and Change of MiMO/Intra-band CA  8.2.4.17.1 CA/RRC connection reconfiguration/Handover/Success/PCell Change and SCell active Acti					-
8.2.4.6         RRC connection reconfiguration/Handover/Success/Inter-frequency         X         X         3.2.4.7         RRC connection reconfiguration/Handover/Inter-Re-establishment successful         X         X         8.2.4.9         RRC connection reconfiguration / Handover / Failure / Re-establishment failure         X         X         3.2.4.9         RRC connection reconfiguration / Handover / Fealure / Re-establishment failure         X         X         3.2.4.12         RRC connection reconfiguration / Handover / Setup and release of MIMO         X         X         3.2.4.12         RRC connection reconfiguration / Handover / Seucess (with measurement) / Inter-band         X         X         3.2.4.13         RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / between FDD and TDD         X         X         3.2.4.14         RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / between FDD and TDD         X         X         3.2.4.14         RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / between FDD and TDD         X         X         3.2.4.15         RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X         X         3.2.4.16         X         3.2					-
8.2.4.7 RRC connection reconfiguration/Handover/Failure/Re-establishment successful X X S-8.2.4.8 RRC connection reconfiguration/Handover/Inter-band blind handover/Success X X X-8.2.4.10 RRC connection reconfiguration/Handover/Inter-band blind handover/Success X X X-8.2.4.10 RRC connection reconfiguration/Handover/Inter-band blind handover/Success X X X-8.2.4.10 RRC connection reconfiguration/Handover/Detween FDD and TDD X X X-8.2.4.13 RRC connection reconfiguration/Handover/Success (with measurement) / Inter-band X X X-8.2.4.13 RRC connection reconfiguration/Handover/Success (with measurement) / Inter-band X X X-8.2.4.13 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / between FDD and TDD  8.2.4.14 RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / between FDD and TDD / Handover / Failure / Re-establishment successful / Inter-band / between FDD and TDD / Handover / Failure / Re-establishment failure / Inter-band / between FDD and TDD / Handover / Failure / Re-establishment failure / Inter-band X X - 8.2.4.15 RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X - 8.2.4.15 RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous X X - 8.2.4.16.2 CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous X X - 8.2.4.16.3 CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band CA X X - 8.2.4.16.3 CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band CA X X - 8.2.4.17.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - 8.2.4.17.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - 6.4 RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - 6.4 RRC connection reconfiguration / Handover / Success / PCell Change / Intra- band X X - 6.4 RRC connection reconfiguration / Handover / Success / SCell release					-
8.2.4.9         RRC connection reconfiguration / Handover / Failure / Re-establishment failure         X         X         2.8.24.10         RRC connection reconfiguration / Handover / Between FDD and TDD         X         X         X         8.2.4.12         RRC connection reconfiguration / Handover / Between FDD and TDD         X         X         X         3.2.4.12         RRC connection reconfiguration / Handover / Between FDD and TDD         X         X         X         X         3.2.4.12         RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band         X         X         3.2.4.13         RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / Devement of pain of the pain of					
8.2.4.19 RRC connection reconfiguration/Handover/ Between FDD and TDD X X X					-
8.2.4.10 RRC connection reconfiguration / Handover / Between FDD and TDD X X X - 2.4.12 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band X X - 3.4.13 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band X X X - 3.4.14 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / X X - 3.4.14 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / X X - 3.4.14 RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / Between FDD and TDD and TDD RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / Between FDD and TDD RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X X - 4.4.14 RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X X - 4.4.15 RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X X - 4.4.16 CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous X X X - 4.4.16 CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous X X X - 4.4.16 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X - 4.4.16 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X - 4.4.17 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X - 4.4.17 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X - 4.4.17 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X - 4.4.18 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X - 4.4.18 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Intra- band X X X - 4.4.18 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Intra- band X X X - 4.4.18 CA / RRC conn					-
8.2.4.12 RRC connection reconfiguration / Handover / Setup and release of MIMO X X 8.2.4.13 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band X X 8.2.4.13 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / X X 8.2.4.14 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / X X 8.2.4.14 RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / Band / Inter-band / Band /					-
8.2.4.13 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band X X X - between FDD and TDD   8.2.4.14 RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band X X X - between FDD and TDD   8.2.4.14 RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / Band / between FDD and TDD   8.2.4.15 RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / Band / between FDD and TDD   8.2.4.15 RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X - Band / Between FDD and TDD   8.2.4.15 RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X - Reconnection reconfiguration / Setup and Change of MiMO / Intra-band Contiguous X X - CA / RRC connection reconfiguration / Setup and Change of MiMO / Intra-band Contiguous X X - CA / RRC connection reconfiguration / Setup and Change of MiMO / Intra-band Contiguous CA   8.2.4.16.1 CA / RRC connection reconfiguration / Setup and Change of MiMO / Intra-band CA X X - CONTIGURATION / Setup and Change of MiMO / Intra-band CA X X - CONTIGURATION / Setup and Change of MiMO / Intra-band CA X X - CONTIGURATION / Setup and Change of MiMO / Intra-band CA X X - CONTIGURATION / Setup And Change of MiMO / Intra-band CA X X - CONTIGURATION / Setup And Change of MiMO / Intra-band CA X X - CONTIGURATION / Setup And Change of MiMO / Intra-band Scell X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-band Scell X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-band CA X X - CONTIGURATION / Setup And Change / Intra-					-
8.2.4.13a RRC connection reconfiguration / Handover / Success (with measurement) / Inter-band / X X x - between FDD and TDD 8.2.4.14 RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Inter-band / Execution / Handover / Failure / Re-establishment failure / Inter-band / X X - B.2.4.15a RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X X - RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X X - B.2.4.15a RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band X X X - B.2.4.16b A / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous X X X - CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band contiguous CA B.2.4.16b A / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band non-contiguous CA A / RRC connection reconfiguration / Handover / Success / PCell Change and SCell Addition / Intra-band contiguous CA B.2.4.17b A / RRC connection reconfiguration / Handover / Success / PCell Change and SCell Addition / Intra-band contiguous CA B.2.4.17b A / RRC connection reconfiguration / Handover / Success / PCell Change and SCell Addition / Intra-band non-contiguous CA B.2.4.18b C A / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band CA B.2.4.18b C A / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band CA B.2.4.18b C A / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band CA B.2.4.19b C A / RRC connection reconfiguration / Handover / Success / Scell Change / Intra- band CA CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra- band CA CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra- band CA CA / RRC connection reconfiguration / Handover / Success / Scell Chan					-
between FDD and TDD    8.2.4.14  RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Interband    8.2.4.14a  RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Interband / Leve / Lev					-
8.2.4.14a RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Interband / between FDD and TDD 8.2.4.15 RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Interband X X - RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Interband X X - RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Interband X X - RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous X X - RRC connection reconfiguration / Setup and Change of MIMO / Intra-band Contiguous X X - RRC connection reconfiguration / Setup and Change of MIMO / Intra-band contiguous CA Setup and Change of MIMO / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X - RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X - RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X - RRC Connection reconfiguration / Handover / Success / PCell Change / Intra- band X X - RRC Connection reconfiguration / Handover / Success / PCell Change / Intra- band Contiguous CA SCA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no X X - Change / Intra-band Contiguous CA Scal / RRC connection reconfiguration / Handover / Success / PCell Change / Intra-band Contiguous CA Scal / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X - RRC connection reconfiguration / Hando		between FDD and TDD			-
band / between FDD and TDD		band			-
8.2.4.15a RRC connection reconfiguration / Handover / Failure / Re-establishment failure / Inter-band		band / between FDD and TDD			-
Between FDD and TDD			Χ	Χ	-
CA  8.2.4.16.2 CA / RRC connection reconfiguration / Setup and Change of MIMO / Inter-band CA  8.2.4.16.3 CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band non-contiguous CA  8.2.4.17.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell  8.2.4.17.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell  8.2.4.17.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell  8.2.4.17.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell  8.2.4.18.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell  8.2.4.18.1 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band  8.2.4.18.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band  8.2.4.18.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band  8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band  8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no  8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no  8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no  8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Intra-band  8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band  8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band  8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band  8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band  8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band  8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band  8.2.4.21.2 CA /	8.2.4.15a		Х	Х	-
8.2.4.16.2 CA / RRC connection reconfiguration / Setup and Change of MIMO / Inter-band CA	8.2.4.16.1		Х	Х	-
8.2.4.16.3 CA / RRC connection reconfiguration / Setup and Change of MIMO / Intra-band noncontiguous CA 8.2.4.17.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X addition / Intra-band contiguous CA 8.2.4.17.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X addition / Intra-band CA 8.2.4.17.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X X addition / Intra-band non-contiguous CA 8.2.4.18.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X contiguous CA 8.2.4.18.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X contiguous CA 8.2.4.18.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X concontiguous CA 8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band contiguous CA 8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band CA 8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band CA 8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Intra-band CA 8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA 8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA 8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA 8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA 8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band CA 8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band CA 8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band CA 8.2.4.21.2 CA / RRC connection reconfigur	8.2.4.16.2		Х	Х	-
Contiguous CA   R.2.4.17.1   CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell   X   X   - addition / Intra-band contiguous CA			Х	Χ	-
8.2.4.17.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X Addition / Inter-band CA 8.2.4.17.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X Addition / Intra-band non-contiguous CA 8.2.4.18.1 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X Contiguous CA 8.2.4.18.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X Contiguous CA 8.2.4.18.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X Contiguous CA 8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band contiguous CA 8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no X X Change / Intra-band CA 8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band CA 8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Intra-band X X Contiguous CA 8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band X X Contiguous CA 8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band X X Contiguous CA 8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band X X Contiguous CA 8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band X X Contiguous CA 8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band CA X X Contiguous CA 8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA 8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA 8.2.4.22.2 RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA 8.2.4.22.2 RRC connection reconfiguration / H	8.2.4.17.1		Х	Х	-
addition / Inter-band CA  8.2.4.17.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change and SCell X X - addition / Intra-band non-contiguous CA  8.2.4.18.1 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X contiguous CA  8.2.4.18.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X - CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X - non-contiguous CA  8.2.4.18.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band X X - non-contiguous CA  8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no X X - Change / Intra-band contiguous CA  8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no X X - Change / Inter-band CA  8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Intra-band CA  8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band X X - Contiguous CA  8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band X X - non-Contiguous CA  8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X - non-Contiguous CA  8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / SCell Change / Intra-band X X - non-Contiguous CA  8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X - Contiguous CA  8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X - RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA  8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA  8.2.4.22 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA	8.2.4.17.2		Х	Х	-
addition / Intra-band non-contiguous CA  8.2.4.18.1 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band	8.2.4.17.3	addition / Inter-band CA	X	Х	-
contiguous CA  8.2.4.18.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter- band		addition / Intra-band non-contiguous CA			_
CA  8.2.4.18.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra- band non-contiguous CA  8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Intra-band contiguous CA  8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Inter-band CA  8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Intra-band non-contiguous CA  8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band Contiguous CA  8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA  8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA  8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA  8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA  8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA  8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA  8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA  8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA  8.2.4.22 RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA  8.2.4.22 RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA  8.2.4.22 RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X X - Galaxy		contiguous CA			<u> </u>
non-contiguous CA  8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Intra-band contiguous CA  8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Inter-band CA  8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band non-contiguous CA  8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band COntiguous CA  8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X CONTIGUOUS CA  8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X CONTIGUOUS CA  8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / SCell Change / Intra-band CA X X CONTIGUOUS CA  8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X CONTIGUOUS CA  8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X CONTIGUOUS CA  8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X CONTIGUOUS CA  8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X CONTIGUOUS CA  8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band contiguous CA  8.2.4.22 RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X CONTIGUOUS CA					-
8.2.4.19.1 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band contiguous CA  8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band CA  8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intra-band non-contiguous CA  8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band COntiguous CA  8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X - CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X - CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X - CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band CA X X - CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band CA X X - CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band CA X X - CA / RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / Success / Scell release / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information	8.2.4.18.3	<u>~</u>	Х	Х	-
8.2.4.19.2 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Inter-band CA 8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change / Scell no Change / Intraband non-contiguous CA 8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intraband Contiguous CA 8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Interband CA X X - 8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / SCell Change / Intraband X X - non-Contiguous CAChange / Intraband non-contiguous CA / RRC connection reconfiguration / Handover / Success / SCell release / Intraband X X - Contiguous CA / RRC connection reconfiguration / Handover / Success / SCell release / Intraband CA X X - 8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intraband CA X X - 8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intraband non-X X Contiguous CA RRC connection reconfiguration / Handover / Success / SCell release / Intraband non-X X Contiguous CA RRC connection reconfiguration / Handover / Success / SCell release / Intraband non-X X Contiguous CA RRC connection reconfiguration / Handover / Success / SCell release / Intraband non-X X Contiguous CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X Contiguous CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X Contiguous CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X Contiguous CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X Contiguous CA CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X Contiguous CA CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X CA CA RCC	8.2.4.19.1	CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no	Х	Х	-
8.2.4.19.3 CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Intraband non-contiguous CA  8.2.4.20.1 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band X X Contiguous CA  8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band CA X X - RRC connection reconfiguration / Handover / Success / SCell Change / Intra-band X X - non-Contiguous CAChange / Intra-band non-contiguous CA RRC connection reconfiguration / Handover / Success / SCell release / Intra-band X X - Contiguous CA RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X - RRC connection reconfiguration / Handover / Success / SCell release / Intra-band CA X X - RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-Contiguous CA RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-Contiguous CA RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-Contiguous CA RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - disregarded by the UE	8.2.4.19.2	CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no	Х	Х	-
8.2.4.20.1   CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band   X   X   Contiguous CA	8.2.4.19.3	CA / RRC connection reconfiguration / Handover / Success / PCell Change/ Scell no Change / Intra-	Х	Х	-
<ul> <li>8.2.4.20.2 CA / RRC connection reconfiguration / Handover / Success / Scell Change / Inter-band CA X X - 8.2.4.20.3 CA / RRC connection reconfiguration / Handover / Success / SCell Change / Intra-band X X - non-Contiguous CAChange / Intra-band non-contiguous CA</li> <li>8.2.4.21.1 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band X X - Contiguous CA</li> <li>8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter-band CA X X - 8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non- X X X - contiguous CA</li> <li>8.2.4.22 RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - disregarded by the UE</li> </ul>	8.2.4.20.1	CA / RRC connection reconfiguration / Handover / Success / Scell Change / Intra-band	Х	Х	-
8.2.4.20.3   CA / RRC connection reconfiguration / Handover / Success / SCell Change / Intra-band   X   X   non-Contiguous CAChange / Intra-band non-contiguous CA     8.2.4.21.1   CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band   X   X   - Contiguous CA     8.2.4.21.2   CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter-band CA   X   X   - RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-   X   X   - Contiguous CA     8.2.4.21.3   CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-   X   X   - CONTIGUOUS CA     8.2.4.22   RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information   X   X   - CONTIGUOUS CA     8.2.4.22   RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information   X   X   - CONTIGUOUS CA     8.2.4.22   RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information   X   X   - CONTIGUOUS CA     8.2.4.22   RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information   X   X   - CONTIGUOUS CA   CONTIG	8.2.4.20.2		Х	Х	-
8.2.4.21.1       CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band       X       X         8.2.4.21.2       CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter-band CA       X       X         8.2.4.21.3       CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-contiguous CA       X       X         8.2.4.22       RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information disregarded by the UE       X       X		CA / RRC connection reconfiguration / Handover / Success / SCell Change / Intra-band			-
8.2.4.21.2 CA / RRC connection reconfiguration / Handover / Success / SCell release / Inter-band CA X X - 8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non- X X - contiguous CA  8.2.4.22 RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - disregarded by the UE	8.2.4.21.1	CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band	Х	Х	-
8.2.4.21.3 CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non- X X - contiguous CA  8.2.4.22 RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - disregarded by the UE	8.2.4 21 2		X	Χ	-
8.2.4.22 RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information X X - disregarded by the UE		CA / RRC connection reconfiguration / Handover / Success / SCell release / Intra-band non-			-
consequence by the UE	8.2.4.22	RRC connection reconfiguration / Handover / MFBI / Target cell broadcasting information	Х	Х	-
Intra-band Contiguous CA	8.2.4.23.1	CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful /	Х	Х	-

Test case	Description	FDD	TDD	T/F
	CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful /	Х	X	-
	Inter-band CA			
8.2.4.23.3	CA / RRC connection reconfiguration / Handover / Failure / Re-establishment successful / Intra-band non-Contiguous CA	Χ	Χ	
8.3.1.1	Measurement configuration control and reporting/Intra E-UTRAN measurements/Event A1	Х	Х	-
8.3.1.2	Measurement configuration control and reporting/Intra E-UTRAN measurements/Event A2	Х	Х	-
8.3.1.3	Measurement configuration control and reporting/Intra E-UTRAN measurements/Two	Х	Х	-
	simultaneous events A3 (intra and inter-frequency measurements)			
8.3.1.3a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two	Х	X	-
	simultaneous events A3 (intra and inter-frequency measurements) / RSRQ based			l
	measurements			<b></b>
8.3.1.4	Measurement configuration control and reporting/Intra E-UTRAN measurements/Periodic	Χ	Χ	-
0.045	reporting (intra and inter-frequency measurements)			<b>—</b>
8.3.1.5	Measurement configuration control and reporting/Intra E-UTRAN measurements/Two	Х	Χ	-
8.3.1.6	simultaneous event A3 (intra-frequency measurements)  Measurement configuration control and reporting / Intra E-UTRAN measurements / Two	Х	Х	
0.3.1.0	simultaneous events A2 and A3 (inter-frequency measurements)	^	^	- I
8.3.1.7	Measurement configuration control and reporting/Intra E-UTRAN	Χ	Χ	_
0.5.1.7	measurements/Blacklisting	_ ^	^	_
8.3.1.8	Measurement configuration control and reporting/Intra E-UTRAN	Х	Χ	-
0.0.1.0	measurements/Handover/IE measurement configuration present		, ,	
8.3.1.9	Measurement configuration control and reporting/Intra E-UTRAN measurements/Intra-	Х	Х	-
	frequency handover/IE measurement configuration not present			l
8.3.1.9a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Intra-	Х	Χ	-
	frequency handover / IE measurement configuration not present / Single Frequency			l
	operation			
8.3.1.10	Measurement configuration control and reporting/Intra E-UTRAN measurements/Inter-	Χ	Χ	-
	frequency handover/IE measurement configuration not present			
8.3.1.11	Measurement configuration control and reporting/Intra E-UTRAN	Χ	Χ	-
	measurements/Continuation of the measurements after RRC connection re-establishment			<b></b>
8.3.1.11a	Measurement configuration control and reporting / Intra Frequency measurements /	Χ	Χ	-
	Continuation of the measurements after RRC connection re-establishment / Single			
8.3.1.12	Frequency operation  Measurement configuration control and reporting / Intra E-UTRAN measurements / Two	Х	Х	_
0.3.1.12	simultaneous events A3 (Inter-band measurements)	^	^	_
8.3.1.12a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two	Х	Χ	_
0.0.1.124	simultaneous events A3 (inter-band measurements) / Between FDD and TDD		^	l
8.3.1.13	Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic	Х	Х	-
	reporting (intra-frequency and inter-band measurements)			l
8.3.1.13a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Periodic	Х	Χ	-
	reporting (intra-frequency and inter-band measurements) / Between FDD and TDD			l
8.3.1.14	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two	Х	Χ	-
	simultaneous events A2 and A3 (Inter-band measurements)			
8.3.1.14a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Two	Х	X	-
	simultaneous events A2 and A3 (inter-band measurements) / Between FDD and TDD			<b></b>
8.3.1.15	Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-	Х	Χ	-
0.04.45-	band handover / IE measurement configuration not present	V		<b> </b>
8.3.1.15a	Measurement configuration control and reporting / Intra E-UTRAN measurements / Inter-	Х	Х	-
0.2.4.46	band handover / IE measurement configuration not present / Between FDD and TDD	Х	Х	
8.3.1.16	Measurement configuration control and reporting / Intra E-UTRAN measurements / Continuation of the measurements after RRC connection re-establishment / Inter-band	^	^	-
8.3.1.16a	Measurement configuration control and reporting / Intra E-UTRAN measurements /	Х	Х	_
0.5.1.10a	Continuation of the measurements after RRC connection re-establishment / Inter-band /	_ ^	^	_
	Between FDD and TDD			l
8.3.1.17.1	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements /	Х	Х	-
	Event A6 / Intra-band contiguous CA			l
8.3.1.17.2	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements /	Х	Х	-
	Event A6 / Inter-band CA			<u></u>
8.3.1.17.3	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements /	Х	Х	-
	Event A6 / Intra-band non-contiguous CA			
8.3.1.18.1	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements /	Χ	X	-
	Additional measurement reporting / Intra-band contiguous CA			-
8.3.1.18.2	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements /	Χ	Χ	-
0.0.4.40.0	Additional measurement reporting / Inter-band CA			
8.3.1.18.3	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements /	X	X	

Test case	'	FDD	TDD	T/F
	Additional measurement reporting / Intra-band non-contiguous CA			ļ
8.3.1.19	eICIC / Measurement configuration control and reporting / CSI change	Х	Х	-
8.3.1.21	eICIC / Measurement configuration control and reporting/Event A3 Handover / Neighbor RSRP measurement configuration change	Х	Х	-
8.3.1.22.1	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1 / Event A2 / Intra-band Contiguous CA	Х	Χ	-
8.3.1.22.2	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1 / Event A2 / Inter-band CA	Х	Χ	-
8.3.1.22.3	CA / Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A1/Event A2 / Intra-band non-contiguous CA	Х	Х	-
8.3.1.23	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A4	Х	Х	-
8.3.1.24	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5	Х	Х	-
8.3.1.25	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 / RSRQ based measurements	Х	Х	-
8.3.1.26	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 (Inter-frequency measurements)	Х	Х	-
8.3.1.27	Measurement configuration control and reporting / Intra E-UTRAN measurements / Event A5 (Inter-frequency measurements) / RSRQ based measurements	Х	Χ	-
8.3.1.28	eICIC / Measurement configuration control and reporting/Event A1 / RSRP and RSRQ	Х	Х	-
8.3.2.1	measurement / Serving ABS  Measurement configuration control and reporting / Inter-RAT measurements / Event B2 /	Х	Х	-
8.3.2.2	Measurement of GERAN cells  Measurement configuration control and reporting / Inter-RAT measurements / Periodic	Х	Х	-
8.3.2.3	reporting / Measurement of GERAN cells  Measurement configuration control and reporting/Inter-RAT measurements/Event	Х	Χ	Х
8.3.2.3a	B2/Measurement of UTRAN cells  Measurement configuration control and reporting / Inter-RAT measurements / Event B2 /	Х	Х	Х
8.3.2.4	Measurement of UTRAN cells / RSRQ based measurements  Measurement configuration control and reporting / Inter-RAT measurements / Periodic	Х	Х	Х
8.3.2.5	reporting / Measurement of UTRAN cells  Measurement configuration control and reporting / Inter-RAT measurements / Periodic	Х	Х	Х
8.3.2.6	reporting / Measurements of E-UTRAN, UTRAN and GERAN cells  Measurement configuration control and reporting / Inter-RAT measurements / Simultaneous	Х	Х	X
8.3.2.7	A2 and two B2 / Measurements of E-UTRAN, UTRAN and GERAN cells  Measurement configuration control and reporting/Inter-RAT measurements/Event	X	X	-
8.3.2.8	B2/Measurement of HRPD cells  Measurement configuration control and reporting / Inter-RAT measurements / Periodic	X	X	-
8.3.2.9	reporting / Measurement of HRPD cells  Measurement configuration control and reporting / Inter-RAT measurements / Event B2 /	Х	X	-
8.3.2.10	Measurement of 1xRTT cells  Measurement configuration control and reporting / Inter-RAT measurements / Periodic	X	Х	-
8.3.2.11	reporting / Measurement of 1xRTT cells  Measurement configuration control and reporting / Inter-RAT Measurements / Event B1 /	Х	Х	Х
	Measurement of UTRAN cells			
8.3.3.1	Measurement configuration control and reporting/SON/ANR/CGI reporting of E-UTRAN cell	Х	Χ	-
8.3.3.2	Measurement configuration control and reporting / SON / ANR / CGI reporting of UTRAN cell	Х		Х
8.3.3.3	Measurement configuration control and reporting / SON / ANR / CGI reporting of GERAN cell	Х	Х	-
8.3.3.4	Measurement configuration control and reporting / SON / ANR / CGI reporting of HRPD cell	Χ	Χ	-
8.3.4.1	Intra-frequencySI acquisition / CSG cell and non-CSG cell	Χ	Χ	-
8.3.4.2	Inter-freq SI acquisition / Non-member hybrid cell	Χ	Χ	
8.3.4.3	Inter-freq SI acquisition / Member hybrid cell	X	X	-
8.3.4.4	Inter-RAT SI acquisition / RRC_CONNECTED / UMTS member CSG cell	X	Χ	Χ
8.3.4.5	Inter-frequency E-UTRAN FDD – FDD / CSG Proximity Indication	X	-	-
8.4.1.2	Inter-RAT handover / From E-UTRA to UTRA PS / Data	X	X	X
8.4.1.4	Inter-RAT handover / From E-UTRA to UTRA HSPA / Data	X	Х	X
8.4.1.5	Inter-RAT handover / from E-UTRA to UTRA HSUPA/HSDPA / Data	X		X
8.4.2.2	Inter-RAT handover / From UTRA PS to E-UTRA / Data	X	X	X
8.4.2.4	Inter-RAT handover / From UTRA HSPA to E-UTRA / Data	X	X	X
8.4.2.7.1	CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell addition / Intra-band Contiguous CA	Х	Х	Х
8.4.2.7.2	CA / RRC connection reconfiguration / Handover UTRAN to E-UTRAN/ Success / SCell	Χ		Χ

addition / Intra-band non-conliguous CA   NACC	Test case	Description	FDD	TDD	T/F
addition / Intra-band non-contiguous CA					
8.4.3.2 Inter-RAT cell change order / From E-UTRA data RRC_CONNECTED to GPRS / Without X X NACC 8.4.3.3 Inter-RAT cell change order / From E-UTRA data to GPRS / With NACC 8.4.7.3 Pre-registration at 1xRTT and inter-RAT handover / CS fallback from E-UTRA RRC_IDLE X to 1xRTT 8.4.7.4 Pre-Registration at 1xRTT and inter-RAT handover / CS fallback caused by addition of CS x service / From E-UTRA Data to 1xRTT 8.4.7.5 Pre-registration at 1xRTT and inter-RAT handover / CS fallback caused by addition of CS x service / From E-UTRA Data to 1xRTT 8.4.7.5 Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA X RRC_IDLE to 1xRTT / MT call 8.4.7.6 Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA X RRC_CONECTED to 1xRTT / MO call 8.4.7.7 Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA X RRC_CONECTED to 1xRTT / MO call 8.4.7.8 Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA X RRC_CONECTED to 1xRTT / ECAM-based MT call 8.4.7.9 Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA X RRC_CONECTED to 1xRTT / Extended Service Reject / MO call 8.4.7.10 Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA X X call failure - GCSNA with Reorder Order 8.5.1.1 Radio link failure/RRC connection re-establishment reject 8.5.1.2 Radio link failure/RRC connection re-establishment reject 8.5.1.3 Radio link failure/RRC connection re-establishment reject 8.5.1.7.2 CA / No Radio link failure on Scall/ RRC Connection Continues on PCell / Intra-band X X Contiguous CA 8.5.1.7.2 CA / No Radio link failure on Scall/ RRC Connection Continues on PCell / Intra-band CA X X Contiguous CA 8.5.1.1 Radio link failure on Scall/ RRC Connection Continues on PCell / Intra-band CA X X Contiguous CA 8.5.1.1 Radio link failure on Scall/ RRC Connection Continues on PCell / Intra-band CA X X Contiguous CA 8.5.1.1 Radio link failure on Scall/ RRC Connection Continues on PCel			Х	Х	Χ
8.4.7.3 Inter-RAT cell change order / From E-UTRA data to GPRS / With NACC	3.4.3.2	Inter-RAT cell change order / From E-UTRA data RRC_CONNECTED to GPRS / Without	Х	Х	-
8.4.7.3 Pre-registration at 1xRTT and inter-RAT handover / CS fallback from E-UTRA RRC_DLE			Х	Х	-
8.4.7.4 Pre-Registration at 1xRTT and inter-RAT handover / CS fallback caused by addition of CS service / From E-UTRA Data to 1xRTT service / From E-UTRA Data to 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA RC inter-RAT handover / Enhanced CS fallback from E-U	3.4.7.3	Pre-registration at 1xRTT and inter-RAT handover / CS fallback from E-UTRA RRC_IDLE			-
8.4.7.5   Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA   X   RRC   DILE to 1xRTT / MT call	3.4.7.4	Pre-Registration at 1xRTT and inter-RAT handover / CS fallback caused by addition of CS	Х	Х	-
8.4.7.6   Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA   X   X   RRC_CONNECTED to 1xRTT / MO call	3.4.7.5	Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA	Х		
8.4.7.7   Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA   X   X   RRC_CONNECTED to 1xRTT / ECAM-based 1xRTT / MO call	3.4.7.6	Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA	Х	Х	-
8.4.7.8   Pro-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA   X   X   RRC_CONNECTED to 1xRTT / ECAM-based MT call	3.4.7.7	Pre-registration at 1xRTT and inter-RAT handover / Enhanced CS fallback from E-UTRA	Х	Х	-
8.4.7.9   Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA	3.4.7.8	Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA	Х	Х	-
8.4.7.10 Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA call failure - GCSNA with Reorder Order 8.5.1.1 Radio link failure/RRC connection re-establishment Success X X X X 8.5.1.2 Radio link failure/RTD expiry X X X X 8.5.1.3 Radio link failure/T310 expiry X X X X 8.5.1.4 Radio link failure/RTD expiry X X X X 8.5.1.5 Radio link failure/RTD expiry Dedicated RLF timer X X X X 8.5.1.5 Radio link failure / RRC connection re-establishment reject X X X X 8.5.1.5 Radio link failure / RTD expiry / Dedicated RLF timer X X X X 8.5.1.6 Radio link failure / T311 expiry / Dedicated RLF timer X X X X 8.5.1.7 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band X X X Contiguous CA X X X 8.5.1.7.2 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band CA X X X 8.5.1.7.2 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band CA X X X 8.5.1.7.2 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band CA X X X 8.5.1.2 La Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT X X UE capability transfer/Success X X X X X X X X X X X X X X X X X X	3.4.7.9	Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA	Х	Х	-
8.5.1.1   Radio link failure/RRC connection re-establishment Success	3.4.7.10	Pre-registration at 1xRTT and inter-RAT Handover / Enhanced CS fallback from E-UTRA	Х	Х	-
8.5.1.2   Radio link failure/T301 expiry			Х	Х	-
8.5.1.3   Radio link failure / RRC connection re-establishment reject	3.5.1.2		Х	Χ	-
8.5.1.5   Radio link failure/Radio link recovery while T310 is running					-
8.5.1.6       Radio link failure / T311 expiry / Dedicated RLF timer       X       X         8.5.1.7.1       CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band       X       X         8.5.1.7.2       CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band CA       X       X         8.5.1.7.3       CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band noncontiquous CA       X       X         8.5.2.1       Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT       X       X         8.5.4.1       UE capability transfer/Success       X       X         8.5.4.2       Network-requested CA Band Combination Capability Signalling / Number of UE supported       X       X         8.5.4.1       Ilmmediate MDT / Reporting / Location information       X       X         8.6.1.1       Immediate MDT / Reporting / Location information / Request from eNB / Event A2       X         8.6.1.2       Logged MDT / Intra-frequency measurement, logging and reporting       X       X         8.6.2.1       Logged MDT / Logging and reporting / Limiting area scope       X       X         8.6.2.3       Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA restablishment       X       X         8.6.2.4       Logged MDT / Release of logged MDT measurement	3.5.1.4	Radio link failure / RRC connection re-establishment reject	Х	Х	-
8.5.1.7.1 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band X X X Contiguous CA 8.5.1.7.2 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band CA X X X 5.5.1.7.3 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band non-contiguous CA 8.5.1.7.3 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band non-contiguous CA 8.5.2.1 Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT X X 8.5.4.1 UE capability transfer/Success X X X X 8.5.4.2 Network-requested CA Band Combination Capability Signalling / Number of UE supported X X X CA band combinations less than or equal to 128 8.6.1.1 Immediate MDT / Reporting / Location information X X X 8.6.1.2 Immediate MDT / Reporting / Location information / Request from eNB / Event A2 X 8.6.2.1 Logged MDT / Intra-frequency measurement, logging and reporting X X X 8.6.2.2 Logged MDT / Intra-frequency measurement, logging and reporting X X X 8.6.2.3 Logged MDT / Logging and reporting / Limiting area scope X X X X 8.6.2.3 Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity X X X 8.6.2.4 Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA x X x establishment 8.6.2.6 Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA restablishment Cogged MDT / Release of logged MDT measurement configuration / Expire of duration X X x 1 timer 8.6.2.7 Logged MDT / Maintaining logged measurement configuration / Reception of new 1 Logged MDT / Logging and reporting / Reporting at RRC connection establishment / X X x 1 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X x 1 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X x 1 Logged MDT / Logging and reporting / Reporting at Intra LTE handover / PLMN list X X 1 Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list	3.5.1.5	Radio link failure/Radio link recovery while T310 is running	Х	Х	-
8.5.1.7.1 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band X X X Contiguous CA 8.5.1.7.2 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band CA X X X 5.5.1.7.3 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band non-contiguous CA 8.5.1.7.3 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band non-contiguous CA 8.5.2.1 Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT X X 8.5.4.1 UE capability transfer/Success X X X X 8.5.4.2 Network-requested CA Band Combination Capability Signalling / Number of UE supported X X X CA band combinations less than or equal to 128 8.6.1.1 Immediate MDT / Reporting / Location information X X X 8.6.1.2 Immediate MDT / Reporting / Location information / Request from eNB / Event A2 X 8.6.2.1 Logged MDT / Intra-frequency measurement, logging and reporting X X X 8.6.2.2 Logged MDT / Intra-frequency measurement, logging and reporting X X X 8.6.2.3 Logged MDT / Logging and reporting / Limiting area scope X X X X 8.6.2.3 Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity X X X 8.6.2.4 Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA x X x establishment 8.6.2.6 Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA restablishment Cogged MDT / Release of logged MDT measurement configuration / Expire of duration X X x 1 timer 8.6.2.7 Logged MDT / Maintaining logged measurement configuration / Reception of new 1 Logged MDT / Logging and reporting / Reporting at RRC connection establishment / X X x 1 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X x 1 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X x 1 Logged MDT / Logging and reporting / Reporting at Intra LTE handover / PLMN list X X 1 Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list			Х	Χ	-
8.5.1.7.2 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Inter-band CA X X S.5.1.7.3 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band noncontiguous CA R.5.2.1 Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT X X S.5.4.1 UE capability transfer/Success X X X S.5.4.2 Network-requested CA Band Combination Capability Signalling / Number of UE supported X CA band combinations less than or equal to 128 S.6.1.1 Immediate MDT / Reporting / Location information MDT / Reporting / Location information / Request from eNB / Event A2 X S.6.2.1 Logged MDT / Intra-frequency measurement, logging and reporting X X X S.6.2.2 Logged MDT / Inter-frequency measurement, logging and reporting X X X S.6.2.2 Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity X X S.6.2.3 Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity X X S.6.2.4 Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA X X handover Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA restablishment X Logged MDT / Release of logged MDT measurement configuration / Reception of new Logged MDT / Release of logged MDT measurement configuration / Reception of new Logged MDT / Release of logged MDT measurement configuration / Reception of new Logged MDT / Maintaining logged measurement configuration / UE state transitions and X X mobility Logging and reporting / Reporting at RRC connection establishment / PLMN list Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X PLAN list Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X Logged MDT / Logging and reporting / Reporting at IRRC connection re-establishment / X X PLAN list Logged MDT / Logging and reporting / Reporting at IRRC connection re-establishment / X X	3.5.1.7.1	CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band	Х	Х	-
8.5.1.7.3 CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band noncontiguous CA 8.5.2.1 Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT X X 8.5.4.1 UE capability transfer/Success X X X 8.5.4.2 Network-requested CA Band Combination Capability Signalling / Number of UE supported X X CA band combinations less than or equal to 128 8.6.1.1 Immediate MDT / Reporting / Location information X X X 8.6.1.2 Immediate MDT / Reporting / Location information / Request from eNB / Event A2 X X 8.6.2.1 Logged MDT / Intra-frequency measurement, logging and reporting X X X 8.6.2.2 Logged MDT / Inter-frequency measurement, logging and reporting X X X 8.6.2.3 Logged MDT / Logging and reporting / Limiting area scope X X X 8.6.2.3 Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity X X X 8.6.2.3 Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA X X handover X Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA X X handover X Logged MDT / Release of logged MDT measurement configuration / Expire of duration X X timer X Logged MDT / Release of logged MDT measurement configuration / Reception of new X X logged measurement configuration, Detach or UE power off X Logged MDT / Maintaining logged measurement configuration / UE state transitions and X X logged measurement configuration / UE state transitions and X X logged MDT / Logging and reporting / Reporting at RRC connection establishment / PLMN   X X   Red.2.1 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X   X X   Red.2.1 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X   X X   Red.2.1 Logged MDT / Logging and reporting / Reporting at INTAN Inter-RAT handover / PLMN list X   X X   Red.2.1 Logged MDT / Logging and reporting / Reporting at INTAN Inter-RAT handover / PLMN list X   X X   Red.2.1 Radio Link Failure logging / Reporting of Intra-frequency measurem			Х	Х	-
8.5.2.1       Redirection to E-UTRAN / From UTRAN upon reception of RRC CONNECTION REJECT       X       X         8.5.4.1       UE capability transfer/Success       X       X         8.5.4.2       Network-requested CA Band Combination Capability Signalling / Number of UE supported       X       X         8.6.1.1       Immediate MDT / Reporting / Location information       X       X         8.6.1.1       Immediate MDT / Reporting / Location information / Request from eNB / Event A2       X         8.6.1.2       Immediate MDT / Intra-frequency measurement, logging and reporting       X       X         8.6.2.1       Logged MDT / Intra-frequency measurement, logging and reporting       X       X         8.6.2.2       Logged MDT / Logging and reporting / Limiting area scope       X       X         8.6.2.3       Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA       X       X         8.6.2.4       Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA restablishment       X       X         8.6.2.5       Logged MDT / Release of logged MDT measurement configuration / Expire of duration       X       X         8.6.2.6       Logged MDT / Release of logged measurement configuration / Expire of duration       X       X         8.6.2.7       Logged MDT / Maintaining logged measurement configuration / Expire of du	3.5.1.7.3	CA / No Radio link failure on Scell/ RRC Connection Continues on PCell / Intra-band non-			-
8.5.4.1       UE capability transfer/Success       X       X         8.5.4.2       Network-requested CA Band Combination Capability Signalling / Number of UE supported       X       X         8.6.4.2       Immediate MDT / Reporting / Location information       X       X         8.6.1.1       Immediate MDT / Reporting / Location information / Request from eNB / Event A2       X         8.6.2.1       Logged MDT / Intra-frequency measurement, logging and reporting       X       X         8.6.2.2.1       Logged MDT / Intra-frequency measurement, logging and reporting       X       X         8.6.2.3       Logged MDT / Logging and reporting / Limiting area scope       X       X         8.6.2.3       Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA       X       X         8.6.2.3       Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA restablishment       X       X         8.6.2.4       Logged MDT / Release of logged MDT measurement configuration / Expire of duration       X       X         8.6.2.5       Logged MDT / Release of logged MDT measurement configuration / Reception of new logged measurement / Reporting at RRC connection establishment / PLMN list       X       X         8.6.2.10       Logged			X	Χ	Χ
8.5.4.2   Network-requested CA Band Combination Capability Signalling / Number of UE supported CA band combinations less than or equal to 128					-
8.6.1.1   Immediate MDT / Reporting / Location information	3.5.4.2	Network-requested CA Band Combination Capability Signalling / Number of UE supported			-
8.6.1.2   Immediate MDT / Reporting / Location information / Request from eNB / Event A2   X   8.6.2.1   Logged MDT / Intra-frequency measurement, logging and reporting   X   X   X   8.6.2.2   Logged MDT / Inter-frequency measurement, logging and reporting   X   X   X   X   8.6.2.3   Logged MDT / Logging and reporting / Limiting area scope   X   X   X   X   X   X   X   X   X			X	Y	_
8.6.2.1   Logged MDT / Intra-frequency measurement, logging and reporting			Ŷ	^	
8.6.2.2   Logged MDT / Inter-frequency measurement, logging and reporting				~	
8.6.2.3   Logged MDT / Logging and reporting / Limiting area scope   X					
8.6.2.3a   Logged MDT / Logging and reporting / Limiting area scope / TAC list with PLMN identity					-
8.6.2.4   Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA   X   X   X   Nandover   Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA reestablishment   X   X   X   Nandover   Logged MDT / Release of logged MDT measurement configuration / Expire of duration   X   X   X   X   Nandover   X   X   X   X   X   X   X   X   X					
8.6.2.5   Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA reestablishment   X   X	3.6.2.4	Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA			-
Section   Logged MDT / Release of logged MDT measurement configuration / Expire of duration   X   X   X   Section   Logged MDT / Release of logged MDT measurement configuration / Reception of new logged measurement configuration, Detach or UE power off   Section   Logged MDT / Maintaining logged measurement configuration / UE state transitions and mobility   X   X   X   Section   Logged MDT / Location information   X   X   X   Section   Logged MDT / Logging and reporting / Reporting at RRC connection establishment / PLMN   X   X   Section   Logged MDT / Logging and reporting / Reporting at intra LTE handover / PLMN list   X   X   Section   Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X   X   Section   Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X   X   Section   Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list   X   Section   Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list   X   Section   Reporting of Intra-frequency measurements   X   X   Section   Reporting of Intra-frequency measurements   X   X   Section   Reporting of Intra-frequency measurements   X   X   Section   Reporting of Inter-frequency measurements   X   X   Section   Reporting of Inter-frequency measurements   X   X   Section   Reporting of Inter-frequency measurements   X   X   X   X   X   X   X   X   X	3.6.2.5	Logged MDT / Logging and reporting / Indication of logged measurements at E-UTRA re-	Х	Х	-
8.6.2.7   Logged MDT / Release of logged MDT measurement configuration / Reception of new logged measurement configuration, Detach or UE power off   8.6.2.8   Logged MDT / Maintaining logged measurement configuration / UE state transitions and mobility   8.6.2.9   Logged MDT / Location information   X   X   X     8.6.2.10   Logged MDT / Logging and reporting / Reporting at RRC connection establishment / PLMN   X   X     8.6.2.11   Logged MDT / Logging and reporting / Reporting at intra LTE handover / PLMN list   X   X   X     8.6.2.12   Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment /   X   X   X     8.6.3.1   Logged MDT / UTRAN Inter-RAT measurement, logging and reporting   X   8.6.3.4   Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list   X   X   8.6.4.1   Radio Link Failure logging / Reporting of Intra-frequency measurements   X   X   X   X     8.6.4.2   Radio Link Failure logging / Reporting of Inter-frequency measurements   X   X   X   X     Radio Link Failure logging / Reporting of Inter-frequency measurements   X   X   X     Radio Link Failure logging / Reporting of Inter-frequency measurements   X   X   X     Radio Link Failure logging / Reporting of Inter-frequency measurements   X   X   X	3.6.2.6	Logged MDT / Release of logged MDT measurement configuration / Expire of duration	Х	X	-
8.6.2.8   Logged MDT / Maintaining logged measurement configuration / UE state transitions and mobility   8.6.2.9   Logged MDT / Location information   X   X   X	3.6.2.7	Logged MDT / Release of logged MDT measurement configuration / Reception of new	Х	Х	-
8.6.2.9   Logged MDT / Location information   X   X   X	3.6.2.8	Logged MDT / Maintaining logged measurement configuration / UE state transitions and	Х	Х	-
8.6.2.10 Logged MDT / Logging and reporting / Reporting at RRC connection establishment / PLMN X X list  8.6.2.11 Logged MDT / Logging and reporting / Reporting at intra LTE handover / PLMN list X X X    8.6.2.12 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X    PLMN list			×	У	-
8.6.2.11   Logged MDT / Logging and reporting / Reporting at intra LTE handover / PLMN list	3.6.2.10	Logged MDT / Logging and reporting / Reporting at RRC connection establishment / PLMN	X	X	-
8.6.2.12 Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment / X X PLMN list  8.6.3.1 Logged MDT / UTRAN Inter-RAT measurement, logging and reporting X Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list X Radio Link Failure logging / Reporting of Intra-frequency measurements X X X 8.6.4.2 Radio Link Failure logging / Reporting of Inter-frequency measurements X X X			X	Х	-
8.6.3.1       Logged MDT / UTRAN Inter-RAT measurement, logging and reporting       X         8.6.3.4       Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list       X         8.6.4.1       Radio Link Failure logging / Reporting of Intra-frequency measurements       X       X         8.6.4.2       Radio Link Failure logging / Reporting of Inter-frequency measurements       X       X	3.6.2.12	Logged MDT / Logging and reporting / Reporting at RRC connection re-establishment /	X	X	-
8.6.3.4       Logged MDT / Logging and reporting / Reporting at UTRAN Inter-RAT handover / PLMN list X         8.6.4.1       Radio Link Failure logging / Reporting of Intra-frequency measurements       X       X         8.6.4.2       Radio Link Failure logging / Reporting of Inter-frequency measurements       X       X			X		Х
8.6.4.1       Radio Link Failure logging / Reporting of Intra-frequency measurements       X       X         8.6.4.2       Radio Link Failure logging / Reporting of Inter-frequency measurements       X       X					X
8.6.4.2 Radio Link Failure logging / Reporting of Inter-frequency measurements X X			X	X	-
					_
8.6.4.3 Radio Link Failure logging / Reporting at RRC connection establishment and X X X		Radio Link Failure logging / Reporting of Inter-frequency measurements  Radio Link Failure logging / Reporting at RRC connection establishment and	X	X	-

Test case	Description	FDD	TDD	T/F
	reestablishment			
8.6.4.4	Radio Link Failure logging / Reporting at E-UTRA handover	Χ	X	-
8.6.4.5	Radio Link Failure logging / Reporting of ECGI of the PCeII	Χ	Χ	-
8.6.4.7	Radio Link Failure logging / Location information	Χ	X	-
8.6.4.8	Radio Link Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list	Х	Х	-
8.6.4.9	Radio Link Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN list	Χ	Х	-
8.6.4.10	Radio Link Failure logging / Logging and reporting / Reporting at RRC connection re- establishment / PLMN list	Χ	Х	-
8.6.5.1	Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover	Χ	Х	Х
8.6.5.1a	Radio Link Failure logging / Reporting at UTRAN Inter-RAT handover / PLMN list	Х		Х
8.6.5.4	Radio Link Failure logging / Reporting of selected UTRA cell	Х	Х	Х
8.6.6.1	Handover Failure logging / Reporting of Intra-frequency measurements	Х	Х	-
8.6.6.2	Handover Failure logging / Reporting of Inter-frequency measurements	Х	Х	-
8.6.6.4	Handover Failure logging / Location information	Χ	Χ	-
8.6.6.5	Handover Failure logging / Logging and reporting / Reporting at RRC connection establishment / PLMN list	Х	Х	-
8.6.6.6	Handover Failure logging / Logging and reporting / Reporting at intra LTE handover / PLMN list	Х	Х	-
8.6.6.7	Handover Failure logging / Logging and reporting / Reporting at RRC connection re- establishment / PLMN list	Х	Х	-
8.6.7.1	Handover Failure logging / Reporting of UTRAN Inter-RAT measurements	Χ	Х	Х
8.6.7.2	Handover Failure logging / Reporting of GERAN Inter-RAT measurements	Х	Х	-
8.6.7.3	Handover Failure logging / Reporting of CDMA2000 Inter-RAT measurements	Х		-
8.6.7.4	Handover Failure logging / Reporting at UTRAN Inter-RAT handover / PLMN list	Х		
8.6.8.1	Connection Establishment Failure logging / Logging and reporting / T300 expiry	Χ	Χ	-
8.6.8.2	Connection Establishment Failure logging / Logging and reporting / Reporting at intra-LTE handover	Х	Х	-
8.6.8.3	Connection Establishment Failure logging / Logging and reporting / Reporting at RRC connection re-establishment	Х	Х	-
8.6.8.4	Connection Establishment Failure logging / Logging and reporting / Location Information	Х	Х	-
8.6.8.5	Connection Establishment Failure logging / Logging and reporting / Reporting of Intra- frequency measurements	Х	Х	-
8.6.8.6	Connection Establishment Failure logging / Logging and reporting / Reporting of Inter- frequency measurements	Х	Х	-
8.6.9.1	Connection Establishment Failure logging / Logging and reporting / Reporting at UTRAN Inter-RAT handover	Х	Х	Х
8.6.9.2	Connection Establishment Failure logging / Logging and reporting / Reporting of UTRAN Inter-RAT measurements	Х	Х	Х
8.6.9.3	Connection Establishment Failure logging / Logging and reporting / Reporting of GERAN Inter-RAT measurements	Х	Х	-
8.6.10.1	Inter-RAT Immediate MDT / Reporting / Location information / Event B2	Χ	Х	Х
8.6.11.1	RACH Optimisation	Х	Х	-
8.7.1	Inter-RAT / ANR measurement, logging and reporting / E-UTRAN cell	Х		
9.1.2.1	Authentication accepted	Х	X	-
9.1.2.3	Authentication not accepted by the network, GUTI used, authentication reject and reauthentication	Χ	Х	-
9.1.2.4	Authentication not accepted by the UE/MAC code failure	Х	Х	-
9.1.2.5	Authentication not accepted by the UE/SQN failure	Х	Х	-
9.1.2.6	Abnormal cases/Network failing the authentication check	Х	Х	-
9.1.2.7	Authentication not accepted by the UE/ non-EPS authentication unacceptable	Х	Х	-
9.1.3.1	NAS security mode command accepted by the UE	Χ	Х	-
9.1.3.2	NAS security mode command not accepted by the UE	Χ	Χ	-
9.1.3.3	No emergency bearer service / NAS security mode command with EIA0 not accepted by the UE	Χ	Х	-
9.1.4.2	Identification procedure/IMEI requested	Χ	Х	
9.1.5.1	EMM information procedure	Х	Х	
9.2.1.1.1	Attach Procedure/Success/Valid GUTI	Χ	Х	
9.2.1.1.1a	Attach/Success/Last visited TAI, TAI list and equivalent PLMN list handling	Χ	Х	
9.2.1.1.1b	Attach Procedure / Success / Last visited TAI, TAI list and equivalent PLMN list handling / Single Frequency operation	Х	Х	-
9.2.1.1.2	Attach Procedure/Success/With IMSI/GUTI reallocation	Χ	Х	-
9.2.1.1.2a	AttachWithIMSI configured / Selected PLMN is neither the registered PLMN nor in the list of equivalent PLMNs / Success	Х	X	-

Test case	·	FDD	TDD	T/F
9.2.1.1.7	Attach/Success/List of equivalent PLMNs in the ATTACH ACCEPT message	Х	X	-
9.2.1.1.7a	Attach Procedure / Success / List of equivalent PLMNs in the ATTACH ACCEPT message /	Χ	Χ	-
0.0.4.4.71	Single Frequency operation			
9.2.1.1.7b	Attach / Success / native GUMMEI	X	X	-
9.2.1.1.9	Attach/Rejected/IMSI invalid	X	X	-
9.2.1.1.10	Attach/Rejected/Illegal ME	X	X	-
9.2.1.1.11	Attach / Rejected / EPS services and non-EPS services not allowed	X	X	X
	Attach / Rejected / EPS services not allowed	X	X	Χ
	Attach/Rejected/PLMN not allowed	X	X	-
	Attach / Rejected / PLMN not allowed / Single Frequency operation	X	X	-
	Attach/Rejected/Tracking area not allowed  Attach/Rejected/Roaming not allowed in this tracking area	X	X	-
	Attach / Rejected / Roaming not allowed in this tracking area / Single Frequency operation	X	X	-
	Attach/Rejected/EPS services not allowed in this PLMN	X	X	-
	Attach / Rejected / EPS services not allowed in this PLMN / Single Frequency operation	X	X	
9.2.1.1.10a 9.2.1.1.17	Attach/Rejected/No suitable cells in tracking area	X	X	
9.2.1.1.17	Attach / Rejected / Not authorized for this CSG	X	X	
9.2.1.1.19	Attach/Abnormal case/Failure due to non integrity protection	X	X	
9.2.1.1.19	Attach/Abnormal case/Failure due to non integrity protection  Attach/Abnormal case/Access barred because of access class barring or NAS signalling	X	X	-
9.2.1.1.20	connection establishment rejected by the network	^	^	-
9.2.1.1.21	Attach/Abnormal case/Success after several attempts due to no network response	Χ	Х	
9.2.1.1.22	Attach/Abnormal case/Unsuccessful attach after 5 attempts	X	X	
9.2.1.1.23	Attach/Abnormal case/Repeated rejects for network failures	X	X	
9.2.1.1.24	Attach/Abnormal case/Change of cell into a new tracking area	X	X	
9.2.1.1.25	Attach/Abnormal case/Mobile originated detach required	X	X	
9.2.1.1.26	Attach/Abnormal case/Nobile originated detach required  Attach/Abnormal case/Detach procedure collision	X	X	-
	Attach / Abnormal case / Network reject with Extended Wait Timer	X	X	
9.2.1.1.27	Attach Procedure / EAB broadcast handling / Extended Walt Timer  Attach Procedure / EAB broadcast handling / ExtendedAccessBarring configured in the UE	X	X	
9.2.1.1.27a 9.2.1.1.28	Attach / Success / IMS	X	X	
	Attach / Success / IMS / Second PDN	X	X	
9.2.1.1.20a 9.2.1.1.29	Attach / Rejected / IMEI not accepted	X	X	
	Attach / Abnormal case / ESM failure	X	X	-
9.2.1.1.30		X	X	-
9.2.1.2.1 9.2.1.2.1b	Combined attach/Success/EPS and non-EPS services  Combined attach / Success / SMS only	X	X	X
	Combined attach / Success / Swis only  Combined attach procedure / Success / CS Fallback not preferred	X	X	X
9.2.1.2.1c 9.2.1.2.1d	Combined attach procedure / Success / CS Fallback not preferred / data centric	X	X	X
9.2.1.2.1u	UE	^	^	^
9.2.1.2.2	Combined attach / Success / EPS services only / IMSI unknown in HSS	Χ	Χ	-
9.2.1.2.3	Combined attach / Success / EPS services only / MSC temporarily not reachable	Χ	Χ	-
9.2.1.2.4	Combined attach/Success/EPS services only/CS domain not available	Χ	Χ	-
9.2.1.2.4a	Successful combined attach procedure / EPS service only / congestion	Χ	Х	-
9.2.1.2.5	Combined attach / Rejected / IMSI invalid	Χ	Χ	Х
9.2.1.2.6	Combined attach / Rejected / Illegal ME	Χ	Χ	Х
9.2.1.2.7	Combined attach / Rejected / EPS services and non-EPS services not allowed	Χ	Χ	Х
9.2.1.2.8	Combined attach / Rejected / EPS services not allowed	Χ	Χ	Х
9.2.1.2.9	Combined attach / Rejected / PLMN not allowed	Χ	Χ	Х
9.2.1.2.10	Combined attach / Rejected / Tracking area not allowed	Χ	Χ	-
9.2.1.2.11	Combined attach / Rejected / Roaming not allowed in this tracking area	Χ	Χ	Х
9.2.1.2.12	Combined attach / Rejected / EPS services not allowed in this PLMN	Χ	Χ	-
9.2.1.2.13	Combined attach / Rejected / No suitable cells in tracking area	Χ	Χ	Х
9.2.1.2.14	Combined attach / Rejected / Not authorized for this CSG	Χ	Χ	-
9.2.1.2.15	Combined attach / Abnormal case / Handling of the EPS attach attempt counter	Χ	Χ	Χ
9.2.2.1.1	UE initiated detach/UE switched off	Х	Χ	-
9.2.2.1.2	UE initiated detach/USIM removed from the UE	Χ	Χ	-
9.2.2.1.3	UE initiated detach/EPS capability of the UE is disabled	Х	Χ	Χ
9.2.2.1.4	UE initiated detach / detach for non-EPS services	Χ	Χ	-
9.2.2.1.6	UE initiated detach/Abnormal case/Local detach after 5 attempts due to no network	Х	Х	-
0.001=	response		.,	
9.2.2.1.7	UE initiated detach/Abnormal case/Detach procedure collision	Х	Х	-
9.2.2.1.8	UE initiated detach/Abnormal case/Detach and EMM common procedure collision	X	X	-
9.2.2.1.9	UE initiated detach/Abnormal case/Change of cell into a new tracking area	X	X	-
9.2.2.1.10 9.2.2.2.1	UE initiated detach / Mapped security context	X	X	Х
	NW initiated detach/Re-attach required	Χ	Χ	-

Test case	Description	FDD	TDD	T/F
9.2.2.2.2	NW initiated detach/IMSI detach	Χ	Χ	-
9.2.2.2.14	NW initiated detach/Abnormal case/EMM cause not included	Χ	Χ	-
9.2.3.1.1	Normal tracking area update/Accepted	Х	Х	-
9.2.3.1.4	Normal tracking area update/List of equivalent PLMNs in the TRACKING AREA UPDATE ACCEPT message	Х	Х	-
9.2.3.1.5	Periodic tracking area update/Accepted	Χ	Χ	-
9.2.3.1.5a	Periodic tracking area update / Accepted / Per-device timer	X	X	-
9.2.3.1.6	Normal tracking area update / UE with ISR active moves to E-UTRAN	Χ	Χ	Χ
9.2.3.1.8	UE receives an indication that the RRC connection was released with cause "load balancing TAU required"	Х	Х	-
9.2.3.1.8a	Normal tracking area update / low priority override	Х	X	-
9.2.3.1.8b	Normal tracking area update / EAB active	Χ	Χ	-
9.2.3.1.9	Normal tracking area update / Correct handling of CSG list	Χ	Χ	-
9.2.3.1.9a	Normal tracking area update/NAS signalling connection recovery	X	Х	-
9.2.3.1.10	Normal tracking area update / Rejected / IMSI invalid	X	X	Χ
9.2.3.1.11	Normal tracking area update / Rejected / Illegal ME	X	X	Χ
9.2.3.1.12	Normal tracking area update / Rejected / EPS service not allowed	X	Х	X
9.2.3.1.13	Normal tracking area update/Rejected/UE identity cannot be derived by the network	X	X	-
9.2.3.1.14	Normal tracking area update/Rejected/UE implicitly detached	Х	X	-
9.2.3.1.15	Normal tracking area update / Rejected / PLMN not allowed	X	X	Χ
	Normal tracking area update / Rejected / PLMN not allowed / Single Frequency operation	X	Χ	Χ
9.2.3.1.16	Normal tracking area update/Rejected/Tracking area not allowed	Χ	Χ	-
9.2.3.1.17	Normal tracking area update / Rejected / Roaming not allowed in this tracking area	Χ	Χ	Χ
9.2.3.1.18	Normal tracking area update / Rejected / EPS services not allowed in this PLMN	Х	X	X
9.2.3.1.18a	Normal tracking area update / Rejected / EPS services not allowed in this PLMN / Single Frequency operation	Х	Х	Χ
9.2.3.1.19	Normal tracking area update/Rejected/No suitable cells in tracking area	Х	Х	-
9.2.3.1.20	Normal tracking area update / Rejected / Not authorized for this CSG	Х	Χ	-
9.2.3.1.20a	Normal tracking area update / Rejected / Congestion	Х	Χ	-
9.2.3.1.22	Normal tracking area update / Abnormal case / access barred due to access class control or NAS signalling connection establishment rejected by the network		Х	-
9.2.3.1.23	Normal tracking area update/Abnormal case/Success after several attempts due to no network response/TA belongs to TAI list and status is UPDATED	Х	Х	-
9.2.3.1.25	Normal tracking area update/Abnormal case/Failure after 5 attempts due to no network response	Х	X	-
9.2.3.1.26	Normal tracking area update/Abnormal case/TRACKING AREA UPDATE REJECT	Х	Χ	_
9.2.3.1.27	Normal tracking area update/Abnormal case/Change of cell into a new tracking area	X	X	_
9.2.3.1.28	Normal tracking area update/Abnormal case/Tracking area updating and detach procedure collision	X	X	-
9.2.3.2.1	Combined tracking area update/Successful	Х	Х	_
9.2.3.2.1a	Combined tracking area update / Successful / Check of last visited TAI and handling of TAI list, LAI and TMSI	X	X	Х
9.2.3.2.1b	Combined tracking area update / Success / SMS only	Х	Х	Х
9.2.3.2.1c	Combined tracking area update / Success / CS Fallback not preferred	X	X	X
9.2.3.2.2	Combined tracking area update / Successful for EPS services only / IMSI unknown in HSS	X	X	
9.2.3.2.3	Combined tracking area update / Successful for EPS services only / MSC temporarily not reachable	X	X	Х
9.2.3.2.4	Combined tracking area update / Successful for EPS services only / CS domain not available	Х	Х	-
9.2.3.2.4a	Combined tracking area update / Successful for EPS services only / congestion	Х	Χ	-
9.2.3.2.5	Combined tracking area update / Rejected / IMSI invalid	X	Χ	Χ
9.2.3.2.6	Combined tracking area update / Rejected / Illegal ME	Х	Х	Х
9.2.3.2.7	Combined tracking area update / Rejected / EPS services and non-EPS services not allowed	Х	Х	Х
9.2.3.2.8	Combined tracking area update / Rejected / EPS services not allowed	X	X	X
9.2.3.2.9	Combined tracking area update / Rejected / UE identity cannot be derived by the network	X	X	Х
9.2.3.2.10	Combined tracking area update / Rejected / UE implicitly detached	X	X	- V
9.2.3.2.11	Combined tracking area update / Rejected / PLMN not allowed	X	X	Χ
9.2.3.2.12	Combined tracking area update / Rejected / Tracking area not allowed	X	X	- X
9.2.3.2.13	Combined tracking area update / Rejected / Roaming not allowed in this tracking area	X	X	X
9.2.3.2.14	Combined tracking area update / Rejected / EPS services not allowed in this PLMN Combined tracking area update / Rejected / No suitable cells in tracking area	X	X	
9.2.3.2.15	Combined tracking area update / Rejected / No suitable cells in tracking area  Combined tracking area update / Rejected / Not authorized for this CSG	X		-
9.2.3.2.16		X	X	-
9.2.3.2.17	Combined tracking area update / Abnormal case / handling of the EPS tracking area	_ ^	^	-

9.2.3.3.2 Immode to S1 mode inter-system change after attach 9.2.3.3.2 Immode to S1 mode intersystem change / ISR is active / Expiry of T3312 in E-UTRAN or X X X Expired mode to S1 mode intersystem change / Periodic TAU and RAU / ISR activated, T34xx x expired	Test case	,	FDD	TDD	T/F
But node to S1 mode intersystem change / ISR is active / Expiry of T3312 in E-UTRAN or T3412 in UTRAN and further intersystem change / Periodic TAU and RAU / ISR activated, T34xx sylepted   S1 mode intersystem change / Periodic TAU and RAU / ISR activated, T34xx sylepted   S2.33.4   First S1 mode to 1 mode intersystem change / Periodic TAU and RAU / ISR activated, T34xx sylepted   S2.33.5   Periodic routing area update   X X X X X X X X X X X X X X X X X X		updating attempt counter			
### T3412 in UTRAN and further intersystem change   Periodic TAU and RAU / ISR activated, T34xx   x   expired   ### spired   x   expired   x   x   x   x   x   x   x   x   x	9.2.3.3.1		Х	X	
expired  9.2.3.3.4 First S1 mode to lu mode inter-system change after attach  8.2.3.3.5 Periodic routing area update  9.2.3.3.5 Periodic routing area update  9.2.3.1 TAU/RAU procedure for inter-system cell reselection between A/Gb and S1 modes  8.2.3.4.1 TAU/RAU procedure for inter-system cell reselection between A/Gb and S1 modes  9.3.1.1 Service request / Mepicted / Ingland CS fallback  8.2.3.4.1 Service request / Rejected / Ingland ME  9.3.1.4 Service request / Rejected / Ingland ME  9.3.1.5 Service request / Rejected / Ingland ME  9.3.1.7 Service request / Rejected / Ingland ME  9.3.1.1 Service request / Rejected / Ingland C annot be derived by the network  8.2.2 X X X X X X X X X X X X X X X X X X	9.2.3.3.2	T3412 in UTRAN and further intersystem change	Х	Х	Х
9.2.3.3.5 Periodic routing area update 9.2.3.5 Periodic routing area update 9.2.3.4.1 TAL/RAU procedure for inter-system cell reselection between A/Gb and S1 modes 9.2.3.4.1 TAL/RAU procedure for inter-system cell reselection between A/Gb and S1 modes 9.3.1.1 Service request initiated by UE for user data 9.3.1.1 Service request A/Rejected / IMSI invalid 9.3.1.3 Service request / Rejected / IMSI invalid 9.3.1.3 Service request / Rejected / IMSI invalid 9.3.1.1 Service request / Rejected / IMSI invalid 9.3.1.7 Service request / Rejected / IMSI invalid 9.3.1.7 Service request / Rejected / EPS services not allowed 9.3.1.7 Service request / Rejected / EPS services not allowed 9.3.1.7 Service request / Rejected / EPS services not allowed 9.3.1.7 Service request / Rejected / EPS services not allowed 9.3.1.7 Service request / Rejected / EPS services request / Rejected / EPS service request / Rejected / EPS service request / E	9.2.3.3.3		Х	Х	Х
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Integrity protection/Correct functionality of EPS NAS integrity algorithm/SNOW3G					-
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Integrity protection / Correct functionality of EPS NAS integrity algorithm / ZUC					
Ciphering and deciphering / Correct functionality of EPS NAS encryption algorithm / ZUC					
10.2.1   Dedicated EPS bearer context activation/Success					-
10.3.1   EPS bearer context modification/Success					1
10.4.1   EPS bearer context deactivation/Success   X					
10.4.2   EPS bearer context deactivation / Re-establishment					
UE requested PDN connectivity procedure accepted by the network				X	
UE requested PDN connectivity accepted / Dual priority / T3396 override					-
UE requested PDN connectivity accepted / Dual priority / T3346 override					-
UE requested PDN connectivity procedure not accepted					
UE requested PDN connectivity not accepted / Network reject with Extended Wait Timer					
UE requested PDN disconnect procedure accepted by the network					
UE requested bearer resource allocation, accepted by the network/New EPS bearer context					<del>-</del>
UE requested bearer resource allocation accepted by the network/Existing EPS bearer context  10.7.3 UE requested bearer resource allocation not accepted by the network  10.7.4 UE requested bearer resource allocation/Expiry of timer T3480  10.7.5 UE requested bearer resource allocation/Expiry of timer T3480  10.7.5 UE requested bearer resource allocation / BEARER RESOURCE ALLOCATION REJECT message including cause #43 "unknown EPS bearer context"  10.8.1 UE requested bearer resource modification accepted by the network/New EPS bearer context  10.8.2 UE requested bearer resource modification accepted by the network/Existing EPS bearer context  10.8.3 UE requested bearer resource modification not accepted by the network  10.8.4 UE requested bearer resource modification / Cause #36 "regular deactivation"  10.8.5 UE requested bearer resource modification / BEARER RESOURCE MODIFICATION  REJECT message including cause #43 "unknown EPS bearer context"  10.8.6 UE requested bearer resource modification / Collision of a UE requested bearer resource modification / Collision of a UE requested bearer resource modification / Expiry of timer T3481  10.8.7 UE requested bearer resource modification / Expiry of timer T3481  10.8.8 UE requested bearer resource modification / Expiry of timer T3481  10.8.9 UE requested bearer resource modification / Expiry of timer T3481  10.8.1 UE routing of uplinks packets  10.8.2 UE requested bearer resource modification / Expiry of timer T3481  10.8.3 UE requested bearer resource modification / Expiry of timer T3481  10.8.4 UE requested bearer resource modification / Expiry of timer T3481  10.8.5 UE requested bearer resource modification / Expiry of timer T3481  10.8.4 UE requested bearer resource modification / Expiry of timer T3481  10.8.5 UE requested bearer resource modification / Expiry of timer T3481  10.8.6 UE requested bearer resource modification / Expiry of timer T3481  10.8.7 UE requested bearer resource modification / Expiry of timer T3481  10.8.8 UE requested bearer resource modifica				X	
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UE requested bearer resource allocation not accepted by the network	10.7.2		<b>X</b>	^	-
UE requested bearer resource allocation/Expiry of timer T3480	10.7.2			V	
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UE requested bearer resource modification accepted by the network/New EPS bearer x x x - context  UE requested bearer resource modification accepted by the network/Existing EPS bearer x x x - context  UE requested bearer resource modification not accepted by the network x x x - context  UE requested bearer resource modification / Cause #36 "regular deactivation" x x x - context  UE requested bearer resource modification / BEARER RESOURCE MODIFICATION x x x - context y x x - context y x x x x x x x x x x x x x x x x x x	10.7.5			^	
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UE requested bearer resource modification not accepted by the network	10.8.2	UE requested bearer resource modification accepted by the network/Existing EPS bearer	Х	Х	-
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REJECT message including cause #43 "unknown EPS bearer context"  10.8.6 UE requested bearer resource modification / Collision of a UE requested bearer resource modification procedure and EPS bearer context deactivation procedure  10.8.7 UE requested bearer resource modification / Expiry of timer T3481 X X - 10.9.1 UE routing of uplinks packets X X - 11.1.1 MT-SMS over SGs/Idle mode X X X - 11.1.2 MT-SMS over SGs/Active mode X X X - 11.1.3 MO-SMS over SGs/Idle mode X X X - 11.1.3 MO-SMS over SGs/Idle mode X X X - 11.1.3 MO-SMS over SGs/Idle mode					
UE requested bearer resource modification / Collision of a UE requested bearer resource	10.0.0		^	^	_
10.8.7         UE requested bearer resource modification / Expiry of timer T3481         X         X         -           10.9.1         UE routing of uplinks packets         X         X         -           11.1.1         MT-SMS over SGs/Idle mode         X         X         -           11.1.2         MT-SMS over SGs/Active mode         X         X         -           11.1.3         MO-SMS over SGs/Idle mode         X         X         -	10.8.6	UE requested bearer resource modification / Collision of a UE requested bearer resource	Х	Х	-
10.9.1         UE routing of uplinks packets         X         X         -           11.1.1         MT-SMS over SGs/Idle mode         X         X         -           11.1.2         MT-SMS over SGs/Active mode         X         X         -           11.1.3         MO-SMS over SGs/Idle mode         X         X         -	10 8 7		X	X	_
11.1.1         MT-SMS over SGs/Idle mode         X         X         -           11.1.2         MT-SMS over SGs/Active mode         X         X         -           11.1.3         MO-SMS over SGs/Idle mode         X         X         -					1
11.1.2         MT-SMS over SGs/Active mode         X         X         -           11.1.3         MO-SMS over SGs/Idle mode         X         X         -					
11.1.3 MO-SMS over SGs/Idle mode X X -					_
					<u> </u>
TITLE TOO ESPECIAL SERVENTINE HOUSE	11.1.4	MO-SMS over SGs/Active mode	X	X	

Test case	Description	FDD	TDD	T/F
11.1.5	Multiple MO-SMS over SGs / Idle mode	Χ	Χ	-
11.1.6	Multiple MO-SMS over SGs / Active mode	Χ	Χ	-
11.2.1	Emergency bearer services / Normal cell / NORMAL-SERVICE / Local Emergency Numbers List sent in the Attach / PDN connect new emergency EPS bearer context /	Х	Х	-
	Service request / Emergency PDN disconnect			
11.2.2	Emergency bearer services / Normal cell / LIMITED-SERVICE / Attach / PDN connect /	X	Χ	-
44.0.0	Service request / PDN disconnect / Detach / Temporary storage of EMM information			
11.2.3	Emergency bearer services / CSG cell / LIMITED-SERVICE / Attach / Security mode control procedure without prior authentication / PDN connect / Service request / PDN disconnect /	Χ	Х	-
	Detach upon UE switched off / Temporary storage of EMM information			
11.2.4	Emergency bearer services / Normal cell / NO-IMSI / Attach / No EPS security context / PDN connect / Service request / Timer T3412 expires	Χ	Х	-
11.2.5	Emergency bearer services / Normal cell / NORMAL-SERVICE / Local Emergency Numbers List NOT sent in the Attach / PDN connect new emergency EPS bearer context /	Х	Х	-
	Authentication SQN code failure - MME aborts authentication continues using current			
11.2.6	security context / Service request / Emergency PDN disconnect  Handling of Local Emergency Numbers List provided during Attach and Normal tracking area update	Х	Х	-
11.2.8	procedures  Attach for emergency bearer services / Rejected / No suitable cells in tracking area /	Х	Х	Х
11.2.10	Emergency call using the CS domain / UTRA or GERAN LIMITED-SERVICE / EPS does not support IMS Emergency / Emergency call using the CS	Х	Х	Х
	domain			
11.2.11	LIMITED-SERVICE / Inter-system mobility / E-UTRA to UTRA CS / SRVCC Emergency Call Handover to UTRAN	Х	Χ	Х
11.2.12	LIMITED-SERVICE / Inter-system mobility / E-UTRA to GSM CS / SRVCC Emergency Call Handover to GERAN	Х	Х	-
12.2.1	Data transfer of E-UTRA radio bearer combinations 1, 3, 6 and 9	Χ	Χ	-
12.2.2	Data transfer of E-UTRA radio bearer combinations 2, 4, 7 and 10	Χ	Χ	-
12.2.3	Data transfer of E-UTRA radio bearer combinations 5, 6, 8, 11 and 12	Χ	Χ	-
12.2.4	Data transfer of E-UTRA radio bearer combination 13	X	X	-
12.3.1	Data transfer of E-UTRA radio bearer combinations 1, 3, 6 and 9 / MIMO	X	Х	-
12.3.2	Data transfer of E-UTRA radio bearer combinations 2, 4, 7 and 10 / MIMO	X	X	-
12.3.3	Data transfer of E-UTRA radio bearer combinations 5, 6, 8, 11 and 12 / MIMO	X	X	-
12.3.4	Data transfer of E-UTRA radio bearer combination 13 / MIMO	X	X	-
13.1.1	Activation and deactivation of additional data radio bearer in E-UTRA	X	X	- V
13.1.2 13.1.2a	Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection / MO call Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection including	X	X	X
13.1.3	System Information / MO call  Call setup from E-UTRAN RRC_CONNECTED / CS fallback to UTRAN with redirection /	Х	Х	Х
40.4.4	MT call			
13.1.4 13.1.5	Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with handover / MT call Call setup from E-UTRAN RRC_CONNECTED / CS fallback to UTRAN with handover / MO	X	X	X
10.1-	call			
13.1.7 13.1.8	Call setup from E-UTRA RRC_IDLE / CS fallback to GSM with redirection / MT call Call setup from E-UTRA RRC_CONNECTED / CS fallback to GSM with redirection / MO	X	X	-
13.1.9	call   Call setup from E-UTRA RRC   IDLE / CS fallback to GSM with CCO without NACC / MO	Χ	Х	_
13.1.10	call Call setup from E-UTRA RRC_CONNECTED / CS fallback to GSM with CCO without	Х	Х	_
	NACC / MT call			
13.1.15	Call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with redirection / MT call / UTRAN cell is barred	Х	Х	Х
13.1.16	Emergency call setup from E-UTRAN RRC_IDLE / CS fallback to UTRAN with handover	Χ	Χ	Χ
13.1.17	Call setup from E-UTRAN RRC_IDLE / mobile originating 1xCS fallback emergency call to 1xRTT	Χ	Х	-
13.1.18	Call setup from E-UTRAN RRC_IDLE / mobile originating enhanced 1xCS fallback emergency call to 1xRTT	Х	Х	-
13.1.19	Emergency call setup from E-UTRAN RRC_IDLE / IMS VoPS supported / EMC BS not supported / CS fallback to UTRAN or GERAN with redirection	Х	Х	Х
13.1.20	Emergency call setup from E-UTRAN RRC_IDLE / IMS VoPS not supported / EMC BS	X X X		Х
13.2.1	supported / CS fallback to UTRAN or GERAN with redirection RRC connection reconfiguration/E-UTRA to E-UTRA	Х	Х	
13.2.1	Intra-system connection re-establishment/Radio link recovery while T310 is running	X	X	_
13.3.1.2	Intra-system connection re-establishment/Re-establishment of a new connection when	X	X	-
10.0.1.2	further data is to be transferred	^	^	

Test case	Description	FDD	TDD	T/F
13.3.1.3	RRC connection reconfiguration / Full configuration / DRB establishment	Χ	Χ	-
13.3.2.1	Inter-system connection re-establishment / E-UTRAN to UTRAN / Further data are to be transferred	Χ	Х	Χ
13.3.2.2	Inter-system connection re-establishment / E-UTRAN to GPRS / Further data are to be transferred	Х	Х	ı
13.4.1.2	Inter-frequency mobility/E-UTRA to E-UTRA packet	Χ	Χ	-
13.4.1.3	Intra-system mobility / E-UTRA FDD to E-UTRA TDD to E-UTRA FDD packet	Χ	Χ	-
13.4.1.4	Inter-band mobility / E-UTRA to E-UTRA packet	Χ	Χ	-
13.4.1.5	RRC connection reconfiguration / Handover / Full configuration / DRB establishment	Χ	Χ	
13.4.2.1	Inter-system mobility / E-UTRA to UTRA packet	Χ	Χ	Х
13.4.2.4	Inter-system mobility / Service based redirection from UTRA to E-UTRA	Χ	Χ	Χ
13.4.2.5	Inter-system mobility / Service based redirection from GSM/GPRS to E-UTRA	Χ	Χ	-
13.4.3.1	Inter-system mobility / E-UTRA voice to UTRA CS voice / SRVCC	X		<b></b>
13.4.3.2	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / SRVCC	X		<del>                                     </del>
13.4.3.3 13.4.3.4	Inter-system mobility / E-UTRA voice to GSM CS voice / SRVCC Inter-system mobility / E-UTRA voice to UTRA CS voice / Unsuccessful case / Retry on old	X	Х	-
13.4.3.5	cell / SRVCC Inter-system mobility / E-UTRA voice to GSM CS voice / Unsuccessful case / Retry on old	Χ	X	-
13.4.3.6	cell / SRVCC Inter-system mobility / E-UTRA PS voice + PS Data / HO cancelled / Notification procedure	Χ		Х
	/ SRVČC			<u></u>
13.4.3.7	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call	Χ		Х
13.4.3.8	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call / Forked responses	Х		Х
13.4.3.9	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MO call / SRVCC HO failure	Χ	Х	Х
13.4.3.10	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call	Χ		Х
13.4.3.11	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call / SRVCC HO failure	Χ	Χ	Х
13.4.3.13	Inter-system mobility / E-UTRA voice to UTRA CS voice / aSRVCC / MT call / User answers in PS domain / SRVCC HO cancelled	Х	Х	Х
13.4.3.14	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MO call	Χ		Χ
13.4.3.15	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MO call / SRVCC HO cancelled	Х		Х
13.4.3.16	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / aSRVCC / MT call	Х		Х
13.4.3.18	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / bSRVCC / MO call	Х		
13.4.3.19	Inter-system mobility / E-UTRA PS voice + PS data to UTRA CS voice + PS data / bSRVCC / MO call / SRVCC HO cancelled	Х		Х
13.4.3.20	Inter-system mobility / E-UTRA voice to UTRA CS voice / bSRVCC / MO call / SRVCC HO failure	Χ		Χ
13.4.3.21	Inter-system mobility / E-UTRA PS voice to GSM CS voice / bSRVCC / MO call	Χ	Χ	-
13.4.3.22	Inter-system mobility / E-UTRA PS voice to GSM CS voice / bSRVCC / MO call / SRVCC HO cancelled	Х	Х	- 
13.4.3.23	Inter-system mobility / E-UTRA voice to GSM CS voice / bSRVCC / MO call / SRVCC HO failure	Χ	Χ	-
13.4.3.24	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call	X	X	-
13.4.3.25	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call / Forked responses	Χ	Х	-
13.4.3.26	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MO call / SRVCC HO failure	Х	Х	-
13.4.3.27	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call	Χ	Χ	-
13.4.3.28	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call / SRVCC HO failure	Χ	Х	-
13.4.3.30	Inter-system mobility / E-UTRA voice to GSM CS voice / aSRVCC / MT call / User answers in PS domain/ SRVCC HO cancelled	Х	Х	-
13.4.3.32	Inter-system mobility / UTRA CS voice to E-UTRA voice / rSRVCC	Χ		
13.4.3.34	Inter-system mobility / UTRA CS voice to E-UTRA voice / alerting / rSRVCC / MO call	Χ		
13.4.3.41	Inter-system mobility / E-UTRA PS voice to GSM CS voice / HO cancelled / Notification procedure / SRVCC	Х	Х	-
13.4.4.1	Pre-registration at 1xRTT and Cell reselection / 1x Zone Registration	Χ	Χ	-
13.4.4.2	Pre-registration at 1xRTT and Cell reselection / 1x Ordered Registration	X	.,	<u> </u>
13.4.4.5	Pre-Registration at 1xRTT / Power Down Registration	Χ	Χ	-

Test case	Description	FDD	TDD	T/F
13.5.1	MTSI MO speech call / SSAC / 0% access probability for MTSI MO speech call	Х	Х	-
13.5.1a	MTSI MO speech call / SSAC in Connected mode / 0% access probability for MTSI MO speech call	Х	Х	1
13.5.2	MTSI MO video call / SSAC / 0% access probability for MTSI MO video call	Х	Х	-
13.5.2a	MTSI MO video call / SSAC in connected mode / 0% access probability for MTSI MO video call	Х	Х	-
13.5.3	Emergency call / Success / SSAC / 0% access probability for MTSI MO speech call	Х	X	-
13.5.3a	Emergency call / Success / SSAC in connected mode / 0% access probability for MTSI MO speech call	Х	Х	-
14.1	ETWS reception in RRC_IDLE state / Duplicate detection	Х		-
14.2	ETWS reception in RRC_CONNECTED state / Duplicate detection	Х		-
17.1.1	MCCH information acquisition/ UE is switched on	Х	Х	-
17.1.2	MCCH information acquisition/UE cell reselection to a cell in a new MBSFN area	Х	Х	-
17.1.3	MCCH information acquisition/UE handover to a cell in a new MBSFN area	Х	Х	-
17.1.4	MCCH information acquisition/ UE is receiving an MBMS service	Х	X	-
17.1.5	MCCH information acquisition/UE is not receiving MBMS data	X	X	-
17.2.1	UE acquire the MBMS data based on the SIB13 and MCCH message / MCCH and MTCH are on the same MCH	X	X	-
17.2.2	UE acquire the MBMS data based on the SIB13 and MCCH message / MCCH and MTCH are on different MCHs	Х	Х	-
17.2.3	UE receives the MBMS data when this data is in the beginning of the MSAP	Х	Χ	-
17.2.4	Reception of PDCCH DCI format 0 and PHICH in MBSFN subframes.	Х	Х	-
17.3.1	MBMS Counting / UE not receiving MBMS service	Х	Х	-
17.3.2	MBMS Counting / UE receiving MBMS service	Х	Х	-
17.4.1	Cell reselection to intra-frequency cell to start MBMS service	X	X	-
17.4.1a	Cell reselection to intra-frequency cell to continue MBMS service reception / Single Frequency operation (inter-band neighbouring cell)	Х	Х	-
17.4.2	Cell reselection to inter- frequency cell to start MBMS service	Х	Х	-
17.4.2a	Cell reselection to inter- band cell to start MBMS service reception	Х	Х	-
17.4.3	Handover to inter-frequency cell to start MBMS service reception	Х	Х	-
17.4.3a	Handover to inter-band cell to start MBMS service reception	X	X	-
17.4.4	MBMS service continuity / Handover to inter-frequency cell / MBMS Interest Indication on cell not broadcasting SIB15	X	X	-
17.4.5	Conditional retransmission of MBMS Interest Indication after handover	Х	Х	-
17.4.6	MBMS service continuity / E-UTRAN release of unicast bearer	X	X	-
17.4.7	MBMS Interest Indication after Radio Link Failure	X	X	-
17.4.8	Continue MBMS service reception after E-UTRAN release of unicast bearer	X	X	-
17.4.9.1	CA / Start MBMS reception on Non-Serving Cell / Continue MBMS reception on SCell after SCell addition / Intra-band Contiguous CA	X		-
17.4.9.2	CA / Start MBMS reception on Non-Serving Cell / Continue MBMS reception on SCell after SCell addition / Inter-band CA	Х		-
17.4.10.1	A / Start MBMS reception on SCell / Continue MBMS reception on Non-Serving after SCell release / ra-band Contiguous CA		Х	-
17.4.10.2	CA / Start MBMS reception on SCell / Continue MBMS reception on Non-Serving after SCell release / Inter-band CA	Х	Х	-
17.4.11.1	CA / Start MBMS reception on PCell / Continue MBMS reception after swap of SCell and PCell / Intraband Contiguous CA	X X X		-
17.4.11.2	CA / Start MBMS reception on PCell / Continue MBMS reception after swap of SCell and PCell / Interband CA			
18.1.1	PWS reception in RRC_IDLE state / Duplicate detection	Х	-	-
18.1.2	PWS reception in RRC_CONNECTED state / Duplicate detection	Х	-	-
18.1.3	PWS reception in RRC_CONNECTED State/Power On	X	-	-

The Test Suite in TTCN3 is contained in multiple ASCII files which accompany the present document.

# Annex B (informative): Style Guides

#### B.1 Introduction

This annex is based on the style guide given in TS 34.123-3 [7], annex E but the language for UE conformance tests is TTCN-3.

# B.2 General Requirements for TTCN-3 Implementations

The TTCN-3 implementation for UE conformance tests shall be based on the following general design considerations:

- Even though it is not reflected in TTCN-3 anymore in UE conformance tests ASPs and PDUs will still be distinguished. This has impact on type definitions and naming conventions.
- In general, templates for UE conformance tests shall be separated for sending and receiving.
- Modified templates shall not be modified again.
- All local variables shall be declared at the beginning of a function;
   the order of declarations is:
  - local constants
  - local variables
  - local timers
- The purpose of the test case implementation is conformance testing.
- The common RAN5 approval process needs to be considered.

The TTCN-3 implementation for UE conformance tests shall fulfil the following requirements.

#### The implementation shall:

- follow ES 201 873-1 [13] (TTCN-3 Core Language) and ES 201 873-4 [27] (TTCN-3 Operational Semantics);
- be independent from interface specifications like TRI (ES 201 873-5 [28]) and TCI (ES 201 873-6 [29]) as well as from proprietary approaches;
- not use or rely on tool dependent features;
- support maintainability and extendibility;
- follow the naming conventions as defined below.

#### Further requirements:

- Usage of external functions should be avoided.
- Type definitions:
  - Existing ASN.1 type definitions contained in protocol specifications are imported from the respective standards. All other type definitions shall be done within TTCN-3.

# **B.3** Naming Conventions

Even though these are being used for TTCN-3 the naming conventions provided in the present document are mainly backward compatible to TTCN-2 as defined in TS 34.123-3 [7].

# B.3.1 Prefixes and Restrictions for TTCN-3 Objects

Table B.3.1: Prefixes used for TTCN-3 objects

TTCN object	Initial Letter	Prefix/ Postfix	Comment
TTCN module	upper case	(none)	
TTCN group	upper case	(none)	
function parameter	upper case	p_	
function running on a component	upper case	f	
local function (tree) not to be used by other modules	upper case	fl_	local function not to be used by other modules
external function	upper case	fx_	
altstep	upper case	a_	(including defaults)
test case selection expression			name as specified in TS 36.523-2 [2] shall be used
global constant	upper case	tsc_	(see note 1)
local constant	upper case	const_	local constant being defined in a function
Enumerated		(none)	there are no restrictions regarding enumerated types
type definition	upper case	_Type	(see note 7)
local variable	upper case	V_	(see note 6)
global (component) variable	upper case	VC_	(see note 2)
port type	upper case		
port name	upper case		
local timer	upper case	t_	
ASP template	upper case	cas_ cads_ car_ cadr_	send ASP modified (derived) send ASP receive ASP modified (derived) receive ASP
PDU template	upper case	cs_ cds_ cr_ cdr_	send PDU modified (derived) send PDU receive PDU modified (derived) receive PDU (see note 3)
CM template	upper case	cms_ cmr	send coordination message receive coordination message
Template (neither ASP nor PDU nor CM)	upper case	cs_ cds_ cr_ cdr_ cdr_	send template modified (derived) send template receive template modified (derived) receive template templates for IEs used in both directions (see note 5)
test suite parameter (PICS)	upper case	pc_	(see note 8)
test suite parameter (PIXIT)	upper case	px_	(see note 8)
test case		TC_	(see note 4)

- NOTE 1: Global constants may be defined differently in imported modules (e.g. without any prefix and with lower case initial letter).
- NOTE 2: Global variables or timers are those defined within the TTCN-3 components. They are visible to all the functions run in the component.
- NOTE 3: Base template may have a second prefix:
  - 508: PDU as defined in TS 36.508 [3];
  - 108: PDU as defined in TS 34.108 [8].
- NOTE 4: Test case names will correspond to the clause in the prose that specifies the test purpose. E.g. TC\_8\_1.
- NOTE 5: Applicable only in case of "quasi-constant" definitions, e.g. to define a (constant) random pattern to be used for sending and receiving when the UE is configured in loopback mode.
- NOTE 6: Counter variables do not need to have a prefix.
- NOTE 7: Exceptions for type definitions:
  - ASP names are fully upper case letters and typically have postfix "\_REQ", "\_CNF" or "\_IND".
  - RRC protocol type definitions are extracted and imported from TS 36.331 [19]/TS 25.331 [36] and are therefore out of scope.
  - NAS protocol type definitions follow the names provided in the tabular notion of the standards and therefore do not have a "\_Type" postfix.
- NOTE 8: For clarification an additional postfix \_FDD/\_TDD can be added.
- B.3.2 Void
- B.3.3 Void

### B.3.4 Identifiers consisting of more than one Name

When identifiers are a concatenation of several words the words shall start with capital letters:

Further details are described in TS 34.123-3 [7], clause E.2.1.

# B.4 Implementation Issues

# B.4.1 Control part

Even though the control part may not be used in a test campaign but be overruled by the test management system it is used to provide the following information:

- All test cases contained in the test suite.
- For each test case:
  - Test case selection expression.

For maintenance reasons it shall be possible to generate the control part automatically by an appropriate tool.

# B.4.2 Top Level Test Case Definitions

The top level test case definitions run on the MTC exclusively. The tasks of these test case definitions are generally the same for each test case:

- Start guard timer.
- Create PTCs.
- Connect PTCs.

- Start PTCs.
- Wait for PTCs having finished.

Additionally the MTC may host the upper tester but this is left open to implementation.

For maintenance reasons it shall be possible to generate the top level test case definitions defined for the MTC automatically by an appropriate tool. To achieve this, the name of a function to be started on particular PTC need derived from the test case name:

e.g. the function for PTC\_A in test case TC\_XX\_YY\_ZZ shall be f\_TC\_XX\_YY\_ZZ\_A.

Cells are created in an off-state in the preambles of the corresponding PTCs while UE is in the switched off-state.

## **B.4.3** Inter Component Communication

Communication between PTCs or PTCs and the MTC can be done by messages or by build-in mechanisms as *done* and *kill*. For maintenance reasons and extendibility the inter component communication shall be encapsulated by TTCN-3 implementation.

## B.4.4 Encoding Information

For UE conformance tests several encoding rules need to be applied by the TTCN-3 codec. Even though the codec is out of scope of the present document there are aspects with impact on TTCN-3 implementation depending on different type definitions.

Type definitions **Encoding** ASN.1 PER ASN.1 types used for RRC signalling ASN.1 types used by NAS protocols ASN.1 BER Tabular notated (see note) NAS types SMS Types Tabular notated (see note) DRB types Tabular notated (see note) DHCPv4 types Tabular notated (see note) ICMPv6 types Tabular notated (see note) DNS types Tabular notated (see note) GERAN types Tabular notated (see note) GPRS Padding see TS 34.123-3 [7], clause 6.10.2.9.1 GSM Spare Padding see TS 34.123-3 [7], clause 6.10.2.9.2 see TS 34.123-3 [7], clause 6.10.2.9.3 LowHigh Rule SACCHSysInfo Spare Padding see TS 34.123-3 [7], clause 6.10.2.9.5 TTCN-3 types not used at the air interface: Configuration of system simulator (no specific encoding required) Coordination between components Types used internally in TTCN-3 Tabular notated is performed by concatenation of all the present fields in the TTCN-3 template.

**Table B.4.4-1** 

Encoding information may be provided and supported in TTCN-3 by grouping of type definitions and using the *encode* attribute.

# B.4.5 Verdict Assignment

In general the following rules shall be applied.

Table B.4.5-1: Rules for verdict assignment

Verdict	Rule
Pass	shall be assigned for each step defined in the prose of the test case
Fail	shall be assigned when there is a non-conformant signalling by the UE within the test body
Inconc	shall be assigned outside the test body and when it is not unequivocal whether a misbehaviour is caused by non-conformity of the UE signalling
Error	In case of obvious programming or parameterisation errors (e.g. missing case in a select statement)

#### B.4.5.1 PASS verdict assignment

The PASS verdicts are assigned by test cases or test case specific functions.

For generic test procedures as specified in 36.508 cl. 6.4.2, the preliminary pass is assigned directly after the procedure if all described in the procedure UL messages have been successfully received; this allows re-usage of these procedures for other purposes.

#### B.4.5.2 FAIL or INCONC verdict assignment

The verdict FAIL or INCONC can be assigned in test cases, in the test case-specific function, in the common functions and in the default behaviour.

Test case or test case-specific function:

In normal cases the common function f\_EUTRA\_SetVerdictFailOrInconc or f\_UTRAN\_SetVerdictFailOrInconc shall be used to assign FAIL or INCONC depending on whether it is in the test body or outside of the body.

An exception is made in the NITZ test cases: TC 9.1.5.1 in 3GPP TS 36.523-1 [1], TC 9.4.10, TC 12.2.1.13, TC 12.2.1.14, TC 12.2.1.15 in 3GPP TS 34.123-1 [2], in the UE capability test cases: TC 8.4.5.1 in 3GPP TS 36.523-1 [1] and TC 8.1.5.7 in 3GPP TS 34.123-1 [2]: the function f\_SetVerdict is used in the test body to assign a FAIL verdict without stopping the execution of the test case.

If in test cases a verdict FAIL shall be assigned for watchdog timer timeouts this needs to be done explicitly.

#### Common Functions:

The majority of the common functions have no verdict assignment. If a verdicts assignment is required in some common functions, the common function f\_EUTRA\_SetVerdictFailOrInconc or f\_UTRAN\_SetVerdictFailOrInconc shall be used to assign FAIL or INCONC.

As an exception in the altstep a\_EUTRA\_RacingCond\_AwaitRrcMessage an INCONC is assigned when the RRC message and the L1/MAC indication are in the wrong order.

#### B.4.5.3 Verdict assignment in default behaviour

The default behaviour handles all events not being handled in test cases or functions. Whether the verdict FAIL or INCONC to be assigned in the default behaviour it depends very much on the port where the event occurs.

Table B.4.5.3-1: Verdict assignment in default behaviour upon test ports

Test port	Message	Comment	Verdict					
SYS	SYSTEM_CTRL_CNF	unexpected confirmation	INCONC					
SYSIND	SYSTEM_IND:	unspecific error at SS	INCONC					
	Error indication	,						
	SYSTEM_IND:	(see note 1)	FAIL in the test body INCONC					
	MAC indication		outside the test body					
	SYSTEM_IND:	RachPreamble, SchedReq, UL_HARQ may	INCONC					
	L1 indication	be repeated by the UE in case of transmission						
		errors						
		(see note 1)						
SRB	SRB_COMMON_IND	Any unexpected L3 signalling (see note 3)	FAIL in the test body INCONC					
			outside the test body					
NASCTRL	NAS_CTRL_CNF	unexpected confirmation	INCONC					
DRB	DRB_COMMON_IND	L2 and combined tests (see note 2)	FAIL in the test body INCONC					
			outside the test body					
		pure signalling tests (see note 2)	INCONC					
UT	UT_COMMON_CNF	unexpected confirmation	INCONC					
NOTE 1: L1/MAC indications need to be enabled by the test case therefore they occur only when being relevant for the								
test case.								
NOTE 2: L2 and combined tests can be distinguished from pure signalling tests by additional global information								
cont	controlled by f_EUTRA_TestBody_Set.							

NOTE 3: Layer 3 signalling by definition covers NAS and RRC signalling i.e. in general unexpected RRC messages will cause a FAIL in the body of any NAS test case as well as unexpected NAS messages will cause a FAIL in the body of any RRC test case.

Table B.4.5.3-2: Verdict assignment in default behaviour when time-out

	Timeout	Comment	Verdict
any timer		unspecific timeout (see note)	INCONC
NOTE:	Local timers of test	cases or functions cannot be distinguishe	d in the default behaviour.

#### B.4.6 Default Behaviour

As experience from UMTS conformance tests there shall be one standard default behaviour for each component.

The following rules shall be applied:

- The standard default behaviour is activated during initialisation of the respective component. In normal cases a TTCN writer does not need to care about the default.
- In general there is only one default behaviour activated (i.e. the standard default behaviour).
- The standard default behaviour shall cover all ports and timers of the component.
- Whenever possible deviations from the standard default behaviour shall be implemented locally rather than by introducing a new default behaviour.

If for exceptional cases the standard default behaviour needs to be replaced by another default behaviour or another default behaviour needs to be activated on top, the TTCN writer is responsible:

- to avoid side effects;
- to restore the standard behaviour.

## B.4.7 Templates for Sending and Receiving

Templates used for sending and receiving shall be separated in general:

- A template shall be either for sending or for receiving; this shall be reflected in the prefix of the identifier.
- Send templates shall use no receive templates and vice versa.
- All parameters of a send template shall be restricted to:
  - values;
  - template (value);
  - template (omit).
- Parameters of receive templates may allow wildcards. They can be:
  - values;
  - unrestricted template parameters;
  - template parameters restricted to be present.
- The only exception to the above rule is for "quasi-constant" definitions, as described in note 5 of table B.3.1. Otherwise, even when the same data is expected for sending and receiving templates, there shall be different templates and the following rule shall be applied.
- The receive template is assigned the send template e.g.:
  - template My\_Type cr\_Template := cs\_Template
- This results in separate definitions for sending and receiving and improves maintainability.
- NOTE 1: For maintenance reasons, a send template shall never be derived from a receive template; and also a receive template shall never be assigned to a send template.
- NOTE 2: When a send template is assigned to a receive template, the formal parameters of the receive template must follow the rules of send templates (i.e. it shall only contain 'template (value)', 'template (omit)' or values only).

# B.4.8 Logging

In general no explicit log statements shall be used. As an exception log may be used to report unexpected situations in TTCN-3 like fatal programming error.

# B.4.8.1 Prose Step Numbers

Informative comments containing the prose steps defined in 36.523-1 should be implemented according to the following guidelines:

- They relate to the Expected Sequence steps in the prose
- They should not be placed in common functions
- They should only be placed in functions containing the test case body
- They should always start with //@siclog
- They should always finish with siclog@
- For single steps they should be in the form //@siclog "Step 1" siclog@
- For multiple steps (where several steps are completed in a common function), they should be in the form //@siclog "Steps 1 3" siclog@ i.e. Steps, space, first number, space, dash, space, second number

- They should be placed as close as possible, but always BEFORE, the line send/receive/function call
- The step number should also be included in any pass/fail verdict specified in the test case body
- If the step is listed as Void (or a group of steps) in the expected sequence, include the word Void in the comment.

Therefore the format of the comment should be:

//@siclog "Step[s] X [- Y] [Void]" siclog@

## B.4.9 Top level comments

No restriction is specified for the top level comments.

## B.4.10 Mapping of DRBs

LTE DRBs are mapped in TTCN according to the following rules:

- DRB1 is exclusively reserved for the default DRB and hence is always AM
- additional DRBs (AM or UM) may be assigned from DRB2 onward in any order
- there shall be no reconfiguration of a DRB from AM to UM or vice versa (unless a test case explicitly requires this); this especially means that DRB1 is never reconfigured to UM
- in general at the SS all DRBs needed by a test case may be configured at the beginning of the test case.

### B.5 Modularisation

Even though there are no specific rules how to apply modularisation in general some principles can be defined:

- Maintainability and extendibility:
  - Maintainability and extendibility are essential for definition of the modular structure.
- Granularity of modules:
  - Cyclic imports are forbidden in TTCN-3; this has impact on the extendibility:
    - The granularity of modules shall not be too small.
  - Too big modules are hard to handle and may cause increase of compilation time:
    - The granularity of modules shall not be too rough.

NOTE: These are only vague principles since there is no way to define what small or huge modules are.

- General module structure:
  - The following modularisation can be applied independent from the internal structure:
    - Type definitions: TTCN-3, ASN.1.
    - Component definitions.
    - Common Templates: component dependent, component independent.
    - Common behaviour: MTC, PTCs.
    - Test case specific templates.
    - Test case specific behaviour.

- Whether or how these module groups can further be sub-divided is implementation dependent and therefore out of scope of the present document.

# Annex C (informative): Design Principles

# C.1 ASP Design

All ASPs consist of a common part (defined as a TTCN-3 type) and a specific part.

All ASPs sent by the SS include timing information (SFN, subframe number) in the common part.

Only one ASP is defined per direction per port, but this ASP may contain a union of several sub-ASPs in the specific part.

In general a small number of common ASPs cover all functionality, although other ASPs may be introduced to simplify TTCN-3 implementation and improve readability. Recurrent SS changes, such as power level changes, security activation and MAC scheduling are handled in dedicated ASPs. In addition, special purpose ASPs are used to control special behaviour, for example in L2 tests.

Configuration ASPs re-use ASN.1 definitions defined in the core specs.

No encoding rules are specified for the configuration ASPs; how they are encoded is left up to the SS implementation.

Configuration ASPs are 'procedure-based', rather than 'protocol layer-based' and reflect the state transitions of the SS. The same ASPs are used for reconfiguration and for initial configuration. In the case of reconfiguration the semantics of omit is to keep the configuration as it is; therefore when an IE in a configuration may be left out this is done e.g. by setting the respective field to a special value "None".

Data ASPs for sending/receiving peer-to-peer PDUs and user data all have different ASPs for the different SAPs.

The common part includes (at least):

- Timing Info:
  - SFN.
  - Subframe number (optional).
  - Which timing to use will depend on the test procedure and ASP purpose.
- Control Info:
  - Confirmation Flag.

The RRC ASN.1 IEs used in the specific part of the configuration ASPs:

- are imported using the granularity at the channel structure level or below;
- allow the ASP to be organised according to SS requirements;
- have a name that relates to SS configuration.

The SS specific IEs used in the specific part of the configuration ASPs (i.e. those elements not imported from the RRC ASN.1):

- use a naming convention such that they are easily distinguishable from the RRC ASN.1 IEs;
- are defined in TTCN-3 (i.e. not in ASN.1).

# C.2 SS State Model

Figure C.2 shows the basic SS state model. It is basic in the sense that internally the SS may have more states; however, (re)configuration actions (state transitions in the model) should cause the SS to transit between the states defined below.

The following assumptions have been made about this state model:

- It presents a model of states in scope of a single cell. Hence, all configuration activities shall be performed in scope of a single cell.
- It depicts only SS states and SS (re)configuration actions between these states:
  - It does not show events which may trigger state transitions, e.g. L3 messages or procedures i.e. it is test case and L3 procedure agnostic.
  - It does not show any peer-to-peer (i.e. between SS and UE) messages.
- Triggers for state transitions are always SS configuration messages (ASPs) coming from the test suite:
  - L2 messages coming from the UE can only trigger internal SS sub-state transitions and semi-autonomous procedures.
- L1 and L2 procedures (e.g. random access procedure, scheduling, security activation steps) are semi-autonomously handled by the SS and after being pre-configured do not require interaction with the test case:
  - The majority of test cases do not need to worry about e.g. RA procedure and letting the SS handle it would greatly simplify test case definition and implementation.
  - There may be stringent time requirements in case of some procedures that can be hard to meet in a generic way in the test suite.
  - Semi-autonomous procedures should be flexibly configurable and should have a "manual" mode in which they are handled by the test suite in order to enable testing them. What is the desired level and way of control is FFS.

Most states are stationary states, i.e. the SS can stay in them for a long time or, after performing some procedures, returns to these states. However, there is one state (indicated by dashed lines) which is part of the AS security activation procedure and is transitional, i.e. the SS can only stay in it for a short time until a transition the next stationary state is triggered.

To make the diagram more readable, a separate state called *ANY\_STATE* has been introduced, together with some transitions. It shows which transitions are allowed at any point of time in any state.

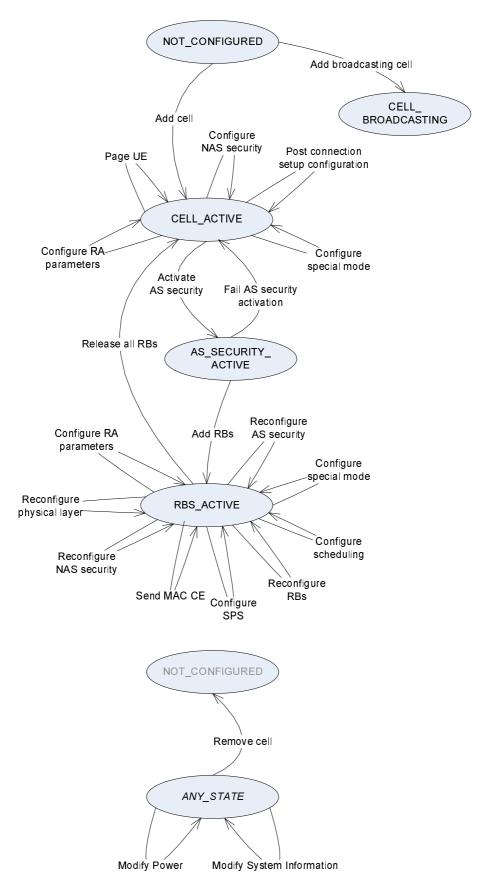


Figure C.2-1: Basic SS state model

Description of states.

Table C.2-1: Description of states

State	Description						
NOT_CONFIGURED	The cell does not exist (is not configured) in the SS						
CELL_BROADCASTING	Physical DL channels and signals configured						
	Initial cell configuration done: freq, BW, antennas, MIMO mode, power, etc.						
	Transport and logical channels configured for SI broadcast						
	Cell is broadcasting SI and downlink signals						
	NOTE 1: This type of cell is needed only to serve as a neighbouring cell for						
	measurement purposes, where full cell configuration does not need to be						
	specified. There is no need to be able to promote a broadcasting cell to a						
	full cell.						
	NOTE 2: It is currently open whether a separate cell type with limited						
	PRACH/RACH Rx capability is needed - this depends on whether a						
	justified use case is defined for such a cell type.						
CELL_ACTIVE	Cell configured to send and receive data from UE (fully functional)						
	SRB0 defined (default configuration specified in TS 36.508 [3])						
	SRB1 defined (default configuration specified in TS 36.508 [3])						
AS_SECURITY_ACTIVE	The SS has AS security (integrity protection and ciphering) active						
	NOTE 3: The SS needs to autonomously take care of a temporary state in which						
	integrity protection is applied to an outgoing SMC message, but ciphering						
	is not.						
RBS_ACTIVE	SRB2 and/or DRBs are configured for the UE (in addition to SRB0 and SRB1)						
ANY_STATE	Represents any of the above states (except NOT_CONFIGURED)						

# Annex D (informative): TTCN-3 Definitions

# D.1 EUTRA\_ASP\_TypeDefs

Type definitions for configuration of the system simulator;

Common design principles:

Semantics of OMIT: for all TTCN-3 type definitions used in ASPs omit means "keep as it is" =>

- on initial configuration in general all fields shall be provided
- no default values for fields are foreseen
- if necessary non-existence of information shall be explicitly configured (e.g. with a union of "no configuration" and "configuration parameters"
- fields within structures imported from the core spec are excepted from this rule

### D.1.1 ASN1\_Container

Definitions containing ASN.1 types for backward compatibility;

NOTE 1: PCCH\_Message and BCCH\_DL\_SCH\_Message already have a critical extension mechanism by RRC type definition

NOTE 2: BCCH BCH Message contains the MIB and therefore is considered to be not extendable

NOTE 3: "simple types" are not considered: C\_RNTI, PhysCellId, CellIdentity, ARFCN\_ValueEUTRA

#### AntennaInfoDedicated\_R8andLater\_Type

TTCN-3 Record Type				
Name	AntennalnfoDedicated_R8andLater_Type			
Comment				
antennalnfo	AntennaInfoDedicated			
antennalnfo_v9	AntennaInfoDedicated_v92	opt		
20	0			

#### AntennaInfoDedicated\_R10andLater\_Type

TTCN-3 Record	TTCN-3 Record Type				
Name	AntennalnfoDedicated_R10andLater_Type				
Comment					
antennalnfo	AntennaInfoDedicated_r10				
antennalnfoUL	AntennaInfoUL_r10	opt			
antennalnfoDe	AntennaInfoDedicated_v12	opt			
dicated_v1250	50				

#### CQI\_ReportConfig\_R8andLater\_Type

TTCN-3 Record Type				
Name	CQI_ReportConfig_R8andLater_Type			
Comment				
cqi_ReportConf	CQI_ReportConfig			
ig				
cqi_ReportConf	CQI_ReportConfig_v920	opt		
ia v920				

#### CQI\_ReportConfig\_R10andLater\_Type

TTCN-3 Record Type					
Name	CQI_ReportConfig_R10andLater_Type				
Comment					
cqi_ReportConf ig_r10	CQI_ReportConfig_r10		NOTE: field 'csi-SubframePatternConfig-r10' is not relevant as long as a cell is configured as SCell		
cqi_ReportConf ig_v1130	CQI_ReportConfig_v1130	opt			
cqi_ReportConf ig_v1250	CQI_ReportConfig_v1250	opt			

### PUCCH\_ConfigDedicated\_R8andLater\_Type

TTCN-3 Record Type			
Name	PUCCH_ConfigDedicated_R8andLater_Type		
Comment			
pucch_ConfigD edicated	PUCCH_ConfigDedicated		
pucch_ConfigD edicated_v102 0	PUCCH_ConfigDedicated_ v1020	opt	
pucch_ConfigD edicated_v113 0	PUCCH_ConfigDedicated_ v1130	opt	
pucch_ConfigD edicated_v125 0	PUCCH_ConfigDedicated_ v1250	opt	

### PUSCH\_ConfigDedicated\_R8andLater\_Type

TTCN-3 Record Type				
Name	PUSCH_ConfigDedicated_R8andLater_Type			
Comment				
pusch_ConfigD edicated	PUSCH_ConfigDedicated		in case of CA beta offset shall be the same for the PCell and the associated SCells	
pusch_ConfigD edicated_v102 0	PUSCH_ConfigDedicated_ v1020	opt	optionally present for Rel 10 cells (normal or CA); in case of CA beta offset shall be the same for the PCell and the associated SCells	
pusch_ConfigD edicated_v113 0	PUSCH_ConfigDedicated_ v1130	opt		
pusch_ConfigD edicated_v125 0	PUSCH_ConfigDedicated_ v1250	opt		

#### $Uplink Power Control Common\_R8 and Later\_Type$

TTCN-3 Record Type				
Name	UplinkPowerControlCommon_R8andLater_Type			
Comment				
uplinkPowerCo ntrolCommon	UplinkPowerControlCommo n			
uplinkPowerCo ntrolCommon_ v1020	UplinkPowerControlCommo n_v1020	opt	optionally present for Rel 10 cells (normal or CA); NOTE: 'p0-NominalPUCCH', 'deltaFList-PUCCH', 'deltaPreambleMsg3' and 'UplinkPowerControlCommon-v1020' are not relevant as long as a cell is configured as SCell	
uplinkPowerCo ntrolCommonS Cell_v1130	UplinkPowerControlCommo nSCell_v1130	opt	only present when cell is configured as Rel 11 or later Scell	
uplinkPowerCo ntrolCommonP SCell_r12	UplinkPowerControlCommo nPSCell_r12	opt		

### UplinkPowerControlDedicated\_R8andLater\_Type

TTCN-3 Record	TTCN-3 Record Type				
Name	UplinkPowerControlDedicated_R8andLater_Type				
Comment					
uplinkPowerCo ntrolDedicated	UplinkPowerControlDedicat ed				
uplinkPowerCo ntrolDedicated_ v1020	UplinkPowerControlDedicat ed_v1020	opt	optionally present for Rel 10 cells (normal or CA); NOTE: field 'p0-UE-PUCCH' is not relevant as long as a cell is configured as SCell		
pathlossRefere nceLinking	SCellPathlossReferenceLinking Type	opt	NOTE: relevant only as long as a cell is configured as SCell		
uplinkPowerCo ntrolDedicated_ v1130	UplinkPowerControlDedicat ed_v1130	opt			
uplinkPowerCo ntrolDedicated_ v1250	UplinkPowerControlDedicat ed_v1250	opt			

### $Sounding RS\_UL\_Config Dedicated\_R8 and Later\_Type$

TTCN-3 Record Type			
Name	SoundingRS_UL_ConfigDedicated_R8andLater_Type		
Comment			
soundingRS_U L_ConfigDedic ated	SoundingRS_UL_ConfigDe dicated		
soundingRS_U L_ConfigDedic ated_v1020	SoundingRS_UL_ConfigDe dicated_v1020	opt	
soundingRS_U L_ConfigDedic atedAperiodic_r 10	SoundingRS_UL_ConfigDe dicatedAperiodic_r10	opt	

### ${\bf Scheduling Request Config\_R8} and {\bf Later\_Type}$

TTCN-3 Record Type			
Name	SchedulingRequestConfig_R8andLater_Type		
Comment			
schedulingReq uestConfig	SchedulingRequestConfig		
schedulingReq uestConfig_v10 20	SchedulingRequestConfig_ v1020	opt	

## TDD\_Config\_R8andLater\_Type

TTCN-3 Record Type			
Name	TDD_Config_R8andLater_T	уре	
Comment			
R8	TDD_Config		
tdd_Config_v11 30	TDD_Config_v1130	opt	

## RACH\_ConfigCommon\_R8andLater\_Type

TTCN-3 Record Type				
Name	RACH_ConfigCommon_R8andLater_Type			
Comment				
rach_ConfigCo mmon	RACH_ConfigCommon		All parameters in RACH_ConfigCommonScell_r11 are covered by RACH_ConfigCommon; RACH_ConfigCommon will be used in Scell also for a complete set of RACH parameters both when configured as a Scell or normal RACH procedure when it seazes to exist as Scell; when cell is configured as Scell, additional parameters shall be ignored by SS	
rach_ConfigCo mmon_v1250	RACH_ConfigCommon_v1 250	opt		

### TDD\_Config\_Type

TTCN-3 Union T	ype	
Name	TDD_Config_Type	
Comment		
R8andLater	TDD Config R8andLater_Type	

### AntennalnfoCommon\_Type

TTCN-3 Union Type		
Name	AntennalnfoCommon_Type	
Comment		
R8	AntennalnfoCommon	

## AntennalnfoDedicated\_Type

TTCN-3 Union Type		
Name	AntennalnfoDedicated_Type	
Comment	NOTE: acc. to Cond Al-r8/Al-r10 of PhysicalConfigDedicated 'antennalnfo'/'antennalnfo-v920' and 'antennalnfo-r10' are mutual exclusive	
R8andLater	AntennalnfoDedicated R8andLat er_Type	
R10andLater	AntennalnfoDedicated R10andLa ter Type	

### PHICH\_Config\_Type

TTCN-3 Union T	уре
Name	PHICH_Config_Type
Comment	
R8	PHICH_Config

### PRACH\_Config\_Type

TTCN-3 Union T	уре
Name	PRACH_Config_Type
Comment	
R8	PRACH_Config

## PUCCH\_ConfigCommon\_Type

TTCN-3 Union Type		
Name	PUCCH_ConfigCommon_Type	
Comment		
R8	PUCCH_ConfigCommon	

### PUCCH\_ConfigDedicated\_Type

TTCN-3 Union Type		
Name	PUCCH_ConfigDedicated_Type	
Comment		
R8andLater	PUCCH_ConfigDedicated_R8and Later_Type	

### PUSCH\_ConfigCommon\_Type

TTCN-3 Union Type		
Name	PUSCH_ConfigCommon_Type	
Comment		
R8	PUSCH ConfigCommon	

### PUSCH\_ConfigDedicated\_Type

TTCN-3 Union Type		
Name	PUSCH_ConfigDedicated_Type	
Comment		
R8andLater	PUSCH_ConfigDedicated_R8and Later_Type	

# ${\bf Sounding RS\_UL\_Config Common\_Type}$

TTCN-3 Union Type		
Name	SoundingRS_UL_ConfigCommon_Type	
Comment		
R8	SoundingRS_UL_ConfigCommon	

### $Sounding RS\_UL\_Config Dedicated\_Type$

TTCN-3 Union Type		
Name	SoundingRS_UL_ConfigDedicated_Type	
Comment		
R8andLater	SoundingRS UL ConfigDedicate d R8andLater Type	

### SchedulingRequestConfig\_Type

TTCN-3 Union Type	
Name	SchedulingRequestConfig_Type
Comment	
R8andLater	SchedulingRequestConfig R8and Later_Type

### CQI\_ReportConfig\_Type

TTCN-3 Union Type		
Name	CQI_ReportConfig_Type	
Comment	NOTE: acc. to Cond CQI-r8/CQI-r10 of PhysicalConfigDedicated 'cqi-ReportConfig'/'cqi-ReportConfig-	
	v920' and 'cqi-ReportConfig-r10' are mutual exclusive	
R8andLater	CQI ReportConfig R8andLater T	
	ype	
R10andLater	CQI ReportConfig R10andLater	
	<u>Type</u>	

## RACH\_ConfigCommon\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RACH_ConfigCommon_Type		
Comment			
R8	RACH_ConfigCommon	In an active Scell, the SS uses the necessary parameters defined in RACH-ConfigCommonSCell-r11 and ignores additional parameters; The additional parameters will be applicable when the cell seizes to exist as scell	
R8andLater	RACH ConfigCommon R8andLa ter Type		

### RACH\_ConfigDedicated\_Type

TTCN-3 Union Type		
Name	RACH_ConfigDedicated_Type	
Comment		
R8	RACH ConfigDedicated	

### MeasGapConfig\_Type

TTCN-3 Union Type		
Name	MeasGapConfig_Type	
Comment		
R8	MeasGapConfig	

### PDCP\_Config\_Type

TTCN-3 Union Type		
Name	PDCP_Config_Type	
Comment		
R8	PDCP_Config	

### UL\_AM\_RLC\_Type

TTCN-3 Union Type		
Name	UL_AM_RLC_Type	
Comment		
R8	UL_AM_RLC	

### DL\_AM\_RLC\_Type

TTCN-3 Union Type		
Name	DL_AM_RLC_Type	
Comment		
R8	DL_AM_RLC	

### UL\_UM\_RLC\_Type

TTCN-3 Union Type		
Name	UL_UM_RLC_Type	
Comment		
R8	UL_UM_RLC	

### DL\_UM\_RLC\_Type

TTCN-3 Union Type		
Name	DL_UM_RLC_Type	
Comment		
R8	DL UM RLC	

## TTI\_BundlingConfig\_R8andLater\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	TTI_BundlingConfig_ R8andLater_Type		
Comment			
	TTI_Bundling_Type		
TTI_BundlingE			
nabled			
E_HARQ_Patte	E HARQ Pattern r12 Typ	opt	
rn	<u>e</u>	-	

### TTI\_BundlingConfig\_Type

TTCN-3 Union Type		
Name	TTI_BundlingConfig_Type	
Comment		
R8	boolean	
R8andLater	TTI_BundlingConfig_R8andLater_	
	Type	

### DRX\_Config\_Type

TTCN-3 Union T	уре
Name	DRX_Config_Type
Comment	
R8	DRX_Config

## SpsConfigurationDL\_Type

TTCN-3 Union Type		
Name	SpsConfigurationDL_Type	
Comment		
R8	SPS_ConfigDL.setup	

## SpsConfigurationUL\_Type

TTCN-3 Union Type			
Name	SpsConfigurationUL_Type		
Comment			
R8	SPS_ConfigUL.setup		

### UplinkPowerControlCommon\_Type

TTCN-3 Union Type		
Name	UplinkPowerControlCommon_Type	
Comment		
R8andLater	UplinkPowerControlCommon_R8 andLater Type	

### UplinkPowerControlDedicated\_Type

TTCN-3 Union Type		
Name	UplinkPowerControlDedicated_Type	
Comment		
R8andLater	UplinkPowerControlDedicated R8 andLater Type	

### CSI\_RS\_Config\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CSI_RS_Config_Type			
Comment				
CSI_RS_Confi	CSI_RS_Config_r10	opt	The IE is used for TM1-9	
CSI_RS_Confi gNZPToAddMo dList	CSI_RS_ConfigNZPToAdd ModList_r11	opt	The IE is to configure the non-zero power CSI-RS resource configuration	
CSI_RS_Confi gNZPToReleas eModList	CSI_RS_ConfigNZPToRele aseList_r11	opt	The IE is to release the non-zero power CSI-RS resource configuration	
CSI_RS_Confi gZPToAddMod List	CSI_RS_ConfigZPToAddM odList_r11	opt	The IE is to configure the zero power CSI-RS resource configuration	
CSI_RS_Confi gZPToRelease ModList	CSI_RS_ConfigZPToRelea seList_r11	opt	The IE is to release the zero power CSI-RS resource configuration	

# D.1.2 System\_Configuration

Formal ASP Definitions for system configuration

## SystemRequest\_Type

TTCN-3 Union Type			
Name	SystemRequest_Type		
Comment	, <u> </u>		
Cell	CellConfigRequest_Type	configure/release a cell	
CellAttenuation	CellAttenuationList_Type	power attenuation for one or several cells;	
List		all cells included in the list shall be changed at the same time;	
		all cells in the list shall reach the new cell power within a	
		maximum of 100ms (10 frames)	
		acc. to the tolerances given in TS 36.508	
		NOTE: In the common ASP part the CellId shall be set	
		- to the cell the timing information refers to if activation time shall	
		be applied	
D !! D !!	5 5 5 11 5	- to eutra_Cell_NonSpecific when there is no activation time	
RadioBearerLis	RadioBearerList_Type	configure/release one or several SRBs and/or DRBs	
t	Night Ton-	NOTE: RBs are not configured in an SCell	
EnquireTiming	Null Type	get SFN and sub-frame number for this cell	
AS_Security	AS Security Type	StartRestart/Release of AS security	
Sps	SpsConfig Type	to configure/activate or release semi-persistent scheduling	
Paging	PagingTrigger Type	to trigger SS to send paging at the given paging occasion (as calculated in TTCN)	
L1MacIndCtrl	L1Mac_IndicationControl_Type	to configure SS to generate indications for L1/MAC events	
RicindCtrl	Ric IndicationControl Type	to configure SS to generate indications for L1/MAC events to configure SS to generate indications for RLC events	
PdcpCount	PDCP_CountReq_Type	to set or enquire PDCP COUNT for one ore more RBs	
PdcpHandover	PDCP_HandoverControlReq_Typ	to inform the target cell about the handover	
Control	e	to inform the target cell about the mandover	
L1_TestMode	L1 TestMode Type	To Set L1/MAC in special Test modes e.g. DL CRC, PHICH etc	
PdcchOrder	RA_PDCCH_Order_Type	to configure SS to transmit a PDCCH order with configured C-	
	<u> </u>	RNTI to the UE	
		to trigger RA procedure;	
		result in DCI Format 1A transmission as in TS 36.212, clause	
		5.3.3.1.3	
ActivateScell	ActivateScell Type	to configure SS to transmit a MAC control Element to activate an	
		Scell	
MbmsConfig	MBMS_Config_Type	Configuration of PMCH/MCCH/MTCH for eMBMS	
PDCCH_MCC	PDCCH MCCH ChangeNotificati	To trigger SS to send MCCH change notification at the given	
H_ChangeNotif	on Type	SFN/subframe (as calculated in TTCN)	
ication			
MSI_Config	MSI Config Type	Configuration of MSI in MBMS normal mode to be included by	
		the SS in the first subframe allocated to the MCH within the MCH	
		scheduling period;	
		uses MRB_ID option in routing info and logical channel ID is	
UE_Cat_Info	UE_CategoryInfo_Type	omitted provides UE category info to SS; to be used e.g. for	
oe_cat_inio	UE_Categoryimo_Type	determination of Nsoft bits for rate matching	
		To be configured in SS after preamble in MAC TBS test cases	
OCNG_Config	OCNG_Config_Type	Provides SS Mode for Activating/Releasing OCNG configuration	
CONC_COINING	COITO Coining Type	in the cell	
	1	11 410 001	

## SystemConfirm\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	SystemConfirm_Type			
Comment	confirmations for system configuration; in general to be sent after the configuration has been done			
Cell	Null Type	(no further parameters from SS)		
CellAttenuation List	Null_Type	(no further parameters from SS)  NOTE 1: the confirmation shall be sent when all cells have changed power		
		levels NOTE 2: for the CellId in the common ASP part the same rules are applied as for the SYSTEM REQ		
RadioBearerLis t	Null Type	(no further parameters from SS)		
EnquireTiming	Null Type	SFN and sub-frame number are included in the TimingInfo		
AS_Security	Null_Type	(no further parameters from SS)		
Sps	Null Type	(no further parameters from SS)		
Paging	Null_Type	normally not needed but defined for completeness		
L1MacIndCtrl	Null_Type	(no further parameters from SS)		
RIcIndCtrl	Null_Type	(no further parameters from SS)		
PdcpCount	PDCP CountCnf Type	as response to 'Get' a list is returned containing COUNT information for the requested RBs		
PdcpHandover Control	Null Type	confirmation for PDCP handover control		
L1_TestMode	Null Type	confirmation for L1 test mode		
PdcchOrder	Null_Type	confirmation for PDCCH Order		
ActivateScell	Null Type	confirmation for ActivateScell		
MbmsConfig	Null_Type	confirmation for MbmsConfig		
PDCCH_MCC H_ChangeNotif ication	Null Type	normally not needed but defined for completeness		
MSI_Config	Null_Type	confirmation for explicit MSI Configuration		
UE_Cat_Info	Null Type	confirmation for UE CAT info		
OCNG_Config	Null Type	Confirmation of OCNG configuration		

### SystemIndication\_Type

TTCN-3 Union Type			
Name	SystemIndication_Type		
Comment			
Error	charstring	indicates an error situation in SS; is not explicitly handled in TTCN but causes an INCONC due to default behaviour; an additional error code can be signalled in the common part of the ASP; SS shall raise an error in case of - Invalid TimingInfo for TDD - Contradiction of periodic UL grants and TDD configuration - Data scheduled for the same TTI does not fit into an available transport block (NOTE: additional cases may occur)	
RachPreamble	RachPreamble Type	RACH preamble being sent by the UE	
SchedReg	Null Type	indication for scheduling request sent by the UE	
BSR	BSR_Type	to report the Buffer/Extended Buffer status report being received	
UL_HARQ	HARQ Type	to report the Bullet/Extended Bullet status report being received to report the UL HARQ as received on PUCCH[TTI] for corresponding DL transmission in TTI-x, where x is normally 4	
C_RNTI	C_RNTI	indicates C-RNTI being contained in a MAC PDU sent by the UE	
PHR	PHR Type	to report the Power headroom report received	
HarqError	HarqError Type	indicates detection of HARQ error:  1. HARQ CRC error for UL data  2. HARQ NACK from the UE unless SS is configured to report HARQ ACK/NACK	
RlcDiscardInd	RlcDiscardInd_Type	indicates e.g. discarded PDUs	
PeriodicRI	RI_Type	indicates periodic Rank Indicator (RI) reported by the UE on PUCCH or PUSCH; periodic CQI/PMI/RI Reporting is semi-statically configured at the UE by higher layers (see TS 36.213 clause 7.2.2); aperiodic reporting acc. to TS 36.213 clause 7.2.1 shall not be indicated NOTE: Acc. to TS 36.213 clause 7.2 aperiodic reporting has higher precedence than periodic reporting; => as working assumption the CQI request field in DCI format 0 is expected to be 0 for UL grants assigned by the SS i.e. aperiodic reporting acc. to TS 213 clause 7.2.1 does not happen	
EPHR	MAC CTRL ExtPowerHeadRoo m Type	indicates Extended Power headroom report reported by the UE	
CqiInd	Null Type	indicates periodic CQI reported by the UE - NOTE: Report CQI value is currently not required	
SrsInd	SRSInd Type	Indicates start or stop of Type 0 SRS reception on configured periodic SRS resources	
DC_PHR	MAC CTRL DC PowerHeadRoo m_Type	indicates Dual Connectivity Power headroom report reported by the UE	

# D.1.3 Cell\_Configuration

Specific Info for Cell Configuration Primitive

# D.1.3.1 Cell\_Configuration\_Common

### **EUTRA\_ASP\_TypeDefs: Constant Definitions**

TTCN-3 Basic Types			
tsc_CellAttenuation	Attenuation Type	{Off:=true}	
_Off			

## **Cell\_Configuration\_Common: Basic Type Definitions**

TTCN-3 Basic Types		
EUTRA_FDD_Info_Type	Null Type	no further parameters defined for FDD
CfiValue_Type	integer (13)	
AbsoluteCellPower_Type	integer (-1450)	absolute cell power (dBm)
InitialAttenuation_Type	Attenuation Type	Attenuation restricted to 'Off'
	(tsc CellAttenuation Off)	
ToRS_EPRE_Ratio_Type	integer (-350)	any-resource-element to RS ratio in dB (e.g.
		PDSCH-to-RS ratio; see TS 36.213, clause
		5.2)

# CellConfigRequest\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	CellConfigRequest_Type		
Comment			
AddOrReconfig ure	CellConfigInfo Type	for cell configuration: CellId: identifier of the cell to be configured RoutingInfo: None TimingInfo: Now (for initial configuration and for reconfiguration in general) ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)	
Release	Null Type	to remove a cell completely - CellId: identifier of the cell to be released; eutra_Cell_NonSpecific, in case all cells shall be released RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)	

### CellConfigInfo\_Type

TTCN-3 Record Type			
Name	CellConfigInfo_Type		
Comment			onfiguration or reconfiguration; ans 'keep configuration as it is'
Basic	BasicCellConfig_Type	opt	basic information for a cell (e.g. broadcasting)
Active	ActiveCellConfig Type	opt	add. configuration for active cell (i.e. cell being capable to receive RACH preamble)

## CellConfigCapability\_Type

TTCN-3 Enumerated Type			
Name	CellConfigCapability_Type		
Comment	capabilities af a cell acc. to the initial condition of a test case		
broadcastOnlyCell	no detection of RACH preables required; cell is only broadcasting		
minimumUplinkCell	detection of RACH preables required but not any further RX capability		
fullCell	full TX and RX capabilities		

## CA\_CellInitialConfig\_Type

TTCN-3 Enumerated	TTCN-3 Enumerated Type		
Name	CA_CellInitialConfig_Type		
Comment			
PCell	The cell when added as a CC in CA scenario for first time will be configured as an PCell		
Scell_Active	The cell when added as a CC in CA scenario for first time will be configured as an SCell, and when configured as Scell, it may be activated, 36.508 clause 6.3.4		
Scell_Inactive	The cell when added as a CC in CA scenario for first time will be configured as an SCell, and when configured as Scell, it will never be activated, 36.508 clause 6.3.4		
PScell	The cell when added as a CC in CA-Dual connectivity scenario for first time will be configured as a PSCell. PSCell is always active like PCell		

## BasicCellConfig\_Type

TTCN-3 Record Type			
Name	BasicCellConfig_Type		
Comment			
ConfigCapabilit y	CellConfigCapability Type	opt	mandatory for the initial configuration; to be omitted afterwards
StaticCellInfo	StaticCellInfo_Type	opt	Common information which does not change during a test
PhysicalLayerC onfigDL	PhysicalLayerConfigDL Ty pe	opt	default settings regarding physical control channels: PCFICH, PHICH, PDCCH
InitialCellPower	InitialCellPower Type	opt	reference cell power for the RS of each antenna in DL NOTE 1: the power of the RS of an antenna may be reduced by antenna specific configuration NOTE 2: in general the power may be adjusted on a per resource element basis => all physical channel/signal power settings shall be ajusted relatively to the RS; if there are more than one TX antennas each one may have its own attenuation; independently from those relative power settings the cell power
BcchConfig	BcchConfig Type	opt	can easily be adjusted by just changing the reference power configuration of BCCH/BCH; SS is triggered to configure RLC/MAC regardingly; BCCH data on the PDSCH is distiguished by the SI-RNTI PBCH: MIB; PDSCH: scheduling and resource allocation; SIBs
PcchConfig	PcchConfig_Type	opt	configuration of PCCH/PCH; SS is triggered to configure RLC/MAC regardingly; PCCH data on the PDSCH is distiguished by the P-RNTI (needed even to modify SI => shall be configured for CELL_BROADCASTING)
CA_CellInitialC onfig	CA CellInitialConfig Type	opt	capability of a cell when added as a CC in CA scenario.  1. Provided at the initial configuration of a cell in CA test cases; to be omitted afterwards;  2. Always omit for a cell which remains normal non CA cell
SL_StchConfig	SL_SciStchConfig_Type	opt	SL-RNTI scheduling

## ${\bf Active Cell Config\_Type}$

TTCN-3 Record	TTCN-3 Record Type		
Name	ActiveCellConfig_Type		
Comment			
C_RNTI	C_RNTI	opt	(pre-)configured C-RNTI; affects scrambling of PDSCH/PUSCH and CRC of PDCCH(s); shall be used implicitly in RACH procedure (i.e. as CE in RAR)
PhysicalLayerC onfigUL	PhysicalLayerConfigUL Ty pe	opt	parameters for PRACH, PUCCH, PUSCH Omitted when no UL frequency is applied to the band
RachProcedure Config	RachProcedureConfig Typ e	opt	to configure the SS's behaviour for the RACH procedure Omitted when no UL frequency is applied to the band
CcchDcchDtch Config	CcchDcchDtchConfig_Type	opt	Parameters related to CCCH/DCCH/DTCH in UL and DL
ServingCellCon fig	ServingCellConfig Type	opt	not present as long as the cell is 'normal' cell (i.e. does not act as a carrier component in CA); present to configure cell for CA (Pcell or SCell); in general at initial configuration 'ServingCellInfo' is omit; after sending/scheduling the RRCConnectionReconfiguration adding 1 or more cells for CA 'ServingCellInfo' is provided for the cell which gets Pcell and for the cell which gets SCell

## StaticCellInfo\_Type

TTCN-3 Reco	TTCN-3 Record Type		
Name	StaticCellInfo_Type		
Comment	Common information which (r therefore all fields are manda		ly) does not change during a test;
Common	CommonStaticCellInfo Typ		
Downlink	DownlinkStaticCellInfo Typ e		
Uplink	UplinkStaticCellInfo Type	opt	NOTE: for TDD UL and DL are using the same parameters Omitted when no UL frequency is applied to the band

### CommonStaticCellInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CommonStaticCellInfo_Type			
Comment	information common for UL	and DL	; all fields are mandatory	
RAT	EUTRA RAT Type		FDD or TDD; FDD/TDD specific parameters	
PhysicalCellId	PhysCellId		N(cell, ID): imported from core spec; -> cell specific reference signals (non-MBSFN) -> scrambling of all DL physical channels: PBCH, PCFICH, PDCCH, PHICH and PDSCH (together with nRNTI)	
eNB_CellId	CellIdentity	opt	Placeholder for Cell identity (28 bits): eNB (20bits) and cell identity (8bits).  The use of that field is for future usage and omit for the time being	
EutraBand	integer		NOTE: in 3G there are overlapping bands therefore the band needs to be provided; in EUTRA it is provided as well to be extendable in the future	
CellTimingInfo	CellTimingInfo Type			

## EUTRA\_TDD\_Info\_Type

TTCN-3 Record	Туре	
Name	EUTRA_TDD_Info_Type	
Comment		
Configuration	TDD Config Type	TDD_Config acc. to RRC ASN.1 (acc. TS 36.331, clause 6.3.2)

### EUTRA\_HalfDuplexFDD\_Info\_Type

TTCN-3 Record Type			
Name	EUTRA_HalfDuplexFDD_Info_Type		
Comment	NOTE: No specific elements required		
	When UE is FDD Type B Half-Duplex (i.e. Cat 0 and Half Duplex)		
	SS restricts non-explicitly scheduled UL data transmission in sub frame 2 and DL transmission in sub		
	frame 8. This results in		
	UL HARQ feedback in 8, DL HARQ feedback in sub frame 6, UL specific grant allocation in sub frame		
	8.		
	SS obeys explicit scheduling.		

### **EUTRA\_RAT\_Type**

TTCN-3 Union T	TTCN-3 Union Type		
Name	EUTRA_RAT_Type		
Comment	specifies RAT type and frame struct	ure (TS 36.211, clause 4)	
FDD	EUTRA FDD Info Type		
TDD	EUTRA TDD Info Type		
HalfDuplexFDD	EUTRA_HalfDuplexFDD_Info_Ty		
	<u>pe</u>		

### CellTimingInfo\_Type

TTCN-3 Record Type			
Name	CellTimingInfo_Type		
Comment	Cell Timing		
Tcell	integer (0307199)	frame duration Tf = 307200 * Ts = 10ms; System Time Unit Ts = 1/(15000 * 2048)	
SfnOffset	integer (01023)	(assuming 10 bit SFN)	

### DownlinkStaticCellInfo\_Type

TTCN-3 Record Type			
Name	DownlinkStaticCellInfo_Type		
Comment	DL Static Info		
Earfcn	ARFCN_ValueEUTRA	DL-EARFCN as defined in TS 36.101	
Bandwidth	DI Bandwidth Type	N(DL, RB) = 6110 (6, 15, 25, 50, 75, 100)	
RBSize	EUTRA RBSize Type	may be skipped assuming normal sub-carrier spacing => N(RB, SC) = 12	
CyclicPrefix	EUTRA_CyclicPrefix_Type		

### UplinkStaticCellInfo\_Type

TTCN-3 Record Type			
Name	UplinkStaticCellInfo_Type		
Comment	UL Static Info		
Earfcn	ARFCN_ValueEUTRA	UL-EARFCN as defined in TS 36.101	
Bandwidth	UI_Bandwidth_Type	N(DL, RB) = 6110 (6, 15, 25, 50, 75, 100)	
CyclicPrefix	EUTRA_CyclicPrefix_Type		

### EUTRA\_RBSize\_Type

TTCN-3 Enumerated Type			
Name	EUTRA_RBSize_Type		
Comment	Resource Block Size in freq domain; N(RB,SC) is 12 for normal sub-carrier spacing		
n_RB_SC_12			
n_RB_SC_24			

### **EUTRA\_CyclicPrefix\_Type**

TTCN-3 Enumerated Type			
Name	EUTRA_CyclicPrefix_Type		
Comment	NOTE: in DL extended cyclic prefix depends on sub-carrier spacing		
normal			
extended			

## Modulation\_Type

TTCN-3 Enumerated Type				
Name	Modulation_Type			
Comment	'unused' e.g. for 2nd codeword when there is no spatial multiplexing			
unused				
qpsk				
qam16				
qam64				

## Attenuation\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	Attenuation_Type			
Comment	attenuation of the reference power			
Value	integer (0144)	cell power reference power reduced by the given attenuation (value is in dB)		
Off	Null_Type	even though in TS 36.508 -145dBm is given for a non suitable cell we specify an explicit "Off" value here		

### ToRS\_EPRE\_Ratios\_Type

TTCN-3 Record Type			
Name	ToRS_EPRE_Ratios_Type		
Comment	RA and RB ratios according to see TS 36.213, clause 5.2		
RA	ToRS EPRE Ratio Type	opt	
RB	ToRS EPRE Ratio Type	opt	

### InitialCellPower\_Type

TTCN-3 Record Type			
Name	InitialCellPower_Type		
Comment			
MaxReference Power	AbsoluteCellPower_Type	maximum value of cell reference power (RS EPRE in dBm/15kHz as per TS 36.508, clause 4.3.4.1); a cell is initialised with this reference power; its value is the upper bound of the cell power during the test case	
Attenuation	InitialAttenuation Type	initial attenuation	

### **UE\_CategoryInfo\_Type**

TTCN-3 Record	TTCN-3 Record Type			
Name	UE_CategoryInfo_Type			
Comment				
ue_Category	UE Category Type			
ue_Category_V 1020	UE Category v1020 Type	opt		
ue_Category_v 1170	UE_Category_v1170_Type	opt		
ue_Category_v 11a0	UE_Category_v11a0_Type	opt		
ue_Category_v 1250	UE_Category_v1250_Type	opt	If UE category is 0 then  1. SS shall forward UL CCCH SDU only when indicated with LCHID '01011'B.  2. SS shall restrict DL UE-dedicated MAC TBS to 1000.	

# D.1.3.2 Downlink\_Physical\_Layer\_Configuration

Downlink physical layer configuration:

- DL antenna configuration
- control region (PCFICH, PHICH, PDCCH)
- primary/secondary sync signals
- power control for physical channels and signals

## D.1.3.2.1 Antenna\_Configuration

#### **Antenna\_Configuration: Basic Type Definitions**

TTCN-3 Basic Types						
AntennaPortId_Type	integer (0, 1, 2, 3, 4, 5, 6, 7, 8)	Antenna port 03: Cell specific reference signals Antenna port 4: MBSFN reference signals Antenna port 5: UE specific reference signals Antenna port 6: Positioning reference signals Antenna port 7: UE specific reference signals for dual layer beamforming Antenna port 8: UE specific reference signals for dual layer beamforming (Antenna ports in DL acc. to 36.211 cl. 6.2.1)				

### AntennaPortInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	AntennaPortInfo_Type			
Comment	NOTE:			
		e necessary to consider propagation pathes for c		
	=> fields of AntennaPortInfo_Type are used as place holders for future usage and are of			
	'Dummy_Type' for the time being			
PowerAttenuati	<u>Dummy_Type</u>	even though eNb shall send with the same po		
on		at the UE there may be different signal streng	th	
		=> RS will have reduced power		
		NOTE: the EPRE ratios (e.g. PDSCH-to-RS ratios)	atio) are assumed	
		to be equal for all antennas		
PropagationDel	<u>Dummy_Type</u>	signal from different antennas may have different	ent propagation	
ay		delay		

### AntennaPortConfig\_Type

TTCN-3 Union Type				
Name	AntennaPortConfig_Type			
Comment				
AddOrReconfig	AntennaPortInfo Type	add / re-configure antenna port		
ure				
Release	Null_Type	release antenna port		

### AntennaPort\_Type

TTCN-3 Record Type				
Name	AntennaPort_Type			
Comment				
ld	AntennaPortId Type			
Config	AntennaPortConfig_Type			

## DownlinkAntennaGroupConfig\_Type

TTCN-3 Record	TTCN-3 Record Type				
Name	DownlinkAntennaGroupConfig_Type				
Comment					
AntennaInfoCo mmon	AntennalnfoCommon Type	acc. to TS 36.331, clause 6.3.2; contains antennaPortsCount = an1, an2, an4; static parameter; will (normally) not be modified whilst a test; NOTE: information is redundant since number of antenna ports may implicitly be determined by the number of ports being configured			
AntennaPort	record length (14) of AntennaPort_Type	1, 2 or 4 antennas; from the UE's point of view each antenna may have a different power level and a different propagation delay			

# D.1.3.2.2 Physical\_Channels

### PbchConfig\_Type

TTCN-3 Record Type			
Name	PbchConfig_Type		
Comment			
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for PBCH's resource elements relative to the RS

### PcfichConfig\_Type

TTCN-3 Record Type			
Name	PcfichConfig_Type		
Comment			
CfiValue	CfiValue_Type	opt	control format indicator signalled on PCFICH
RelativeTxPow	ToRS EPRE Ratios Type	opt	power ratio for PFCICH's resource elements relative to the RS
er			

### PhichConfig\_Type

TTCN-3 Record Type			
Name	PhichConfig_Type		
Comment			
PhichConfig	PHICH Config Type	opt	parameters acc. TS 36.331, clause 6.3.2: phich-Duration, phich-Resource; may have impact on Cfi
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for PHICH's resource elements relative to the RS

# CCE\_StartIndex\_DL\_UL\_Type

TTCN-3 Record Type			
Name	CCE_StartIndex_DL_UL_Type		
Comment	CCE_St_Ind' or CCE_St_Ind'	acc. t	o table 7.1.1-1 in TS 36.523-3
CCE_StartInde x_DL	integer		
CCE_StartInde x UL	integer		

# CCE\_StartIndexList\_Type

TTCN-3 Record of Type			
Name	CCE_StartIndexList_Type		
Comment	describes PDCCH candidates for all sub-frames		
record length(10) of CCE StartIndex DL UL Type			

## PdcchCandidate\_Type

TTCN-3 Record Type				
Name	PdcchCandidate_Type			
Comment	CCE start indeces for a given RNTI value acc. to table 7.1.1-1 in TS 36.523-3			
RNTI	C_RNTI		RNTI value as per table 7.1.1-1	
CCE_StartInde	CCE StartIndexList Type		CCE Start Indices corresponding to the RNTI	
xList				

## PdcchCandidateList\_Type

TTCN-3 Record of Type			
Name	PdcchCandidateList_Type		
Comment list of RNTIs and their corresponding CCE Start Indices			
record of PdcchCandidate Type			

### PdcchConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PdcchConfig_Type			
Comment	UE performs blind detection for common and UE specific search spaces for different aggregation levels (PDCCH formats acc. TS 36.211, clause 6.8.1) content of the PDCCHs (DCI formats acc. TS 36.212, clause 5.3.3) shall be controlled together with scheduling and resource allocation			
CommonSearc hSpaceFormat	integer (2, 3)	opt	PDCCH format for common search space; acc. to TS 36.213, clause 9.1.1 only aggregation level 4 and 8 are allowed (i.e. PDCCH format 2 and 3	
UeSpecificSear chSpaceForma t	integer (0, 1, 2, 3)	opt	UE specific search space: corresponding aggregation levels 1, 2, 4, 8	
PdcchCandidat eList	PdcchCandidateList Type	opt	PDCCH candidate list acc. to table 7.1.1-1 in TS 36.523-3	
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for PDCCH's resource elements relative to the RS	

## PdschRelativeTxPower\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PdschRelativeTxPower_Typ	эе		
Comment	to TS 36.323; nevertheless for different charsettings; NOTE 2:	nnels a the El gnals;	assumed to be (semi-)static for signalling conformance tests acc. and purposes with the PDSCH there may be different power PRE ratio is different in time domain for OFDM symbols containing	
RachResponse	ToRS_EPRE_Ratios_Type	opt		
BcchOnPdsch	ToRS EPRE Ratios Type	opt		
PcchOnPdsch	ToRS_EPRE_Ratios_Type	opt		
CcchOnPdsch	ToRS EPRE Ratios Type	opt		
DcchDtchOnPd sch	Tors Epre Ratios Type	opt		
OcngOnPdsch	ToRS_EPRE_Ratios_Type	opt	the power offset used for modeling allocations to virtual UE's (different from the UE under test)	

### PdschConfig\_Type

TTCN-3 Record Type			
Name	PdschConfig_Type		
Comment			
RelativeTxPow	PdschRelativeTxPower Ty	opt	
er	<u>pe</u>		

### EpdcchConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	EpdcchConfig_Type			
Comment				
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for ePDCCH's resource elements relative to the RS	
ePdcchCandid ateList	PdcchCandidateList_Type	opt	ePDCCH candidate list acc. to tables in TS 36.523-3 clause 7.1.2	
EPDCCH_Conf ig	EPDCCH_Config_r11	opt		
EPDCCH_Conf ig	EPDCCH_Config_r11	opt	If present with choice 'setup' SS starts using ePDCCH in subframes reserved for ePDCCH for UL/DL grant transmission on C-RNTI/SPS-RNTI and PDCCH in non reserved sub frames If present with choice 'release' SS releases ePDCCH configuration and uses PDCCH for UL/DL grant transmission in all sub frames 'omit' is no change from previous configuration	

# D.1.3.2.3 Physical\_Signals

## PrimarySyncSignal\_Type

TTCN-3 Record	Туре		
Name	PrimarySyncSignal_Type		
Comment			
RelativeTxPow	ToRS_EPRE_Ratios_Type	opt	power ratio for PSS's resource elements relative to the RS
er			

### SecondarySyncSignal\_Type

TTCN-3 Record	Туре		
Name	SecondarySyncSignal_Type	Э	
Comment			
RelativeTxPow	ToRS EPRE Ratios Type	opt	power ratio for PSS's resource elements relative to the RS
er			

# SRS\_UL\_Config\_Type

TTCN-3 Recor	TTCN-3 Record Type		
Name	SRS_UL_Config_Type		
Comment			
Common	SoundingRS UL ConfigCo mmon Type		
Dedicated	SoundingRS UL ConfigDe dicated Type		

### PhysicalLayerConfigDL\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PhysicalLayerConfigDL_Type			
Comment	all fields are declared as optional to allow single reconfigurations; in this case omit means "keep as it is"			
AntennaGroup	DownlinkAntennaGroupCon fig Type	opt		
Pbch	PbchConfig Type	opt		
Pcfich	PcfichConfig Type	opt		
Phich	PhichConfig Type	opt		
Pdcch	PdcchConfig Type	opt		
Pdsch	PdschConfig Type	opt		
Pss	PrimarySyncSignal Type	opt		
Sss	SecondarySyncSignal Typ e	opt		
CSI_RS_Confi	CSI_RS_Config_Type	opt	Mandatory to be configured in CA PCell; in other cells if present	
g			SS shall ignore it but shall apply the configuration if the cell is promoted as PCell later on.	
Pmch	PmchConfig_Type	opt	Same power offset for all PMCH carrying MCCH or MTCH	
Epdcch	EpdcchConfig_Type	opt		

# D.1.3.3 Uplink\_Physical\_Layer\_Configuration

Uplink physical channel configuration: PRACH, PUCCH, PUSCH and UL RS

### PUCCH\_Configuration\_Type

TTCN-3 Record Type			
Name	PUCCH_Configuration_Type		
Comment			
Common	PUCCH_ConfigCommon_T	opt	
	<u>ype</u>		
Dedicated	PUCCH ConfigDedicated	opt	
	<u>Type</u>		

### PUSCH\_Configuration\_Type

TTCN-3 Recor	d Type		
Name	PUSCH_Configuration_Typ	е	
Comment			
Common	PUSCH_ConfigCommon_T	opt	
	<u>ype</u>		
Dedicated	PUSCH ConfigDedicated	opt	
	Type		

### SS\_TimingAdvanceConfig\_Type

TTCN-3 Union T	уре	
Name	SS_TimingAdvanceConfig_Type	
Comment		
InitialValue	RACH TimingAdvance Type	initial value corresponding to what is sent to the UE in RACH response (range acc. 11 bit value; 0 in normal cases)
Relative	TimingAdvanceIndex Type	timing advance command to adjust changes of timing advance acc. to TS 36.213, clause 4.2.3; (range acc. 6 bit value: -3132)

### PhysicalLayerConfigUL\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PhysicalLayerConfigUL_Ty	ре		
Comment	NOTE: For the time being there is no requirement to configure the SS with TPC-PDCCH-Config; In general SS is required to keep the UE's UL power constant			
Prach	PRACH Config Type	opt	parameters acc. TS 36.331, clause 6.3.2; in general depending on FDD/TDD (see TS 36.211, clause 5.7)	
Pucch	PUCCH Configuration Type	opt	parameters acc. TS 36.331, clause 6.3.2	
Pusch	PUSCH Configuration Typ e	opt	parameters acc. TS 36.331, clause 6.3.2 (including configuration of RS)	
TimingAdvance	SS TimingAdvanceConfig Type	opt	to adjust timing advance; normally timing advance is configured as 0 at the beginning and never changed during the test case; in some MAC test cases timing advance may be configured to a non-zero (11 bit value) at the beginning and modified by (6 bit) timing advance commands during the test	
SRS_UL_Confi	SRS UL Config Type	opt	sounding reference symbol (SRS); -> TS 36.213, clause 8.2, TS 36.211, clause 5.5.3	
SR_Config	SchedulingRequestConfig_Type	opt	PUCCH resources for scheduling requests acc. to TS 36.213 table 10.15; as signalled to the UE acc. to TS 36.331, clause 6.3.2	
CQI_ReportCo nfig	CQI_ReportConfig_Type	opt		
UplinkPowerCo ntrolCommon	UplinkPowerControlCommo n Type	opt		
UplinkPowerCo ntrolDedicated	UplinkPowerControlDedicat ed_Type	opt		

# D.1.3.4 Common\_MAC\_Configuration

Transport channel and MAC related procedures and configuration

### Common\_MAC\_Configuration: Basic Type Definitions

TTCN-3 Basic Types		
ImcsValue_Type	integer (031)	Modulation and coding scheme index coding
TimingAdvanceIndex_Typ	integer (063)	acc. to TS 36.321, clause 6.1.3.5 "Timing
е		Advance Command MAC Control Element"
		and TS 36.213, clause 4.2.3 "Transmission
		timing adjustments"
TimingAdvance_Period_T	integer (400, 600, 1020, 1530, 2040,	the values correspond to 80 % of
уре	4090, 8190)	TimeAlignmentTimer (acc. to TS 36.523-3,
		clause 7.2)
		(TS 36.331, clause 6.3.2: sf500, sf750,
		sf1280, sf1920, sf2560, sf5120, sf10240)
		rounded to nearest multiple of 10

### RedundancyVersionListDL\_Type

TTCN-3 Record of Type				
Name	RedundancyVersionListDL_Type			
Comment	NOTE:			
	in general the list shall contain maxHARQ-Tx elements;			
	if there are not enough elements specified SS shall raise an error;			
	per default the list is configured to 0,2,3,1,0 (TS 36.321, clause 5.4.2.2)			
record length (128) of RedundancyVersion Type				

### **UL\_TransRetransmission\_Type**

TTCN-3 Union T	TTCN-3 Union Type		
Name	UL_TransRetransmission_Type		
Comment			
NewTransmissi	Null Type	new transmission of data with redundancy version RV=0 (acc. to	
on		TS 36.321 clause 5.4.2.2); NDI is toggled	
ReTransmissio	RedundancyVersion_Type	SS assigns grant to requests retransmission of data with given	
nAdaptive		redundancy version; NDI is not toggled	
ReTransmissio	Null Type	place holder for non-adaptive retransmissions; SS does not send	
nNonAdaptive		any grant	

# ${\bf UL\_TransRetransmissionList\_Type}$

TTCN-3 Record of Type				
Name	UL_TransRetransmissionList_Type			
Comment	list of transmission and subsequent retransmissions:			
	in UL retransmissions are synchronous (every 8 TTIs for FDD);			
	independent from the HARQ_ModeList SS shall send grants for every adaptive retransmissions;			
	in case of non-adaptive retransmissions SS simply does not sent a grant (i.e.			
	ReTransmissionNonAdaptive elements are used to adjust timing of the adaptive			
	restransmissions only)			
record length (128) of <u>UL_TransRetransmission_Type</u>				

## Imcs\_Type

TTCN-3 Union Type		
Name	Imcs_Type	
Comment		
Value	ImcsValue Type	
NotUsed	Null Type	

### **ULGrant\_Period\_Type**

TTCN-3 Union T	TTCN-3 Union Type		
Name	ULGrant_Period_Type		
Comment			
OnlyOnce	Null Type	grant is sent out only once; no period	
Duration	integer (1infinity)	duration of the grant period (TTI=1ms); for TDD the starting time and periodicity need to be chosen in TTCN so that the grants are assigned at valid subframes only; otherwise SS shall raise an error	

## TransmissionRepetition\_Type

TTCN-3 Union Type		
Name	TransmissionRepetition_Type	
Comment		
Continuous	Null Type	
NumOfCycles	integer (1infinity)	

## PUCCH\_AutoSynch\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	PUCCH_AutoSynch_Type		
Comment			
TimingAdvance	TimingAdvanceIndex Type		
TA_Period	TimingAdvance Period Ty	time period after which TA MAC control elements need to be	
	<u>pe</u>	automatically transmitted	
TA_Repetition	TransmissionRepetition_Ty	number of TA MAC control element repetitions to be	
	<u>pe</u>	automatically transmitted or 'Continuous'	

## PUCCH\_Synch\_Type

TTCN-3 Union Type		
Name	PUCCH_Synch_Type	
Comment		
None	Null_Type	no PUCCH Synchronisation applied
Auto	PUCCH AutoSynch Type	SS automatically maintains PUCCH synchronization at UE If the cell is a - Rel 10 or earlier cell - or Rel 11 or later Pcell - or the Rel-11 or later scell with no STAG-ID configured, the TAG-ID is set to '00' i.e. P-TAG in Timing advance MCE If the cell is Rel 11 scell with STAG-ID configured, the configured stag-ID is used as TAG-ID in Timing advance MCE

## FreqDomainSchedulCommon\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name		FreqDomainSchedulCommon_Type		
Comment	common type to specify restrictions for frequency domain scheduling by a start index and a maximum range of RBs; in general the resource allocation refers to virtual resource blocks: - format 1A (localised): FirstRbIndex refers to the first physical RB; the RBs are subsequent (upto MaxRbCnt RBs); may be applied for all kind of channels - format 1C (distributed): FirstRbIndex refers to the first virtual RB; the virtual RBs are subsequent (upto MaxRbCnt RBs) but mapped (distributed) to physical resource; typically applied on BCCH, PCCH and RAR - format 1 (localised): FirstRbIndex refers to the first physical RB; RBs are not consecutive; SS needs to provided bitmap of RBs (see TS 36.523-3) to cope with mapping of virtual resource allocation (format 1C) applied on other channels; typically there are either - all channels having format 1A (localised) - BCCH, PCCH and RAR having format 1C (distributed) + DTCH/DCCH having format 1			
FirstRbIndex	integer	index of the first (vitual) resource block in frequency domain; 0 N(UL/DL, RB) - 1; NOTE: DCI format 1C refers to a virtual RB allocation i.e. the resource block index; differs from the physical resource allocation where the RBs are distributed over the whole frequency bandwidth (TS 36.213, clause 7.1.6.3)		
MaxRbCnt	integer	max. number of resource blocks to be assigned; FirstRbIndex + MaxRbCnt <= N(UL/DL, RB); SS shall not assigned more than the given resource blocks to the respective channel (i.e. MaxRbCnt is the upper bound); if the configuration for a channel exceeds the total bandwidth this is a TTCN error (=> SS shall raise an error)		

## FreqDomainSchedulExplicit\_Type

TTCN-3 Record Type			
Name	FreqDomainSchedulExplicit_Type		
Comment	type used for explicit DL scheduling; Nprb is the exact number of RBs whereas in FreqDomainSchedulCommon_Type MaxRbCnt is the upper bound		
FirstRbIndex	integer		index of the first resource block in frequency domain; 0 N(UL/DL, RB) - 1
Nprb	integer		number of resource blocks to be assigned;

### PdcchDciFormat\_Type

TTCN-3 Enumerated Type		
Name	PdcchDciFormat_Type	
Comment	DCI format acc. to TS 36.212, clause 5.3.3.1;	
	SS shall apply physical parameters accordingly as specified in TS 36.508, clause 4.3.6	
dci_0	physical layer parameters acc. TS 36.508 Table 4.3.6.1.1-1	
dci_1	physical layer parameters acc. TS 36.508 Table 4.3.6.1.2-1	
dci_1A	physical layer parameters acc. TS 36.508 Table 4.3.6.1.3-1	
dci_1B		
dci_1C	physical layer parameters acc. TS 36.508 Table 4.3.6.1.4-1	
dci_1D		
dci_2	physical layer parameters acc. TS 36.508 Table 4.3.6.1.5-1	
dci_2A	physical layer parameters acc. TS 36.508 Table 4.3.6.1.6-1	
dci_2B		
dci_2C		
dci_2D		
dci_3		
dci_3A		
dci_4		

# PdcchResourceAllocation\_Type

TTCN-3 Enumerated Type		
Name	PdcchResourceAllocation_Type	
Comment	Resource allocation acc. TS 36.213, clause 7.1.6	
ra_0		
ra_1		
ra_2_Localised	=> physical and virtual RB index are identical	
ra_2_Distributed	=> virtual resource allocation	

## MIMO\_PrecodingBits\_Type

TTCN-3 Union Type		
Name	MIMO_PrecodingBits_Type	
Comment	Number of bits for precoding inform	ation acc. TS 36.212, table 5.3.3.1.5-3 and 5.3.3.1.5A-1
None	Null_Type	DCI 2A: 2 antenna ports at eNodeB (table 5.3.3.1.5A-1)
Bit2	B2 Type	DCI 2A: 4 antenna ports at eNodeB (table 5.3.3.1.5A-1)
Bit3	B3 Type	DCI 2: 2 antenna ports at eNodeB (table 5.3.3.1.5-3)
Bit6	B6 Type	DCI 2: 4 antenna ports at eNodeB (table 5.3.3.1.5-3)

## MIMO\_DciDlInfo\_Type

TTCN-3 Record Type			
Name	MIMO_DciDlInfo_Type		
Comment	additional information for DL I	DCI in	case of MIMO (i.e. when a 2nd CW is specified)
RedundancyVe rsionList_2ndC W	RedundancyVersionListDL Type	opt	list of Redundancy version for 2nd code word; shall have the same length as RedundancyVersionList_1stCW; if omit, for the 2nd CW the same RedundancyVersionList shall be applied as for the 1st CW
CodeWordSwa pFlag	B1 Type		transport block to codeword mapping acc. to TS 36.212 Table 5.3.3.1.5-1
PrecodingBits	MIMO PrecodingBits Type		precoding information acc. TS 36.212, table 5.3.3.1.5-3 and 5.3.3.1.5A-1

# DciDlInfoCommon\_Type

TTCN-3 Record	rd Type		
Name	DciDlInfoCommon_Type		
Comment	used for normal DL scheduling	acc. to TS 36.523-3, clause 7.3	
Format	PdcchDciFormat Type	BCCH, PCCH and RACH Response: 1A or 1C (TS 36.213, clause 7.1)  CCCH: 1A since transmission mode is not (may not be) configured at the UE yet (TS 36.213, clause 7.1)  DTCH/DCCH: depending on transmission mode	
ResourceAlloc Type	PdcchResourceAllocation_ Type	depends on DCI format, e.g. ra_2_Localised or ra_2_Distributed for DCI format 1A	
Modulation_1st CW	Modulation Type	max. modulation scheme for the 1st code word; depending on the amount of data a lower modulation scheme may be by SS but not a higher one; BCCH, PCCH and RACH Response: QPSK only	
Modulation_2n dCW	Modulation Type	modulation scheme for 2nd code word in case of spatial multiplexing; can be different than 1st code word (see TS 36.211, clause 6.3.2; TS 36.212, clause 5.3.3.1.5); 'unused' when there is no spatial multiplexing; NOTE: Acc. to 36.523-3 cl. 7.3.3.4 in normal mode MIMO shall not be used => for the time being Modulation_2ndCW is always "unused"	
FreqDomainSc hedul	FreqDomainSchedulComm on Type	index of 1st RB; max. number of RBs per TTI; NOTE: in case of DCI format 1C the first RB index has no meaning since distributed virtual resource blocks assigned in this case (TS 36.213, clause 7.1.6.3)	
RedundancyVe rsionList	RedundancyVersionListDL Type	list of Redundancy version to be used in case of retransmission; the number of elements in the list provides the maxHARQ-Tx	

## DciDlInfoExplicit\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	DciDlInfoExplicit_Type		
Comment	used for explicit DL schedulin	g acc.	to TS 36.523-3, clause 7.3
Imcs_1stCW	Imcs Type		MCS index of table 7.1.7.1-1 of TS 36.213
Imcs_2ndCW	Imcs Type		MCS index for the 2nd code word in case of MIMO; 'NotUsed' when MIMO is not used
Format	PdcchDciFormat_Type		
ResourceAlloc	PdcchResourceAllocation_		
Туре	<u>Type</u>		
FreqDomainSc	<u>FreqDomainSchedulExplicit</u>		
hedul	_Type		
RedundancyVe	RedundancyVersionListDL_		list of Redundancy version to be used in case of retransmission
rsionList	<u>Type</u>		the number of elements in the list provides the maxHARQ-Tx
MimoInfo	MIMO DciDIInfo Type	opt	shall be present when Imcs_2ndCW specifies a 2nd CW to be
			used;
			shall be omit when Imcs_2ndCW is 'NotUsed'

## DciDlInfo\_Type

TTCN-3 Union Type		
Name	DciDIInfo_Type	
Comment		
Auto	DciDlInfoCommon_Type	SS shall chose the appropriate TBS up to the maximim number of resource blocks
Explicit	DciDlInfoExplicit Type	used in MAC or RAB tests where exact TBS needs to be specified

### DciUlInfo\_Type

TTCN-3 Record	Record Type		
Name	DciUlInfo_Type		
Comment			
Imcs	Imcs_Type	MCS index of table 8.6.1-1 of TS 36.213	
TransRetransm issionList	UL_TransRetransmissionList_Type	list of possible retransmissions and their redundancy versions (depending on being adapive or non-adaptive); the list shall - start with - "New Transmission" (normal case) or - "Adaptive Retransmission" (e.g. to request a retransmission even when the data has been acknowledged with a HARQ ACK) - end with "Adaptive Retransmission" (if there are retransmissions) NOTE1: TTCN implementation shall ensure that a reconfiguration is done not before the previous list has been fully processed NOTE2: for normal operation the list contains only one NewTransmission element (i.e. possible retransmissions are non-adaptive)	
FreqDomainSc hedul	FreqDomainSchedulExplicit _Type		

## PeriodicGrant\_Type

TTCN-3 Record Type		
Name	PeriodicGrant_Type	
Comment		
Period	ULGrant Period Type	time period after which UL Grant need to be automatically
		transmitted or 'OnlyOnce'
NoOfRepetition	TransmissionRepetition_Ty	number of UL Grant repetitions to be automatically transmitted or
S	<u>pe</u>	continuous repetition

### **UL\_GrantConfig\_Type**

TTCN-3 Union T	ype	
Name	UL_GrantConfig_Type	
Comment		
OnSR_Recepti on	Null Type	SS tranmits UL Grant as configured by CommonDciInfoUL_Type at every reception of SR; to be used in non L2 Test
Periodic	PeriodicGrant Type	SS tranmits UL Grant as configured by CommonDciInfoUL_Type periodically; to be used in L2 tests; MAC tests testing Grants might set the period as infinite and num grant as 1
PeriodicOnSR_ Reception	PeriodicGrant_Type	SS tranmits UL Grant as configured by CommonDciInfoUL_Type periodically; the periodic grant transmission is started/restarted on reception of a SR from UE to be used in non L2 Test to enable large UL data transmission for lower category UEs (Cat<=1)
None	Null Type	disable any grant transmission

# D.1.3.5 Random\_Access\_Procedure

### **EUTRA\_ASP\_TypeDefs: Constant Definitions**

TTCN-3 Basic Types	TTCN-3 Basic Types				
tsc_RandomAccess ResponseListSize	integer	10	arbitrary value (needs to be extended, if necessary); in case of RACH in idle, UE will keep on making RACH attempts until t300 expires => number of PRACH preambles maybe even greater than maximum value of PREAMBLE_TRANS_MAX		

### Random\_Access\_Procedure: Basic Type Definitions

TTCN-3 Basic Types			
RACH_TimingAdvance_T	integer (02047)	11 bit timing advance as used in RACH	
ype		response (absolute value)	

### UplinkGrant\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	UplinkGrant_Type		
Comment	TS 36.213, clause 6.2		
HoppingFlag	B1 Type	Hopping flag	
RB_Allocation	B10 Type	Fixed size resource block assignment	
ModAndCodSc	B4 Type	Truncated modulation and coding scheme	
heme			
TPC_Comman	B3_Type	TPC command for scheduled PUSCH	
d			
UL_Delay	B1 Type	UL delay	
CQI_Req	B1 Type	CQI request	

### $Contention Resolution\_Contained RlcPdu\_Type$

TTCN-3 Union	TTCN-3 Union Type		
Name	ContentionResolution	ContentionResolution_ContainedRlcPdu_Type	
Comment			
RlcPdu	octetstring	octetstring of an RLC PDU containing e.g. the RRC Connection Setup; to be sent in the same MAC PDU as the MAC Contention Resolution Control Element	
None	Null Type	MAC PDU containing the MAC Contention Resolution Control Element does not contain an RLC PDU (i.e. RRC Connection Setup is sent in another PDU)	

### ContentionResolution\_ContainedId\_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	ContentionResolution_Contain	ContentionResolution_ContainedId_Type	
Comment			
XorMask	ContentionResolutionId Type	When SS receives Contention Resolution ID from the UE, SS shall XOR it with the given mask and use this as Contention Resolution ID; this allows to get an unmatching Contention Resolution ID; in normal cases mask shall be set to tsc_ContentionResolutionId_Unchanged (i.e. the Contention Resolution ID remains unchanged)	
None	Null Type	MAC Contention Resolution Control Element is not contained in the MAC PDU sent out as response on Msg3	

### TCRNTI\_ContentionResolutionMacPdu\_Type

TTCN-3 Record Type			
Name	TCRNTI_ContentionResolutionMacPdu_Type		
Comment	NOTE:		
	Either ContainedId or Containe	edRlcPdu (or both) shall not be 'none';	
	(if no Contention Resolution M	lac Pdu shall be sent,	
	TCRNTI_ContentionResolution	nCtrl_Type.NoContResoIID shall be used instead)	
ContainedId	ContentionResolution_Cont	Either the Contention Resolution ID as received from the UE	
	ainedId Type	or a modified Contention Resolution ID (XorMask !=	
		tsc_ContentionResolutionId_Unchanged)	
		or no Contention Resolution ID at all	
ContainedRlcP	ContentionResolution Cont	the MAC PDU containing the MAC Contention Resolution Control	
du	ainedRlcPdu_Type	Element may contain the RRC Connection Setup;	
		in this case the RRC PDU shall be completely encoded been	
		contained in an RLC PDU	

### $TCRNTI\_ContentionResolutionCtrl\_Type$

TTCN-3 Union T	TTCN-3 Union Type		
Name	TCRNTI_ContentionResolutionCtrl_Type		
Comment		m Access Response with a RRC Connection Request on CCCH ume initial Random Access Procedure (TS 36.300, clause back to the UE	
MacPdu	TCRNTI ContentionResolutionMa cPdu Type	MAC PDU containing the Contention Resolution ID and optionally an RRC PDU (RRC Connection Setup)	
MacPdu_CRC_	TCRNTI_ContentionResolutionMa	same as MacPdu (see above),	
Error	cPdu Type	but SS shall generate CRC error by toggling CRC bits;	
		no retransmissions shall be made as UE shall not send a NACK	
NoContResolID	Null_Type	SS shall not include contention resolution ID (i.e. no MAC PDU	
		shall be sent);	
		used for contention resolution fail case	

## CRNTI\_ContentionResolutionCtrl\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	CRNTI_ContentionResolutionCtrl_Type		
Comment	configuration for Random Access Procedure in RRC_CONNECTED (see TS 36.300, clause 10.1.5.1); when SS receives C-RNTI MAC element sent by the UE after Random Access Response, SS shall deal with the C-RNTI as specified in this structure		
AutomaticGrant	DciUlInfo Type	before expiry of the contention resolution timer SS shall automatically address PDCCH using C-RNTI as sent by the UE; the UL grant is specified acc. to DciUlInfo_Type	
None	Null Type	Used in case of dedicated preamble transmission or to simulate failure cases; SS shall not address PDCCH using C-RNTI => expiry of contention resolution timer on UE side	

# ContentionResolutionCtrl\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	ContentionResolutionCtrl_Type		
Comment	NOTE: SS only needs to consider one kind of contention resolution at one time; in the initial configuration of a cell TCRNTI_Based shall be configured and the common assuption is that in RRC_CONNECTED normally there are no RACH procedures (i.e. no CRNTI_Based configuration needed)		
	whereas e.g. in case of handover scenarios CRNTI_Based shall be configured		
TCRNTI_Base	TCRNTI_ContentionResolutionCtr	TCRNTI based contention resolution (e.g. initial access),	
d	<u>l Type</u>	hence involves inclusion contention resolution identity in DL message 4 of RACH procedure	
CRNTI_Based	CRNTI_ContentionResolutionCtrl _Type	CRNTI based contention resolution (e.g. in case UE is being in RRC_CONNECTED): hence uplink message in step 3 (of RACH procedure) is followed by PDCCH transmission with UE C-RNTI to end procedure	

## RapIdCtrl\_Type

TTCN-3 Union	Туре	
Name	RapIdCtrl_Type	
Comment		
Automatic	Null_Type	SS shall automatically use same RAPID as received from the UE
Unmatched	Null Type	SS shall use RAPID being different from preamble sent by the UE; SS shall calculate this RAPID acc. to RAPID := (RAPID + 363) mod 64 if single RAR is transmitted in a MAC PDU then only 3 is added if multiple RAR's are transmitted in MAC PDU, then for first unmatched RAR 3 is added, second unmatched 4 is added, third unmatched 5 is added and so on

### TempC\_RNTI\_Type

TTCN-3 Union T	FTCN-3 Union Type		
Name	TempC_RNTI_Type		
Comment			
SameAsC_RN TI	Null Type	in the RA response SS shall use the same C-RNTI as configured in ActiveCellConfig_Type; this is useful for initial random access	
Explicit	C_RNTI	in the RA response SS shall use different value as configured in ActiveCellConfig_Type; this can be used when the UE already is in RRC_CONNECTED to have a temporary C-RNTI different from the one used by the UE; NOTE: when the UE is not in RRC_CONNECTED there shall be no explicit temp. C-RNTI since then the UE would assume this value as C-RNTI	

## $Random Access Response Parameters\_Type$

TTCN-3 Record	Туре	
Name	RandomAccessResponseParameters_Type	
Comment	paramenters to control conten	t of RAR sent to the UE
Rapld	RapIdCtrl_Type	to control Random Access Preamble Id to be sent back to the UE; used in RAR MAC sub-header
InitialGrant	UplinkGrant Type	initial UL grant
TimingAdvance	RACH TimingAdvance Ty pe	timing advance: granularity of 0.52 micro sec (16*Ts); see TS 36.300, clause 5.2.7.3, TS 36.321, clause 6.1.3.5; NOTE: timing advance has impact not only on the RA procedure; SS in general needs to adjust its timing accordingly
TempC_RNTI	TempC RNTI Type	NOTE: For initial Random Access Procedure at network (SS) side there is no temporary C-RNTI: network assigns the C-RNTI which is used by any UE as being temporary; the UE which 'wins' the contention resolution keeps the (temporary) C-RNTI; other UEs need to repeat the RACH procedure; => at the SS the TempC_RNTI shall be 'SameAsC_RNTI' For Random Access Procedure in RRC_CONNECTED state the NW assigns a temporary C-RNTI which is replaced by the one stored at the UE; => TempC_RNTI may be 'SameAsC_RNTI' (in this case temp. C-RNTI and C-RNTI are equal what is not likely in a real network), or there is an explicit temp. C-RNTI what is used during RA procedure only (as in a real network)

### RarList\_Type

TTCN-3 Record of Type		
Name	RarList_Type	
Comment	in general MAC PDU may contain one or several RARs;	
	normally only one RAR is contained	
record of RandomAccessResponseParameters, Type		

### $Random Access Response\_Type$

TTCN-3 Union T	TTCN-3 Union Type		
Name	RandomAccessResponse_Type		
Comment			
None	Null Type	used for unsuccessful RA procedure	
List	RarList Type	normally one RAR to be sent to the UE; in general there can be	
		more than one RAR	

### $Random Access Back of fIndicator\_Type$

TTCN-3 Union Type			
Name	RandomAccessBackoffIndicator_Type		
Comment			
None	Null_Type	normal case, no back off indicator included	
Index	integer (015)	Backoff Parameter values acc. TS 36.321, clause 7.2;	
		values 012 are defined, 1315 may be used in error case	

### RandomAccessResponseCtrl\_Type

TTCN-3 Reco	TTCN-3 Record Type			
Name	RandomAccessResponseCtrl_Type			
Comment	TransmissionMode: single and else; RNTI: RA-RNTI (TS 36.321, c	enna lause	esponse mapped to DL-SCH mapped to PDSCH mode when there is only one antenna configured, transmit diversit 7.1); tor are 'None' SS shall not respond on RAP	
DciInfo	DciDlInfoCommon_Type		DCI format: 1A or 1C (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK Frequency domain schedule: index of 1st RB; max. number of RBs per TTI	
Rar	RandomAccessResponse Type		RAR to be sent to the UE	
BackoffInd	RandomAccessBackoffIndic ator_Type		possible backoff indicator; 'None' for normal cases	

### RandomAccessResponseConfig\_Type

TTCN-3 Union Type		
Name	RandomAccessResponseConfig_Type	
Comment		
Ctrl	RandomAccessResponseCtrl Ty pe	contains information to control sending of RAR
Ctrl_CRC_Erro r	RandomAccessResponseCtrl Ty pe	same as Ctrl (see above), but MAC PDU transmitted will contain CRC bits (0-3) being toggled; no retransmissions shall be made as UE shall not send a NACK
None	Null Type	to be used when there is no RAR to be sent at all

### RachProcedure\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RachProcedure_Type			
Comment				
RAResponse	RandomAccessResponseC onfig Type	control of how the SS shall react on RA preamble; this may be - the RAP id as expected by the UE - a RAP id not matching to the UE's RAP - a backoff indicator - nothing at all		
ContentionRes olutionCtrl	ContentionResolutionCtrl_T ype			

## RachProcedureList\_Type

Name	RachProcedureList_Type
Comment	to simulate RACH procedure with one or more than one attempt by the UE:  1. Normal cases:
	one single RandomAccessResponse is sent to the UE matching the UE's RACH preamble; contention resolution is successful immediately
	=> list contains only one element which is used for any RA procedure
	(Even if a RACH procedure is repeated by the UE for any reason this element shall be used; e.g. it needs not to be handled as error when the UE sends another RACH preamble instead of the RRC connection request message)
	2. Special cases:
	there are upto tsc_RandomAccessResponseListSize preambles sent by the UE => there are upto tsc_RandomAccessResponseListSize responses to be configured as elements of the list;
	SS shall start with the first element in the list and use the RAR as specified in this element; if the RAR matches at the UE side the UE will send UL data and contention resolution is performed as configured for this element;
	if the RAR does not match the UE sends another RAP and SS continues with the next element in the list;
	in this case the contention resolution of the respective element is not used; if the end of the list is reached and further RACH preambles are sent by the UE SS shall repetitively apply the last element of the list
	(this is necessary because there might be not enough time to reconfigure SS after the end of the list has been reached and there shall be well-defined behaviour after the list has been processed);
	to change from a special mode to normal mode the RachProcedureList is reconfigured by TTCN to achieve transparency and readability of the code;
	NOTE:
	when there are RACH_ConfigDedicated configured (see below) and the RA preamble matches with one the configured ones the contention resolution ctrl is obsolete (non contention based random access procedure)

### RachProcedureConfig\_Type

TTCN-3 Record	TTCN-3 Record Type				
Name	RachProcedureConfig_Type				
Comment	parameters to control the rand	dom a	ccess procedure; TS 36.321, clause 5.1		
RACH_ConfigC	RACH ConfigCommon Ty	opt	acc. TS 36.331, clause 6.3.2; may not be necessary for SS; omit: "keep as it is"		
ommon RACH_ConfigD edicated	RACH_ConfigDedicated_Ty pe	opt	acc. TS 36.331, clause 6.3.2; when random access preamble sent by the UE matches with the configured one, SS shall assume the random access procedure being non-contention based; initial configuration: no RACH_ConfigDedicated are configured; omit means "keep as it is"		
RachProcedure List	RachProcedureList Type	opt	in normal cases there is one element which is used for any RA procedure; special cases are used in MAC test cases; omit means "keep as it is" If the cell is an Active Scell, the RACH procedure configuration in the Active Scell controls the RAR transmission in the associated Pcell, for received PRACH preamble in Scell		

# D.1.3.6 System\_Information\_Control

Primitive to configuration BCCH/BCH

### System\_Information\_Control: Basic Type Definitions

TTCN-3 Basic Types		
BcchToPbchConfig_Type	Null_Type	place holder for BCCH mapped to BCH mapped to PBCH: MIB using fixed scheduling (periodicity: 40ms); transmission mode: single antenna port configuration (layer mapping acc. TS 36.211, clause 6.3.3.1) or transmit diversity (layer mapping acc. TS 36.211, clause 6.3.3.3) depending on antenna configuration

### $Sib1Schedul\_Type$

TTCN-3 Record Type				
Name	Sib1Schedul_Type			
Comment	SIB1: fixed scheduling in time every 20ms)	ne doma	ain acc. TS 36.331, clause 5.2.1.2 (periodicity: 80ms; repetitions	
Dcilnfo	DciDlInfoCommon Type	opt	DCI format: 1A or 1C (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK Frequency domain schedule: index of 1st RB; max. number of RBs per TTI	

### SingleSiSchedul\_Type

TTCN-3 Record Type				
Name	SingleSiSchedul_Type			
Comment	specifies scheduling for a single SI in freq and time domain			
Dcilnfo	DciDlInfoCommon Type	opt	DCI format: 1A or 1C (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK Frequency domain schedule: index of 1st RB; max. number of RBs per TTI	
SubframeOffset	integer	opt	offset within the SI-window; NOTE: SI-window may span more than one frame	

### SiSchedul\_Type

TTCN-3 Record	TTCN-3 Record Type				
Name	SiSchedul_Type				
Comment	specifies for a specific SI scho	eduling	g and repetitions within as SI window		
Periodicity	SiPeriodicity Type	opt			
Window	record of SingleSiSchedul Type	opt	NOTE: acc. to TS 36.331, clause 5.2.1.2 the same SI may occur more than once in an SI-window; to allow this there is a "record of" even though acc. to TS 36.508, clause 4.4.3.3 all SIs are sent only once within the window		

# SiSchedulList\_Type

TTCN-3 Record of Type		
Name	SiSchedulList_Type	
Comment		
record length(1maxSI_Message) of SiSchedul_Type		

### ${\bf All SiSchedul\_Type}$

TTCN-3 Record	Туре		
Name	AllSiSchedul_Type		
Comment			
WindowLength	SiWindowLength Type	opt	to calculate start of each SI window acc. TS 36.331, clause 5.2.3
SiList	SiSchedulList_Type	opt	list of scheduling info for the SIs containing one ore more SIBs
SegmentedSiLi st	SiSchedulList Type	opt	list of scheduling info for segmented SIs (e.g. SI containing SIB11); corresponds to SegmentedSIs in BcchInfo_Type: SS shall subsequently schedule the elements of the corresponding SegmentedSIs (BcchInfo_Type); e.g. SegmentedSiList[i] provided scheduling info for BcchInfo_Type's SegmentedSIs[i] and the kth element of SegmentedSIs[i] is sent at     T0 + ((K * N) + k) * periodicity with     K: number for segments     k = 0 K-1     N = 0, 1, 2, T0, peridicity: scheduling info as given by SegmentedSiList[i]

### BcchToPdschConfig\_Type

TTCN-3 Record Type			
Name	BcchToPdschConfig_Type		
Comment	configuration for BCCH mapped to DL-SCH mapped to PDSCH		
	TransmissionMode: single antenna mode when there is only one antenna configured, transmit		
	diversity else;		
	RNTI: ŚI-RNTI (TS 36.321, clause 7.1)		
Sib1Schedul	Sib1Schedul Type	opt	scheduling of SIB1 in frequency domain
SiSchedul	AllSiSchedul Type	opt	scheduling of SIs in frequency and time domain

## SI\_List\_Type

TTCN-3 Record of Type		
Name	SI_List_Type	
Comment	TS 36.331, clause 6.2.1 BCCH-DL-SCH-Message and clause 6.2.2 SystemInformation	
record of BCCH_DL_SCH_Message		

### $Segmented Sl\_List\_Type$

TTCN-3 Record of Type		
Name	SegmentedSI_List_Type	
Comment	Each element is a list of segments; used for SIB11/12 segmentation	
record of SI List Type		

## BcchInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	BcchInfo_Type			
Comment	all fields are declared as optional to allow modification of single field; acc. to TS 36.331, clause 9.1.1.1 "RRC will perform padding, if required due to the granularity of the TF signalling, as defined in 8.5."; therefore this needs to be done by the system simulator			
MIB	BCCH_BCH_Message	opt	TS 36.331, clause 6.2.1 BCCH-BCH-Message and clause 6.2.2 MasterInformationBlock; NOTE: the sequence number included in MIB needs to be handled and maintained by the system simulator; that means that the sequence number being setup by TTCN will be overwritten by SS	
SIB1	BCCH_DL_SCH_Message	opt	TS 36.331, clause 6.2.1 BCCH-DL-SCH-Message and clause 6.2.2 SystemInformationBlockType1	
SIs	SI List Type	opt	list of SIs corresponding to SiList of AllSiSchedul_Type (i.e. element i of AllSiSchedul_Type's SiList specifies the scheduling for SIs[i])	
SegmentedSIs	SegmentedSI List Type	opt	list of SIs containing segmented SIBs; corresponds to SegmentedSiList in AllSiSchedul_Type	

### BcchConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	BcchConfig_Type			
Comment	all fields are optional to allow single modifications; activation time may be applied in the common part of the ASP; NOTE 1: acc. to TS 36.331, clause 9.1.1.1 there is no PDCP and RLC/MAC are in TM NOTE 2: mapping/scheduling and contents of the System Information in general is done in one go (i.e. there are no separate ports for SIB data and configuration)			
Pbch	BcchToPbchConfig Type	opt		
Pdsch	BcchToPdschConfig_Type	opt		
BcchInfo	BcchInfo_Type	opt		
StopSib1Trans mission	Null_Type	opt	if omitted:    SS transmits SIB1 last provided in BcchInfo and associated DCI.  if set:    SS shall stop transmission of SIB1 and associated DCI.	
			To resume SIB1 transmission, this flag shall be omitted and SIB1 shall be provided in BcchInfo.	

# D.1.3.7 Paging\_Control

Primitive to configuration PCCH/PCH

### PcchConfig\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	PcchConfig_Type		
Comment	configuration for PCCH mapped to PCH mapped to PDSCH TransmissionMode: single antenna mode when there is only one antenna configured, transmit diversity else; RNTI: P-RNTI (TS 36.321, clause 7.1) NOTE: acc. to TS 36.331, clause 9.1.1.3 there is no PDCP and RLC/MAC are in TM		
Dcilnfo	DciDlInfoCommon_Type  opt  Opt  DCI format: 1A or 1C (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK Frequency domain schedule: index of 1st RB; max. number of RBs per TTI		

# D.1.3.8 UE\_Specific\_Channel\_Configuration

## D.1.3.8.1 UE\_Specific\_Channel\_Configuration\_DL

Scheduling and other information for CCCH/DCCH/DTCH mapped to DL-SCH mapped to PDSCH

### HarqProcessConfigDL\_Type

TTCN-3 Union Type		
Name	HarqProcessConfigDL_Type	
Comment	HARQ processes to be used autom	atically for DL assignments
AllProcesses	Null_Type	all HARQ processes shall be used for automatic assignment; this is the normal case
SpecificSubset	HarqProcessList Type	only the HARQ processes of this list shall be used automatically, other processes are excluded from automatic assignments; nevertheless all HARQ processes may be addressed explicitly by DRB_DataPerSubframe_DL_Type.HarqProcess

### CcchDcchDtchConfigDL\_Type

TTCN-3 Record Type			
Name	CcchDcchDtchConfigDL_Type		
Comment	configuration for CCCH/DCCH/DTCH mapped to DL-SCH mapped to PDSCH		
	TransmissionMode: as signalled to the UE (AntennaInfoDedicated in RRCConnectionSetup);		
	RNTI: C-RNTI (TS 36.321, cla	ause 7	(.1);
	all fields optional (omit = "kee	p as it	is") since DCI format and modulation may be changed during a
	test;		
	for initial configuration all fields are mandatory		
Dcilnfo	DciDlInfo Type	opt	DCI format: 1A per default since for CCCH mimo cannot be
			applied in general
			ResourceAllocType: (depending on DCI format)
			Modulation: QPSK for signalling
			Frequency domain schedule: index of 1st RB; max. number of
			RBs per TTI;
			in case of spatial multiplexing if there are 2 code words
			FreqDomainSchedul shall be applied to both
AntennaInfo	AntennalnfoDedicated Typ	opt	as signalled to the UE (TS 36.331, clause 6.3.2):
	<u>e</u>		transmissionMode, codebookSubsetRestriction
HarqProcessC	HarqProcessConfigDL Typ	opt	HARQ processes automatically used by the SS in DL
onfig	<u>e</u>		

# D.1.3.8.2 UE\_Specific\_Channel\_Configuration\_UL

Scheduling information for CCCH/DCCH/DTCH mapped to UL-SCH mapped to PUSCH

### PucchHoppingBits\_Type

TTCN-3 Union Type		
Name	PucchHoppingBits_Type	
Comment	Number of hopping bits acc. to TS 36.213 table 8.4-2	
OneBit	B1 Type	N(UL, RB) = 649 i.e. default system bandwid this less than 10
		MHz (does not include 10 MHz)
TwoBits	B2_Type	N(UL, RB) = 50110 i.e. default system bandwidth is 10 MHz or
		above

### UplinkHoppingResourceParameters\_Type

TTCN-3 Record Type			
Name	UplinkHoppingResourceParameters_Type		
Comment			
PucchHopping	PucchHoppingBits Type	to control hopping resource allocation as signalled in DCI format 0 (TS 36.212, clause 5.3.3.1.1)	

### UplinkHoppingControl\_Type

TTCN-3 Union Type		
Name	UplinkHoppingControl_Type	
Comment	shall be considered by SS to fill in the information needed for DCI format 0 (TS 36.213, clause 7.1)	
Deactivated	Null Type	
Activated	<u>UplinkHoppingResourceParamete</u>	
	rs_Type	

# CcchDcchDtchConfigUL\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CcchDcchDtchConfigUL_Type			
Comment	NOTE 1: for definition of the possible U and the PRACH (TS 36.211, NOTE 2: In contrast to the DL where the	IL grar clause he sche E UL th R (sche		
Dcilnfo	DciUlInfo Type	opt	DCI format: 0 (TS 36.213, clause 7.1) ResourceAllocType: 2 (acc. to DCI format) Modulation: QPSK per default Frequency domain schedule: index of 1st RB; max. number of RBs per TTI (upper bound up to which SS may assign grants to the UE)	
Hopping	UplinkHoppingControl Typ e	opt	when Hopping = 'Activated' SS shall set hopping flag in DCI format 0	
PUCCH_Synch	PUCCH_Synch_Type	opt	parameters to control automatic control of timing advance	
UL_GrantConfi g	UL GrantConfig Type	opt	UL grant allocation to be applied	

# **UE\_Specific\_Channel\_Configuration:** Basic Type Definitions

TTCN-3 Basic Types				
N_PSCCH_Type	B6 Type			
Itrp_Type	integer (0127)			

# DrxCtrl\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	DrxCtrl_Type			
Comment	DRX configuration for connected me	ode (TS 36.321, clause 5.7)		
None	Null_Type	DRX not configured		
Config	DRX Config Type	DRX is configured as signalled to the UE; NOTE: the release branch of DRX-Config in general is not used for configuration of the SS		

# MeasGapCtrl\_Type

TTCN-3 Union Type			
Name	MeasGapCtrl_Type		
Comment	support of measurement gap config	guration	
None	Null_Type	no measurement gap configuration	
Config	MeasGapConfig Type	measurement gap configuration acc. to TS 36.331, clause 6.3.5 and gap pattern acc. TS 36.133 Table 8.1.2.1-1; NOTE: the release branch of MeasGapConfig in general is not used for configuration of the SS	

# ${\tt CcchDcchDtchConfig\_Type}$

TTCN-3 Record	TTCN-3 Record Type			
Name	CcchDcchDtchConfig_Type	)		
Comment				
MeasGapCtrl	MeasGapCtrl Type	opt	to tell the SS when no assignments/grants shall be assigned to the UE	
DL	CcchDcchDtchConfigDL_Ty pe	opt	Scheduling, parameters related to CCCH, DCCH and DTCH in DL	
UL	CcchDcchDtchConfigUL Ty pe	opt	Scheduling, parameters related to CCCH, DCCH and DTCH in UL	
DrxCtrl	DrxCtrl Type	opt	DRX configuration as sent to the UE (or 'None' when the UE does not support connected mode DRX)	
TtiBundling	TTI BundlingConfig Type	opt	TTI bundling as configured at the UE	
CifPresence	boolean	opt	corresponds to PhysicalConfigDedicated.cif_Presence_r10: The CIF field is applied for dedicated search space scheduling i.e. DCCH/DTCH. Not present for common search space scheduling. CIF indicator as true may be configured even in non CA cell, to facilitate the future false: no serving cell is cross scheduled by this cell true: carrier indicator field is present when the PDCCH CRC is scrambled by C-RNTI or SPS C-RNTI omit means "keep as it is"	

# SL\_SciStchConfig\_Type

TTCN-3 Record Type			
Name	SL_SciStchConfig_Type		
Comment	Scheduling for STCH mapped to SL-SCH mapped to PSSCH		
	DPCCH DCI format 5 (TS 36	.213, c	lause 14.2)
	UL grant allocation to be applied: On SL-BSR Reception		
	For the time being there is no requirement to configure the SS with TPC-PDCCH-Config;		
	In general SS is required to keep the UE's UL power constant		
SL_RNTI_r12	C_RNTI	opt	
N_PSCCH	N PSCCH Type	opt	Resource for PSCCH - 6 bits
SL Sheduling	SL SciConfig Type	opt	SCI format 0 configuration

# SL\_SciConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SL_SciConfig_Type			
Comment	SCI format 0 (TS 36.213 clause 14.2 TS 36.212 clause 5.3.3.1.9)			
	ResourceAllocType: 0 (36.213	cl 14.1.1.2.1 and 8.1.1)		
	Frequency domain schedule: index of 1st RB; max. number of RBs per TTI			
	(upper bound up to which SS may assign grants to the UE)			
Hopping	UplinkHoppingControl Typ	Frequency hopping flag - bit		
	<u>e</u>			
FreqDomainSc	FreqDomainSchedulExplicit	Resource block assignment		
hedul	<u>Type</u>			
Itrp	Itrp Type	Time resource pattern of 14.1.1.1 of TS 36.213		

# D.1.3.9 Carrier\_Aggregation

# ActivateScell\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	ActivateScell_Type			
Comment				
ScellActivation	ScellBitMap Type		36.321 clause 6.1.3.8; B0=C7, B1=C6 B6=C1, B7 is reserved. B0 to B6, 1 means Activate associated Scell	
SendMCE	boolean		If true the SS sends a MAC Control Element to the UE	

# Scell\_Capability\_Type

TTCN-3 Enumerated Type			
Name	Scell_Capability_Type		
Comment			
DIOnly	the CC is configured in DL only, no aggregation in this cell in UL		
UL_DL	the aggregation is configured in both UL and DL		

# ScellDeactivationTimer\_Type

TTCN-3 Union Type			
Name	ScellDeactivationTimer_Type		
Comment	NOTE: this type is a union to allow s	semantic of "keep as it is" for optional fields of this type	
NumberOfRadi	MAC_MainConfig_ScellDeactivati	SCell deactivation timer acc. to TS 36.321	
oFrames	onTimer_Type		
Infinity	Null Type	infinity as when 'sCellDeactivationTimer' is omitted in 'MAC-	
		MainConfig' sent to the UE	

#### SCellIndexList\_List

TTCN-3 Record of Type			
Name	SCellIndexList_List		
Comment			
record length (17) of SCellIndex_r10			

# CrossCarrierScheduledCellsList\_Type

TTCN-3 Union Type			
Name	CrossCarrierScheduledCellsList_Type		
Comment			
None	Null Type	No Cells Cross Scheduled by this Cell; CIF can still be true.	
CrossSchedule	SCellIndexList List	List of Scells Scheduled by this Scell; CIF field shall be true;	
dCells		Pcell cannot be cross scheduled	

# SchedulingCarrierConfig\_Type

TTCN-3 Union T	ype	
Name	SchedulingCarrierConfig_Type	
Comment		
Own	<u>CrossCarrierScheduledCellsList</u>	Cell is scheduled by itself and possible cross schedules other
	<u>Type</u>	Scells
CrossSchedule	CrossSchedulingCarrierInfo_Type	Cell is cross Scheduled by other carrier; the CIF field shall be
d		configured in the serving cell scheduling this scell

# ${\bf CrossCarrierSchedulingConfig\_Type}$

TTCN-3 Union T	уре	
Name	CrossCarrierSchedulingConfig_Type	
Comment		
Config	SchedulingCarrierConfig Type	When cross carrier scheduling is enabled then the CIF field shall be configured in the serving cell scheduling this scell
None	Null_Type	

# PrimaryCellInfo\_Type

TTCN-3 Record Type			
Name	PrimaryCellInfo_Type		
Comment			
AssociatedScel IList	EUTRA CellIdList Type		List of Scells associated with the Pcell/PScells (needs to be consistent with AssociatedPcellId in Scell/PScell)
MeasSubframe PatternPCell	MeasSubframePatternPCell _r10	opt	
CrossCarrierSc heduledCellsLi st	CrossCarrierScheduledCell sList_Type	opt	Information of possible Cells Cross Scheduled by this cell

# Pcell\_Mode\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	Pcell_Mode_Type		
Comment			
FDD	Null Type		
TDD	TDD SubframeAssignment Type		

# SecondaryCellInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SecondaryCellInfo_Type			
Comment				
AssociatedPcel IId	EUTRA CellId Type		cell ID of associated Pcell/PSCell (eutra_Cell_NonSpecific is not allowed)	
SCellIndex	SCellIndex_r10			
Scell_Capabilit y	Scell Capability Type	opt	if DL only or both UL and DL (omit means "keep as it is")	
ScellDeactivati onTimer	ScellDeactivationTimer Typ e	opt	SCell deactivation timer; omit means "keep as it is"; when there is more than one SCell associated to the same PCell this field shall be set to the same value for each SCell	
CrossCarrierSc hedulingConfig	CrossCarrierSchedulingCon fig Type	opt	omit means "keep as it is"	
STAG_ld	STAG_ld_r11	opt	if IE is never configured then scell is part of PTAG. Uses the STAG_ID or PTAG in Auto PUCCH synchronization when transmitting periodically Timing Advance MCE	
Pcell_Mode	Pcell Mode Type	opt	omit means Pcell/PScell and Scell mode are same. To be provide for FDD-TDD mixed mode CA/Dual connectivity configurations	

# ${\bf Serving Cell Config\_Type}$

TTCN-3 Union 7	TTCN-3 Union Type		
Name	ServingCellConfig_Type		
Comment			
PCell	PrimaryCellInfo Type	cell shall become PCell	
SCell	SecondaryCellInfo Type	cell shall become SCell	
PSCell	PSCellInfo Type	cell shall become PSCell	
Release	Null Type	cell is changed back to normal non CA cell	

# PSCellInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	PSCellInfo_Type			
Comment				
AssociatedPcel IId	EUTRA CellId Type		cell ID of associated Pcell (eutra_Cell_NonSpecific is not allowed)	
SCellIndex	SCellIndex_r10			
AssociatedScel IList	EUTRA_CellIdList_Type		List of Scells associated with the PScell (needs to be consistent with AssociatedPcellId in Scell)	
CrossCarrierSc hedulingConfig	CrossCarrierSchedulingCon fig Type	opt	omit means "keep as it is"	
Pcell_Mode	Pcell_Mode_Type	opt	omit means PCell and PSCell mode are same. To be provide for FDD-TDD mixed mode Dual connectivity configurations	

# D.1.3.10 OCNG\_Config

# OCNG\_Config\_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	OCNG_Config_Type		
Comment			
Activate	OCNG ActivateInfo Type	CellId: identifier of the cell where the OCNG needs to be activated RoutingInfo: None TimingInfo: activation time from when the SS starts transmission of uncorrelated pseudo random MAC TB's addressed to Virtual UE's in non ABS subframes. ControlInfo: CnfFlag:=false; FollowOnFlag:=false	
Deactivate	Null Type	CellId: identifier of the cell where the OCNG needs to be deactivated RoutingInfo: None TimingInfo: activation time from when the SS stops transmission of MAC TB's addressed to Virtual UE's in non ABS subframes. ControlInfo: CnfFlag:=false; FollowOnFlag:=false	

# OCNG\_ActivateInfo\_Type

TTCN-3 Record	Туре	
Name	OCNG_ActivateInfo_Type	
Comment		erator (OCNG): ed pseudo random data in MAC TB's addressed to Virtual UE's, will not o no HARQ ACK/NACK reception being considered as NACK.
MeasSubFram ePattern	MeasSubframePattern_r10	provides the bit string for x (size of bit string divided by 10 ) frames to be repeated continuously from provided timing info; 1 represents ABS subframe hence no pseudo random MAC TB is scheduled 0 represent non-ABS subframe and SS automatically transmits MAC TB's consisting of pseudo random data in each non-ABS subframe

# D.1.4 Cell\_Power\_Attenuation

# CellAttenuationConfig\_Type

TTCN-3 Record Type			
Name	CellAttenuationConfig_Typ	CellAttenuationConfig_Type	
Comment			
CellId	EUTRA CellId Type		
Attenuation	Attenuation Type		
TimingInfo	TimingInfo Type	opt	

#### CellAttenuationList\_Type

TTCN-3 Record of Type		
Name	CellAttenuationList_Type	
Comment		
record length(1tsc EU	ITRA MaxNumberOfCells) of CellAttenuationConfig Type	

# D.1.5 Radio\_Bearer\_Configuration

Radio Bearer Configuration: SRBs/DRBs

# D.1.5.1 PDCP\_Configuration

#### PDCP\_SNLength\_Type

TTCN-3 Enumerated 1	TTCN-3 Enumerated Type		
Name	PDCP_SNLength_Type		
Comment	PDCP Sequence Number		
PDCP_SNLength5	TS 36.323 clause 6.2.2		
PDCP_SNLength7	TS 36.323 clause 6.2.3		
PDCP_SNLength12	TS 36.323 clause 6.2.4		
PDCP_SNLength16	TS 36.323 clause 6.2.10		

# PDCP\_ROHC\_Mode\_Type

TTCN-3 Record	Туре	
Name	PDCP_ROHC_Mode_Type	
Comment		
SN_Size	PDCP SNLength Type	

#### PDCP\_NonROHC\_Mode\_Type

TTCN-3 Record	Туре	
Name	PDCP_NonROHC_Mode_Type	
Comment		
SN_Size	PDCP SNLength Type	

# PDCP\_TestModeInfo\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PDCP_TestModeInfo_Type		
Comment			
PDCP_ROHC_ Mode	PDCP ROHC Mode Type	ROHC test mode acc. to TS 36.523-3, clause 4.2.1.3.1; requires PDCP to be configured for this RB => - SS applies ciphering in UL and DL - SS maintains PDCP sequence numbers and state variables Furthermore in this mode - SS does not add/remove PDCP headers (in UL the PDCP PDUs are decoded depending on SN_Size) - SS applies ROHC in DL only	
PDCP_NonRO HC_Mode	PDCP_NonROHC_Mode_Type	PDCP test mode acc. to TS 36.523-3, clause 4.2.1.3.2 (non-ROCH test mode); requires PDCP to be configured as transparent => - SS does not apply ciphering in UL and DL - SS does not interpret, insert or remove PDCP headers (in UL PDCP PDUs are decoded depending on SN_Size) - SS does not maintain PDCP sequence numbers and state variables	

# PDCP\_TestModeConfig\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PDCP_TestModeConfig_Type		
Comment			
None	Null_Type		
Info	PDCP_TestModeInfo_Type		

# PDCP\_RbConfig\_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	PDCP_RbConfig_Type		
Comment			
Srb	Null_Type	for SRB1/2 there are no PDCP_Parameters;	
		SN is always 5 bits	
Drb	PDCP Config Type	PDCP-Configuration acc. to TS 36.331, clause 6.3.2;	
		among others for UM here pdcp-SN-Size is configured to be	
		either len7bits or len12bits;	
		for AM it always is 12bit	
Transparent	Null Type	used for PDCP tests (TS 36.523-3, clause 4.2.1.3.2):	
		the SS does not apply ciphering and does not maintain	
		PDCP sequence numbers and state variables;	
		in UL the PDCP PDUs are decoded acc. to the TestMode;	
		Note: a reconfiguration of a RB from transparent mode to	
		'normal' mode is not foreseen	
		(i.e. there is no mechanism to restore Ciphering,	
		PDCP sequence numbers and state variables at the SS)	

# PDCP\_ConfigInfo\_Type

TTCN-3 Record Type				
Name	PDCP_ConfigInfo_Type	PDCP_ConfigInfo_Type		
Comment				
Rb	PDCP_RbConfig_Type	opt	mandatory for initial configuration; omit means "keep as it is"	
TestMode	PDCP TestModeConfig Ty	opt	mandatory for initial configuration; omit means "keep as it is"	
	pe			

# PDCP\_Configuration\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PDCP_Configuration_Type		
Comment			
None	Null Type	for SRB0 no PDCP is configured; furthermore the PDCP may not be configured e.g. for DRBs tested in MAC test cases	
Config	PDCP_ConfigInfo_Type		

# D.1.5.2 RLC\_Configuration

RLC configuration: radio bearer specific

# **RLC\_Configuration: Basic Type Definitions**

TTCN-3 Basic Types		
RLC_AM_SequenceNumb	integer (01023)	RLC AM sequence number
er_Type		
SS_RLC_TM_Type	Null Type	TM to configure SRB0; no parameters to be
		defined

#### RLC\_ACK\_Prohibit\_Type

TTCN-3 Enumerated Type		
Name	ame RLC_ACK_Prohibit_Type	
Comment		
Prohibit	cause SS RLC layer to stop any ACK transmission for UL PDU's received from UE	
Continue	bring back the SS RLC in normal mode, where ACK/NACK are transmitted at polling	

# RLC\_NotACK\_NextRLC\_PDU\_Type

TTCN-3 Enumerated 1	Гуре
Name	RLC_NotACK_NextRLC_PDU_Type
Comment	
Start	cause SS RLC layer not to ACK the next received RLC PDU; this is done regardless of whether the poll bit is set or not; Example [from UMTS]: when the UE gets new security information in a SECURITY MODE COMMAND the response (SECURITY MODE COMPLETE) sent by the UE is not acknowledged at the RLC level; this causes the UE to continue using the "old" security information

# RLC\_TestModeInfo\_Type

TTCN-3 Union Type		
Name	RLC_TestModeInfo_Type	
Comment		
AckProhibit	RLC ACK Prohibit Type	valid only when the RLC is configured in AM
NotACK_NextR	RLC NotACK NextRLC PDU Ty	valid only when the RLC is configured in AM
LC_PDU	<u>pe</u>	
ModifyVTS	RLC_AM_SequenceNumber_Typ	to modify the VT(S) at SS: VT(S) at the SS side is set to this
	<u>e</u>	(absolute) value;
		valid only when the RLC is configured in AM
TransparentMo	Null Type	shall be set when TTCN expects RLC PDUs as UMD in UL with
de_UMDwith5B		an SN of 5 bits;
itSN		valid only when the RLC is configured in TM
TransparentMo	Null Type	shall be set when TTCN expects RLC PDUs as UMD in UL with
de_UMDwith10		an SN of 10 bits;
BitSN		valid only when the RLC is configured in TM
TransparentMo	Null Type	shall be set when TTCN expects RLC PDUs as AMD in UL;
de_AMD		valid only when the RLC is configured in TM

# RLC\_TestModeConfig\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	RLC_TestModeConfig_Type	
Comment		
None	Null_Type	
Info	RLC_TestModeInfo_Type	

# SS\_RLC\_AM\_Type

TTCN-3 Recor	TTCN-3 Record Type			
Name	SS_RLC_AM_Type			
Comment				
Tx	UL AM RLC Type	opt	the UE's UL setting to be used in SS's tx direction	
Rx	DL AM RLC Type	opt	the UE's DL setting to be used in SS's rx direction	
ExtendedLI	RLC_Config_v1250	opt	Indicates the RLC LI field size. Value TRUE means that 15 bit LI	
			length shall be used,	
			otherwise 11 bit LI length shall be used	

# SS\_RLC\_UM\_Bi\_Directional\_Type

TTCN-3 Record Type			
Name	SS_RLC_UM_Bi_Directional_Type		
Comment			
Tx	UL UM RLC Type	opt	the UE's UL setting to be used in SS's tx direction
Rx	DL UM RLC Type	opt	the UE's DL setting to be used in SS's rx direction

# SS\_RLC\_UM\_Uni\_Directional\_UL\_Type

TTCN-3 Record Type				
Name	SS_RLC_UM_Uni_Directional_UL_Type			
Comment				
Rx	DL UM RLC Type	opt	the UE's DL setting to be used in SS's rx direction	

# SS\_RLC\_UM\_Uni\_Directional\_DL\_Type

TTCN-3 Record	Гуре		
Name	SS_RLC_UM_Uni_Directional_DL_Type		
Comment			
Tx	UL UM RLC Type opt the UE's UL setting to be used in SS's tx direction		

### RLC\_RbConfig\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RLC_RbConfig_Type		
Comment			
AM	SS RLC AM Type		
UM	SS RLC UM Bi Directional Typ		
	<u>e</u>		
UM_OnlyUL	SS_RLC_UM_Uni_Directional_UL		
	_Type		
UM_OnlyDL	SS RLC UM Uni Directional DL		
	<u>Type</u>		
TM	SS_RLC_TM_Type	normally SRB0 only; may be used for test purposes also	

# **RLC\_Configuration\_Type**

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_Configuration_Type			
Comment				
Rb	RLC RbConfig Type	opt	mandatory for initial configuration; omit means "keep as it is"	
TestMode	RLC TestModeConfig Typ	opt	mandatory for initial configuration; omit means "keep as it is"	
	<u>e</u>			

# D.1.5.3 MAC\_Configuration

MAC configuration: radio bearer specific configuration

# **EUTRA\_ASP\_TypeDefs: Constant Definitions**

TTCN-3 Basic Types			
tsc_MaxHarqRetran smission	integer	28	maximum value for maxHARQ- Msg3Tx as being signalled to the UE

# MAC\_Test\_DLLogChID\_Type

TTCN-3 Union T	'ype	
Name	MAC_Test_DLLogChID_Type	
Comment		
LogChld	TestLogicalChannelId_Type	Specifies to over write the logical channel ID in MAC header in all the DL messages sent on the configured logical channel
ConfigLchId	Null Type	Specifies that the normal mode of correct logical channel ID to be used in DL MAc header. This will be the default mode, when SS is initially configured.

# ${\tt MAC\_Test\_DL\_SCH\_CRC\_Mode\_Type}$

TTCN-3 Enumerated 1	TTCN-3 Enumerated Type		
Name	MAC_Test_DL_SCH_CRC_Mode_Type		
Comment			
Normal	default mode, the CRC generation is correct		
Erroneous	SS shall generate CRC error by toggling CRC bits; the CRC error shall be applied for all PDUs of the given RNTI and their retransmission until SS is configured back to 'normal' operation		
Error1AndNormal	the SS generates wrong CRC for first transmission and correct CRC on first retransmission.  Later SS operates in normal mode. The retransmission is automatically triggered by reception of HARQ NACK		

# ${\tt MAC\_Test\_SCH\_NoHeaderManipulation\_Type}$

TTCN-3 Enumerated T	TTCN-3 Enumerated Type		
Name	MAC_Test_SCH_NoHeaderManipulation_Type		
Comment			
NormalMode	MAC header is fully controlled by the SS		
DL_SCH_Only	TTCN can submit a final MAC PDU including header and payloads;		
	SS does not do anything with this MAC PDU i.e. no header is added for the DL SCH transport channel.		
	It is possible that data belonging to multiple DRBs is sent in one MAC PDU and from one special RB configured.		
	NOTE: SRBs shall work as in normal mode and data can be sent/received on SRBs but sending on SRBs shall be in different TTIs than sending data PDUs.		
DL_UL_SCH	In UL and DL the SS' MAC layer is transparent i.e. SS does not add or remove any MAC header		

# HARQ\_ModeList\_Type

TTCN-3 Record of Type			
Name	HARQ_ModeList_Type		
Comment			
record length (1tsc MaxHargRetransmission) of HARQ Type			

# PhichTestMode\_Type

TTCN-3 Union Type			
Name	PhichTestMode_Type		
Comment			
NormalMode	Null Type	PHICH is configured to operate in normal mode	
ExplicitMode	HARQ ModeList Type	the number of elements in explicit list shall match the number of retransmissions being expected	

# MAC\_TestModeInfo\_Type

TTCN-3 Record	Туре	
Name	MAC_TestModeInfo_Type	
Comment	Parameters/Configuration for Ma	AC tests
DiffLogChld	MAC Test DLLogChID Ty	to be used in test cases 7.1.1.1 and 7.1.1.2 for using a different
-	<u>pe</u>	logical channel ID in MAC-header on DL-SCH channel
No_HeaderMa	MAC_Test_SCH_NoHeade	to configure mode for no header manipulation in SS MAC layer
nipulation	rManipulation Type	for DL/UL SCH

# MAC\_TestModeConfig\_Type

TTCN-3 Union Type		
Name	MAC_TestModeConfig_Type	
Comment		
None	Null Type	
Info	MAC TestModeInfo Type	

# MAC\_LogicalChannelConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	MAC_LogicalChannelConfig_Type			
Comment				
Priority	integer	logical channel priority for the DL as described in TS 36.321,		
		clause 5.4.3.1 for the UL		
PrioritizedBitRa	PrioritizedBitRate_Type	PBR as described for the UL; probably not needed at SS		
te	·			

# MAC\_Configuration\_Type

TTCN-3 Record Type			
Name	MAC_Configuration_Type		
Comment			
LogicalChannel	MAC LogicalChannelConfi	opt	mandatory for initial configuration; omit means "keep as it is"
	<u>g Type</u>		
TestMode	MAC TestModeConfig Typ	opt	mandatory for initial configuration; omit means "keep as it is";
	<u>e</u>		for none MAC tests "TestMode.None:=true"

# Radio\_Bearer\_Configuration: Basic Type Definitions

TTCN-3 Basic Types		
LogicalChannelld_Type	integer (010)	acc. TS 36.331, clause 6.3.2 for DRBs DTCH- LogicalChannelIdentity is INTEGER (310); additionally we have 02 for the SRBs
TestLogicalChannelld_Ty pe	integer (031)	To be used in MAC test mode for reserved values of Logical channels;

# $Radio Bearer ConfigInfo\_Type$

TTCN-3 Record	TTCN-3 Record Type			
Name	RadioBearerConfigInfo_Type			
Comment	semantics of omit: "keep as it is"			
Pdcp	PDCP Configuration Type	opt	for SRB0: "Pdcp.None:=true" mandatory for initial configuration; omit means "keep as it is"	
Rlc	RLC_Configuration_Type	opt	mandatory for initial configuration; omit means "keep as it is"	
LogicalChannel Id	LogicalChannelld_Type	opt	DRBs: DTCH-LogicalChannelIdentity as for rb-MappingInfo in DRB-ToAddModifyList; SRBs: for SRBs specified configurations acc. to TS 36.331, clause 9.1.2 shall be applied: SRB1: ul-LogicalChannel-Identity = dl-LogicalChannel-Identity = 1 SRB2: ul-LogicalChannel-Identity = dl-LogicalChannel-Identity = 2 for SRB0 being mapped to CCCH the LCID is '00000'B acc. to TS 36.321, clause 6.2.1; mandatory for initial configuration; omit means "keep as it is"	
Mac	MAC_Configuration_Type	opt	-	
DiscardULData	boolean	opt	if omitted:     initial configuration: data is handed over to TTCN as usual re-configuration: "keep as it is"     if set:         true - SS shall discard any data in UL for this radio bearer false - (re)configuration back to normal mode         NOTE: typically applicable for UM DRBs only	

# RadioBearerConfig\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RadioBearerConfig_Type		
Comment			
AddOrReconfig	RadioBearerConfigInfo Type	add / re-configure RB -	
ure		CellId: identifier of the cell being configured	
		RoutingInfo : None	
		TimingInfo : 'Now' in common cases	
		ControlInfo : CnfFlag:=true; FollowOnFlag:=false (in general)	
Release	Null_Type	release RB -	
		CellId: identifier of the cell being configured	
		RoutingInfo : None	
		TimingInfo : 'Now' in common cases	
		Controllnfo: CnfFlag:=true: FollowOnFlag:=false (in general)	

# RadioBearer\_Type

TTCN-3 Record Type				
Name	RadioBearer_Type			
Comment				
Id	RadioBearerId Type		either for SRB or DRB	
Config	RadioBearerConfig Type			

# RadioBearerList\_Type

TTCN-3 Record of Type		
Name	RadioBearerList_Type	
Comment	array of SRBs and/or DRBs (DRBs + 3 SRBs)	
record length (1tsc MaxRB) of RadioBearer Type		

# D.1.6 AS\_Security

Primitive for control of AS security

#### PdcpSQN\_Type

TTCN-3 Recor	TTCN-3 Record Type		
Name	PdcpSQN_Type		
Comment			
Format	PdcpCountFormat Type	5 bit, 7 bit or 12 bit SQN	
Value	integer	SQN value (5 bit, 7 bit or 12 bit SQN) NOTE: in TTCN the test case writer is responsible to deal with potential overflows (e.g. there shall be a "mod 32", "mod 128" or "mod 4096" according to the format)	

### PDCP\_ActTime\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PDCP_ActTime_Type		
Comment	The sequence number in UL and DL for SRB1 should be one more than the present SQN, as Ciphering starts in UL and DL soon after SMC and SMComp; For other SRB/DRB it should be the present SQN.		
None	Null Type	No Activation time; to be used if Ciphering is not applied	
SQN	PdcpSQN Type	PDCP sequence number	

#### SecurityActTime\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	SecurityActTime_Type		
Comment			
RadioBearerId	RadioBearerId Type		
UL	PDCP ActTime Type		
DL	PDCP ActTime Type		

# SecurityActTimeList\_Type

TTCN-3 Record of Type		
Name	SecurityActTimeList_Type	
Comment		
record length (1tsc MaxRB) of SecurityActTime Type		

# AS\_IntegrityInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	AS_IntegrityInfo_Type			
Comment	security activation are integrit this means this ASP is invoke	y prote ed befo in UL s ty.Pdo	ore transmission of Security mode command; SS shall set the IndicationStatus in the common ASP part to flag  ep := true);	
Algorithm	IntegrityProtAlgorithm Type		IntegrityProtAlgorithm_Type being defined in RRC ASN.1	
KRRCint	B128 Key Type			
ActTimeList	SecurityActTimeList_Type	opt	omit for initial configuration (i.e. all SRBs to be integrity protected immediately); in HO scenarios activation time may be needed e.g. for SRB1	

#### AS\_CipheringInfo\_Type

TTCN-3 Record Type			
Name	AS_CipheringInfo_Type		
Comment			
Algorithm	CipheringAlgorithm_r12	CipheringAlgorithm_Type being defined in RRC ASN.1	
KRRCenc	B128 Key Type		
KUPenc	B128 Key Type	KUPenc is mandatory; and SS uses it when DRB are configured	
ActTimeList	SecurityActTimeList Type		

#### AS\_SecStartRestart\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	AS_SecStartRestart_Type			
Comment				
Integrity	AS IntegrityInfo Type	opt	optional to allow separated activation of integrity and ciphering; omit: keep as it is	
Ciphering	AS_CipheringInfo_Type	opt	optional to allow separated activation of integrity and ciphering; omit: keep as it is	

#### AS\_Security\_Type

TTCN-3 Union 1	TTCN-3 Union Type			
Name	AS_Security_Type			
Comment	Security mode command procedure (TS 36.331, clause 5.3.4):			
	both SMC and SMComp are integrity protected			
	(nevertheless SS shall be able to cope with unprotected SM reject);			
	ciphering is started just after SMComp (acc. to TS 36.331, clause 5.3.4.3 and 5.3.1.1)			
StartRestart	AS SecStartRestart Type	information to start/restart AS security protection in the PDCP		
Release	Null Type	to release AS security protection in the PDCP		

# D.1.7 Semi\_Persistent\_Scheduling

Semi-persistent scheduling (SPS)

NOTE 1:

configuration of SPS cannot be done completely in advance but needs to be activated by PDCCH signalling => SPS is configured/activated in an own primitive which may be sent to SS during RBs are being configured NOTE 2:

semi-persistent (configured) scheduling is per UE (as well as 'normal' scheduling; see e.g. TS 36.300, clause 11.1)

### ${\bf SpsAssignmentUL\_Type}$

TTCN-3 Record	TTCN-3 Record Type			
Name	SpsAssignmentUL_Type			
Comment	information to assign semi-pe	rsister	nt schedules in UL	
DciInfo	<u>DciUlInfo Type</u>	opt	to apply a grant	
SchedulInterval	SpsConfigurationUL Type	opt	as in TS 36.331, clause 6.3.2 SPS-ConfigUL	
SetNDI_1	Null Type	opt	if present then NDI is set as 1 indicating a retransmission; If	
			absent then NDI is set as 0 indicating a new transmission	

# ${\bf SpsAssignmentDL\_Type}$

TTCN-3 Record	TTCN-3 Record Type			
Name	SpsAssignmentDL_Type			
Comment	information to assign semi-pe	rsister	nt schedules in DL	
Dcilnfo	DciDlInfo Type	opt	to apply a assignment	
SchedulInterval	SpsConfigurationDL Type	opt	as in TS 36.331, clause 6.3.2 SPS-ConfigDL	
SetNDI_1	Null_Type	opt	if present then NDI is set as 1 indicating a retransmission; If	
			absent then NDI is set as 0 indicating a new transmission	

# SpsActivateInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SpsActivateInfo_Type			
Comment	>RadioResourceConfiguration => SS shall 'activate' SPS by with an activation time. If SPS is already configured a deactivates old SPS configura locally activates new SPS cor In DL, in addition to SS SPS a schedule a DL MAC PDU with general it is an error when TT this case).	gured n->MA sendir and ne ation, s afigura assigna n same CN do	at the UE (e.g. RRCConnectionSetup-C_MainConfig) it needs to be activated by L1 signalling ng appropriate assignments/grants to the UE; this shall be done we Activate command is received, at the activation time SS locally sends UE an PDCCH assignment for new SPS assignment and tion.  In the sender of the service of the	
SPS_C_RNTI	C_RNTI SPS C-RNTI as signalled to UE			
UplinkGrant	SpsAssignmentUL Type	opt		
DownlinkAssig nment	SpsAssignmentDL Type	opt		

# SpsPdcchRelease\_Type

TTCN-3 Record	Туре		
Name	SpsPdcchRelease_Type		
Comment	indicated DCI format (0 or 1A)	) at the	shall send an SPS release indicated by PDCCH transmission with e activation time.  are filled as per table 9.2-1A of 36.213
SPS_C_RNTI	C_RNTI		
DCI_Format	PdcchDciFormat_Type		only formats 0 (UL release) and 1A (DL release) are applicable. It is a TTCN error if any other formats are used.

# SpsDeactivateInfo\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	SpsDeactivateInfo_Type			
Comment				
LocalRelease	Null_Type	SPS configuration shall be released at the SS, that means as well that the SS shall not address SPS_C_RNTI anymore from the given TimingInfo onward; NOTE: there is no SPS release to be signalled on PDCCH (this is done with PdcchExplicitRelease - see below)		
PdcchExplicitR	SpsPdcchRelease_Type	SS transmits PDCCH content indicating SPS release but holds		
elease		the local SPS configuration until it is locally released		

# SpsConfig\_Type

TTCN-3 Union	TTCN-3 Union Type			
Name	SpsConfig_Type			
Comment				
Activate	SpsActivateInfo Type	CellId: identifier of the cell where the UE is active RoutingInfo: None TimingInfo: activation time for SPS assignment/grant transmission; NOTE: the first SPS DL data packet shall be sent with the same timing information ControlInfo: CnfFlag:=false; FollowOnFlag:=false		
Deactivate	SpsDeactivateInfo Type	CellId: identifier of the cell where the UE is active RoutingInfo: None TimingInfo: activation time for SPS release indicated by PDCCH transmission or SS local deactivation ControlInfo: CnfFlag:=false; FollowOnFlag:=false		

# D.1.8 Paging\_Trigger

# SubframeOffsetList\_Type

TTCN-3 Record of Type	
Name SubframeOffsetList_Type	
Comment	
record length (1infinity) of integer	

# PagingTrigger\_Type

TTCN-3 Record Type			
Name	PagingTrigger_Type		
Comment	CellId : identifier of the cell where the UE is active		
	RoutingInfo: None		
	TimingInfo : Calculated paging occasion		
	ControlInfo : CnfFlag:=false; FollowOnFlag:=false		
	primitive to trigger transmission of a paging on the PCCH at a calculated paging occasion (TS 36.304,		
	clause 7);		
	the paging occasion is calculated by TTCN and activation time is applied;		
	as for BCCH Infor acc. to TS 36.331, clause 9.1.1.3 "RRC will perform padding, if required due to the		
	granularity of the TF signalling, as defined in 8.5.";		
	therefore this needs to be done by the system simulator		
Paging	PCCH_Message		paging to be send out at paging occasion and being announced on PDCCH using P-RNTI
SubframeOffset	SubframeOffsetList Type	opt	list of subframe offsets relative to the absolute timing information
List			given in the common part of the ASP;
			if present, multiple pagings are sent out at all occasions given by
			the list;
			if omitted only a single paging is sent at the occasion given
			timing information given in the common part of the ASP

# D.1.9 L1\_MAC\_Indication\_Control

Primitive for control of L1/MAC indication for special purposes

#### L1Mac\_IndicationMode\_Type

TTCN-3 Enumerated Type		
Name	L1Mac_IndicationMode_Type	
Comment		
enable		
disable		

# L1Mac\_IndicationControl\_Type

TTCN-3 Record	Type		
Name	L1Mac_IndicationControl_T	уре	
Comment	NOTE: Initially all indications are disa	abled in	n SS (i.e. it shall not be necessary in 'normal' test cases to use this tion is needed); omit means indication mode is not changed
RachPreamble	L1Mac IndicationMode Ty	opt	To enable/disable reporting of PRACH preamble received.
SchedReq	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of reception of Scheduling Request on PUCCH.
BSR	L1Mac_IndicationMode_Ty pe	opt	To enable/disable reporting of Buffer/Extended Buffer Status Report. NOTE: this is applicable only when MAC is configured in normal mode in UL; MAC configured in test mode, results in over writing the report.
UL_HARQ	L1Mac_IndicationMode_Ty pe	opt	To enable/disable reporting of reception of HARQ ACK/NACK.
C_RNTI	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of C-RNTI sent by the UE within MAC PDU
PHR	L1Mac_IndicationMode_Ty pe	opt	To enable/disable reporting of Power Headroom Report.  NOTE: this is applicable only when MAC is configured in normal mode in UL; MAC configured in test mode, results in over writing the report.
HarqError	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of HARQ errors
PeriodicRI	L1Mac IndicationMode Ty	opt	To enable/disable reporting of reception of periodic Rank Indicators
EPHR	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of Extended Power Headroom Report.  NOTE: this is applicable only when MAC is configured in normal mode for UL;  MAC configured in test mode, results in overwriting the report.
PeriodicCQI	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of reception of periodic CQI
SRS	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of start and stop of reception of Type 0 (Configured by Higher Layer) SRS in frames meant for periodic SRS transmission by UE. SS reports an indication every time when SRS reception from UE has toggled in the frames configured for periodic SRS reception i.e. 'No periodic SRS' reception -> 'periodic SRS' reception or 'periodic SRS' reception -> 'No periodic' SRS reception.
DC_PHR	L1Mac IndicationMode Ty	opt	To enable/disable reporting of Dual Connectivity Power Headroom Report.  NOTE: this is applicable only when MAC is configured in normal mode for UL;  MAC configured in test mode, results in overwriting the report.

# D.1.10 Rlc\_Indication\_Control

Primitive for control of RLC indication for special purposes

# Rlc\_IndicationMode\_Type

TTCN-3 Enumerated Type		
Name	RIc_IndicationMode_Type	
Comment		
enable		
disable		

# Rlc\_IndicationControl\_Type

TTCN-3 Record Type			
Name	RIc_IndicationControl_Type		
Comment			
Discard	Rlc IndicationMode Type	opt	To enable/disable reporting of discarded RLC PDUs

# D.1.11 PDCP\_Count

Primitives to enquire PDCP COUNT

# PDCP\_Count: Basic Type Definitions

TTCN-3 Basic Types		
PdcpCountValue_Type	B32 Type	

### PdcpCountFormat\_Type

TTCN-3 Enumerated T	TTCN-3 Enumerated Type		
Name	PdcpCountFormat_Type		
Comment			
PdcpCount_Srb	27 bit HFN; 5 bit SQF		
PdcpCount_DrbLong SQN	20 bit HFN; 12 bit SQF		
PdcpCount_DrbShort SQN	25 bit HFN; 7 bit SQF		

# PdcpCount\_Type

TTCN-3 Record Type		
Name	PdcpCount_Type	
Comment		
Format	PdcpCountFormat_Type	
Value	PdcpCountValue_Type	

# PdcpCountInfo\_Type

TTCN-3 Record Type			
Name	PdcpCountInfo_Type		
Comment			
RadioBearerId	RadioBearerId_Type		
UL	PdcpCount_Type	opt	omit: keep as it is
DL	PdcpCount_Type	opt	omit: keep as it is

# PdcpCountInfoList\_Type

TTCN-3 Record of Type		
Name	PdcpCountInfoList_Type	
Comment		
record length (1tsc MaxRB) of PdcpCountInfo Type		

# PdcpCountGetReq\_Type

TTCN-3 Union Type			
Name	PdcpCountGetReq_Type		
Comment			
AllRBs	Null Type	return COUNT values for all RBs being configured	
SingleRB	RadioBearerId Type		

#### PDCP\_CountReq\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	PDCP_CountReq_Type			
Comment				
Get	PdcpCountGetReq_Type	Request PDCP count for one or all RBs being configured at the PDCP		
Set	PdcpCountInfoList Type	Set PDCP count for one or all RBs being configured at the PDCP; list for RBs which's COUNT shall be manipulated		

# PDCP\_CountCnf\_Type

TTCN-3 Union Type		
Name	PDCP_CountCnf_Type	
Comment		
Get	PdcpCountInfoList Type	RBs in ascending order; SRBs first
Set	Null Type	

# D.1.12 PDCP\_Handover

Primitives to control PDCP regarding handover

#### PDCP\_HandoverInit\_Type

TTCN-3 Record	Туре
Name	PDCP_HandoverInit_Type
Comment	
SourceCellId	EUTRA_Cellid_Type

#### PDCP\_HandoverControlReq\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	PDCP_HandoverControlReq_Type		
Comment			
HandoverInit	PDCP HandoverInit Type	to inform SS that a handover will follow: in the common ASP part the CellId shall be set to the id of the target cell	
HandoverComp lete	Null Type	to inform SS that the handover has successfully been performed by the UE; this shall trigger the SS to sent a PDCP Status Report to the UE; in the common ASP part the CellId shall be set to the id of the target cell	

# D.1.13 L1\_MAC\_Test\_Mode

Primitive for control of L1/MAC Test Modes

#### L1\_TestMode\_Type

TTCN-3 Record Type			
Name	L1_TestMode_Type		
Comment	L1 test mode; in general RACH is handled separately		
DL_SCH_CRC	DL_SCH_CRC_Type Manipulation of CRC bit generation for DL-SCH		
Phich	PhichTestMode_Type		HARQ feedback mode on the PHICH

#### DL\_SCH\_CRC\_Type

TTCN-3 Union	TTCN-3 Union Type	
Name	DL_SCH_CRC_Type	
Comment	NOTE:	
	CRC error mode for RA_RNTI is no	t addressed as it will be configured in RACHProcedureConfig
C_RNTI	MAC Test DL SCH CRC Mode	to configure mode for CRC bit for all MAC PDU's for which C-
	_Type	RNTI is used in PDCCH transmission
SI_RNTI	MAC_Test_DL_SCH_CRC_Mode	to configure mode for CRC bit for all MAC PDU's for which SI-
	_Type	RNTI is used in PDCCH transmission
SPS_RNTI	MAC Test DL SCH CRC Mode	to configure mode for CRC bit for all MAC PDU's for which SPS-
	<u>Type</u>	RNTI is used in PDCCH transmission

# D.1.14 PDCCH\_Order

Primitive to trigger SS to send PDCCH order to initiate RA procedure (TS 36.321, clause 5.1.1)

#### PDCCH\_Order: Basic Type Definitions

TTCN-3 Basic Types		
PrachPreambleIndex_Typ	Ra PreambleIndex Type	
е		
PrachMaskIndex_Type	integer (015)	TS 36.321, clause 7.3

#### RA\_PDCCH\_Order\_Type

TTCN-3 Record Type			
Name	RA_PDCCH_Order_Type		
Comment	see also TS 36.212, clause 5.3.3.1.3		
PreambleIndex	PrachPreambleIndex_Type		naming acc. TS 36.212, clause 5.3.3.1.3
PrachMaskInde	PrachMaskIndex_Type		naming acc. TS 36.212, clause 5.3.3.1.3
Х			

# D.1.15 System\_Indications

Primitives for System indications

# System\_Indications: Basic Type Definitions

TTCN-3 Basic Types		
PRTPower_Type	<u>Dummy Type</u>	needs to define appropriately the power level report of PREAMBLE_RECEIVED_TARGET_POWER; NOTE: for the time being this is just a place holder for enhancements in the future.
LogicalChannelGroup_Ty	integer (03)	
pe		
BSR_Value_Type	integer (063)	
PHR_Type	integer (063)	
RI_Type	integer (14)	Rank indicator reported acc. to TS 36.212 Table 5.2.2.6-6

#### HarqProcessInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	HarqProcessInfo_Type		
Comment			
Id	HarqProcessId_Type		
CURRENT_TX _NB	integer	acc. to TS 36.321 clause 5.4.2.2	

# HarqError\_Type

TTCN-3 Union 1	Гуре	
Name	HarqError_Type	
Comment		
UL	HarqProcessInfo Type	indicates HARQ error detected at the SS side (error at UL transmission)
DL	HarqProcessInfo Type	indicates HARQ NACK sent by the UE (error at DL transmission)

# RachPreamble\_Type

TTCN-3 Record Type		
Name	RachPreamble_Type	
Comment		
RAPID	PrachPreambleIndex Type	indicates the RAPID of the preamble used (integer (063))
PRTPower	PRTPower Type	represents the PREAMBLE_RECEIVED_TARGET_POWER

# Short\_BSR\_Type

TTCN-3 Record Type			
Name	Short_BSR_Type	Short_BSR_Type	
Comment			
LCG	LogicalChannelGroup Type	Logical channel Group	
Value	BSR Value Type	BSR or Extended BSR value	

# Long\_BSR\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	Long_BSR_Type		
Comment			
Value_LCG1	BSR Value Type	BSR or Extended BSR value for LCG 1	
Value_LCG2	BSR Value Type	BSR or Extended BSR value for LCG 2	
Value_LCG3	BSR Value Type	BSR or Extended BSR value for LCG 3	
Value_LCG4	BSR Value Type	BSR or Extended BSR value for LCG 4	

# BSR\_Type

TTCN-3 Union Type		
Name	BSR_Type	
Comment		
Short	Short BSR Type	
Truncated	Short BSR Type	
Long	Long BSR Type	

# HARQ\_Type

TTCN-3 Enumerated Type		
Name	HARQ_Type	
Comment	ack represents HARQ ACK; nack represents HARQ_NACK	
ack		
nack		

# RIcDiscardInd\_Type

TTCN-3 Record Type			
Name	RlcDiscardInd_Type		
Comment	SS shall send this indication if it discards a received RLC AMD PDU as specified in TS 36.322 cl. 5.1.3.2.2.		
SequenceNum ber	integer	sequence number of the PDU being discarded	

# SRSInd\_Type

TTCN-3 Enumerated Type		
Name	SRSInd_Type	
Comment		
SRS_Start	SS was not receiving SRS in the frames configured for periodic SRS, and SS has started reception of higher layer configured SRS in frame meant for periodic SRS transmission	
SRS_Stop	SS was receiving SRS in the frames configured for periodic SRS, and SS has stopped reception of higher layer configured SRS in frame meant for periodic SRS transmission	

# D.1.16 System\_Interface

# SYSTEM\_CTRL\_REQ

TTCN-3 Reco	rd Type	
Name	SYSTEM_CTRL_REQ	
Comment		
Common	RegAspCommonPart Type	TimingInfo depends on respective primitive:
Request	SystemRequest Type  SystemRequest Type	Iminginfo depends on respective primitive:  - Cell Timinglnfo: 'now' (in general) - CellAttenuationList Timinglnfo: 'now' (in general, but activation time may be used also) - RadioBearerList Timinglnfo: 'now' in general;     activation time may be used in special case for release and/or reconfiguration of one or several RBs;     the following rules shall be considered:         - release/Reconfiguration of an RB shall not be scheduled ealier than 5ms after a previous data transmission on this RB         - subsequent release and reconfiguration(s) shall be scheduled with an interval of at least 5ms         - a subsequent data transmission on an RB shall not be scheduled ealier than 5ms after the last reconfiguration of the RB the configuration shall be performed exactly at the given time - EnquireTiming TimingInfo: 'now' - AS_Security TimingInfo: 'now'; NOTE: "activation time" may be specified in the primitive based on PDCP SQN - Sps TimingInfo: activation time for SPS assignment transmission - Paging TimingInfo: Calculated paging occasion - L1MacIndCtrl TimingInfo: 'now' (in general) - PdcpCount TimingInfo: 'now' (in general) activation time may be used in case of CA inter cell handover to set the PdcpCount - L1_TestMode TimingInfo: depends on the test mode; activation time is used e.g. for manipulation of the CRC - PdcchOrder TimingInfo: 'now' (in general)

# SYSTEM\_CTRL\_CNF

TTCN-3 Record Type		
Name	SYSTEM_CTRL_CNF	
Comment		
Common	CnfAspCommonPart_Type	TimingInfo is ignored by TTCN (apart from EnquireTiming) => SS may set TimingInfo to "None"
Confirm	SystemConfirm Type	

#### ${\bf SYSTEM\_IND}$

TTCN-3 Record Type			
Name	SYSTEM_IND		
Comment			
Common	IndAspCommonPart Type	The SS shall provide TimingInfo (SFN + subframe number) depending on the respective indication:	
Indication	SystemIndication_Type	- Error/HarqError TimingInfo: related to the error (if available) - RachPreamble TimingInfo: shall indicate start of the RACH preamble - SchedReq TimingInfo: subframe containing the SR - BSR TimingInfo: subframe in which the MAC PDU contains the BSR - UL_HARQ TimingInfo: subframe containing the UL HARQ - C_RNTI TimingInfo: subframe in which the MAC PDU contains the C_RNTI - PHR TimingInfo: subframe in which the MAC PDU contains the PHR	

# EUTRA\_SYSTEM\_PORT

TTCN-3 Port Type		
Name	EUTRA_SYSTEM_PORT	
Comment	EUTRA PTC: Port for system configuration	
out	SYSTEM CTRL REQ	
in	SYSTEM CTRL CNF	

#### **EUTRA\_SYSIND\_PORT**

TTCN-3 Port Type		
Name	EUTRA_SYSIND_PORT	
Comment	EUTRA PTC: Port for system indications	
in	SYSTEM_IND	

# D.1.17 MBMS\_Configuration

# **EUTRA\_ASP\_TypeDefs: Constant Definitions**

TTCN-3 Basic Types			
tsc_MaxMRB	integer	32	maximum MRB used in test cases - Value arbitrarily set to 32 (5bits) Theorically the maximum value is maxPMCH-PerMBSFN * maxSessionPerPMCH i.e. 15*29

# MBMS\_Config\_Type

TTCN-3 Record Type			
Name	MBMS_Config_Type		
Comment	all fields are optional to allow single modifications; activation time is applied in the common part of the ASP		
Mbsfn_Subfra meConfigList	MBSFN_SubframeConfigLi   opt   Configure subframes reserved for MBSFN   st		
MbsfnAreaList	MbsfnAreaList_Type	opt	Configure all MBSFN areas

# MbsfnAreaList\_Type

TTCN-3 Record of Type				
Name	MbsfnAreaList_Type			
Comment				
record length(1maxMBSFN_Area) of MbsfnArea Type				

# MbsfnArea\_Type

TTCN-3 Record Type				
Name	MbsfnArea_Type			
Comment				
Mbsfn_AreaInf o	MBSFN_AreaInfo_r9	opt	Configure MCCH scheduling acc. to TS 36. 331 cl 9.1.1.4 there is no PDCP and MCCH use the RLC-UM mode configuration/scheduling and contents of the MCCH Information is done in one go (i.e. there are no separate ports for MCCH data and configuration)	
McchData	MCCH_Data_Type	opt	MCCH information to be broadcasted	
MbsfnAreaConf iguration	MBSFNAreaConfiguration_r	opt	Configuration parameters for CommonCSA/PMCH/MTCH	
MRB_List	MRB List Type	opt	Configure/release MTCH MRBs	

# MCCH\_Data\_Type

TTCN-3 Record Type				
Name	MCCH_Data_Type			
Comment				
Mbsfn_Areald	MBSFN_Areald_r12	opt	Used only for modification of MCCH info. Omitted if Mbsfn_AreaInfo is present and mandatory present otherwise	
MsgList	MCCH_MessageList_Type			

# MCCH\_MessageList\_Type

TTCN-3 Record of Type				
Name	MCCH_MessageList_Type			
Comment	Includes mbsfnAreaConfiguration-r9 and optionally mbmsCountingRequest-r10.			
record length(12) of MCCH_Message				

# MRB\_List\_Type

TTCN-3 Record of Type			
Name	MRB_List_Type		
Comment			
record length(1 tsc MaxMRB) of MRB Type			

# MRB\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	MRB_Type			
Comment				
PmchLogicalCh annel	PmchLogicalChannel Type			
Config	MTCH_Config_Type	opt	present for MRB_COMMON_REQ for MTCH data scheduling; not present for SystemRequest_Type MSI_Conf	

# MSI\_Config\_Type

TTCN-3 Union T	ype	
Name	MSI_Config_Type	
Comment		
None	MTQHTConfigInfo Type	Add/Mc319110000000000000000000000000000000000
Auto	MSI MCE Type	Cs ଓ duidentifically ithousels being ହେ ବିଷୟ ଓ ମଧ୍ୟ ଓ ଆଧାରଣ ନିର୍ଦ୍ଧ । Randical de on Reguer of the Medical service of the ser
MSI_Type		ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)
wisi_i ype		
TTCN-3 Record		
Name		
Comment		
LchID		
StopMTCH		
MSI_MCE_Ty		
pe		
Name Comment record of MSI		
MTCH_Confi		
g_Type		
g_rype		
TTCN-3 Union		
Name		
Comment		
AddOrReconfig		
ure	N. H. T.	I DD
Release	Null Type	release RB - CellId : identifier of the cell being configured RoutingInfo : none TimingInfo : 'Now' in common cases ControlInfo : CnfFlag:=true; FollowOnFlag:=false (in general)

# MTCH\_ConfigInfo\_Type

TTCN-3 Record Type			
Name	MTCH_ConfigInfo_Type		
Comment	Acc. to TS 36. 331 cl 9.1.1.4 t	there is	s no PDCP and MTCH use the RLC-UM mode
Rlc	RLC_Configuration_Type	opt	Mandatory for initial configuration; omit means "keep as it is"
			Note RLC DL only UM mode with SN 5 bits is only valid
Mac	MAC MCH TestModeConfi	opt	
	<u>g_Type</u>		

# MAC\_MCH\_TestModeConfig\_Type

TTCN-3 Union	n Type	
Name	MAC_MCH_TestMod	deConfig_Type
Comment		
None	Null_Type	MAC operation in normal mode for MCH
Config	Null_Type	MAC is configured in no header manipulation in DL [MTCH is DL only channel]

# PDCCH\_MCCH\_ChangeNotification\_Type

TTCN-3 Record Type				
Name	PDCCH_MCCH_ChangeNotification_Type			
Comment				
NotificationIndi	NotificationIndicator r9 Typ			
cator_r9	<u>e</u>			
SubframeOffset List	SubframeOffsetList_Type	opt	list of subframe offsets relative to the absolute timing information given in the common part of the ASP; if present, multiple MCCH Change Notifications are sent out at all occasions given by the list; if omitted only a single MCCH Change Notifications is sent at the occasion given timing information given in	
			the common part of the ASP	

# PmchConfig\_Type

TTCN-3 Record Type			
Name	PmchConfig_Type		
Comment			
RelativeTxPow er	ToRS EPRE Ratios Type	opt	power ratio for MBSFN-RS and PMCH's resource elements relative to the CRS

# D.2 EUTRA\_ASP\_DrbDefs

ASP interface for DRBs

# D.2.1 PDU\_TypeDefs

# D.2.1.1 MAC\_PDU

#### MAC\_PDU: Basic Type Definitions

TTCN-3 Basic Types		
MAC_CTRL_C_RNTI_Typ	C_RNTI	TS 36.321, clause 6.1.3.2
е		
MAC_CTRL_ContentionR esolutionId_Type	ContentionResolutionId_Type	TS 36.321, clause 6.1.3.4 fix 48-bit size; consists of a single field defined UE Contention Resolution Identity (uplink CCCH SDU transmitted by MAC)
MAC_CTRL_TimingAdvan ce_Type	B8_Type	TS 36.321, clause 6.1.3.5 indicates the amount of timing adjustment in 0.5 ms that the UE has to apply; the length of the field is [8] bits
MAC_SDU_Type	octetstring	

# MAC\_PDU\_Length\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	MAC_PDU_Length_Type	MAC_PDU_Length_Type		
Comment	NOTE: since F and L field are either both present or both omitted they are put into this record; to allow homogeneous (direct) encoding the PDU length is not defined as union; TTCN-3 does allow length restrictions to one length or a range of length but not to two specific lengthes; further restriction may be achieved by appropriate templates (parameter either 7 or 15 bit)			
Format	B1 Type	F: The Format field indicates the size of the Length field as indicated in table 6.2.1-3. There is one F field per MAC PDU subheader except for the last subheader and sub-headers corresponding to fixed-sized MAC control elements. The size of the F field is 1 bit. If the size of the MAC SDU or MAC control element is less than 128 bytes, the UE shall set the value of the F field to 0, otherwise the UE shall set it to 1		
Value	B7 15 Type	L: The Length field indicates the length of the corresponding MAC SDU or MAC control element in bytes. There is one L field per MAC PDU subheader except for the last subheader and sub-headers corresponding to fixed-sized MAC control elements. The size of the L field is indicated by the F field		

# MAC\_PDU\_SubHeader\_Type

TTCN-3 Reco	TTCN-3 Record Type			
Name	MAC_PDU_SubHeader_Ty	ре		
Comment				
Reserved	B2_Type		Reserved bits	
Extension	B1_Type		E: The Extension field is a flag indicating if more fields are present in the MAC header or not. The E field is set to "1" to indicate another set of at least R/R/E/LCID fields. The E field is set to "0" to indicate that either a MAC SDU, a MAC control element or padding starts at the next byte	
LCID	B5 Type		LCID: The Logical Channel ID field identifies the logical channel instance of the corresponding MAC SDU or the type of the corresponding MAC control element or padding as described in tables 6.2.1-1 and 6.2.1-2 for the DL and UL-SCH respectively. There is one LCID field for each MAC SDU, MAC control element or padding included in the MAC PDU. The LCID field size is 5 bits; NOTE: In case of DRX command the sub-header corresponds to a control element of length zero (i.e. there is no control element)	
Length	MAC_PDU_Length_Type	opt	a common control control control control control control	

# MAC\_Header\_Type

TTCN-3 Record of Type		
Name	MAC_Header_Type	
Comment		
record of MAC_PDU_SubHeader_Type		

# ${\bf MAC\_CTRL\_ShortBSR\_Type}$

TTCN-3 Record Type		
Name	MAC_CTRL_ShortBSR_Type	
Comment	TS 36.321, clause 6.1.3.1	
LCG	B2 Type	
Value	B6 Type	

# MAC\_CTRL\_LongBSR\_Type

TTCN-3 Record Type		
Name	MAC_CTRL_LongBSR_Type	
Comment	TS 36.321, clause 6.1.3.1	
Value_LCG1	B6 Type	
Value_LCG2	B6 Type	
Value_LCG3	B6 Type	
Value_LCG4	B6 Type	

#### MAC\_CTRL\_PowerHeadRoom\_Type

TTCN-3 Record Type		
Name	MAC_CTRL_PowerHeadRoom_Type	
Comment	TS 36.321, clause 6.1.3.6	
Reserved	B2 Type	
Value	B6 Type	

# MAC\_CTRL\_ElementList\_Type

TTCN-3 Set Type	TTCN-3 Set Type			
Name	MAC_CTRL_ElementList_Type			
Comment	NOTE 1: for simplicication UL and DL are not distiguished even though the control elements are either UL or DL NOTE 2:			
	type is defined as set: the ord			
	nevertheless the ordering is w for codec implementations it is to encode/decode the payload	s in an	ny case necessary to evaluate the sub-header information in order	
ShortBSR	MAC_CTRL_ShortBSR_Ty pe	opt	UL only	
LongBSR	MAC CTRL LongBSR Typ	opt	UL only	
C_RNTI	MAC CTRL C RNTI Type	opt	UL only	
ContentionRes olutionID	MAC CTRL ContentionRe solutionId Type	opt	DL only	
TimingAdvance	MAC_CTRL_TimingAdvanc e_Type	opt	DL only	
PowerHeadRo om	MAC CTRL PowerHeadRo om_Type	opt	UL only	
ScellActDeact	MAC_CTRL_ScellActDeact Type	opt	DL only	
ExtPowerHead Room	MAC CTRL ExtPowerHea dRoom_Type	opt	UL only. Only one among PowerHeadroom, ExtPowerHeadroom and DC_PowerHeadRoom may be present	
DC_PowerHea dRoom	MAC_CTRL_DC_PowerHe adRoom_Type	opt	UL only. Only one among PowerHeadroom, ExtPowerHeadroom and DC_PowerHeadRoom may be present	

# MAC\_SDUList\_Type

TTCN-3 Record of Type			
Name	MAC_SDUList_Type		
Comment			
record of MAC SDU Type			

# MAC\_PDU\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	MAC_PDU_Type		
Comment			
Header	MAC Header Type		list of MAC PDU SubHeaders corresponding to MAC control elements and MAC SDUs
CtrlElementList	MAC CTRL ElementList T ype	opt	Mac control elements; acc. to TS 36.321, clause 6.1.2 "MAC control elements, are always placed before any MAC SDU."
SduList	MAC SDUList Type	opt	MAC SDUs, which can typically be RLC PDUs
Padding	octetstring	opt	Octet aligned Padding if more than or equal to 2 bytes

#### MAC\_PDUList\_Type

TTCN-3 Record of Type			
Name	MAC_PDUList_Type		
Comment			
record of MAC_PDU_Type			

# D.2.1.2 RLC\_PDU

#### D.2.1.2.1 Common

RLC PDU definition: common AM/UM field definitions

# **Common: Basic Type Definitions**

TTCN-3 Basic Types		
RLC_FramingInfo_Type	B2_Type	First byte of the Data field corresponds to the first byte of a RLC SDU. Last byte of the Data field corresponds to the last byte of a RLC SDU. 01 - First byte of the Data field corresponds to the first byte of a RLC SDU. Last byte of the Data field does not correspond to the last byte of a RLC SDU. 10 - First byte of the Data field does not correspond to the first byte of a RLC SDU. 11 - First byte of the Data field corresponds to the last byte of a RLC SDU. 11 - First byte of the Data field does not correspond to the first byte of a RLC SDU. 11 - First byte of the Data field does not correspond to the first byte of a RLC SDU. Last byte of the Data field does not correspond to the last byte of a RLC SDU.

# RLC\_LengthIndicator\_LI11\_Type

TTCN-3 Record Type		
Name	RLC_LengthIndicator_LI11_	Туре
Comment		
Extension	B1 Type	0 - Data field follows from the octet following the LI field following this E field 1 - A set of E field and LI field follows from the bit following the LI field following this E field
LengthIndicator	B11 Type	Length Indicator

# RLC\_LengthIndicator\_LI15\_Type

TTCN-3 Record	Туре	
Name	RLC_LengthIndicator_LI15_Type	
Comment		
Extension	B1 Type	0 - Data field follows from the octet following the LI field following this E field 1 - A set of E field and LI field follows from the bit following the LI field following this E field
LengthIndicator	B15 Type	15 bit Length Indicator

# RLC\_LI11\_List\_Type

TTCN-3 Record of Type		
Name RLC_LI11_List_Type		
Comment		
record of RLC_LengthIndicator_LI11_Type		

# RLC\_LI15\_List\_Type

TTCN-3 Record of Type		
Name	RLC_LI15_List_Type	
Comment		
record of RLC LengthIndicator LI15 Type		

# RLC\_LI\_List\_Type

TTCN-3 Union Type		
Name	RLC_LI_List_Type	
Comment		
LI11	RLC LI11 List Type	
LI15	RLC LI15 List Type	

#### RLC\_PDU\_Header\_FlexPart\_Type

TTCN-3 Record Type			
Name	RLC_PDU_Header_FlexPart_Type		
Comment	Flexible part of the header with a number of K LIs		
LengthIndicator	RLC LI List Type		List of E, LI fields
Padding	B4_Type	opt	optional 4 bit padding present in case of odd number of LI's

# D.2.1.2.2 TM\_Data

RLC PDU definition: UM (TS 36.322, clause 6.2.1.2)

# TM\_Data: Basic Type Definitions

TTCN-3 Basic Types		
RLC_TMD_PDU_Type	octetstring	TS 36.322, clause 6.2.1.2

# D.2.1.2.3 UM\_Data

RLC PDU definition: UM (TS 36.322, clause 6.2.1.3)

NOTE:

To allow direct encoding the definition for RLC UM Data PDU is split into data PDU with 5/10 bit sequence number

#### **UM\_Data: Basic Type Definitions**

TTCN-3 Basic Types		
RLC_DataField_Type	octetstring	restrictions imposed from LI size of 11 bits is
	-	not applicable when the LI's are not present

#### RLC\_UMD\_Header\_FixPartShortSN\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_UMD_Header_FixPartS	RLC_UMD_Header_FixPartShortSN_Type	
Comment	TS 36.322, clause 6.2.1.3 Figure 6.2.1.3-1, 6.2.1.3-3 and 6.2.1.3-4);		
	one octet		
FramingInfo	RLC_FramingInfo_Type	2 bits FI	
Extension	B1_Type	1 bit E	
SequenceNum	B5_Type	5 bits SN	
ber			

#### RLC\_UMD\_Header\_FixPartLongSN\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_UMD_Header_FixPartLo	ngSN_Type		
Comment	TS 36.322, clause 6.2.1.3 Figur two octets	e 6.2.1.3-2, 6.2.1.3-5 and 6.2.1.3-6);		
Reserved	B3 Type	3 bits reserved		
FramingInfo	RLC FramingInfo Type	2 bits FI		
Extension	B1_Type	1 bit E		
SequenceNum ber	B10 Type	10 bits SN		

#### RLC\_UMD\_HeaderShortSN\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_UMD_HeaderShortSN_	_Type	
Comment			
FixPart	RLC_UMD_Header_FixPart		
	ShortSN Type		
FlexPart	RLC PDU Header FlexPa	opt	
	rt_Type		

# RLC\_UMD\_HeaderLongSN\_Type

TTCN-3 Recor	TTCN-3 Record Type		
Name	RLC_UMD_HeaderLongSN_	Туре	
Comment			
FixPart	RLC UMD Header FixPart LongSN Type		
FlexPart	RLC_PDU_Header_FlexPa rt_Type	opt	

# RLC\_DataFieldList\_Type

TTCN-3 Record of Type		
Name	RLC_DataFieldList_Type	
Comment One to one correspondence with sub headers (LengthIndicatorList_Type)		
record of RLC DataField Type		

# $RLC\_UMD\_PDU\_ShortSN\_Type$

TTCN-3 Record Type		
Name	RLC_UMD_PDU_ShortSN_Type	
Comment		
Header	RLC_UMD_HeaderShortSN Type	
Data	RLC DataFieldList Type	

#### RLC\_UMD\_PDU\_LongSN\_Type

TTCN-3 Record Type		
Name	RLC_UMD_PDU_LongSN_Type	
Comment		
Header	RLC UMD HeaderLongSN Type	
Data	RLC_DataFieldList_Type	

#### RLC\_UMD\_PDU\_Type

TTCN-3 Union Type		
Name	RLC_UMD_PDU_Type	
Comment		
ShortSN	RLC UMD PDU ShortSN Type	
LongSN	RLC_UMD_PDU_LongSN_Type	

# D.2.1.2.4 AM\_Data

RLC PDU definition: AM (TS 36.322, clause 6.2.1.4 and 6.2.1.5)

# RLC\_AMD\_Header\_FixPart\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLC_AMD_Header_FixPart	RLC_AMD_Header_FixPart_Type	
Comment	TS 36.322, clause 6.2.1.4 Figure 6.2.1.4-1, 6.2.1.4-2 and 6.2.1.4-3); 2 or 4 octets		
D_C	B1 Type 0 - Control PDU 1 - Data PDU		
ReSeg	B1 Type		0 - AMD PDU 1 - AMD PDU segment
Poll	B1 Type		0 - Status report not requested 1 - Status report is requested
FramingInfo	RLC_FramingInfo_Type		2 bit FI
Extension	B1 Type		1 bit E
SN	B10 Type		Sequence numbers

# RLC\_AMD\_Header\_SegmentPart\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_AMD_Header_SegmentPart_Type			
Comment	AMD PDU segment related in	AMD PDU segment related info in PDU header acc. TS 36.322, clause 6.2.1.5		
LastSegmentFl ag	B1 Type	O - Last byte of the AMD PDU segment does not correspond to the last byte of an AMD PDU     1 - Last byte of the AMD PDU segment corresponds to the last byte of an AMD PDU		
SegOffset	B15 Type	The SO field indicates the position of the AMD PDU segment in bytes within the original AMD PDU.  Specifically, the SO field indicates the position within the Data field of the original AMD PDU to which the first byte of the Data field of the AMD PDU segment corresponds to.		

# RLC\_AMD\_Header\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RLC_AMD_Header_Type			
Comment				
FixPart	RLC AMD Header FixPart			
	_Type			
SegmentPart	RLC AMD Header Segme	opt	present in case of AMD Seg PDU only	
	ntPart Type			
FlexPart	RLC_PDU_Header_FlexPa	opt		
	rt Type	-		

#### RLC\_AMD\_PDU\_Type

TTCN-3 Record Type		
Name	RLC_AMD_PDU_Type	
Comment		
Header	RLC AMD Header Type	
Data	RLC DataFieldList Type	

# D.2.1.2.5 AM\_Status

AM Status PDU (TS 36.322, clause 6.2.1.6)

# **AM\_Status: Basic Type Definitions**

TTCN-3 Basic Types		
RLC_Status_Padding_Ty	bitstring length (17)	NOTE:
pe		in TTCN-3 length restriction cannot be done
		inline in record definition
		=> explicit type definition necessary

# RLC\_Status\_ACK\_Type

TTCN-3 Record Type			
Name	RLC_Status_ACK_Type		
Comment			
ACK_SN	B10 Type	Acknowledgement SN (TS 36.322, clause 6.2.2.14)	
Extn1	B1 Type	0 - a set of NACK_SN, E1 and E2 does not follow.	
		1 - a set of NACK_SN, E1 and E2 follows.	

# RLC\_Status\_SegOffset\_Type

TTCN-3 Recor	TTCN-3 Record Type		
Name	RLC_Status_SegOffset_Type	e	
Comment			
Start	B15 Type	SOstart field indicates the position of the first byte of the portion of the AMD PDU in bytes within the Data field of the AMD PDU	
End	B15 Type	SOend field indicates the position of the last byte of the portion of the AMD PDU in bytes within the Data field of the AMD PDU. The special SOend value '111111111111111111111111111111111111	

# RLC\_Status\_NACK\_Type

TTCN-3 Record Type			
Name	RLC_Status_NACK_Type		
Comment			
NACK_SN	B10_Type		
Extn1	B1_Type		0 - A set of NACK_SN, E1 and E2 does not follow.
			1 - A set of NACK_SN, E1 and E2 follows.
Extn2	B1 Type		0 - A set of SOstart and SOend does not follow for this
			NACK_SN.
			1 - A set of SOstart and SOend follows for this NACK_SN.
SO	RLC Status SegOffset Ty	opt	
	pe		

# RLC\_Status\_NACK\_List\_Type

TTCN-3 Record of Type		
Name	RLC_Status_NACK_List_Type	
Comment		
record of RLC Status NACK Type		

## **RLC\_AM\_StatusPDU\_Type**

TTCN-3 Record Type			
Name	RLC_AM_StatusPDU_Type		
Comment			
D_C	B1 Type		0 - Control PDU
			1 - Data PDU
Туре	B3_Type		000 - STATUS PDU
			001111 - Reserved (=> PDU to be discarded by the receiving
			entity for this release of the protocol)
Ack	RLC Status ACK Type		ACK_SN and E1 bit
NackList	RLC Status NACK List T	opt	presence depends on Extn1 bit of Ack filed
	<u>ype</u>		(RLC_Status_ACK_Type)
Padding	RLC Status Padding Type	opt	17 bit padding if needed for octet alignment

#### **RLC\_PDU: Basic Type Definitions**

TTCN-3 Basic Types					
RLC_SDU_Type	octetstring				

#### RLC\_PDU\_Type

TTCN-3 Union Type		
Name	RLC_PDU_Type	
Comment		
TMD	RLC_TMD_PDU_Type	
UMD	RLC_UMD_PDU_Type	
AMD	RLC_AMD_PDU_Type	
Status	RLC_AM_StatusPDU_Type	

## RLC\_PDUList\_Type

TTCN-3 Record of Type			
Name	RLC_PDUList_Type		
Comment			
record of RLC_PDU_Type			

#### RLC\_SDUList\_Type

TTCN-3 Record of Type			
Name RLC_SDUList_Type			
Comment			
record of RLC SDU Type			

# D.2.1.3 PDCP

PDCP user plane SDU and PDU definitions

NOTE:

To allow direct encoding the definition for PDCP Data PDU is split into data PDU with long/short sequence number

## **PDCP: Basic Type Definitions**

TTCN-3 Basic Types		
PDCP_SDU_Type	octetstring	

## PDCP\_SDUList\_Type

TTCN-3 Record of Type		
Name PDCP_SDUList_Type		
Comment		
record of PDCP_SDU_Type		

# PDCP\_DataPdu\_LongSN\_Type

TTCN-3 Record Type		
Name	PDCP_DataPdu_LongSN_Type	
Comment	User plane PDCP Data PDU v	vith long sequence number (TS 36.323, clause 6.2.3)
D_C	B1 Type	0 - Control PDU
		1 - Data PDU
Reserved	B3 Type	
SequenceNum	B12_Type	12 bit sequence number
ber		
SDU	PDCP SDU Type	content (octetstring)

## PDCP\_DataPdu\_ShortSN\_Type

TTCN-3 Record Type			
Name	PDCP_DataPdu_ShortSN_Type		
Comment	User plane PDCP Data PDU with short sequence number (TS 36.323, clause 6.2.4)		
D_C	B1_Type	0 - Control PDU	
		1 - Data PDU	
SequenceNum ber	B7 Type	7 bit sequence number	
SDU	PDCP_SDU_Type	content (octetstring)	

# PDCP\_DataPdu\_ExtSN\_Type

TTCN-3 Record Type			
Name	PDCP_DataPdu_ExtSN_Type		
Comment	User plane PDCP Data PDU with extended sequence number (TS 36.323, clause 6.2.9)		
D_C	B1_Type		0 - Control PDU
			1 - Data PDU
SequenceNum ber	B15 Type		15 bit sequence number
SDU	DDCD CDLL Type		content (cotototring)
300	PDCP_SDU_Type		content (octetstring)

# PDCP\_DataPdu\_SLRB\_Type

TTCN-3 Record Type			
Name	PDCP_DataPdu_SLRB_Type		
Comment	User plane PDCP Data PDU for	or SLRB (TS 36.323, clause 6.2.10)	
SDU_Type	B3 Type	000 - IP	
		001 - ARP	
		010 - 111 reserved	
PGK_Index	B5 Type	5 LSBs of PGK Identity (TS 33.303, clause 6.2.3)	
PTK_Identity	B16 Type	PTK Identity (TS 33.303, clause 6.2.3)	
SequenceNum	B16 Type	16 bit sequence number	
ber			
SDU	PDCP SDU Type	content (octetstring)	

## PDCP\_Ctrl\_ROHC\_FB\_PDU\_Type

TTCN-3 Record Type			
Name	PDCP_Ctrl_ROHC_FB_PDU_Type		
Comment	PDCP Control PDU for interspersed ROHC feedback packet (TS 36.323, clause 6.2.5)		
D_C	B1 Type		0 - Control PDU
			1 - Data PDU
Туре	B3_Type		000 - PDCP status report
			001 - Header Compression Feedback Information
			010111 - reserved
Reserved	B4_Type		
ROHC_FB	octetstring		Contains one ROHC packet with only feedback, i.e. a ROHC
			packet that is not associated with a PDCP

# PDCP\_Ctrl\_StatusReport\_Type

TTCN-3 Reco	TTCN-3 Record Type		
Name	PDCP_Ctrl_StatusRe	port_Type	
Comment	PDCP Control PDU fo	r PDCP statu	s report (TS 36.323, clause 6.2.6)
D_C	B1_Type		0 - Control PDU
			1 - Data PDU
Type	B3 Type		000 - PDCP status report
			001 - Header Compression Feedback Information
			010111 - reserved
FMS	B12 Type		PDCP SN of the first missing PDCP SDU.
Bitmap	octetstring	opt	The MSB of the first octet of the type "Bitmap" indicates whether or not the PDCP SDU with the SN (FMS + 1) modulo 4096 has been received and, optionally decompressed correctly.  0 - PDCP SDU with PDCP SN = (FMS + bit position) modulo 4096 is
			missing in the receiver.  The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1.  1 - PDCP SDU with PDCP SN = (FMS + bit position) modulo 4096 does not need to be retransmitted.  The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1.

## PDCP\_Ctrl\_StatusReportExt\_Type

TTCN-3 Reco	rd Type		
Name	PDCP_Ctrl_StatusReportE	xt_Typ	ne e
Comment	PDCP Control PDU for PDC	P statu	s report using a 15 bit SN (TS 36.323, clause 6.2.6)
D_C	B1 Type		0 - Control PDU 1 - Data PDU
Туре	B3_Type		000 - PDCP status report 001 - Header Compression Feedback Information 010111 - reserved
Reserved	B5_Type		5 reserved bits
FMS_Ext	B15 Type		PDCP SN of the first missing PDCP SDU.
Bitmap	octetstring	opt	The MSB of the first octet of the type "Bitmap" indicates whether or not the PDCP SDU with the SN (FMS + 1) modulo (Maximum_PDCP_SN + 1) has been received and, optionally decompressed correctly.  0 - PDCP SDU with PDCP SN = (FMS + bit position) modulo (Maximum_PDCP_SN + 1) is missing in the receiver.  The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1.  1 - PDCP SDU with PDCP SN = (FMS + bit position) modulo (Maximum_PDCP_SN + 1) does not need to be retransmitted.  The bit position of Nth bit in the Bitmap is N, i.e. the bit position of the first bit in the Bitmap is 1.

#### PDCP\_PDU\_Type

TTCN-3 Union T	уре	
Name	PDCP_PDU_Type	
Comment		
DataLongSN	PDCP_DataPdu_LongSN_Type	user plane PDCP data PDU with 12 Bit Seq Number
DataShortSN	PDCP_DataPdu_ShortSN_Type	user plane PDCP data PDU with 7 Bit Seq Number
DataExtSN	PDCP_DataPdu_ExtSN_Type	user plane PDCP data PDU with 15 Bit Seq Number
RohcFeedback	PDCP_Ctrl_ROHC_FB_PDU_Typ	PDCP Control PDU for interspersed ROHC feedback packet
	<u>e</u>	
StatusReport	PDCP Ctrl StatusReport Type	PDCP Control PDU for PDCP status report
StatusReportEx	PDCP Ctrl StatusReportExt Typ	PDCP Control PDU for PDCP status report using a 15 bit SN
t	<u>e</u>	
DataSLRB	PDCP_DataPdu_SLRB_Type	user plane PDCP Data PDU for SLRB

## PDCP\_PDUList\_Type

TTCN-3 Record of Type		
Name PDCP_PDUList_Type		
Comment		
record of PDCP PDU	record of PDCP PDU Type	

# D.2.2 DRB\_Primitive\_Definitions

Primitive definitions to send/receive data PDUs over DRB's

# D.2.2.1 DRB\_Common

## U\_PlaneDataList\_Type

TTCN-3 Union T	ype	
Name	U_PlaneDataList_Type	
Comment	MAC:	
	acc. to rel-8 protocols there is not m	· '
	any MAC PDU is completely include	ed in one subframe
	RLC:	
	one or more RLC PDUs per TTI	
	(e.g. RLC Data + Status PDU on a l	
	more than one RLC Data PDU in on	,
	any RLC PDU is completely include	d in one subframe
	PDCP:	
	one or more PDUs per 111; one PD	CP PDU may be included in more than one subframe
MacPdu	MAC_PDUList_Type	SS configuration: RLC TM mode, MAC no header removal
		(PDCP is not configured)
RlcPdu	RLC_PDUList_Type	SS configuration: RLC TM mode, MAC header removal (PDCP is
		not configured)
PdcpPdu	PDCP_PDUList_Type	SS configuration: RLC AM/UM mode, PDCP no header removal
PdcpSdu	PDCP_SDUList_Type	SS configuration: RLC AM/UM mode, PDCP header removal
RlcSdu	RLC_SDUList_Type	SS configuration: RLC UM mode with no PDCP, for example
		MRB

## HarqProcessAssignment\_Type

TTCN-3 Union	Туре	
Name	HarqProcessAssignment_Ty	pe
Comment	in DL the HARQ process id ma	y be specified by the test case or automatically assigned by SS
Id	HarqProcessId Type	HARQ process as specified by the test case NOTE1: the scope of this type is only for data being sent in one TTI; if data needs more than one TTI the HarqProcessId is undefined for the 2nd TTI onward what shall be handled as an error at the SS; SS may send a SYSTEM_IND indicating an error in this case; NOTE2: The initial value of the NDI shall be the same for all HARQ processes and cells
Automatic	Null_Type	HARQ process id automatically assigned by SS

# D.2.2.2 Downlink

## DRB\_DataPerSubframe\_DL\_Type

TTCN-3 Record	Туре	
Name	DRB_DataPerSubframe_DL	Туре
Comment	common definition for one or soffset; NOTE 1: For MAC and RLC PDUs a sir SS shall raise an error indicati NOTE 2:	everal PDUs/SDUs to be sent in the subframe given by the subframe agle PDU is always sent in one subframe; on (using SYSTEM_IND) when that is not possible read over more than one subframe (segmented by the RLC);
	the TTCN implemetation is res	sponsible to calculate appropriate offsets accordingly; and is exactly specified by) configuration of the DL scheduling; here is any conflict
SubframeOffset	integer	subframe offset relative to the absolute timing information given in the common part of the ASP; NOTE 1: Notes: Acc. to TS 36.523-3, clause 7.3.3 in case of TDD or half-duplex configuration only subframes available for DL are taken into consideration NOTE 2: if a PDCP PDU or SDU takes more than one subframe, SubframeOffset specifies the first TTI
HarqProcess	HarqProcessAssignment T ype	HARQ process to be used: specific value (07) or automatically assigned by SS; in automatic mode SS chooses HARQ process out of the set configured by CcchDcchDtchConfigDL_Type.HarqProcessConfig NOTE: for PDCP SDUs or PDUs automatic mode shall be used; otherwise SS shall raise an error
PduSduList	U PlaneDataList Type	list of PDUs/SDUs to be sent in one TTI

# DRB\_DataPerSubframeList\_DL\_Type

TTCN-3 Record of T	уре
Name	DRB_DataPerSubframeList_DL_Type
Comment	list of user plane data to be sent in sub-frames given by the SubframeOffset in the single elements of the list; Timing: the start time for the whole sequence is given by the timing info of the ASP (common information); the timing for the respective data pdus is given by the SubframeOffset relative to the common timing info; design consideration: repetitions of this sequence are not foreseen (in which case the subframe offset could not be related to the timing info of the ASP)
record of DRB_Data	PerSubframe_DL_Type

# U\_Plane\_Request\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	U_Plane_Request_Type	
Comment	NOTE: formal type definition to allow later enhancements;	
	U_Plane_Request_Type defines a sequence of subframes in which data shall be sent	
SubframeDataL	DRB_DataPerSubframeList	
ist	DL Type	

# D.2.2.3 Uplink

## DRB\_DataPerSubframe\_UL\_Type

TTCN-3 Recor	d Type	
Name	DRB_DataPerSubframe_UL	_Туре
Comment	or to receive one PDCP PDU NOTE: There is a fix relation between	several PDUs/SDUs being received in one subframe or SDU being spread over more than one TTI;  HARQ process id and subframe in UL  HE HARQ process id for UL data
PduSduList	U_PlaneDataList_Type	list of PDUs/SDUs being received in one TTI; elements of the list appear in the same order as the PDUs/SDUs in the MAC PDU; for PDCP when a PDU or SDU takes more than one TTI the list only contains this PDU or SDU
NoOfTTIs	integer	in case of PDCP: number of TTIs the SDU or PDU has taken NOTE 1: for the time being the NoOfTTIs is not checked by TTCN-3 and may be set to 1 by SS; NOTE 2: the timing info in common part of the ASP refers to the last TTI NOTE 3: when NoOfTTIs > 1 => PduSduList shall only contain one PDCP PDU or SDU in case of MAC or RLC PDUs: NoOfTTIs shall always be 1 (acc. to TS 36.321 MAC is not doing segmentation of RLC PDUs and acc. to TS 36.322, clause 6.2.2.2 the maximum RLC data is calculated to fit into a MAC PDU and RLC does segmentation accordingly)

## **U\_Plane\_Indication\_Type**

TTCN-3 Record	TTCN-3 Record Type		
Name	U_Plane_Indication_Type		
Comment	NOTE: formal type definition to allow later enhancements; U_Plane_Indication_Type defines data being received in a single subframe i.e. PDUs of subsequent TTIs are indicated in separated ASPs		
SubframeData	DRB DataPerSubframe U L Type		

# D.2.3 MBMS\_MRB\_Primitive\_Definitions

#### EUTRA\_MRB\_PORT

TTCN-3 Port Type	
Name	EUTRA_MRB_PORT
Comment	
out	MRB COMMON REQ

## MRB\_COMMON\_REQ

TTCN-3 Record Type		
Name	MRB_COMMON_REQ	
Comment	common ASP to send PDUs to	MRBs
Common	ReqAspCommonPart Type	CellId: identifier of the cell RoutingInfo: set to Mrb TimingInfo: starting point when to start sending sequence of data PDUs e.g. SFN = X, subframe number = x; U_Plane.SubframeDataList[i].SubframeOffset := offset_i; => U_Plane.SubframeDataList[i].PduSduList shall be sent out at SFN = X + ((x + offset_i) / 10); subframe number = (x + offset_i) % 10 ControlInfo: CnfFlag:=false; FollowOnFlag:=false
U_Plane	U Plane Request Type	

# D.2.4 System\_Interface

## DRB\_COMMON\_REQ

TTCN-3 Record	TTCN-3 Record Type			
Name	DRB_COMMON_REQ			
Comment	common ASP to send PDUs to DRBs		Bs	
Common	ReqAspCommonPart Type		CellId: identifier of the cell RoutingInfo: DRB id TimingInfo: starting point when to start sending sequence of data PDUs e.g. SFN = X, subframe number = x; U_Plane.SubframeDataList[i].SubframeOffset := offset_i; => U_Plane.SubframeDataList[i].PduSduList shall be sent out at SFN = X + ((x + offset_i) / 10); subframe number = (x + offset_i) % 10 ControlInfo: CnfFlag:=false; FollowOnFlag:=false	
U_Plane	U_Plane_Request_Type			
SuppressPdcch ForC_RNTI	Null_Type	opt	By default all DRB_COMMON_REQ scheduled DL PDU's are associated with an appropriate explicit configured or SS selected DL assignment allocation on PDCCH. For SuppressPdcch:=true in the sub frame in which DL PDU's are transmitted, there is no associated DL assignment allocation for configured C-RNTI. This will be used for SPS assignment based transmission or in any error scenarios; NOTE: this flag has no impact on PDCCH messages required for SPS activation	

#### DRB\_COMMON\_IND

TTCN-3 Record	TTCN-3 Record Type		
Name	DRB_COMMON_IND		
Comment	common ASP to receive PDUs fro	om DRBs	
Common	IndAspCommonPart Type	CellId: identifier of the cell RoutingInfo: DRB id TimingInfo: time when message has been received NOTE 1: For MAC and RCL PDUs per definition U_Plane_Indication_Type corresponds to exactly one subframe => TimingInfo refers to this subframe NOTE 2: For PDCP a single PDU or SDU may take more than one TTI => TimingInfo refers to the end of the PDU/SDU and the length is given by NoOfTTIs in U_Plane_Indication_Type (the end of the PDU/SDU is the last RLC PDU being received; in case of retransmissions this is not necessarily the RLC PDU with the last SN)	
U_Plane	U Plane Indication Type		

#### EUTRA\_DRB\_PORT

TTCN-3 Port Type		
Name	EUTRA_DRB_PORT	
Comment		
out	DRB COMMON REQ	
in	DRB COMMON IND	

# D.3 EUTRA\_ASP\_SrbDefs

# D.3.1 SRB\_DATA\_ASPs

ASP Definitions to send/receive peer-to-peer messages on SRBs

## C\_Plane\_Request\_Type

TTCN-3 Record Type				
Name	C_Plane_Request_Type			
Comment	RRC and/or NAS PDU to be so	end to	o the UE;	
	Note: it may be necessary to a	allow r	more than one NAS PDU (-> "record of")	
Rrc	RRC_MSG_Request_Type	opt	omit: NAS message shall be present; NAS message shall be sent in DLInformationTransfer present: if NAS message is present also, (piggybacked) NAS PDU shall be security protected (if necessary) and inserted in RRC PDU's DedicatedInfoNAS	
Nas	NAS_MSG_RequestList_Ty pe	opt	omit: RRC message shall be present; RRC message does not contain (piggybacked) NAS PDU present: if RRC message is omitted => NAS message shall be sent embedded in DLInformationTransfer if RRC message is present => NAS message is piggybacked in RRC message in case of RRC message is sent on CCCH, NAS message shall be omitted NOTE:  acc. DEC 08 ASN.1 RRCConnectionReconfiguration may contain DedicatedInfoNAS several times	

# C\_Plane\_Indication\_Type

TTCN-3 Recor	TTCN-3 Record Type				
Name	C_Plane_Indication_Type				
Comment	RRC and/or NAS PDU to be received from the UE;				
	Note: it may be necessary to all	llow more than one NAS PDU (-> "record of")			
Rrc	RRC MSG Indication Typ e	opt omit: NAS message shall be present; NAS message is received in ULInformationTransfer present: if NAS message is present also, DedicatedInfoNAS contains unstructured and ciphered NAS message and the NAS message is the deciphered message in structured format			
Nas	NAS_MSG_IndicationList_T ype	opt omit: RRC message shall be present; RRC message does not contain (piggybacked) NAS PDU present: if RRC message is omitted => NAS message has been received in ULInformationTransfer if RRC message is present => NAS message has been piggybacked in RRC message NOTE:  even though currently (DEC 08 ASN.1) there is no RRC PDU in UL containing more than one DedicatedInfoNAS we provide a list to allow extendability			

# SRB\_COMMON\_REQ

TTCN-3 Record	Туре	
Name	SRB_COMMON_REQ	
Comment	common ASP to send PDUs to SRB0, SRB1 or SRB2	
Common	ReqAspCommonPart Type  CellId identifier of the cell RoutingInfo SRB0, SRB1, SRB2 TimingInfo Now in normal cases; For latency tests TimingInfo can be set to the SFN/subframe in which the RRC messages shall be sent out (in this case and if the RRC PDU is too long to be sent in one TTI the TimingInfo corresponds to the first TTI)  ControlInfo CnfFlag:=false; FollowOnFlag true: Indicates that the message(s) to be sent on the same TTI will follow NOTE 1: When FollowOnFlag is true, TimingInfo shall always be "Now". Otherwise SS shall produce an error NOTE 2: the follow on flag applies only for messages of the same SRB false: Indicates that no more message(s) will follow	
Signalling	C Plane Request Type	

## SRB\_COMMON\_IND

TTCN-3 Record Type			
Name	SRB_COMMON_IND		
Comment	common ASP to receive PDUs	s from SRB0, SRB1 or SRB2	
Common	IndAspCommonPart Type	CellId identifier of the cell RoutingInfo SRB0, SRB1, SRB2 TimingInfo time when message has been received (as received from the SS by the NAS emulator)	
Signalling	C Plane Indication Type		

## D.3.2 Port Definitions

#### **EUTRA SRB PORT**

TTCN-3 Port Type		
Name	EUTRA_SRB_PORT	
Comment	EUTRA PTC: Port for Sending/Receiving data on SRBs	
out	SRB COMMON REQ	
in	SRB COMMON IND	

#### NASEMU\_SRB\_PORT

TTCN-3 Port Type		
Name	NASEMU_SRB_PORT	
Comment	NASEMU PTC: Port for Sending/Receiving data on SRBs (interface to EUTRA PTC)	
Out	SRB COMMON IND	
In	SRB COMMON REQ	

# D.4 IP\_ASP\_TypeDefs

General Notes:

NOTE 1:

In general the handling of IP data shall be independent from the RAT being used on lower layers.

NOTE 2:

It shall be possible for SS implementation to reuse existing IP stack implementations in the system adaptor;

therefore the well-known concept of socket programming shall be supported

(regardless of whether those are used in the system adaptor implementation or not)

NOTE 3:

Since in general at the network side there are several different IP addresses the SS needs to simulate more than one IP address;

that can be based on a concept of multiple virtual network adaptors

NOTE 4:

There is no easy way to control the routing of IP data for an IP connection from above the IP stack

i.e. there are no parameters at the socket interface to determine e.g. cell id and DRB id

=> another independent logical entity (DRB-MUX) is needed below the IP stack which is responsible to control the routing of IP packets from/to DRBs in different cells of different RATs

#### Reference:

An introduction to socket programming can be found in

UNIX Network Programming Volume 1, Third Edition: The Sockets Networking API

by W. Richard Stevens, Bill Fenner, Andrew M. Rudoff

# D.4.1 IP\_Common

**IP\_Common: Basic Type Definitions** 

TTCN-3 Basic Types		
PortNumber_Type	UInt16_Type	

## IPv4\_AddrInfo\_Type

TTCN-3 Record Type			
Name	IPv4_AddrInfo_Type		
Comment	IPv4 specific info of the socket addr (AF_INET)		
Addr	charstring IP Address as string (IP v4 dot notation) to be conve		IP Address as string (IP v4 dot notation) to be converted to 32-bit
			unsigned integer

# IPv6\_AddrInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	IPv6_AddrInfo_Type		
Comment	IPv6 specific info of the socket addr (AF_INET6); NOTE: sin6_flowinfo can be ignored and set to 0		
Addr	charstring to be converted to sin6_addr		
Scopeld	UInt32 Type	opt	sin6_scope_id in general an IPv6 address is like "fe80::1%eth0" with eth0 being the network adaptor mapped to a scope id (Unix) assumption: for UE conformance testing it is not necessary to distiguish different scopes and the scope id in general can be determined by the system adaptor => omit

# IP\_AddrInfo\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	IP_AddrInfo_Type		
Comment			
V4	IPv4 AddrInfo Type		
V6	IPv6 AddrInfo Type		

## IP\_Socket\_Type

TTCN-3 Record Type			
Name	IP_Socket_Type		
Comment	Socket		
IpAddr	IP AddrInfo Type	opt	IP address
Port	PortNumber Type	opt	port number

## InternetProtocol\_Type

TTCN-3 Enumerated Type		
Name	InternetProtocol_Type	
Comment		
udp		
tcp		
icmp		
icmpv6		

## IP\_Connection\_Type

TTCN-3 Record Type			
Name	IP_Connection_Type		
Comment		A connection between peer-to-peer entities is unambiguously defined by the protocol (udp/tcp/icmp/icmpv4), the local socket and the remote socket	
Protocol	InternetProtocol_Type		
Local	IP Socket Type	opt	
Remote	IP Socket Type	opt	

# D.4.2 IP\_Config

Configuration of the routing table managed be the system adaptor's DRB-MUX:

foreach IP connection it is specified which

- RAT
- Cell
- DRB

to be used.

The IP connection does not need to be fully specified depending on the role SS plays (e.g. in case of a server role the port number of the remote side is not known in advance).

The configurations of DRBs within the same cell shall be mutual exclusive.

With the configuration of the IP routing the DRB is configured either in IP or in raw mode: either there are entries for the DRB in the routing table (IP mode) or not (raw mode)

=> It is not necessary to reconfigure this for the respective RAT.

#### Behaviour of the DRB-MUX in UL:

- SS gets data packet from the lower layers (e.g. PDCP SDU)
- SS checks whether there is any IP connection configured for this DRB (identified by {RAT, CellId, DrbId})

if YES => packet is routed to the IP stack (IP mode)

if NO => packet is handed over to the DRB port (raw mode)

#### NOTE 1:

If there is any entry for a DRB in the routing table this DRB is considered as being in IP mode and all UL IP packets are sent to the IP stack regardless of whether their addresses match the DRB's routing entries or not (in general 'unknown' packets are discarded by the IP stack)

=> a DRB can be either in IP or in raw mode

#### NOTE 2:

=> The SS does not need to evaluate any IP headers to decide whether data shall be routed to the DRB port or to the IP stack (i.e. there is no conflict with unstructured loopback data)

#### Behaviour of the DRB-MUX in DL:

- SS gets IP packets from the IP stack for an IP connection
- SS compares the IP connection (protocol, local/remote IP Addr) against the IP routing table and checks whether the corresponding protocol stack is configured at the lower layers =>
- 1. no match:

no entry in the routing table fits to the address in the IP packet

or the corresponding RB is not configured

=> SS shall raise an error (DRBMUX\_COMMON\_IND\_CNF.Error)

2. one match:

There is exactly one possibility to route the IP packet

=> SS shall send the packet to this RB

3. several matches:

There are more than one DRBs, cells or RATs to which the packet may be routed

=> SS shall raise an error if there is more than one DRB in one cell matching;

if the DRBs belong to different cells or RATs SS shall send the data to all of them (whether this may occur in test cases is FFS)

#### General notes:

#### NOTE 1:

SS may use the information of the routing table to determine which network adaptors it needs to simulate (implementation dependent);

in general there will be more than one IP address at the network side.

NOTE 2:

In general the routing table is a simplified DL TFT implementation

NOTE 3:

When the routing table is empty all DRBs are in raw mode; this shall be the initial condition at the DRB-MUX; => for L2 testing in general (and apart from the preamble) there is no need to use/configure the IP\_PTC; the configuration of the RAT specific U-plane stacks is not affected

## IP\_DataMode\_Type

TTCN-3 Enumerated Type		
Name	IP_DataMode_Type	
Comment		
discard		
loopbackRTP		
loopbackRTCP		
IPsecTunnel		

## IP\_RoutingInfo\_Type

TTCN-3 Reco	IP_RoutingInfo_Type	
Comment	gg	
IpInfo	IP Connection Type	IP connection tuple: protocol, local socket, remote socket depending on the role the SS plays the following information in be provided  (informative; even less information can be sufficient):  1. TCP/UDP server  - local IP addr provided - local port provided - remote IP addr omit  2. TCP/UDP client  - local IP addr provided (to inform SS about the local IP addr for this service) - local port omit; for UDP a well-defined port may be defined (protocol dependent, e.g. DHCP) - remote IP addr provided - remote port provided 3. ICMP (in general ICMP may be mapped only to a single DR - local IP addr provided (to inform SS about the local IP addr for this service) - local P addr provided (to inform SS about the local IP addr for this service) - local port n/a (shall be set to omit) - remote IP addr omit - remote port n/a (shall be set to omit)  NOTE: In case of broadcasts in UL the broadcast address shall match any local IP address; in DL for broadcast services typically no remote IP address is specified in the routing table
DRB	IP DrbInfo Type	
DataMode	IP DataMode Type	opt present when IP packets matching this entry shall be discarde or be looped back to the UE as defined for RTP or RTCP

# IP\_RoutingTable\_Type

TTCN-3 Record of Type		
Name	IP_RoutingTable_Type	
Comment	NOTE: configurations of DRBs within the same cell shall be mutual exclusive	
record of IP_RoutingInfo_Type		

# D.4.3 IPsec\_Config

## IP\_ASP\_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_IPsec_SPI_Max	integer	4294967295	

## IPsec\_Config: Basic Type Definitions

TTCN-3 Basic Types		
IPsec_SPI_Type	integer (0 <u>tsc IPsec SPI Max</u> )	security parameter index for IPsec; According to RFC 2406, SPI values from 0 to 255 are reserved

## IPsec\_IntegrityAlgorithm\_Type

TTCN-3 Enumerated Type		
Name	IPsec_IntegrityAlgorithm_Type	
Comment		
hmac_md5_96		
hmac_sha_1_96		

## $IPsec\_CipheringAlgorithm\_Type$

TTCN-3 Enumerated Type		
Name	IPsec_CipheringAlgorithm_Type	
Comment		
des_ede3_cbc		
aes_cbc		
nociph	no ciphering	

## IPsec\_SecurityKeys\_Type

TTCN-3 Record Type		
Name	IPsec_SecurityKeys_Type	
Comment	to install the security keys	
MD5_96Key	bitstring length (128)	
SHA_1_96Key	bitstring length (160)	
DES_EDE3_C	bitstring length (192)	
BCKey		
AES_CBCKey	bitstring length (128)	

## IPsec\_SecurityAssociation\_Type

TTCN-3 Record Type			
Name	IPsec_SecurityAssociation_Type		
Comment	single security association (Sa		
	for configuration of an SA at t	he SS	all fields are mandatory;
	to release an SA the optional	inform	ation is omitted
SPI	IPsec_SPI_Type		
SrcAddress	charstring		
DestAddress	charstring		
SrcPort	<u>UInt16 Type</u>		
DestPort	<u>UInt16 Type</u>		
IntegrityAlgorith	IPsec IntegrityAlgorithm T	opt	mandatory to set-up an SA
m	ype		
CipheringAlgori	IPsec_CipheringAlgorithm_	opt	mandatory to set-up an SA
thm	<u>Type</u>		

## IPsec\_SecurityAssociationList\_Type

TTCN-3 Record of Type				
Name	IPsec_SecurityAssociationList_Type			
Comment				
record of IPsec SecurityAssociation Type				

#### IPsec\_Configure\_Type

TTCN-3 Record Type			
Name	IPsec_Configure_Type		
Comment	add new security associations; existing SAs are not affected		
SA_List	IPsec SecurityAssociationL		
	ist Type		
SecurityKeys	IPsec_SecurityKeys_Type		

#### IPsec\_Release\_Type

TTCN-3 Record Type			
Name	IPsec_Release_Type		
Comment	release security associations; NOTE: in context with multiple PDNs it cannot be ensured that all SPIs are unique; e.g. the UE may use the same SPI values in different PDNs in which case uniqueness cannot be achieved furthermore it depends on the system implementation how entries in the IPsec SAD and SPD are administrated => to release SAs the SS gets the same information as for configuration but without the security algorithms		
SA_List	IPsec_SecurityAssociationL ist Type		

# D.4.4 IP\_SocketHandling

Handling of IP data and IP connections

NOTE 1:

In general IP connections are distinguished by the tuple {protocol, local socket, remote socket};

this information is used at the interface between TTCN and the system adaptor.

It is up the system adaptor implementation to associate the IP connection with the internal socket (file descriptor; implementation dependent)

NOTE 2:

In general the association of the IP connections to (internal) sockets and the routing table for the DRB mapping (as configured with IP\_RoutingTable\_Type) are independent from each other

# D.4.4.1 Socket\_Common

#### IP\_SockOpt\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	IP_SockOpt_Type			
Comment	socket API); NOTE: only options being relevant for a spi	ecific applications (upon a socket) are configured by TTCN and therefore a matter of system adaptor		
SO_BROADCA ST	boolean	set to true when IP broadcast messages shall be allowed for a port; this is required e.g. in case of DHCP		
IP_MTU_SIZE	integer	MTU size to be used for IP data; NOTEs: - Even though the MTU size is defined as socket option it shall be the same for all sockets of a given interface (i.e. at least within one PDN the MTU size shall be the same) - in general a PIXIT is used as constant value for all sockets		

## IP\_SockOptList\_Type

TTCN-3 Record of Type			
Name	IP_SockOptList_Type		
Comment			
record of IP SockOpt Type			

# IP\_SocketError\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	IP_SocketError_Type			
Comment	used to indicate errors related to sockets; the IP_Connection shall contain as much address information as available at the system adaptor			
InvalidAddress	Null_Type	TTCN error: e.g. invalid or incomplete address information		
System	integer	system error caused by system call; the integer value may be used for validation but shall not be evaluated by TTCN		

# D.4.4.2 Socket\_Datagram

## Socket\_Datagram: Basic Type Definitions

TTCN-3 Basic Types					
Datagram_Content_Type	octetstring	data as sent/received with sendto()/recvfrom() on UDP or ICMP socket; NOTE: For ICMP the data may depend on the socket options; in general it does not include the IP header and the checksum of the ICMP packet needs to be calculated/checked in TTCN			

## Datagram\_DL\_Type

TTCN-3 Record Type				
Name	Datagram_DL_Type			
Comment	datagram to be sent at a UDP or ICMP socket			
Buffer	Datagram Content Type		content of the IP packet	

## Datagram\_UL\_Type

TTCN-3 Record Type				
Name	Datagram_UL_Type			
Comment	datagram as received on a L	datagram as received on a UDP or ICMP socket		
Buffer	Datagram Content Type		content of the IP packet	
DrbInfo	IP DrbInfo Type	opt	"interface id" where the data comes from in case of broadcast or multicast packets: for the LTE test model this is the DRB on which the IP packet has been received; the information is necessary when the SS cannot resolve an IP address being assigned to that DRB.  => when the SS provides a broadcast or multicast address as local address in the ConnectionId of the ASP, the SS shall provide the DRB information in this field When the ConnectionId of the ASP is fully specified and unique (unicast address at least for local address) the DrbId is ignored by TTCN	

# D.4.4.3 TCP\_Socket

TCP primitives used on the IP port

## **TCP\_Socket: Basic Type Definitions**

TTCN-3 Basic Types		
TCP_Data_Type	octetstring	data as sent/received with send()/recv() on a
	-	TCP socket

## InternetApplication\_Type

TTCN-3 Enumerated 7	Гуре
Name	InternetApplication_Type
Comment	as TCP is stream oriented SS may need information about which criteria to be applied to get start/end of an application message
ims	
http	

## TLS\_ CIPHER\_Type

TTCN-3 Enumerated 1	TTCN-3 Enumerated Type		
Name	TLS_ CIPHER_Type		
Comment	Cipher suite to be used for TLS		
TLS_PSK_WITH_RC	RFC 4279		
4_128_SHA			
TLS_PSK_WITH_3D	RFC 4279		
ES_EDE_CBC_SHA			
TLS_PSK_WITH_AE	RFC 4279		
S_128_CBC_SHA			
TLS_PSK_WITH_AE	RFC 4279		
S_256_CBC_SHA			
TLS_PSK_WITH_AE	RFC 5487		
S_128_CBC_SHA25			
6			

# **PSK\_BootstrappingInfo\_Type**

TTCN-3 Record Type	
Name	PSK_BootstrappingInfo_Type
Comment	bootstrapping information as defined in 24.109
BTid	charstring
Ks_NAF	bitstring

#### TLS\_PSK\_Info\_Type

TTCN-3 Record	Туре
Name	TLS_PSK_Info_Type
Comment	configuration information for PSK TLS
IdentityHint	charstring
BootstrappingIn	PSK BootstrappingInfo Ty
fo	<u>pe</u>

## TLS\_CipherSuiteInfo\_Type

TTCN-3 Union T	уре
Name	TLS_CipherSuiteInfo_Type
Comment	
psk	TLS PSK Info Type

# TLSInfo\_Type

TTCN-3 Record Type				
Name	TLSInfo_Type			
Comment				
cipherSuite	TLS CIPHER Type		Cipher suite to be used	
cipherSuiteInfo	TLS CipherSuiteInfo Type		parameters for the respective cipher suite	

# TCP\_ConnectRequest\_Type

TTCN-3 Record Type			
Name	TCP_ConnectRequest_Type	9	
Comment	TCP client: -> 'connect' system	n call	
SockOptList	IP_SockOptList_Type		when there are no options to configure the list is empty
Application	InternetApplication Type		to specify start/end criteria for application messages

# TCP\_Listen\_Type

TTCN-3 Record Type			
Name	TCP_Listen_Type		
Comment	TCP server: -> 'listen' systen	n call	
SockOptList	IP_SockOptList_Type		when there are no options to configure the list is empty
Application	InternetApplication Type		to specify start/end criteria for application messages
TLSInfo	TLSInfo_Type	opt	to support TLS for HTTP server implementation

# TCP\_CtrlRequest\_Type

TTCN-3 Union	Туре	
Name	TCP_CtrlRequest_Type	
Comment		
ConnectReq	TCP ConnectRequest Type	request a 'connect' to a remote server
		system calls (informative)
		socket get file descriptor
		(setsockopt) normally not needed
		bind assign local IP addr (to cope with multiple IP
		addresses) and dedicated port number (if local port is given) connect connect to the client
		IP_Connection:
		protocol tcp
		local IP addr mandatory to distinguish different network adaptors
		local port omit (ephemeral port will be assigned by the
		system) or specific port to be used for this connection (e.g. to
		bind a given port number to the IMS client)
		remote IP addr mandatory
		remote port mandatory
Listen	TCP Listen Type	establish a server at the local (SS) side
		system calls (informative)
		socket get file descriptor
		(setsockopt) if needed
		bind assign local IP addr and port
		listen await incoming connection
		IP_Connection:
		protocol tcp
		local IP addr mandatory to distinguish different network adaptors
		local port mandatory
		remote IP add omit
		remote port omit
Close	Null Type	close a connection
		system calls (informative):
		close
		IP_Connection:
		protocol tcp
		local IP addr mandatory
		local port mandatory remote IP addr mandatory for TCP connections, omit for TCP
		Server y
		remote port mandatory for TCP connections, omit for TCP
		server y

# TCP\_DataRequest\_Type

TTCN-3 Union 7	Гуре	
Name	TCP_DataRequest_Type	
Comment		
Send	TCP Data Type	send data
		system calls (informative): send or write  IP_Connection: protocol tcp local IP addr mandatory local port mandatory remote IP addr mandatory remote port mandatory

# TCP\_CtrlIndication\_Type

TTCN-3 Union	n Type	
Name	TCP_CtrlIndication_T	Гуре
Comment		
ConnectCnf	Null Type	confirm a 'connect' to a remote server
		system calls (informative):  getsockname get local port (ephemeral port assigned by the
		system)
		IP_Connection: protocol tcp
		local IP addr mandatory (as in corresponding TCP_ConnectRequest)
		local port mandatory (if there is more than one connection
		to the same server the local port is necessary to distinguish the connections)
		remote IP addr mandatory (as in corresponding TCP_ConnectRequest)
		remote port mandatory (as in corresponding TCP_ConnectRequest)
Accept	Null Type	sent by the SS when it 'accepts' an incoming connection
		system calls (informative): accept
		IP_Connection: protocol tcp
		local IP addr mandatory (as in corresponding
		TCP_ListenRequest)
		local port mandatory (as in corresponding
		TCP_ListenRequest) remote IP addr mandatory (as gotten from 'accept')
		remote port mandatory (as gotten from 'accept')
Close	Null Type	indicate 'close' by the remote side
		system calls (informative): indicated by recv or read
		IP_Connection:
		protocol tcp
		local IP addr mandatory
		local port mandatory
		remote IP addr mandatory remote port mandatory
CloseCnf	Null Type	Confirmation for 'close' request; necessary since for TCP there are IP packets to release the connection
		system calls (informative):
		close
		IP_Connection: protocol tcp
		local IP addr mandatory
		local port mandatory
		remote IP addr mandatory for TCP connections, omit for TCP server
		remote port mandatory for TCP connections, omit for TCP server
	1	1

## TCP\_DataIndication\_Type

TTCN-3 Unio	n Type		
Name	TCP_DataIndication_Typ	ne e	
Comment			
Recv	TCP Data Type	receive data	
		system calls (informative):	
		recv or read	
		IP_Connection:	
		protocol tcp local IP addr mandatory	
		local port mandatory	
		remote IP addr mandatory	
		remote port mandatory	

# D.4.4.4 UDP\_Socket

UDP primitives used on the IP port

NOTE

In principle a UDP socket may communicate with different remote entities; therefore the system adaptor may associate the socket handle with the local socket only (local IP address and local port)

#### UDP\_SocketReq\_Type

TTCN-3 Record Type		
Name	UDP_SocketReq_Type	
Comment	to establish a UDP server or to	bind local port number
SockOptList	IP_SockOptList_Type	e.g. to allow broadcast messages; when there are no options to configure the list is empty

# UDP\_CtrlRequest\_Type

TTCN-3 Union	n Type	
Name	UDP_CtrlRequest_Type	
Comment		
SocketReq	UDP SocketReq Type	request the system adaptor to bind a socket to a local address; this is needed in general when the system adaptor acts as 1. UDP server 2. UDP client when it uses a well-known port rather than an ephemeral port (this is e.g. for DHCP) 3. UDP client when a local address needs to be bond (e.g. when there are several local addresses)
		system calls (informative): socket get file descriptor (setsockopt) needed e.g. to allow broad cast message bind assign local IP address (to cope with multiple IP addresses) and local port (in case of well-known local port)
		IP_Connection:     protocol udp     local IP addr mandatory (to distinguish multiple IP addresses)     local port optional (mandatory in case of a UDP server)     remote IP addr omit     remote port omit
Close	Null Type	release local socket  system calls (informative): close  IP_Connection: protocol udp local IP addr mandatory (to identify local socket)
		local port mandatory (to identify local socket) remote IP addr omit remote port omit

#### UDP\_DataRequest\_Type

TTCN-3 Union	Туре	
Name	UDP_DataRequest_Type	
Comment		
SendTo	Datagram DL Type	send data to (any) remote socket; NOTE: To simplify implementation of the system adaptor the local socket shall be bond in any case (using 'SocketReq') to specify the local IP address before sending data; (in general the sendto system call can be used without explicitly binding the socket before; in this case the port gets implicitly bond to an ephemeral port and the default IP address is used)  system calls (informative): sendto  IP_Connection: protocol udp local IP addr mandatory (to identify local socket) local port mandatory (to identify local socket) remote IP addr mandatory (to address remote socket) remote port mandatory (to address remote socket)

## UDP\_CtrlIndication\_Type

TTCN-3 Union	n Type	
Name	UDP_CtrlIndication_Type	
Comment		
SocketCnf	Null Type	confirm 'SocketReq' and tell TTCN about assignment of ephemeral port;  system calls (informative):   getsockname get local port (ephemeral port assigned by the system; not needed if local port is well-known)  IP_Connection:   protocol udp local IP addr mandatory local port mandatory (well-known or ephemeral port assigned by the system) remote IP addr omit remote port omit

## **UDP\_DataIndication\_Type**

TTCN-3 Union	Type	
Name	UDP_DataIndication_Type	
Comment		
RecvFrom	Datagram UL Type	receive data;
		system calls (informative):
		recvfrom get data and src addr
		IP Connection:
		protocol udp
		local IP addr mandatory (see note)
		local port mandatory
		remote IP addr mandatory (as gotten from recvfrom)
		remote port mandatory (as gotten from recvfrom)
		·······
		NOTE:
		The UE may send a UDP packet as broadcast (IP Addr
		255.255.255.255 - e.g. in case of DHCP) or multicast (e.g.
		ICMPv6)
		SS shall consider a broadcast address as matching every IP for
		UL and DL;
		the SS shall not replace the broadcast/multicast address by the
		local unicast address, but shall provide DRB information in
		RecvFrom;
		example:
		- SS gets DHCPDISCOVER with
		DEST_Addr=255.255.255.255 DEST_Port=67,
		SRC_Addr=0.0.0.0 SRC_Port=68
		- TTCN gets DHCPDISCOVER with local
		Addr=(255.255.255.255 Port=67), remote Addr=(0.0.0.0
		Port=68), DrbId=(LTE, cell1, DRB1)
		- TTCN sends DHCPOFFER with local Addr=(local IP Addr
		Port=67), remote Addr=(255.255.255.255 Port=68)

# D.4.4.5 ICMP\_Socket

ICMP primitives used on the IP port NOTE:

the local side is identified by the protocol and in general by the local IP address

## ICMP\_SocketReq\_Type

TTCN-3 Record Type		
Name	ICMP_SocketReq_Type	
Comment	to establish a raw socket to send/re	eceive ICMP packets
SockOptList	IP SockOptList Type	e.g. to set the IP_HDRINCL socket option (to include the IP header in the data buffer) when there are no options to configure the list is empty

# ICMP\_CtrlRequest\_Type

TTCN-3 Unio	n Type	
Name	ICMP_CtrlRequest_Type	
Comment		
SocketReq	ICMP_SocketReq_Type	request the system adaptor to open a raw socket (IPv4 or IPv6) system calls (informative): socket get file descriptor (IPPROTO_ICMP or IPPROTO_IPV6); (setsockopt) optional; to set socket options
		bind assign local IP address (to cope with multiple IP addresses)  IP_Connection:     protocol icmp or icmpv6     local IP addr mandatory (to distinguish multiple IP addresses)     local port omit (not applicable for ICMP)     remote IP addr omit     remote port omit (not applicable for ICMP)
Close	Null Type	release local socket  system calls (informative): close  IP_Connection: protocol icmp or icmpv6 local IP addr mandatory (to identify local socket) local port omit remote IP addr omit remote port omit

## ICMP\_DataRequest\_Type

TTCN-3 Union Type		
Name	ICMP_DataRequest_Type	
Comment		
SendTo	Datagram DL Type	send datagram system calls (informative): sendto
		IP_Connection: protocol icmp or icmpv6 local IP addr mandatory (to identify local socket) local port omit remote IP addr mandatory remote port omit

## ICMP\_CtrlIndication\_Type

TTCN-3 Union	n Type	
Name	ICMP_CtrlIndication_Type	
Comment		
SocketCnf	Null Type	confirm 'SocketReq'
		system calls (informative): (SocketCnf is sent when all system calls for SocketReq have been successful)
		IP_Connection: protocol icmp or icmpv6 local IP addr mandatory local port omit remote IP addr omit remote port omit

## ICMP\_DataIndication\_Type

TTCN-3 Union	n Type	
Name	ICMP_DataIndication_Type	
Comment		
RecvFrom	Datagram UL Type	receive datagram  system calls (informative): recvfrom get data and src addr  IP_Connection: protocol icmp or icmpv6 local IP addr mandatory (see note) local port omit remote IP addr mandatory (as gotten from recvfrom) remote port omit  NOTE: As for UDP there may be multicast/broadcast packets.
		In this case - as for UDP - the SS shall provide the DRB information in RecvFrom.

# D.4.4.6 Socket\_Primitives

# IP\_CtrlRequest\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	IP_CtrlRequest_Type		
Comment			
TCP	TCP CtrlRequest Type		
UDP	UDP CtrlRequest Type		
ICMP	ICMP CtrlRequest Type		

# IP\_DataRequest\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	IP_DataRequest_Type	
Comment		
TCP	TCP DataRequest Type	
UDP	UDP DataRequest Type	
ICMP	ICMP DataRequest Type	

## IP\_CtrlIndication\_Type

TTCN-3 Union	TTCN-3 Union Type	
Name	IP_CtrlIndication_Type	
Comment		
TCP	TCP CtrlIndication Type	
UDP	<u>UDP CtrlIndication Type</u>	
ICMP	ICMP CtrlIndication Type	
Error	IP SocketError Type	

## IP\_DataIndication\_Type

TTCN-3 Union Type	
Name	IP_DataIndication_Type
Comment	
TCP	TCP DataIndication Type
UDP	<u>UDP DataIndication Type</u>
ICMP	ICMP DataIndication Type

# D.4.5 System\_Interface

#### DRBMUX\_CONFIG\_REQ

TTCN-3 Unior Name	DRBMUX CONFIG REQ
Comment	NOTE 1:  There is just one primitive to configure the whole routing table.  It is not foreseen to add, remove or manipulate single entries but the table is managed in TTCN and completely configured on any change; (otherwise it might get complicated to identify single entries) NOTE 2:  the SS's routing table shall be empty at the beginning and can be cleared by an empty record (DRBMUX_CONFIG_REQ.RoutingInfo = {})  NOTE 3:  In general a reconfiguration of the routing table during a test case would be necessary only if an ephemeral port is needed to distinguish different routing (e.g. when there are several TCP connections of the same service routed to different DRBs)
RoutingInfo	IP RoutingTable Type

#### DRBMUX\_COMMON\_IND\_CNF

TTCN-3 Union	TTCN-3 Union Type	
Name	DRBMUX_COMMON_IND_CNF	
Comment		
Confirm	Null_Type	confirm DRBMUX_CONFIG_REQ
Error	Null Type	indication of errors at the DRB-MUX: An Error shall be raised by the DRB-MUX e.g. in the following cases: - in DL when there are IP packets which cannot be routed to any DRB i.e. the IP packet does not match to any entry in the routing table or the corresponding RB is not configured - in DL when there are several DRBs possible for routing in the same cell

## IPSEC\_CONFIG\_REQ

TTCN-3 Union Type	
Name	IPSEC_CONFIG_REQ
Comment	
Configure	IPsec Configure Type
Release	IPsec Release Type

#### IPSEC\_CONFIG\_CNF

TTCN-3 Union Type		
Name	IPSEC_CONFIG_CNF	
Comment		
Confirm	Null Type	confirm IPSEC_CONFIG_REQ
Error	Null Type	to indicate invalid configuration of IPsec

#### IP\_SOCKET\_CTRL\_REQ

TTCN-3 Record Type	
Name	IP_SOCKET_CTRL_REQ
Comment	
ConnectionId	IP Connection Type
Req	IP CtrlRequest Type

#### IP\_SOCKET\_DATA\_REQ

TTCN-3 Record Type	
Name	IP_SOCKET_DATA_REQ
Comment	
ConnectionId	IP Connection Type
Req	IP DataRequest Type

#### IP\_SOCKET\_CTRL\_IND

TTCN-3 Record Type	
Name	IP_SOCKET_CTRL_IND
Comment	
ConnectionId	IP Connection Type
Ind	IP CtrlIndication Type

## IP\_SOCKET\_DATA\_IND

TTCN-3 Record	TTCN-3 Record Type	
Name	IP_SOCKET_DATA_IND	
Comment		
ConnectionId	IP_Connection_Type	
Ind	IP DataIndication Type	

## IP\_SOCKET\_REQ

TTCN-3 Union Type	
Name	IP_SOCKET_REQ
Comment	
CTRL	IP_SOCKET_CTRL_REQ
DATA	IP SOCKET DATA REQ

## IP\_SOCKET\_IND

TTCN-3 Union Type	
Name	IP_SOCKET_IND
Comment	
CTRL	IP SOCKET CTRL IND
DATA	IP SOCKET DATA IND

#### IP\_CONTROL\_PORT

TTCN-3 Port Type		
Name	IP_CONTROL_PORT	
Comment		
out	DRBMUX CONFIG REQ	
in	DRBMUX COMMON IND CNF	

## IPSEC\_CONTROL\_PORT

TTCN-3 Port Type		
Name	IPSEC_CONTROL_PORT	
Comment		
out	IPSEC CONFIG REQ	
in	IPSEC CONFIG CNF	

#### IP\_SOCKET\_PORT

TTCN-3 Port Type		
Name	IP_SOCKET_PORT	
Comment		
out	IP SOCKET REQ	
in	IP SOCKET IND	

# D.5 NasEmu\_AspTypes

System interface between NAS emulation and system adaptor

# D.5.1 System\_Interface

# RRC\_PDU\_REQ

TTCN-3 Record	TTCN-3 Record Type		
Name	RRC_PDU_REQ		
Comment			
Common	ReqAspCommonPart Type	CellId: identifier of the cell RoutingInfo: SRB0, SRB1, SRB2 TimingInfo: Now in normal cases; For latency tests TimingInfo can be set to the SFN/subframe in which the RRC messages shall be sent out NOTE 1: if the RRC PDU is too long to be sent in one TTI the TimingInfo corresponds to the first TTI NOTE 2: the TimingInfo is not changed by the NAS Emu (i.e. the timing info as coming from the test case (SRB_COMMON_REQ) is handed through by the NAS Emu) ControlInfo CnfFlag:=false; FollowOnFlag true: Indicates that the message(s) to be sent on the same TTI will follow NOTE 1: If the TimingInfo is not the same for messages to be sent on the same TTI, the SS shall produce an error NOTE 2: the follow on flag applies only for messages of the same SRB false: Indicates that no more message(s) will follow	
RrcPdu	RRC_MSG_Request_Type		

## RRC\_PDU\_IND

TTCN-3 Record Type			
Name	RRC_PDU_IND		
Comment	common ASP to receive PDUs	common ASP to receive PDUs from SRB0, SRB1 or SRB2	
Common	IndAspCommonPart Type	CellId: identifier of the cell RoutingInfo: SRB0, SRB1, SRB2 TimingInfo: time when message has been received (frame and sub-frame number); this is handed through to the test case by the NAS emulation NOTE: normally an RRC PDU is expected in one TTI; nevertheless if it is spread over more than one TTIs TimingInfo shall refer to the end of the PDU i.e. to the last RLC PDU being received; Status: OK or RRC integrity error	
RrcPdu	RRC MSG Indication Type		

#### NASEMU\_SYSTEM\_PORT

TTCN-3 Port Type		
Name	NASEMU_SYSTEM_PORT	
Comment	NASEMU PTC: Port for Sending/Receiving data to/from the SYSTEM Interface	
out	RRC PDU REQ	
in	RRC PDU IND	

# D.6 EUTRA\_CommonDefs

# D.6.1 Common\_Types

## Common\_Types: Basic Type Definitions

TTCN-3 Basic Types			
HarqProcessId_Type integer (014) The values 07 represent the ID of HARQ process			
RedundancyVersion_Typ integer (03)		used in EUTRA_ASP_DrbDefs and EUTRA_ASP_Typede	
е			
ContentionResolutionId_	bitstring length(48)	used in EUTRA_ASP_DrbDefs and	
Туре		EUTRA_ASP_Typedefs	

## HarqProcessList\_Type

TTCN-3 Record of Type		
Name	HarqProcessList_Type	
Comment	list of HARQ processes: each element shall be unique	
record length(014) of <u>HarqProcessId_Type</u>		

#### RRC\_MSG\_Request\_Type

TTCN-3 Union Type		
Name	RRC_MSG_Request_Type	
Comment	DL RRC PDU on CCCH or DCCH	
Ccch	DL_CCCH_Message	
Dcch	DL_DCCH_Message	

#### RRC\_MSG\_Indication\_Type

TTCN-3 Union Type		
Name	RRC_MSG_Indication_Type	
Comment	UL RRC PDU on CCCH or DCCH	
Ccch	UL_CCCH_Message	
Dcch	UL DCCH Message	

# D.6.2 Common\_Constants

#### **EUTRA\_CommonDefs: Constant Definitions**

TTCN-3 Basic Types			
tsc_EUTRA_MaxNu mberOfCells	integer	20	Maximum number of cells; in TS 36.508 in, clause 4.4.2 and 6.3.2.2 there are tables for cells being used in non-NAS and NAS test cases; in both cases less than 20 cells are listed

# D.6.3 RRC\_Nested\_Types

# RRC\_Nested\_Types: Basic Type Definitions

TTCN-3 Basic Types			
SiWindowLength_Type	SystemInformationBlockType1.si_Windo		
	wLength		
SiPeriodicity_Type	SchedulingInfoList[0].si_Periodicity		
PrioritizedBitRate_Type	LogicalChannelConfig.ul_SpecificParam		
	eters.prioritisedBitRate		
DI_Bandwidth_Type	CarrierBandwidthEUTRA.dl_Bandwidth		
UI_Bandwidth_Type	CarrierBandwidthEUTRA.ul_Bandwidth		
Ra_PreambleIndex_Type	RACH_ConfigDedicated.ra_PreambleIn		
	dex		
IntegrityProtAlgorithm_Ty	SecurityAlgorithmConfig.integrityProtAlg		
pe	orithm		
UE_Category_Type	UE_EUTRA_Capability.ue_Category		
TDD_SubframeAssignme	TDD_Config.subframeAssignment		
nt_Type			
SearchWindowSize_Type	SystemInformationBlockType8.searchW		
	indowSize		
SCellPathlossReferenceLi	UplinkPowerControlDedicatedSCell_r10		
nking_Type	.pathlossReferenceLinking_r10		
MAC_MainConfig_ScellDe	MAC_MainConfig.mac_MainConfig_v10		
activationTimer_Type	20.sCellDeactivationTimer_r10		
CrossSchedulingCarrierIn	CrossCarrierSchedulingConfig_r10.sche		
fo_Type	dulingCellInfo_r10.other_r10		
NotificationIndicator_r9_T	MBSFN_AreaInfo_r9.notificationIndicato		
ype	r_r9		
LogicalChannelIdentity_r	MBMS_SessionInfo_r9.logicalChannelId		
9_Type	entity_r9		
UE_Category_v1020_Typ	UE_EUTRA_Capability_v1020_IEs.ue_		
E HADO Detterm #42 Tr	Category_v1020		
E_HARQ_Pattern_r12_Ty	MAC_MainConfig.e_HARQ_Pattern_r12		
pe TTI Bundling Type	MAC MainConfigure CCH ConfigureDura		
TTI_Bundling_Type	MAC_MainConfig.ul_SCH_Config.ttiBun		
	dling		

# D.6.4 ASP\_CommonPart

Definition of ASP common parts for REQ-, CNF- and IND-ASPs

# D.6.4.1 ASP\_CommonPart\_Definitions

# D.6.4.1.1 Routing\_Info

#### **EUTRA\_CommonDefs: Constant Definitions**

TTCN-3 Basic Types			
tsc_MaxRB	integer	maxDRB + 3	DRBs + 3 SRBs
tsc_SRB0	integer	0	
tsc_SRB1	integer	1	
tsc_SRB2	integer	2	
tsc_DRB1	DRB_Identity	1	
tsc_DRB2	DRB_Identity	2	
tsc_DRB3	DRB_Identity	3	
tsc_DRB4	DRB_Identity	4	
tsc_DRB5	DRB_Identity	5	
tsc_DRB6	DRB_Identity	6	
tsc_DRB7	DRB_Identity	7	
tsc_DRB8	DRB_Identity	8	

#### **Routing\_Info: Basic Type Definitions**

TTCN-3 Basic Types				
SRB_Identity_Type	integer (tsc_SRB0, tsc_SRB1,	SRB0 to be covered as well		
O-mi-nA-man-n-di-nInfo-T	tsc_SRB2)			
CarrierAggregationInfo_T	Null_Type	place holder for additional routing information		
ype		for carrier aggregation		

#### RadioBearerId\_Type

TTCN-3 Union Type		
Name	RadioBearerId_Type	
Comment		
Srb	SRB Identity Type	
Drb	DRB_Identity	
Mrb	MRB Identity Type	

#### RoutingInfo\_Type

TTCN-3 Union Type		
Name	RoutingInfo_Type	
Comment		
None	Null Type	
RadioBearerId	RadioBearerId Type	

# D.6.4.1.2 Timing\_Info

#### Timing\_Info: Basic Type Definitions

TTCN-3 Basic Types		
SystemFrameNumber_Ty	integer (01023)	
pe		
SubFrameNumber_Type	integer (09)	

## SubFrameInfo\_Type

TTCN-3 Union Type		
Name	SubFrameInfo_Type	
Comment		
Number	SubFrameNumber Type	
Any	Null Type	no specific sub-frame (valid for REQ ASPs only)

# SystemFrameNumberInfo\_Type

TTCN-3 Union Type		
Name	SystemFrameNumberInfo_Type	
Comment		
Number	SystemFrameNumber Type	
Any	Null Type	no specific frame number (valid for REQ ASPs only)

## SubFrameTiming\_Type

TTCN-3 Record Type		
Name	SubFrameTiming_Type	
Comment		
SFN	SystemFrameNumberInfo Type	
Subframe	SubFrameInfo_Type	

# TimingInfo\_Type

TTCN-3 Union Type			
Name	TimingInfo_Type		
Comment			
SubFrame	SubFrameTiming Type		
Now	Null Type	to be used in REQ ASPs when there is no 'activation time'	
None	Null_Type	only to be used in SYSTEM_CTRL_CNF but not for EnquireTiming	

# D.6.4.2 REQ\_ASP\_CommonPart

## ReqAspControlInfo\_Type

TTCN-3 Record	Туре	
Name	ReqAspControlInfo_Type	
Comment		
CnfFlag	boolean	true => SS shall send CNF: when the REQ is with no timing information (no activation time), SS shall send the confirmation when the configuration is done, i.e. when the test case may continue. Example: when there is a configuration follow by a send event it shall not be necessary to have a wait timer in between but the CNF triggers the send event. If there are other triggers e.g. like the UE sending a message, CnfFlag shall be set to false by the test case to avoid racing conditions with the CNF and the signalling message. When there is an activation time SS shall send the CNF after the configuration has been scheduled; that means SS shall not wait until the activation time has been expired.
FollowOnFlag	boolean	false => no further (related) information true: further related information will be sent to SS (semantics depending on respective ASP)

## ReqAspCommonPart\_Type

TTCN-3 Record Type			
Name	ReqAspCommonPart_Type		
Comment			
CellId	EUTRA_CellId_Type		
RoutingInfo	RoutingInfo_Type		
TimingInfo	TimingInfo_Type		
ControlInfo	ReqAspControlInfo_Type		
CA_Info	CarrierAggregationInfo_Typ	opt	place holder for additional routing information for carrier
	<u>e</u>		aggregation

# D.6.4.3 CNF\_ASP\_CommonPart

#### ConfirmationResult\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	ConfirmationResult_Type		
Comment			
Success	Null_Type		
Error	integer	may contain SS specific error code; this will not be evaluated by TTCN	

# ${\bf CnfAspCommonPart\_Type}$

TTCN-3 Record Type		
Name	CnfAspCommonPart_Type	
Comment		
CellId	EUTRA_Cellid_Type	
RoutingInfo	RoutingInfo_Type	
TimingInfo	TimingInfo_Type	
Result	ConfirmationResult_Type	

## D.6.4.4 IND\_ASP\_CommonPart

#### IntegrityErrorIndication\_Type

TTCN-3 Record Type			
Name	IntegrityErrorIndicati	IntegrityErrorIndication_Type	
Comment			
Nas	boolean	NAS Integrity: set to true when received MAC does not match calculated MAC	
Pdcp	boolean	PDCP Integrity: set to true when received MAC does not match calculated MAC	

#### ErrorIndication\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	ErrorIndication_Type			
Comment				
Integrity	IntegrityErrorIndication Typ e	Integrity error: received MAC does not match calculated MAC		
System	integer	any other error: may be SS specific error code; this will not be evaluated by TTCN; e.g. an error shall be raised when the UE requests retransmission of an RLC PDU		

#### IndicationStatus\_Type

TTCN-3 Union Type		
Name	IndicationStatus_Type	
Comment		
Ok	Null Type	
Error	ErrorIndication Type	

#### IndAspCommonPart\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	IndAspCommonPart_Type			
Comment				
CellId	EUTRA_CellId_Type			
RoutingInfo	RoutingInfo_Type			
TimingInfo	TimingInfo Type			
Status	IndicationStatus_Type			
CA_Info	CarrierAggregationInfo_Typ	opt	place holder for additional routing information for carrier	
	<u>e</u>		aggregation	

## D.6.5 CA\_CommonDefs

Common definitions for carrier aggregation needed for configuration of the SS (EUTRA\_ASP\_TypeDefs) as well as for MAC test cases (EUTRA\_ASP\_DrbDefs)

#### **CA\_CommonDefs: Basic Type Definitions**

TTCN-3 Basic Types			
MAC_CTRL_ScellActDeac	ScellBitMap Type	36.321 clause 6.1.3.8	
t_Type			

## ScellBitMap\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	ScellBitMap_Type			
Comment				
Value	B7 Type	7 MSB bits the C Fields C7 to C1. 1 => the corresponding Scell is Active 0 => Inactive		
Reserved	B1_Type	LSBit Reserved. Shall be set to 0		

## PH\_Record\_Type

TTCN-3 Reco	TTCN-3 Record Type			
Name	PH_Record_Type			
Comment	36.321 clause 6.1.3.6a			
P_Bit	B1 Type		P bit: 1 indicates the UE applies power backoff due to power management	
V_Bit	B1_Type		V bit: Indicates if the PH value is based on a real transmission or a reference format.  For Type 1 PH, V=0 indicates real transmission on PUSCH and V=1 indicates that a PUSCH reference format is used	
Valve	B6 Type		The power headroom level. Ph Type 2 (if configured) for Pcell and Type 1 for Pcell and Scell	
Reserved	B2_Type	opt	2 reservid bits. Present if V=1	
PCMaxc	B6_Type	opt	Present if V=1	

## PH\_RecordList\_Type

TTCN-3 Record of Typ	TTCN-3 Record of Type		
Name	PH_RecordList_Type		
Comment	If simultaneousPUCCH-PUSCH is not configured at least oneType 1 PH record for Pcell is present.  Additional one record per Scell for which respective 'C' bit is set as 1.  If simultaneousPUCCH-PUSCH is configured then one PH Type 2 record for P cell followed by PH Type 1 record for P cell is present.  Additional one record per Scell for which respective 'C' bit is set as 1		
record length(19) of PH Record Type			

## MAC\_CTRL\_ExtPowerHeadRoom\_Type

TTCN-3 Record Type			
Name	MAC_CTRL_ExtPowerHeadRoom_Type		
Comment			
EPH_Octet1	ScellBitMap Type		
PH_RecordList	PH RecordList Type	At least one record for Pcell is present.  Additional one record per Scell for which respective 'C' bit is set as 1	

## DC\_PH\_RecordList\_Type

TTCN-3 Record of Typ	TTCN-3 Record of Type		
Name	DC_PH_RecordList_Type		
Comment	If simultaneousPUCCH-PUSCH is not configured at least oneType 1 PH record for Pcell is		
	present. Additional one record per PScell/Scell for which respective 'C' bit is set as 1. If simultaneousPUCCH-PUSCH is configured then one PH Type 2 record for Pcell followed one PH Type 2 record for PScell followed by PH Type 1 record for Pcell is present. Additional one record per PSCell/Scell for which respective 'C' bit is set as 1		
record length(110) of	PH Record Type		

#### MAC\_CTRL\_DC\_PowerHeadRoom\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	MAC_CTRL_DC_PowerHeadRoom_Type			
Comment				
DC_PH_Octet1	ScellBitMap Type			
DC_PH_Recor dList	DC PH RecordList Type	At least one record for Pcell is present.  Additional one record per PScell/Scell for which respective 'C' bit is set as 1		

# D.6.6 MBMS\_CommonDefs

Common definitions for MBMS needed for configuration of the SS

#### MBMS\_CommonDefs: Basic Type Definitions

TTCN-3 Basic Types		
Pmch_InfoIndex_Type	integer (0maxPMCH_PerMBSFN)	

#### MRB\_Identity\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	MRB_Identity_Type		
Comment	MTCH is uniquely identified by: - the logicalChannelIdentity in the mbms-SessionInfoList-r9 - the MBSFN area identity, - the MCH index in the pmch-InfoList-r9		
Mbsfn_Areald	MBSFN_Areald_r12		
PmchLogicalCh annel	PmchLogicalChannel Type		

### PmchLogicalChannel\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	PmchLogicalChannel_Type	
Comment		
Pmch_InfoInde	Pmch Infolndex Type	
Х		
LogicalChannel	LogicalChannelIdentity r9	
Identity	<u>Type</u>	

# D.7 CDMA2000\_ASP\_TypeDefs

# D.7.1 CDMA2000\_Common

Common definitions for CDMA2000 and CDMA2000 ASPs

## D.7.1.1 CDMA2000\_SystemContants

## CDMA2000\_ASP\_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_CDMA2000_Max	integer	8	Maximum number of CDMA2000
NumberOfCells	_		cells; in TS 36.508 in, clause 6.3.1.5 and 6.3.1.6 define 4 cells each for
			HRPD and 1XRTT; hence total is 8

## D.7.1.2 CDMA2000\_Routing

#### CDMA2000\_Routing: Basic Type Definitions

TTCN-3 Basic Types		
RLP_FlowId_Type	integer (030)	As per S.0024, clause 4.8.2.10 both
		MaxNumRLPFlowsFwd and
		MaxNumRLPFlowsRvs need to be in the
		range of 0x06(6) to 0x1F(31)
		As per X.S007 clause 10, the PDN ID and
		Flow ID identify a flow

#### RLP\_FlowIdList\_Type

TTCN-3 Record of Type	
Name	RLP_FlowIdList_Type
Comment	
record of RLP_FlowId_Type	

#### CDMA2000\_RoutingInfo\_Type

TTCN-3 Union Type		
Name	CDMA2000_RoutingInfo_Type	
Comment		
None	Null_Type	
RLP_FlowId	RLP_FlowId_Type	

## D.7.1.3 CDMA2000\_TimingInfo

## CDMA2000\_TimingInfo: Basic Type Definitions

TTCN-3 Basic Types		
HRPD_FrameNumber_Ty	integer	CDMA system time specified in units of 16
pe		slots i.e. 26.66 ms.
RTT1X_FrameNumber_Ty	integer	CDMA System Time, in integer multiples of 20
pe		ms

#### HRPD\_SubFrameInfo\_Type

TTCN-3 Union Type		
Name	HRPD_SubFrameInfo_Type	
Comment		
Number	SubFrameNumber Type	
Any	Null_Type	no specific sub-frame (valid for REQ ASPs only)

## HRPD\_Frame\_Type

TTCN-3 Union Type		
Name	HRPD_Frame_Type	
Comment		
Number	HRPD FrameNumber Type	
Any	Null Type	no specific TimeStamp (valid for REQ ASPs only)

## RTT1X\_Frame\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	RTT1X_Frame_Type		
Comment			
Number	RTT1X FrameNumber Typ		
	<u>e</u>		
Any	Null_Type	no specific TimeStamp	
		(valid for REQ ASPs only)	

## HRPD\_SubFrameTiming\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	HRPD_SubFrameTiming_Type	
Comment		
Frame	HRPD Frame Type	
Subframe	HRPD_SubFrameInfo_Typ	

## CDMA2000\_SubFrameTiming\_Type

TTCN-3 Union Type		
Name	CDMA2000_SubFrameTiming_Ty	pe
Comment		
HRPD	HRPD SubFrameTiming Type	HRPD Timing
RTT1X	RTT1X Frame Type	RTT1X Timing specified in terms of Frames only

## CDMA2000\_TimingInfo\_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	CDMA2000_TimingInfo_Type		
Comment			
SubFrame	CDMA2000 SubFrameTiming Ty		
	pe		
Now	Null_Type	to be used in REQ ASPs when there is no 'activation time'	
None	Null_Type	only to be used in SYSTEM_CTRL_CNF but not for	
		EnquireTiming	

## D.7.1.4 CDMA2000\_ReqAspCommonPart

## CDMA2000\_ReqAspControlInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CDMA2000_ReqAspControlInfo	o_Type	
Comment			
CnfFlag	boolean	true => SS shall send CNF: when the REQ is with no timing information (no activation time), SS shall send the confirmation when the configuration is done, i.e. when the test case may continue. Example: when there is a configuration follow by a send event it shall not be necessary to have a wait timer in between but the CNF triggers the send event or system Command. If there are other triggers e.g. like the UE sending a message, CnfFlag shall be set to false by the test case to avoid racing conditions with the CNF and the signalling message. When there is an activation time SS shall send the CNF after the configuration has been scheduled; that means SS shall not wait until the activation time has been expired.	
FollowOnFlag	boolean	false => no further (related) information true: further related information will be sent to SS; Currently this value is not foreseen to be used.	

## CDMA2000\_ReqAspCommonPart\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	CDMA2000_ReqAspCommonPart_Type	
Comment		
CellId	CDMA2000 Cellid Type	
RoutingInfo	CDMA2000_RoutingInfo_T	
	<u>ype</u>	
TimingInfo	CDMA2000 TimingInfo Ty	
	pe	
ControlInfo	CDMA2000 ReqAspContro	
	IInfo_Type	

## D.7.1.5 CDMA2000\_IndAspCommonPart

## CDMA2000\_ErrorIndication\_Type

TTCN-3 Record Type		
Name	CDMA2000_ErrorIndication	_Туре
Comment		
System	integer	any other error: may be SS specific error code; this will not be evaluated by TTCN; e.g. an error shall be raised when the UE requests retransmission of an RLC PDU

## CDMA2000\_IndicationStatus\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	CDMA2000_IndicationStatus_Type	
Comment		
Ok	Null_Type	
Error	CDMA2000_ErrorIndication_Type	

## CDMA2000\_IndAspCommonPart\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	CDMA2000_IndAspCommonPart_Type	
Comment		
CellId	CDMA2000 Cellid Type	
RoutingInfo	CDMA2000 RoutingInfo T	
	ype	
TimingInfo	CDMA2000_TimingInfo_Ty	
	<u>pe</u>	
Status	CDMA2000 IndicationStatu	
	s_Type	

## D.7.1.6 CDMA2000\_CnfAspCommonPart

## CDMA2000\_ConfirmationResult\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	CDMA2000_ConfirmationResult_Type		
Comment			
Success	Null_Type		
Error	integer	may contain SS specific error code; this will not be evaluated by TTCN	

#### CDMA2000\_CnfAspCommonPart\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CDMA2000_CnfAspCommonPart_Type		
Comment			
CellId	CDMA2000_CellId_Type		
RoutingInfo	CDMA2000 RoutingInfo T		
	<u>ype</u>		
TimingInfo	CDMA2000 TimingInfo Ty		
	<u>pe</u>		
Result	CDMA2000_ConfirmationR	•	Similar definition as EUTRA
	esult Type		

# D.7.2 CDMA2000\_PowerLevel

#### CDMA2000\_ASP\_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_CDMA2000_Atte	CDMA2000_Attenuation_Type	{Off:=true}	
nuation_Off			

#### CDMA2000\_PowerLevel: Basic Type Definitions

TTCN-3 Basic Types		
CDMA2000_InitialAttenuat	CDMA2000 Attenuation Type	Attenuation restricted to 'Off'
ion_Type	(tsc_CDMA2000_Attenuation_Off)	

#### CDMA2000\_Attenuation\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	CDMA2000_Attenuation_Type		
Comment	attenuation of the reference power		
Value	Attenuation Type	cell power reference power reduced by the given attenuation (value is in dB)	
Off	Null_Type	for non suitable off cell we specify an explicit "Off" value here	

## CDMA2000\_CellAttenuation\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	CDMA2000_CellAttenuation_Type	
Comment		
CellId	CDMA2000 Cellid Type	
Attenuation	CDMA2000_Attenuation_Ty	
	<u>pe</u>	

## CDMA2000\_CellAttenuationList\_Type

TTCN-3 Record of Type		
Name	Name CDMA2000_CellAttenuationList_Type	
Comment		
record length(1tsc CD	DMA2000 MaxNumberOfCells) of CDMA2000 CellAttenuation Type	

#### CDMA2000\_AbsoluteCellPower\_Type

TTCN-3 Record Type			
Name	CDMA2000_AbsoluteCellPower_Type		
Comment			
Powerloc	Powerloc_Type	TTCN writer Shall set same vale in all cells; SS shall have only one AWGN channel for all configured cells per frequency SS shall create a AWGN channel in first cell per frequency and ignore this in later cell creations on the same frequency; i.e. this channel is created along once for Cell 15 or 16 and one each per 17 and 19 similarly for RTT1X once for 19 or 20 and one each per 21 and 22	
Powerlor	Powerlor_Type	Total Transmit power in cell before attenuation	
PilotOffset	PilotOffset Type	Default -7	

## CDMA2000\_InitialCellPower\_Type

TTCN-3 Record Type			
Name	CDMA2000_InitialCellPower_Type		
Comment			
MaxReference Power	CDMA2000 AbsoluteCellP ower_Type	maximum value of cell reference power corresponding to Max lor/loc in power level table; a cell is initialised with this reference power; its value is the upper bound of the cell power during the test case	
Attenuation	CDMA2000_InitialAttenuation_Type	initial attenuation Cell is off	

# D.7.3 CDMA2000\_Data

Data primitives sent/received at CDMA2000\_RLP\_FLOW\_PORT

## CDMA2000\_Data: Basic Type Definitions

TTCN-3 Basic Types		
RLP_SDU_Type	octetstring	

#### RLP\_SDUList\_Type

TTCN-3 Record of Type	
Name RLP_SDUList_Type	
Comment	
record of RLP_SDU_Type	

## CDMA2000\_U\_PlaneData\_Type

TTCN-3 Union T	уре	
Name	CDMA2000_U_PlaneData_Type	
Comment	Union structure is provided for future	e possible enhancements
RLP Sdu	RLP SDUList Type RLP SDU's	

#### RLPFlow\_DataPerSubframe\_DL\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	RLPFlow_DataPerSubframe_DL_Type		
Comment	common definition for one or several SDUs to be sent in the subframe given by the subframe offset; SS shall raise an error indication (using SYSTEM_IND) when that is not possible NOTE 1: For RLP the data may be spread over more than one subframe; the TTCN implementation is responsible to calculate appropriate offsets accordingly		
SubframeOffset	integer	subframe offset relative to the absolute timing information given in the common part of the ASP; NOTE: if a RLP SDU takes more than one subframe, SubframeOffset specifies the first TTI	
SduList	CDMA2000 U PlaneData Type	list of PDUs/SDUs to be sent in one subframe	

## $RLPFlow\_DataPerSubframeList\_DL\_Type$

TTCN-3 Record of Type		
Name	RLPFlow_DataPerSubframeList_DL_Type	
Comment	list of user plane data to be sent in sub-frames given by the SubframeOffset in the single elements of the list; Timing: the start time for the whole sequence is given by the timing info of the ASP (common information); the timing for the respective data pdus is given by the SubframeOffset relative to the common timing info; design consideration: repetitions of this sequence are not foreseen (in which case the subframe offset could not be related to the timing info of the ASP)	
record of RI PFlow D	ataPerSubframe DI Type	

## CDMA2000\_U\_Plane\_Request\_Type

TTCN-3 Record Type		
Name	CDMA2000_U_Plane_Request_Type	
Comment	NOTE: formal type definition to allow later enhancements;	
	CDMA2000_U_Plane_Request_Type defines a sequence of subframes in which data shall be sent	
SubframeDataL	RLPFlow_DataPerSubfram	
ist	eList DL Type	

# D.7.4 CDMA2000\_CellConfiguration

## HRPD\_CellParameters\_Type

TTCN-3 Record	Type	
Name	HRPD_CellParameters_Type	
Comment	Parameters specific to HRPD	
SystemType	SystemType_Type	Specifies the system type of Channel As per Table 13.1-1 of C.S0024-C v2.0 0, 1, 2 are defined values and 3 to 255 are reserved
SubNetMask	B8_Type	7.11.6.2.2 of C.S0024-C v2.0  Sector Subnet identifier  set this field to the number of consecutive 1s in the subnet mask of the subnet to which this sector belongs
ColorCode	ColorCode_Type	7.11.6.2.1 of C.S0024-C v2.0 set to the colour code corresponding to this sector part of QuickConfig Over head message
CountryCode	MCC_Type	7.11.6.2.2 of C.S0024-C v2.0 three-digit BCD (binary coded decimal) encoded representation of the Mobile Country Code associated with this sector
OpenLoopAdju st	OpenLoopAdjust Type	9.4.6.2.6 of C.S0024-C v2.0; The negative of the nominal power to be used by access terminals in the open loop power estimate, expressed as an unsigned value in units of 1 dB. The value used by the access terminal is -1 times the value of this field
ReverseRateLi mit	ReverseRateLimit Type	Table 9.9.6.3-2 of C.S0024-C v2.0; set to the highest data rate that the access terminal is allowed to use on the Reverse Traffic Channel
MACIndex	ReverseLinkMACIndex_Typ e	C.S0024-C v2.0 clause 12.4.1.3.2.2 Forward channel MAC is derived from this based on table 12.4.1.3.2.2-1
PacketApp	PacketApplication Type	Multi Flow Packet Application to be used Enhanced Multi-Flow Packet Application subtype(0x0009) defined in C.S0087-A v2.0 or as per C.S0087-A v2.0, clause 2.3 the UE Shall not propose AEMPA during stream protocol negotiation (0xFFFE) in C.R1001
ControlChannel Rate	ControlChannelRate_Type	MAC index to be used for the Control Channel
PDN_ld	PDN Id Type	PDN_ID of the bearer
PDN_Address	PDN Address Type	the PDN Address to be provided to the UE in VSNCP ConfigAck
UATI	<u>UATI_Type</u>	UATI to be Assigned to the UE

## RTT1X\_CellParameters\_Type

TTCN-3 Record	Туре	
Name	RTT1X_CellParameters_Typ	e
Comment	Parameters specific to 1XRTT	
Reg_Zone	B12 Type	C.S0005-F v1.0 clause 3.7.2.3.2.1 and 2.6.5.1.5
		Registration Zone of the base station
		Reg_Zone, SID and NID shall be unique for each base station
Base_Class	B4 Type	C.S0005-F v1.0 clause 3.7.2.3.2.1
		Base station class.
		The base station shall set this field as follows:
		For Band Class 1 and 4, the base station shall set this field to
		'0001'; otherwise, the base station shall set this field to '0000'
MCC	B10_Type	3.7.2.3.2.13 and 2.3.1.1 of C.S0005-F v1.0
		encoding is int2bit (100*D1+10*D2+D3 -111,10) with digit 0 being
		mapped to 10
		binary representation of the Mobile Country Code associated
		with this sector
IMSI_11_12	B7 Type	3.7.2.3.2.13 and 2.3.1.2 of C.S0005-F v1.0
		encoding is int2bit (10*D2+D3 -11,7) with digit 0 being mapped to
		10
		binary representation of the Mobile Network Code associated
		with this sector
TMSI	TMSI_Type	the TMSI to be assigned to the MS
ProtRev	ProtRev_Type	Protocol Revision
Min_ProtRev	ProtRev Type	the minimum protocol revision supported by Base station
Sig_Encryption	EncryptionMode Type	Encryption mode for Common and dedicated signalling
Mode		
USerInfo_Encr	EncryptionMode_Type	User information Encryption mode
yptionMode		

## ModeSpecificCellParams\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	ModeSpecificCellParams_Type	
Comment		
RTT1X	RTT1X CellParameters Type	
HRPD	HRPD_CellParameters_Type	

## CDMA2000\_CellParameters\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CDMA2000_CellParameters_Type			
Comment				
Туре	CDMA2K_Type		Gives if cell is EHRPD or RTT1X	
CarrierFreq	CarrierFreqCDMA2000_Ty		Contains bandclass (5 bit ) and arfcn i.e. 11 bit channel number	
	<u>pe</u>			
PhysCellId	PhysCellIdCDMA2000 Typ		PN offset of pilot 0511	
	<u>e</u>			
CellGloballd	CellGlobalIdCDMA2000_Ty		Contains the 128 bit cell ID for HRPD and 47 bit cell ID for	
	<u>pe</u>		1XRTT	
SearchWindow	<u>SearchWindowSizeRecord</u>		contains the SearchWindow for Active, Neighbour & Remaining	
	<u>Type</u>		cells	

## CDMA2000\_CellConfigInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CDMA2000_CellConfigInfo_	Туре		
Comment				
CellParameters	CDMA2000 CellParameter		Parameters common to HRPD and RTT1X	
	s Type			
InitialCellPower	CDMA2000_InitialCellPowe		Power level parameters	
	<u>r Type</u>			
ModeSpecificC	ModeSpecificCellParams T		Parameters specific to RTT1X or HRPD	
ellParams	<u>ype</u>			

## CDMA2000\_CellConfigRequest\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	CDMA2000_CellConfigRequest_Type		
Comment			
AddOrReconfig ure	CDMA2000 CellConfigInfo Type	for cell configuration: CellId: identifier of the cell to be configured RoutingInfo: None TimingInfo: Now (for initial configuration and for reconfiguration in general) ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)	
Release	Null Type	to remove a cell completely - CellId: identifier of the cell to be released; eutra_Cell_NonSpecific, in case all cells shall be released RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)	

# D.7.5 CDMA2000\_HRPD

## D.7.5.1 CDMA2000\_PDN\_Defs

## CDMA2000\_PDN\_Defs: Basic Type Definitions

TTCN-3 Basic Types				
CDMA2000_AttachType	O3 Type	Defined values: 1: Initial Attach to a PDN, 3: Handover attach to a PDN. Rest undefined and not used		
IPv4_Address_Type	O4 Type	represents the IPv4 address as per 24.301 clause 9.9.4.9		
IPv6_Address_Type	O8_Type	represents the IPv6 interface identifier as per 24.301 clause 9.9.4.9		
PDN_Id_Type	B4 Type	indicates the PDN Id associated with the bearer PDN Identifier of the PDN for which the user data is sent. it is the low order 4 bits of, containing the PDN-ID identifies the PDN (i.e. one per default bearer) Reference X.S0057-E v1.0 clause 10.1.5; gives only low order 4 bits, and high order 4 bits are added as all zero's		
Flow_ld_Type	B4 Type	the lower 4 bits of the Flow Identifier, as defined in Table 15 of X.S0057-E v1.0 identify each reservation that is requested to be added or deleted the complete 8 bit flow Identifier is formed by PDN-ID and Flow-Id		

## IPv4v6\_Address\_Type

TTCN-3 Record Type			
Name	IPv4v6_Address_Type		
Comment			
IPv4	IPv4 Address Type		IP v4 address to be allocated
IPv6	IPv6 Address Type		IP v6 interface identifier to be allocated

## PDN\_Address\_Type

TTCN-3 Union Type			
Name	PDN_Address_Type		
Comment	based on 24.301 cl. 9.9.4.9		
IPv4	IPv4 Address Type	only IP v4 address to be allocated	
IPv6	IPv6 Address Type	only IP v6 interface identifier to be allocated	
IPv4v6	IPv4v6 Address Type	both IP v4 address and IP v6 interface identifier to be allocated	

## Flow\_ldList\_Type

TTCN-3 Record of Type		
Name	Flow_ldList_Type	
Comment		
record of Flow Id Type		

# D.7.5.2 CDMA2000\_SubProtocols

## LCP\_DetachInit\_Type

TTCN-3 Enumerated Type		
Name	LCP_DetachInit_Type	
Comment		
networkInitiated	X.S0057-E v1.0 clause 11.2	
UEInitiated	X.S0057-E v1.0 clause 11.1.2	

## DHCP\_Ind\_Type

TTCN-3 Record Type		
Name	DHCP_Ind_Type	
Comment		
RapidCommit	boolean	indicates if Rapid Comit option of DHCP is used

#### UATI104\_Type

TTCN-3 Union Type		
Name	UATI104_Type	
Comment		
Value	O13 Type	
None	Null_Type	

## UATI\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	UATI_Type		
Comment			
UATI24	O3 Type	Represents UATI(0:23), as per clause 6.3.7.2.2 of C.S0024-C v2.0	
UATI104	UATI104_Type	Represents UATI(127:24), as per clause 6.3.7.2.2 of C.S0024-C v2.0 if has to be assigned	

# D.7.5.3 HRPD\_Indications

## RegAndDefBearerEstInd\_Type

TTCN-3 Record	Туре		
Name	RegAndDefBearerEstInd	_Type	
Comment			
UATI_Assignm	Null Type		UATIAssignment is received
entCmpl			UATIComplete is received
InitialChAssign	Null_Type		Initial Traffic/Extended Channel/AlternateLink(Pre-registration)
Cmpl			Assignment procedure started UE has sent
			ConnectionRequest/AlternateLinkOpen message
			Traffic/Extended Channel /AlternateLink(Pre-registration)
			assignment is completedUE has sent TrafficChannelComplete(
			Route update protocol)/ AlternateLinkOpenComplete.
			In the registration and Default bearer establishment procedure,
			UE initiated Channel/Alternate Link can be released and
CCD Cartino	Niedl. Toma		configured, only first assignment is reported.
SCP_ConfigC	Null_Type		SCP (Session Configuration Protocol )ConfigurationRequest
mpl			message is received SCP (Session Configuration Protocol )ConfigurationResponse
			message is transmitted
Stream_Config	Null_Type		Stream Protocol Configuration ConfigurationRequest message is
Cmpl	<u>INUIL TYPE</u>		received
Опрі			Stream Protocol Configuration ConfigurationResponse message
			is transmitted
EMPA_MMPA	Null_Type		Enhanced Multi flow/Multi flow Packet application
ConfigCmpl	<u> </u>		ConfigurationRequest message is received
J - 1			Enhanced Multi flow/Multi flow Packet application
			ConfigurationComplete message is received
			EMPA ConfigurationResponse message or MMPA
			ConfigurationResponse is received corresponding to steps 30A
			TO 30C of table 4.5.2B.3-2
SessionNegotia	Null_Type	opt	SS initiated Session Negotiation has started; Session Negotiation
tionCmpl			has completed
DeviceAuthCm	Null Type	opt	Device level authentication has started; Device level
pl	–		authentication has completed
LocationUpdate Cmpl	Null_Type	opt	Location Update started; Location Update completed
EAP_AKA_Cm	Null_Type		Improved Extensible Authentication protocol for Authentication
pl	ivan Type		and Key agreement started RFC 5448
ρ.			* Message flow in X.S0057-E v1.0 clause 5.2.5.1 Authentication
			and Key agreement Completed
			optionally After entering PPP LCP Open State, PPP Version
			Capability Indication and/or Max PPP Inactivity Timer negotiation
			are completed
VSNCP_Config	Null Type		PDN connection establishment started and UE has sent
Cmpl			PPP Vendor Specific Network Control Protocol Configuration
			Request PDN Connection and default bearer establishment is
			completed
			with possible IPV4 address (optional) and or IPv6 interface ID
			(Mandatory) provided
DUOD O " O	DUOD Ind T		Attach type shall be Handover Attach
DHCP_ConfigC	DHCP_Ind_Type	opt	UE and SS decided for IPv4 address allocation by DHCP IPv4
mpl			address allocation completed by UE and SS
ICMDv6 Confin	Null Type	ont	Completion of IP Address through DHCP
ICMPv6_Config	Null Type	opt	UE optionally sent IPv6 stateless autoconfiguration Router solicitation message and SS has responded with IPv6 Router
Cmpl			Advertisement message
	l	1	1 / ta vortioon for the codage

## HRPD\_ZoneRegistrationInd\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	HRPD_ZoneRegistrationIn	d_Type		
Comment				
UATI_Assignm entCmpl	Null Type		UATIAssignment is received UATIComplete is received	
EAP_AKA_Cm pl	Null_Type		Improved Extensible Authentication protocol for Authentication and Key agreement started RFC 5448  Message flow in X.S0057-E v1.0 clause 5.2.5.1 Authentication and Key agreement Completed optionally After entering PPP LCP Open State, PPP Version Capability Indication and/or Max PPP Inactivity Timer negotiation are completed	
VSNCP_Config Cmpl	Null Type		PDN connection establishment started and UE has sent PPP Vendor Specific Network Control Protocol Configuration Request PDN Connection and default bearer establishment is completed with possible IPV4 address (optional) and or IPv6 interface ID (Mandatory) provided Attach type shall be Handover Attach	
DHCP_ConfigC mpl	DHCP Ind Type	opt	UE and SS decided for IPv4 address allocation by DHCP IPv4 address allocation completed by UE and SS Completion of IP Address through DHCP	
ICMPv6_Config Cmpl	Null Type	opt	UE optionally sent ICMPv6 Router solicitation message and SS has responded with IPv6 Router Advertisement message	

## DedicatedBearerRelInd\_Type

TTCN-3 Record Type			
Name	DedicatedBearerRelInd_Type		
Comment			
VSNP_Termina teCmpl	Null_Type		Dedicated bearers are deactivated/ released
SCP_ReleaseC mpl	Null_Type	opt	Session Configuration Protocol to release the reservations exclusively associated with the deleted bearer Reservation deletion completed

## DefaultBearerRelDetachInd\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DefaultBearerRelDetachInd_Type			
Comment				
VSNCP_Termi nateCmpl	Null_Type	opt	To Released configured default bearer and hence associated Dedicated bearer X.S0057-E v1.0 clause 11.3 and 11.1.1 To indicate the default bearer is released	
LCP_Terminate Cmpl	Null Type		To detach the UE X.S0057-E v1.0 clause 11.2 Detach completed	

## ${\bf Mobility From EUTRACmpl\_Type}$

TTCN-3 Record	TTCN-3 Record Type			
Name	MobilityFromEUTRACmpl_Type			
Comment				
ConnectionReq Rcvd	Null_Type	Received Tunneled HRPD Connection Request Message		
RouteUpdateIn d	Null Type	Received Tunneled HRPD Route Update Message		
TrafficChCmpl Rcvd	Null_Type	Received HRPD Traffic Channel Complete in HRPD RAT, after transmission of tunneled Traffic Channel Assignment, HRPD Silence Parameters and HRPD Open Loop Parameters		

## AdditionalDefBearerEstInd\_Type

TTCN-3 Record Type			
Name	AdditionalDefBearerEstInd_Type		
Comment			
VSNCP_Config Cmpl	Null Type		PDN connection establishment started and UE has sent PPP Vendor Specific Network Control Protocol Configuration Request PDN Connection and default bearer establishment is completed with possible IPV4 address (optional) and or IPv6 interface ID (Mandatory) provided Attach type shall be Handover Attach(pre-registration) or Initial Attach (if normal registration in HRPD cell)
DHCP_ConfigC mpl	DHCP_Ind_Type	opt	UE and SS decided for IPv4 address allocation by DHCP IPv4 address allocation completed by UE and SS Completion of IP Address through DHCP
ICMPv6_Config Cmpl	Null_Type	opt	UE optionally sent ICMPv6 Router solicitation message and SS has responded with IPv6 Router Advertisement message

## HRPD\_SystemIndication\_Type

TTCN-3 Union Type			
Name	HRPD_SystemIndication_Type		
Comment			
Error	Null Type	Used by SS to indicate any error; the Actual Error types reported in ASP common part in CDMA2000_IndicationStatus_Type	
InitialAccessPr obeRcvd	Null Type	Initial Access probe is received;	
RegAndDefBea rerEstInd	RegAndDefBearerEstInd Type	UE has successfully performed registration and default bearer establishment	
DedicatedBear erEstInd	Null_Type	Vendor specific network protocXol (RFC 3772) procedures to reestablish Dedicated bearer as defined in S.0057 clause 5.5.3.1 (BCM is MS/NW) or clause 5.5.4.1.1 (BCM = MS-Only) Bearer Configuration Mode	
		Dedicated bearers are (re) established	
DedicatedBear erRelInd	DedicatedBearerRelInd_Type	To indicate the Dedicated bearer is released	
DefaultBearerR elDetachInd	DefaultBearerRelDetachInd Type	To Release configured default bearer and hence associated Dedicated bearer X.S0057-E v1.0 clause 11.3 and 11.1.1 Dedicated bearers are deactivated/released To detach the UE X.S0057-E v1.0 clause 11.2 Detach completed	
MovedToDorm antMode	Null Type	The channels are released and UE is moved to PPP dormant mode/Air interface Idle.	
MobilityFromE UTRACmpl	MobilityFromEUTRACmpl Type	To confirm that Handover from EUTRAN is completed by receiving Traffic Channel Complete and the MessageSequence is same as in Traffic Channel Assignment	
AdditionalDefB earerEstInd	AdditionalDefBearerEstInd_Type	UE has successfully performed additional default bearer establishment (additional PDN)	
HRPD_ZoneRe gistrationInd	HRPD ZoneRegistrationInd Type	Initially pre-registered UE detects change in HRPD Zone ID in SIB and hence updates registration	

# D.7.5.4 HRPD\_Commands

## HRPD\_UE\_InitStateType

TTCN-3 Enumerated Type				
Name	HRPD_UE_InitStateType			
Comment	HRPD UE states as defined in C.S0057-E v1.0 clause 3.1			
idle_Null	In the Inactive/Null State, 1. there is no physical traffic channel between the UE and the eAN, and no connection exists between the eAN and the ePCF 2. no PPP link between the UE and the HSGW. 3. The UE may have a Universal Access Terminal Identifier (UATI) that has been assigned by an eHRPD eAN			
dormant	In the Dormant State, 1. no physical traffic channel exists between the UE and the eAN and no connection exists between the eAN and the ePCF. 2. PPP link between the UE and the HSGW 3. eHRPD DORMANT state equates to the "idle" state referred to in TS 23.402			
active_Connected	In the Active/Connected State,  1. a physical traffic channel exists between the UE and the eAN over which data may be sent.  A connection exists between the eAN and the ePCF, and between the ePCF and the HSGW,  2. there is a PPP link between the UE and the HSGW			
preregister	The UE is performing pre-register though a different Access network			

## RegAndDefBearerEst\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	RegAndDefBearerEst_Type			
Comment				
InitState	HRPD_UE_InitStateType			
RLP_FlowId	RLP FlowId Type	Associated RLP Flow ID		
AttachType	CDMA2000 AttachType	The Attach Type to be expected in VSNCP procedure		

## DefaultBearerRelDetach\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DefaultBearerRelDetach_Type			
Comment				
InitState	HRPD UE InitStateType			
PDN_Id	PDN Id Type	PDN_ID of the bearer		
RLP_FlowId	RLP FlowId Type	Associated RLP Folw ID		
UE_NW_Initiat	LCP DetachInit Type	If initiated by UE or Network		
ed				

## ${\bf Dedicated Bearer Est Rel\_Type}$

TTCN-3 Record	Туре	
Name	DedicatedBearerEstRel_Type	9
Comment		
InitState	HRPD UE InitStateType	PPP and Air Interface state of UE when the procedure is being executed
AssociatedDefa ultBearer	PDN Id Type	the PDN ID of the associated default bearer; Gives the APN with which additional Dedicated Bearer needs to be established
Flow_lds	Flow_ldList_Type	Flow_ID's of the multiple dedicated bearers to be Activated/Deactivated
RLP_FlowIds	RLP FlowIdList Type	Associated RLP Folw ID; There is one to one association between elements in Flow_IdList_Type and RLP_FlowIdList_Type; it's a TTCN programming error otherwise

## AdditionalDefBearerEst\_Type

TTCN-3 Record Type			
Name	AdditionalDefBearerEst_Type	эе	
Comment	used for multiple PDN connections		
InitState	HRPD UE InitStateType		
RLP_FlowId	RLP_FlowId_Type		Associated RLP Flow ID

## HRPD\_SystemCommand\_Type

TTCN-3 Union T		
Name	HRPD_SystemCommand_Type	
Comment	N. H. T.	100:
ReportInitialAcc esProbe	Null Type	SS is expected to report any possible Access probes received on HRPD Cell; will be used in situations where UE is not expected to camp on a HRPD Cell
RegAndDefBea rerEst	RegAndDefBearerEst Type	To complete registration and establish Default bearer; Initial UE State is Idle_Null State Indications up to VSNCP protocol and possible IP signalling over DHCPv4 and/or ICMPv6 is performed At the end of procedure, UE is still in Active/Connected state (not pre-registration); SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active and not pre-registration) and RegAndDefBearerEstInd as an indication for successful completion of procedure
DedicatedBear erEst	DedicatedBearerEstRel Type	Dedicated bearers are established/Activated by VSNP/EMPA protocol; PDN ID and RLP flow ID pairs are provided for each Dedicated bearer At the end of procedure, UE is still in Active/Connected state SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active) and DedicatedBearerEstInd as an indication for successful completion of procedure
MoveToDorma ntState	Null Type	UE is Active_Connected state and is moved to Dormant state SS is expected to send MovedToDormantMode
MoveToActiveS tate	RLP FlowIdList Type	UE is initially Dormant state; UE is made to Move to Active_Connected State List of RLP flow Id's (associated with default + dedicated bearer), need to be established are provided SS is expected to send InitialAccessProbeRcvd
DedicatedBear erRel	DedicatedBearerEstRel Type	Dedicated bearers are released/De-Activated by VSNP terminate and SCP release protocol; At the end of procedure, UE is still in Active/Connected state (not pre-registration) SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active and not pre-registration) and DedicatedBearerRelInd as an indication for successful completion of procedure
DefaultBearerR elDetach	DefaultBearerRelDetach_Type	Default bearer is released by VSNCP terminate and SCP release protocol  UE is made to detach by LCP protocol and Possible Channels are released  At the end of procedure, UE is in Idle_Null state  Notes:  When Detach is network initiated the sequence is  1. Default bearer (and hence all associated Dedicated bearers) released by VSNCP terminate  2. UE is detached by LCP terminate procedure  When Detach is UE initiated, UE may only perform LCP terminate procedure  SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active) and DefaultBearerRelDetachInd as an indication for successful completion of procedure
MobilityFromE UTRA	Null Type	Prepare CDMA SS for receiving tunnelled HRPD Connection Request and Route Update tunnelled in ULHandoverPreparationTransfer Respond with GCSNA encapsulated HRPD Silence Parameters and HRPD Open Loop Parameters, HRPD Traffic Channel Assignment to be sent tunnelled in MobilityFromEUTRACommand Receive Traffic Channel Complete in the HRPD Cell; After Receiving Traffic Channel Assignment, HRPD Silence Parameters and HRPD Open Loop Parameters embedded in EUTRA message MobilityFromEUTRACommand, UE has

A 1 177 179 179		Tuned to HRPD Radio and transmitted Traffic Channel Complete in the HRPD Cell SS is expected to send MobilityFromEUTRACmpl as an indication for successful completion of procedure
AdditionalDefB earerEst	AdditionalDefBearerEst_Type	To establish an additional PDN connection Initial UE State is Idle_Null State or procedure performed through pre-registration Indications up to VSNCP protocol and possible IP signalling over DHCPv4 and/or ICMPv6 is performed At the end of procedure, UE is still in Active/Connected state(not pre-registration); SS is expected to send InitialAccessProbeRcvd (only if initial state is not Active and not pre-registration) and AdditionalDefBearerEstInd as an indication for successful completion of procedure
HRPDZoneReg ister	RegAndDefBearerEst_Type	To update registration by a UE already registered and established Default bearer; Initial UE State is Idle_Null State Indications up to VSNCP protocol and possible IP signalling over DHCPv4 and/or ICMPv6 is performed At the end of procedure, UE is still in Active/Connected state (not pre-registration); SS is expected to send InitialAccessProbeRcvd(only if initial state is not Active and not pre-registration) and RegAndDefBearerEstInd as an indication for successful completion of procedure

## D.7.6 CDMA2000\_RTT1X

## D.7.6.1 RTT1X\_Indications

RTT1X call flows in RTT1x cell

Expected Sequence for Attach (Power Up Attach)

- 1. Initial AccessProbeRcvd
- 2. CS\_RegistrationStart(Powerup)
- 3. CS\_RegistrationCmpl

Expected Sequence for Detach (Power Down Attach)

- 1. Initial AccessProbeRcvd
- 2. CS\_RegistrationStart (PowerDown)
- 3. CS\_RegistrationCmpl

Expected Sequence for CSFB Call Establishment

- 1. Initial AccessProbeRcvd
- 2. CS\_CallEstStart (Origination/ PageResponse)
- 3. ChAssignCmpl (Extended Channel Assignment is sent)
- 4. CS\_CallEstCompleted (Acknowledgement Order Sent, Service Connect sent, Service Connect Completion received, Alert Sent/Received and ConnectOrder is received)

Expected Sequence for SRVCC call handover

1. HandoffCmpl

#### RTT1X\_CS\_CallType

TTCN-3 Enumerated Type		
Name	RTT1X_CS_CallType	
Comment		
mo	Call is UE originated	
mt	Call is UE Terminated	
mo_Emergency	UE originated Emergency Call	

## RTT1XAttachType

TTCN-3 Enumerated Type		
Name	RTT1XAttachType	
Comment	Ref C.S005 Table 2.7.1.3.2.1-1	
powerUpAttach	UE is doing Power up attach REG_Type = '0001'B; it was not previously attached	
powerDownAttach	UE is doing power down attach REG_Type = '0011'B; it was previously attached	
zoneBasedAttach	UE is doing Zone based attach REG_Type = '0010'B	
orderedAttach	UE is doing Ordered attach REG_Type = '0101'B	
OtherAttach	Any other Attach REG_Type does not equal above values	

## CS\_RegCmplInd\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CS_RegCmplInd_Type		
Comment			
CS_Registratio nCmpl	RTT1XAttachType	CS power up/down registration is completed UE Sent Registration message and received an L2 Acknowledgement Optionally SS can perform Authentication and has sent Registration Accepted order	

## CS\_Reg\_CallCmplInd\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	CS_Reg_CallCmplInd_Type	)	
Comment			
CS_Registratio nCmpl	RTT1XAttachType	opt	CS power up/down registration is completed; This is omit if implicit registration is done UE Sent Registration message and received an L2 Acknowledgement Optionally SS can perform Authentication and has sent Registration Accepted order UE can also do a implicit registration; i.e. reception of Origination/reconnect/CallRecovery/Page message by Base station is treated as implicit registration
CS_CallEstStar ted	RTT1X CS CallType		Received Origination message for MO and Page Response for MT
ChAssignCmpl	Null Type		(Extended) Channel Assignment procedure started UE has sent ConnectionRequestTraffic Extended Channel assignment is completedUE has sent TrafficChannelComplete
CS_CallEstCo mpleted	Null_Type		SS received Service Connect Completion(Mo) or ConnectOrder(MT) (i.e. User Accepted call)

## CS\_CallCmplInd\_Type

TTCN-3 Record Type			
Name	CS_CallCmplInd_Type		
Comment			
CS_CallEstStar	RTT1X_CS_CallType	Received Origination message for MO and Page Response for	
ted		MT	
ChAssignCmpl	Null_Type	(Extended) Channel Assignment procedure started completed	
CS_CallEstCo	Null_Type	SS received Service Connect Completion(MO) or	
mpleted		ConnectOrder(MT) (i.e. User Accepted call)	
IsEmergencyC	boolean	True indicates the established call is emergency call, false	
all		indicates a normal voice has been established	

## ECSFB\_CallCmplInd\_Type

TTCN-3 Record	Туре	
Name	ECSFB_CallCmplInd_Type	
Comment		
CS_CallEstStar ted	RTT1X CS CallType	Received Tunneled GCSNA encapsulated Origination message for MO and Page Response for MT call
HandoffCmpl	Null_Type	indicates SS has received HandoffComplete message and the call is established
CS_CallEstCo mpleted	Null_Type	SS received Service Connect Completion (MO) or ConnectOrder (MT) (i.e. User Accepted call)
IsEmergencyC all	boolean	True indicates the established call is emergency call, false indicates a normal voice has been established

## ECAM\_CS\_CallCmplInd\_Type

TTCN-3 Record Type			
Name	ECAM_CS_CallCmplInd_Type		
Comment			
CS_TunneledC allEstStarted	RTT1X CS CallType	Received Tunneled GCSNA encapsulated Origination message for MO and Page Response for MT call	
CS_CallEstStar ted	RTT1X CS CallType	Received Origination message for MO and Page Response for MT	
ChAssignCmpl	Null_Type	Extended Channel Assignment procedure started completed	
CS_CallEstCo mpleted	Null Type	SS received Service Connect[MO] or ConnectOrder[MT] (i.e User Accepted call)	
IsEmergencyC all	boolean	True indicates the established call is emergency call, false indicates a normal voice has been established	

## ECSFB\_CallRejInd\_Type

TTCN-3 Record	Туре	
Name	ECSFB_CallRejInd_Type	
Comment		
CS_CallEstRej ected	RTT1X CS CallType	SS Received tunneled 1xRTT Origination (M0)/Page Response (MT) message Respond with 1xRTT Release Order message
IsEmergencyC all	boolean	True indicates the established call is emergency call, false indicates a normal voice has been established

## RTT1X\_SystemIndication\_Type

TTCN-3 Union T	уре	
Name	RTT1X_SystemIndication_Type	
Comment		
Error	Null Type	Used by SS to indicate any error; the Actual Error types reported in ASP common part in CDMA2000_IndicationStatus_Type
InitialAccessPr obeRcvd	Null_Type	Initial Access probe is received
CS_Registratio nCmpl	CS RegCmplInd Type	CS power up/down registration is completed As registration message, and possible Authentication Registration accepted order are all sent received on f/r-csch UE at end is in Idle state
CS_Reg_CallC mplInd	CS Reg CallCmplInd Type	CS Registration /implicit registration and Call Indication MO or MT UE is in connected state with f/r dtch configured
CS_CallCmplIn d	CS CallCmplInd Type	CS Call Indication MO or MT UE is in connected state with f/r dtch configured
HandoffCmpl	Null Type	needed for SRVCC handover of an IMS voice call on LTE to 1XRTT indicates SS has received HandoffComplete message and the call is established
MovedToldleSt ate	Null_Type	The channels are released and UE is moved to Idle state. CS Call is released by exchange of Release order in both directions C.S0005-F v1.0 figure B3 and B4
ECSFB_CallC mplInd	ECSFB_CallCmplInd_Type	eCSFB Call Indication MO or MT UE is in connected state with f/r dtch configured
ECSFB_ECAM _CallCmplInd	ECAM CS CallCmplInd Type	eCSFB ECAM based Call Indication MO or MT UE is in connected state with f/r dtch configured
ECSFB_CallRe jInd	ECSFB_CallRejInd_Type	eCSFB Call Rejected MO or MT UE is not camping in 1xRTT

# D.7.6.2 RTT1X\_Commands

## CS\_Registration\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CS_Registration_Type			
Comment				
AttachType	RTT1XAttachType			
IsPreRegistrati	boolean		Indicates if it is done as pre registration	
on			Value is ignored if Attach Type is Power down	
			(Assumption detach happens only in 1XRTT cell)	
RAND	B32_Type	opt	RAND [From eNB] to be included in	
			CSFBParametersResponseCDMA2000,	
			HandoverFromEUTRAPreparationRequest	
			Value not present for power down registration	

## RTT1X\_SystemCommand\_Type

TTCN-3 Union T		
Name	RTT1X_SystemCommand_Type	
Comment		
ReportInitialAcc esProbe	Null Type	SS is expected to report any possible Access probes received on 1XRTT Cell; will be used in situations where UE is not expected to camp on a 1XRTT Cell
CS_Registratio n	CS Registration Type	Power up attach/ power down attach in 1xRTT cell or Pre registration (Power up attach) tunnelled through a different RAT in case of pre-registration attach, the CDMA SS starts by sending mobilityParameters to be tunnelled in CSFBParametersRequestCDMA2000 SS is expected to send InitialAccessProbeRcvd (only if initial state is not pre-registration) and CS_RegistrationCmpl as an indication for successful completion of procedure
CSFB_Call	RTT1X_CS_CallType	CSFB by a (pre-)registered UE If the call Type is mt, CDMA SS sends 1x RTT GCSNA encapsulated General Page to be tunnelled in DLInformation Transfer  SS is expected to send InitialAccessProbeRcvd and CS_CallCmplInd as an indication for successful completion of procedure
CS_Reg_CSFB _Call	RTT1X CS CallType	UE not previously pre-registered hence performs registration (Power up attach) and CSFB call Registration can be implicit registration SS is expected to send InitialAccessProbeRcvd and CS_Reg_CallCmplInd as an indication for successful completion of procedure
MobilityFromE UTRA_1XRTT	NullType	Prepare SS for Mobility from Eutra CDMA SS sends mobilityParameters to be tunnelled in HandoverFromEUTRAPreparationRequest Receive tunnelled 1xRTT GCSNA Encapsulated Origination message and MEID in ULHandoverPreparationTransfer Respond with GCSNA encapsulated 1xRTT Handoff Direction message to be sent tunnelled in MobilityFromEUTRACommand Receive HandoffCmpl in the 1xRTT Cell; SS is expected to send HandoffCmpl as an indication for successful completion of procedure
CS_OrderedRe gistration	CS_Registration_Type	ordered registration on (already registered) 1xRTT cell or Pre registration Power up attach) through a different RAT. SS triggers the procedure by sending Registration Request order (GCSNA encapsulated in case of pre-registration) and sends mobilityParameters to be tunnelled in CSFBParametersRequestCDMA2000 SS is expected to send InitialAccessProbeRcvd (only if initial state is not pre-registration) and CS_RegistrationCmpl as an indication for successful completion of procedure
E_CSFB_Call	RTT1X_CS_CallType	Prepare SS for Enhanced CSFB call If the call Type is mt, CDMA SS sends 1x RTT GCSNA encapsulated General Page to be tunneled in DLInformation Transfer CDMA SS sends mobilityParameters to be tunneled in HandoverFromEUTRAPreparationRequest Receive tunneled 1xRTT GCSNA Encapsulated Origination (M0)/Page Response (MT) message and MEID in ULHandoverPreparationTransfer Respond with GCSNA encapsulated 1xRTT Handoff Direction message to be sent tunneled in MobilityFromEUTRACommand Receive HandoffCmpl in the 1xRTT Cell; SS responds with Alert With Information (MT)/Sevice connect (MO) in the 1xRTT cell. SS receives Connect order (MT)/Service Connect Completion (MO)

		SS is expected to send ECSFB_CallCmplInd as an indication for succesful completion of procedure
E COED O-II	DTT4V OO O-UT	
E_CSFB_Call_	RTT1X_CS_CallType	Prepare SS for Enhanced CSFB call with Extended channel
ECAM		assignment
		If the call Type is mt, CDMA SS sends 1x RTT GCSNA
		encapsulated General Page to be tunneled in DLInformation Transfer
		CDMA SS sends mobilityParameters to be tunneled in
		HandoverFromEUTRAPreparationRequest
		Receive tunneled 1xRTT GCSNA Encapsulated Origination
		(M0)/Page Response (MT) message and MEID in
		ULHandoverPreparationTransfer
		Respond with GCSNA Encapsulated ECAM message to be
		sent tunneled in MobilityFromEUTRACommand
		Receive Origination in the 1xRTT Cell;
		After extended channel assignment, SS receives Connect order
		(MT)/Service Connect Completion (MO)
		SS is expected to send ECSFB_ECAM_CallCmplInd as an
		indication for succesful completion of procedure
E_CSFB_Call_ Reject	RTT1X CS CallType	Prepare SS for Enhanced CSFB call, which needs to be rejected If the call Type is mt, CDMA SS sends 1x RTT GCSNA
,,,,,,		encapsulated General Page to be tunneled in DLInformation
		Transfer
		CDMA SS sends mobilityParameters to be tunneled in
		HandoverFromEUTRAPreparationRequest
		Receive tunneled 1xRTT GCSNA Encapsulated Origination
		(M0)/Page Response (MT) message and MEID in
		ULHandoverPreparationTransfer
		Respond with GCSNA encapsulated 1xRTT Release Order
		message to be sent tunneled in DLInformation Transfer
		SS is expected to send ECSFB_CallRejInd as an indication for
		succesful completion of procedure

# D.7.7 System\_Interface

## CDMA2000\_SystemRequest\_Type

TTCN-3 Union Type			
Name	CDMA2000_SystemRequest_Type		
Comment			
Cell	CDMA2000_CellConfigRequest_	configure/release a cell	
	Type		
CellAttenuation	CDMA2000 CellAttenuationList		
List	Type		

## CDMA2000\_SystemConfirm\_Type

TTCN-3 Union Type		
Name	CDMA2000_SystemConfirm_Type	
Comment	confirmations for system configuration; in general to be sent after the configuration has been done	
Cell	Null_Type	(no further parameters from SS)
CellAttenuation List	Null Type	(no further parameters from SS)  NOTE 1: the confirmation shall be sent when all cells have changed power levels  NOTE 2: for the CellId in the common ASP part the same rules are applied as for the CDMA2000 SYSTEM REQ

## CDMA2000\_SYSTEM\_CTRL\_REQ

TTCN-3 Recor	TTCN-3 Record Type		
Name	CDMA2000_SYSTEM_CTRL_R	CDMA2000_SYSTEM_CTRL_REQ	
Comment			
Common	CDMA2000 ReqAspComm onPart Type	TimingInfo depends on respective primitive:	
Request	CDMA2000_SystemReque st_Type	- Cell TimingInfo: 'now' (in general) - CellAttenuationList TimingInfo: 'now' (in general, but activation time may be used also)	

## CDMA2000\_SYSTEM\_CTRL\_CNF

TTCN-3 Record	TTCN-3 Record Type			
Name	CDMA2000_SYSTEM_CTRL_CNF			
Comment				
Common	CDMA2000 CnfAspComm onPart_Type		TimingInfo is ignored by TTCN => SS may set TimingInfo to "None"	
Confirm	CDMA2000 SystemConfir m_Type			

## CDMA2000\_SystemCommand\_Type

TTCN-3 Union Type		
Name	CDMA2000_SystemCommand_Type	
Comment		
HRPD	HRPD_SystemCommand_Type	HRPD Specific System commands
RTT1X	RTT1X_SystemCommand_Type	1XRTT specific System commands

#### CDMA2000\_SYSTEM\_CMD

TTCN-3 Record Type			
Name	CDMA2000_SYSTEM_CMD		
Comment			
Common	CDMA2000_ReqAspComm onPart_Type	Routing info will be none generally; TimingInfo is generally now but activation time may be used also for all System commands Cnf and Follow on flags are both false	
Command	CDMA2000 SystemComm and Type	HRPD or 1XRTT System commands	

## CDMA2000\_SystemIndication\_Type

TTCN-3 Union T	уре
Name	CDMA2000_SystemIndication_Type
Comment	
HRPD	HRPD SystemIndication Type
RTT1X	RTT1X SystemIndication Type

## CDMA2000\_SYSTEM\_IND

TTCN-3 Reco	TTCN-3 Record Type		
Name	CDMA2000_SYSTEM_IND		
Comment			
Common	CDMA2000 IndAspCommo nPart_Type	The SS shall provide TimingInfo depending on the respective indication:	
Indication	CDMA2000_SystemIndication Type	- Error TimingInfo: related to the error (if available) - HRPD/RTT1X Procedure completion The timing info corresponding to logical completion of the complete procedure includes completion of all sub protocols	

## CDMA2000\_RLP\_FLOW\_COMMON\_IND

TTCN-3 Record Type				
Name	CDMA2000_RLP_FLOW_CO	CDMA2000_RLP_FLOW_COMMON_IND		
Comment	ASP to receive PDUs from RL	ASP to receive PDUs from RLP Packet Flows		
Common	CDMA2000_IndAspCommo nPart_Type	CellId : identifier of the cell RoutingInfo : RLP Flow id TimingInfo : time when RLP SDU's has been completely received		
Data	CDMA2000 U PlaneData Type			

## CDMA2000\_RLP\_FLOW\_COMMON\_REQ

TTCN-3 Record Type		
Name	CDMA2000_RLP_FLOW_COM	MON_REQ
Comment	ASP to send PDUs to RLP Pack	et flows
Common	CDMA2000_ReqAspComm onPart_Type	CellId: identifier of the cell RoutingInfo: RLP Flow id TimingInfo: starting point when to start sending sequence of data PDUs e.g. TimeStampLong_Type = X, subframe number = x; U_Plane.SubframeDataList(i).SubframeOffset := offset_i; => U_Plane.SubframeDataList(i).PduSduList shall be sent out at TimeStampLong_Type = X + ((x + offset_i) / 4); subframe number = (x + offset_i) mod 4 ControlInfo: CnfFlag:=false; FollowOnFlag:=false
U_Plane	CDMA2000 U Plane Request Type	The state of the s

## CDMA2000\_SYSTEM\_PORT

TTCN-3 Port	TTCN-3 Port Type		
Name	CDMA2000_SYSTEM_PORT		
Comment	CDMA2000 PTC: Port for system configuration		
out	CDMA2000 SYSTEM CTRL RE		
	<u>Q</u>		
in	CDMA2000_SYSTEM_CTRL_CN		
	E		

## CDMA2000\_SYSCMD\_IND\_PORT

TTCN-3 Port Type	
Name	CDMA2000_SYSCMD_IND_PORT
Comment	CDMA2000 PTC: Port for system indications/Commands
out	CDMA2000 SYSTEM CMD
in	CDMA2000 SYSTEM IND

#### CDMA2000\_RLP\_FLOW\_PORT

TTCN-3 Port Type	
Name	CDMA2000_RLP_FLOW_PORT
Comment	CDMA2000 PTC: Port for RLP SDU's to be sent on RLP packet data streams
out	CDMA2000 RLP FLOW COMM
	ON REQ
in	CDMA2000_RLP_FLOW_COMM
	ON_IND

# D.8 CDMA2000\_CommonDefs

type definitions used by CDMA2000 and EUTRA

## CDMA2000\_CommonDefs: Basic Type Definitions

TTCN-3 Basic Types		
BandclassCDMA2000_Ty	integer (031)	Band class defined as in 36.331 ASN.1
pe		definition for BandclassCDMA2000
ARFCN_ValueCDMA2000	integer (02047)	ARFCN for CDMA2000 cell as in 36.331
_Type		ASN.1 definition for ARFCN_ValueCDMA2000
PhysCellIdCDMA2000_Ty	integer (0511)	PN offset for CDMA2000 cell as in 36.331
pe		ASN.1 definition for PhysCellIdCDMA2000
ProtRev_Type	integer (0255)	protocol revision
OpenLoopAdjust_Type	integer (0255)	9.4.6.2.6 of C.S0024-C v2.0
BCD_Digit_Type	integer (09)	To represent BCD digit of MCC
TMSI_Code_Type	O4 Type	
EncryptionMode_Type	integer (07)	C.S0005-F v1.0 table 3.7.4.5-1 & 3.7.5.7-3
		0 Encryption disabled
		1 Encryption with ORYX algorithm for User
		Info and
		Enhanced Cellular Msg Encryption
		Algorithm for Signalling
		2 Encryption with Rijndael algorithm
		3-7 reserved
TMSI_ZoneLen_Type	integer (18)	TMSI Zone Length; On encoding this is
		encoded to B4_Type
SectorID_HRPD_Type	B128_Type	Sector ID for HRPD as in 36.331 ASN.1
		definition for
		CellGlobalIdCDMA2000.cellGlobalIdHRPD
PilotOffset_Type	integer (-310)	Represents the offset i.e. Pilot Channel power
		to total cell power(dB);
		By default shall be set to -7
		127 selected Max value by 7 bits
Powerlor_Type	integer (-1270)	Represents the cell total Tx power lor
		(dBm/1.23 MHz)
Powerloc_Type	integer (-1270)	Represents the cell total AWGN power loc
		(dBm/1.23 MHz) which is independent of cell
SystemType_Type	integer (0255)	0 to 2 are allowed and 3 to 255 are reserved
	(2.22)	13.1 of C.S0024-C v2.0
ColorCode_Type	integer (0255)	7.11.6.2.1 of C.S0024-C v2.0
ReverseLinkMACIndex_T	integer (0383)	C.S0024-C v2.0 clause 12.4.1.3.2.2
ype		

## MCC\_Type

TTCN-3 Record of Type	
Name	MCC_Type
Comment	Represents Mobile Country Code
record length (3) of BCD_Digit_Type	

## TMSI\_Zone\_Type

TTCN-3 Record of Type	
Name	TMSI_Zone_Type
Comment	TMSI Zone 1 to 8 octets
record length (18) of B8 Type	

## TMSI\_Type

TTCN-3 Record Type		
Name	TMSI_Type	
Comment	Globally unique TMSI as defined in C.S0005-F v1.0 clause 3.7.2.3.2.19	
TMSI_ZoneLen	TMSI ZoneLen Type	Length of TMSI_Zone 18
TMSI_Zone	TMSI_Zone_Type	TMSI_ZoneLen octets of TMSI_Zone
TMSI_Code	TMSI Code Type	TMSI code

## $SectorID\_RTT1X\_Type$

TTCN-3 Record Type			
Name	SectorID_RTT1X_Type		
Comment		Sector ID for 1XRTT acc. to C.S0005-F v1.0 clause 3.7.2.3.2.1 and as in 36.331 ASN.1 clause 6.3.4, definition of CellGlobalIdCDMA2000.cellGlobalId1XRTT	
Baseld	B16 Type	Base station identification.  The base station shall set this field to its identification number	
NID	B16_Type	Network identification This field serves as a sub-identifier of a system as defined by the owner of the SID. The base station shall set this field to the network identification number for this network	
SID	B15_Type	System identification, set to the system identification number for this system	

## CarrierFreqCDMA2000\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	CarrierFreqCDMA2000_Type	
Comment	Carrier Frequency for CDMA2000 cell as in 36.331 ASN.1 definition for CarrierFreqCDMA2000; contains Band class 5 bit and Channel number 11 bit part of Sector Channel over head message contained in 24 bit Channel IE	
BandClass	BandclassCDMA2000 Typ e	
ARFCN	ARFCN_ValueCDMA2000 Type	

## CDMA2K\_Type

TTCN-3 Enumerated Type	
Name	CDMA2K_Type
Comment	CDMA 2000 Type for CDMA2000 cell as in 36.331 ASN.1 definition for CDMA2000-Type
type1XRTT	
typeHRPD	

## CellGloballdCDMA2000\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	CellGlobalIdCDMA2000_Type	
Comment	CDMA 2000 Type Sector ID of the Cell as in 36.331 ASN.1 definition CellGlobalIdCDMA2000	
RTT1X	SectorID RTT1X Type	
HRPD	SectorID HRPD Type	

# ReverseRateLimit\_Type

TTCN-3 Enumerated Type		
Name	ReverseRateLimit_Type	
Comment	Table 9.9.6.3-2 of C.S0024-C v2.0; set to the highest data rate that the access terminal is allowed to use on the Reverse Traffic Channel; 10 Reserved values	
kbps0		
kbps9_6		
kbps19_2		
kbps38_4		
kbps76_8		
kbps153_6		
resrv1		
resrv2		
resrv3		
resrv4		
resrv5		
resrv6		
resrv7		
resrv8		
resrv9		
resrv10		

## PacketApplication\_Type

TTCN-3 Enumerated Type	
Name	PacketApplication_Type
Comment	Type of Packet Application to be used in Stream protocol
enhMultiFlowPacketA	
рр	

## ControlChannelRate\_Type

TTCN-3 Enumerated Type				
Name ControlChannelRate_Type				
Comment	Determines the MAC configuration for Control Channel			
macIndex2				
macIndex3				

## CDMA2000\_CellId\_Type

TTCN-3 Enumerated Type				
Name	CDMA2000_CellId_Type			
Comment				
cdma2000_Cell_Non				
Specific				
cdma2000_Cell15	HRDP Cell			
cdma2000_Cell16	HRDP Cell			
cdma2000_Cell17	HRDP Cell			
cdma2000_Cell18	HRDP Cell			
cdma2000_Cell19	RTT1X Cell			
cdma2000_Cell20	RTT1X Cell			
cdma2000_Cell21	RTT1X Cell			
cdma2000_Cell22	RTT1X Cell			

### SearchWindowSizeRecord\_Type

TTCN-3 Record	TTCN-3 Record Type				
Name	SearchWindowSizeRecord_T	уре			
Comment					
SearchWindow _Active	SearchWindowSize_Type	Search Window for Active Cells			
SearchWindow _Neighbor	SearchWindowSize Type	Search Window for Neighbour Cells			
SearchWindow _Remaining	SearchWindowSize_Type	Search Window for Rest Cells			

# D.9 EUTRA\_ASP\_CDMA2000TunnellingDefs

ASP definitions for tunnelling of CDMA2000 messages e.g. during CDMA2000 pre-registration

#### EUTRA\_ASP\_CDMA2000TunnellingDefs: Basic Type Definitions

TTCN-3 Basic Types		
TunneledInfoCDMA2000	octetstring	
MEID_Type	ULHandoverPreparationTransfer_r8_IEs	
	.meid	
CDMA2000_MSG_REQ	CDMA2000_UL_Container_Type	
CDMA2000_MSG_IND	CDMA2000 DL Container Type	

### **UL\_TunneledInfoCDMA2000**

TTCN-3 Record Type				
Name	UL_TunneledInfoCDMA2000			
Comment				
Msg	TunneledInfoCDMA2000		OCTET STRING	
Meid	MEID_Type	opt	ASN.1 type: BIT STRING (SIZE (56)) used to tunnel meid received from UE in ULHandoverPreparationTransfer for 1xRTT, not present other wise	

#### CDMA2000\_UL\_Container\_Type

TTCN-3 Record Type				
Name	CDMA2000_UL_Container_Type			
Comment				
CDMA2000Typ	CDMA2000_Type		ASN.1 type: type1XRTT, typeHRPD	
е	·			
UL_Msg	UL_TunneledInfoCDMA200			
	<u>0</u>			

#### DL\_TunneledInfoCDMA2000

TTCN-3 Record Type				
Name	DL_TunneledInfoCDMA2000			
Comment				
Msg	TunneledInfoCDMA2000		OCTET STRING	

#### CDMA2000\_DL\_Container\_Type

TTCN-3 Record Type			
Name	CDMA2000_DL_Container_Type		
Comment			
CDMA2000Typ	CDMA2000_Type		ASN.1 type: type1XRTT, typeHRPD
е			
DL_Msg	DL_TunneledInfoCDMA200		OCTET STRING
	<u>0</u>		

#### CDMA2000\_TUNNELLING\_PORT

TTCN-3 Port Type			
Name	CDMA2000_TUNNELLING_PORT		
Comment	EUTRA PTC: Port to deal with tunnelling of CDMA2000 messages		
out	CDMA2000 MSG REQ		
in	CDMA2000_MSG_IND		

# D.10 EUTRA\_ASP\_VirtualNoiseDefs

ASP definitions for virtual noise generation in EUTRA cells.

The noise is configured for an already existing EUTRA cell.

For UEs with 2 antenna connectors the AWGN (Additive white Gaussian noise) signals applied to each receiver antenna connector shall be uncorrelated.

### **EUTRA\_ASP\_VirtualNoiseDefs: Basic Type Definitions**

TTCN-3 Basic Types						
EUTRA_VngConfigConfir	Null Type					
m_Type						

## EUTRA\_VngConfigInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	EUTRA_VngConfigInfo_Type			
Comment				
Bandwidth	DI Bandwidth Type	Bandwidth to be used for the noise (in general the same bandwidth as for the associated EUTRA cell)		
NocLevel	integer	Noc level; calculation is according to 36.523-3 cl 7.22		

## EUTRA\_VngConfigRequest\_Type

TTCN-3 Union	TTCN-3 Union Type			
Name	EUTRA_VngConfigRequest_Type			
Comment		configure/activate noise for a given cell;		
	NOTE: it is assumed the associated	d EUTRA cell has been created beforehand		
Configure	EUTRA VngConfigInfo Type	configuration of the virtual noise generator; regardless of the power level the noise generator is off before it gets activated for this cell; whether the configuration can be changed during a test is FFS but if so the noise generator shall be deactivated for this cell		
Activate	Null_Type	noise is activated (switched on) for the given cell acc. to the previous configuration; while being active the configuration shall not be modified		
Deactivate	Null_Type	deactivate noise for given cell		

#### **EUTRA\_VNG\_CTRL\_REQ**

TTCN-3 Recor	TTCN-3 Record Type		
Name	EUTRA_VNG_CTRL_REQ		
Comment			
Common	ReqAspCommonPart Type	CellId: as for the associated EUTRA cell RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false	
Request	EUTRA_VngConfigRequest _Type		

## EUTRA\_VNG\_CTRL\_CNF

TTCN-3 Record Type			
Name	EUTRA_VNG_CTRL_CNF		
Comment			
Common	CnfAspCommonPart Type	TimingInfo is ignored by TTCN (apart from EnquireTiming) => SS may set TimingInfo to "None"	
Confirm	EUTRA_VngConfigConfirm Type		

## EUTRA\_VNG\_PORT

TTCN-3 Port Type		
Name	EUTRA_VNG_PORT	
Comment	EUTRA PTC: Port for virtual noise generator	
out	EUTRA VNG CTRL REQ	
in	EUTRA_VNG_CTRL_CNF	

# D.11 UTRAN\_ASP\_VirtualNoiseDefs

ASP definitions for virtual noise generation in UTRAN cells.

The noise is configured for an already existing UTRAN cell.

NOTE: For the time being VNG is applicable for UTRAN FDD only as acc. to TS 36.304 clause 5.2.4.5 there is no quality based measurement for UTRAN TDD, GERAN or CDMA2000

#### UTRAN\_ASP\_VirtualNoiseDefs: Basic Type Definitions

TTCN-3 Basic Types		
UTRAN_VngConfigConfir	Null Type	
m_Type		

#### UTRAN\_VngConfigInfo\_Type

TTCN-3 Record	Туре		
Name	UTRAN_VngConfigInfo_Typ	е	
Comment			
locLevel	integer		loc level; calculation is testcase specific

#### UTRAN\_VngConfigRequest\_Type

TTCN-3 Union	Туре		
Name	UTRAN_VngConfigRequest_Type	e	
Comment		configure/activate noise for a given cell;	
	NOTE: it is assumed the associate	d UTRAN cell has been created beforehand	
Configure	UTRAN_VngConfigInfo_Type	configuration of the virtual noise generator; regardless of the power level the noise generator is off before it gets activated for this cell; in case the configuration needs to be changed during a test, the noise generator shall be deactivated for this cell	
Activate	Null Type	noise is activated (switched on) for the given cell acc. to the previous configuration; while being active the configuration shall not be modified	
Deactivate	Null Type	deactivate noise for given cell	

#### UTRAN\_VNG\_CTRL\_REQ

TTCN-3 Record	TTCN-3 Record Type		
Name	UTRAN_VNG_CTRL_REQ		
Comment			
CellId	integer	id of associated UTRAN cell	
Request	UTRAN VngConfigRequest		
	<u>Type</u>		

#### UTRAN\_VNG\_CTRL\_CNF

TTCN-3 Record Type			
Name	UTRAN_VNG_CTRL_CNF		
Comment			
CellId	integer	id of associated UTRAN cell	
Confirm	UTRAN VngConfigConfirm		
	_Type		

## UTRAN\_VNG\_PORT

TTCN-3 Port Type		
Name	UTRAN_VNG_PORT	
Comment	UTRAN PTC: Port for virtual noise generator	
out	UTRAN VNG CTRL REQ	
in	UTRAN VNG CTRL CNF	

# D.12 WLAN\_ASP\_TypeDefs

## WLAN\_ASP\_TypeDefs: Constant Definitions

TTCN-3 Basic Types			
tsc_WLAN_MaxNum berOfCells	integer	3	Only one cell is foreseen to be used. defined 3 just for completeness.

#### WLAN\_ASP\_TypeDefs: Basic Type Definitions

TTCN-3 Basic Types		
WLAN_ChannelNumber_T ype	integer (12047)	Channel Number of WLAN Channel 1 to 14 belong to 2.4 GHz ISM band 131-138 belong to 3.6 GHz ISM band 36,40,44,48,52,56,60,64,100,104,108,112,116 ,120,124,128,132,136,140,149,153,157,161&1 65 belong to 5Ghz ISM band Other channel numbers may be defined in future for other bands and are reserved until defined Channel number uniquely identifies the frequency
WLAN_BeaconRSSI_Type	integer (0255)	WLAN Beacon RSSI is defined in IEEE 802.11-2012, Part 11 table 6.7 as integer - 10040 but defined in 36.331/25.331 as integer(0255) so actual beacon RSSI = value -100, and values 141255 are not used or spares
WLAN_ChannelUtilization Type	integer (0255)	As defined in IEEE 802.11-2012, Part 11 clause 8.4.2.20 used in BSS load element
WLAN_TimeStamp_Type	O8 Type	TimeStamp field (TSF) timer in microseconds as defined in IEEE 802.11-2012 clause 8.4.1.10

## WLAN\_Band\_Type

TTCN-3 Enumerated Type		
Name	WLAN_Band_Type	
Comment		
Band2_4Ghz	Band2_4Ghz = 2.4 GHz ISM band	
Band5Ghz	Band5Ghz = 5Ghz ISM band	
Band3 6Ghz	Band3_6Ghz = 3.6 GHz ISM band	

# WLAN\_CellId\_Type

TTCN-3 Enumerated Type		
Name	WLAN_CellId_Type	
Comment		
wlan_Cell_NonSpecifi		
С		
wlan_Cell27	WLAN AP in EUTRA environment	
wlan_Cell39	WLAN AP in UTRA environment	

# WLAN\_RoutingInfo\_Type

TTCN-3 Union T	ype	
Name	WLAN_RoutingInfo_Type	
Comment		
None	Null_Type	place holder for any possible extensions, currently only none defined

# WLAN\_TimingInfo\_Type

TTCN-3 Union Type		
Name	WLAN_TimingInfo_Type	
Comment		
TimeStamp	WLAN TimeStamp Type	
Now	Null_Type	to be used in REQ ASPs when there is no 'activation time'
None	Null Type	only to be used in WLAN_AP_SYSTEM_CTRL_CNF

# $WLAN\_ReqAspControlInfo\_Type$

TTCN-3 Record	Туре	
Name	WLAN_ReqAspControlInfo_T	уре
Comment		
CnfFlag	boolean	true => SS shall send CNF: when the REQ is with no timing information (no activation time), SS shall send the confirmation when the configuration is done, i.e. when the test case may continue. Example: when there is a configuration follow by a send event it shall not be necessary to have a wait timer in between but the CNF triggers the send event or system Command. If there are other triggers e.g. like the UE sending a message, CnfFlag shall be set to false by the test case to avoid racing conditions with the CNF and the signalling message. When there is an activation time SS shall send the CNF after the configuration has been scheduled; that means SS shall not wait until the activation time has been expired.
FollowOnFlag	boolean	false => no further (related) information true: further related information will be sent to SS; Currently this value is not foreseen to be used.

# WLAN\_ReqAspCommonPart\_Type

TTCN-3 Recor	TTCN-3 Record Type	
Name	WLAN_ReqAspCommonPart_Type	
Comment		
CellId	WLAN Cellid Type	
RoutingInfo	WLAN RoutingInfo Type	
TimingInfo	WLAN TimingInfo Type	
ControlInfo	WLAN RegAspControlInfo	
	Type	

# WLAN\_ErrorIndication\_Type

TTCN-3 Record	Туре		
Name	WLAN_ErrorIndication_Type	WLAN_ErrorIndication_Type	
Comment			
System	integer	any other error: may be SS specific error code; this will not be evaluated by TTCN; e.g. an error shall be raised when the UE performs an out of sequence signalling	

# WLAN\_IndicationStatus\_Type

TTCN-3 Union	TTCN-3 Union Type		
Name	WLAN_IndicationStatus_Type		
Comment			
Ok	Null_Type		
Error	WLAN_ErrorIndication_Type		

# WLAN\_IndAspCommonPart\_Type

TTCN-3 Record	TTCN-3 Record Type	
Name	WLAN_IndAspCommonPart_Type	
Comment		
CellId	WLAN Cellid Type	
RoutingInfo	WLAN_RoutingInfo_Type	
TimingInfo	WLAN_TimingInfo_Type	
Status	WLAN_IndicationStatus_Ty	
	<u>pe</u>	

# WLAN\_ConfirmationResult\_Type

TTCN-3 Union	Туре	
Name	WLAN_ConfirmationResult_Type	
Comment		
Success	Null Type	
Error	integer	may contain SS specific error code; this will not be evaluated by TTCN

# WLAN\_CnfAspCommonPart\_Type

TTCN-3 Recor	TTCN-3 Record Type		
Name	WLAN_CnfAspCommonPar	t_Type	9
Comment			
CellId	WLAN Cellid Type		
RoutingInfo	WLAN RoutingInfo Type		
TimingInfo	WLAN_TimingInfo_Type		
Result	WLAN_ConfirmationResult		Similar definition as EUTRA
	_Type		

# WLAN\_Attenuation\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	WLAN_Attenuation_Type		
Comment	attenuation of the reference power		
Value	Attenuation Type	cell power reference power reduced by the given attenuation	
		(value is in dB)	
Off	Null_Type	for non suitable off cell we specify an explicit "Off" value here	

# WLAN\_CellAttenuation\_Type

TTCN-3 Record Type		
Name	WLAN_CellAttenuation_Type	
Comment		
CellId	WLAN Cellid Type	
Attenuation	WLAN_Attenuation_Type	

#### WLAN\_CellAttenuationList\_Type

TTCN-3 Record of Type		
Name	WLAN_CellAttenuationList_Type	
Comment		
record length(1tsc WLAN MaxNumberOfCells) of WLAN CellAttenuation Type		

# WLAN\_InitialCellPower\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	WLAN_InitialCellPower_Type		
Comment			
BeaconRSSI	WLAN BeaconRSSI Type	maximum value of beacon RSSI a cell is initialised with this Beacon RSSI; its value is the upper bound of the Beacon RSSI during the test case	
Attenuation	WLAN_Attenuation_Type	initial attenuation Cell is off	

#### WLAN\_Revision\_Type

TTCN-3 Enumerated Type		
Name	WLAN_Revision_Type	
Comment		
Rev_2012	802.11-2012, specified to be used in core specs	
Rev_n	802.11n	

# WLAN\_ChannelBandwidth\_Type

TTCN-3 Enumerated Type		
Name	WLAN_ChannelBandwidth_Type	
Comment		
bw5	5 MHz	
bw10	10 MHz	
bw20	20 MHz	
bw40	40 MHz	
bw80	80 MHz	

# WLAN\_Identifiers\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	WLAN_Identifiers_Type		
Comment			
SSID	octetstring length (132)	opt	
BSSID	O6 Type	opt	
HESSID	O6 Type	opt	

# WLAN\_Hotspot\_Version\_Type

TTCN-3 Enumerated Type		
Name	WLAN_Hotspot_Version_Type	
Comment		
None	no hotspot certification	
Rev_2	Referred in core spec; Hotspot Revision 2.0 release 2	
Rev_1	Hotspot Revision 1.0	

# WLAN\_AP\_Parameters\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	WLAN_AP_Parameters_Type		
Comment	Parameters specific to WLAN	AP	
WLAN_Band	WLAN Band Type		
ChannelNumbe	WLAN ChannelNumber Ty	WLAN band and channel number identify the frequency	
r	<u>pe</u>		
ChannelBandwi	WLAN_ChannelBandwidth_	Channel Bandwidth of 802.11	
dth	<u>Type</u>		
WLAN_Identifie	WLAN Identifiers Type	defined in 36.331, need to figure out how to import or define an	
rs		equivalent	
WLAN_Revisio	WLAN_Revision_Type	Version of WLAN AP, core specs specify it to be 802.11-2012	
n			
WLAN_Hotspot	WLAN Hotspot Version T	Hotspot certification version, Core spec specify it is Hotspot 2.0	
_Version	<u>ype</u>		

# WLAN\_PDN\_AddressInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	WLAN_PDN_AddressInfo_Type		
Comment			
UE_IPAddressI Pv4	charstring	PDN IP Address of the UE in the 3GPP network	
UE_IPAddressI Pv6	charstring	PDN IP Address of the UE in the 3GPP network	
ePDG_IPAddre ssIPv4	charstring	IP address of the ePDG in the non-3GPP network	
ePDG_IPAddre ssIPv6	charstring	IP address of the ePDG in the non-3GPP network	
PCSCF_IPAddr essIPv4	charstring	IP address of the P-CSCF (3GPP network)	
PCSCF_IPAddr essIPv6	charstring	IP address of the P-CSCF (3GPP network)	

# WLAN\_EAP\_AKA\_Cntrl\_Type

TTCN-3 Record Type			
Name	WLAN_EAP_AKA_Cntrl_Type		
Comment	configurable parameters for EAP AKA		
IMSI	hexstring	IMSI/USIM of UE	
RAND	B128 Type	RAND to be used in initial key derivation	
AuthK	B128 Type	Authentication secret key shared between AAA-server and USIM	

# IPsec\_ePDG\_Cntrl\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	IPsec_ePDG_Cntrl_Type		
Comment	Parameters to be used for all IPsec security associations between UE and ePDG		
IntegrityAlgorith	IPsec IntegrityAlgorithm T		
m	<u>ype</u>		
CipheringAlgori	IPsec_CipheringAlgorithm_		
thm	<u>Type</u>		

# WLAN\_AP\_CellConfigInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	WLAN_AP_CellConfigInfo_Type		
Comment			
WLAN_AP_Par	WLAN_AP_Parameters_Ty	Parameters for WLAN AP	
ameters	<u>pe</u>		
InitialCellPower	WLAN InitialCellPower Ty	Power level parameters	
	<u>pe</u>		

# WLAN\_ePDG\_ConfigInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	WLAN_ePDG_ConfigInfo_Type		
Comment			
PDN_AddressI	WLAN PDN AddressInfo	Various IP Addresses to be used	
nfo	<u>Type</u>		
IPsec_SA	IPsec ePDG Cntrl Type	Parameters for ePDG secure tunnels	
EAP_AKA_Cntr	WLAN EAP AKA Cntrl Ty	Parameters for EAP AKA control	
1	<u>pe</u>		

# WLAN\_AP\_CellConfigRequest\_Type

TTCN-3 Union Type			
Name	WLAN_AP_CellConfigRequest_Type		
Comment			
AddOrReconfig ure	WLAN AP CellConfigInfo Type	for cell configuration: CellId: identifier of the cell to be configured RoutingInfo: None TimingInfo: Now (for initial configuration and for reconfiguration in general) ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)	
Release	Null Type	to remove a cell completely - CellId: identifier of the cell to be released; Cell_NonSpecific, in case all cells shall be released RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)	

# WLAN\_ePDG\_ConfigRequest\_Type

TTCN-3 Union Type			
Name	WLAN_ePDG_ConfigRequest_Type		
Comment	Configuration of ePDG and AAA-server emulation		
AddOrReconfig	WLAN ePDG ConfigInfo Type to setup configuration of ePDG and AAA-server emulation		
ure			
Release	Null_Type	to release the ePDG/AAA-server emulation	

# WLAN\_OffloadSpecificParams\_Type

TTCN-3 Record Type			
Name	WLAN_OffloadSpecificParams_Type		
Comment	parameters that are used for	offload	to/from WLAN and controlled by Hotspot 2.0 version 2
ChannelUtilisati on	WLAN ChannelUtilizationT ype	opt	omit means unchanged, if present AP transmits this parameter in BSS Load element IEEE 802.11-2012 clause 8.4.2.30
BackHaulDLBa ndwidth	O4 Type	opt	Omit means unchanged, DL WAN bandwidth in kbps If present AP hotspot uses this value in WAN Metrics element Hotspot 2.0 release 2 clause 4.4
BackHaulULBa ndwidth	O4 Type	opt	Omit means unchanged, UL WAN bandwidth in kbps If present AP hotspot uses this value in WAN Metrics element Hotspot 2.0 release 2 clause 4.4

# WLAN\_AP\_SystemRequest\_Type

TTCN-3 Union Type		
Name	WLAN_AP_SystemRequest_Type	
Comment		
Cell	WLAN_AP_CellConfigRequest_T ype	configure/release a cell
CellAttenuation List	WLAN CellAttenuationList Type	power attenuation for one or several cells, WLAN AP; all cells included in the list shall be changed at the same time; all cells in the list shall reach the new cell power within a maximum of 100ms (10 frames)
OffloadSpecific Params	WLAN OffloadSpecificParams T	parameter used in offload decisions

# WLAN\_AP\_SystemConfirm\_Type

TTCN-3 Union Type				
Name	WLAN_AP_SystemConfirm_Type			
Comment	confirmations for system configurati	on; in general to be sent after the configuration has been done		
Cell	Null_Type	Null_Type (no further parameters from SS)		
CellAttenuation List	Null Type	(no further parameters from SS)  NOTE 1: the confirmation shall be sent when all cells have changed power levels  NOTE 2: for the CellId in the common ASP part the same rules are applied as for the WLAN SYSTEM REQ		
OffloadSpecific Params	Null Type	(no further parameters from SS)		

#### WLAN\_ePDG\_SystemRequest\_Type

TTCN-3 Union Type			
Name	WLAN_ePDG_SystemRequest_Type		
Comment			
ePDG	WLAN_ePDG_ConfigRequest_Ty	setup/release configuration of ePDG and AAA-server emulation	
	<u>pe</u>		

# WLAN\_ePDG\_SystemConfirm\_Type

TTCN-3 Union T	уре	
Name	WLAN_ePDG_SystemConfirm_Type	
Comment	confirmations for system configuration; in general to be sent after the configuration has been done	
ePDG	Null Type (no further parameters from SS)	

#### WLAN\_AP\_SYSTEM\_CTRL\_REQ

TTCN-3 Record	TTCN-3 Record Type			
Name	WLAN_AP_SYSTEM_CTRL_	REQ		
Comment				
Common	WLAN ReqAspCommonPa rt Type	TimingInfo depends on respective primitive:		
Request	WLAN AP SystemRequest Type	- Cell TimingInfo: 'now' (in general) - CellAttenuationList TimingInfo: 'now' (in general, but activation time may be used also)		

#### WLAN\_ePDG\_SYSTEM\_CTRL\_CNF

TTCN-3 Record	TTCN-3 Record Type			
Name	WLAN_ePDG_SYSTEM_CTRL_CNF			
Comment				
Common	WLAN_CnfAspCommonPar		CellId, RoutingInfo and TimingInfo are ignored by TTCN	
	t Type			
Confirm	WLAN_ePDG_SystemConfi			
	rm_Type			

# WLAN\_ePDG\_SYSTEM\_CTRL\_REQ

TTCN-3 Record Type				
Name	WLAN_ePDG_SYSTEM_CTRL_REQ			
Comment				
Common	WLAN_ReqAspCommonPa rt_Type	CellId: wlan_Cell_NonSpecific RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)		
Request	WLAN_ePDG_SystemRequ est_Type			

# WLAN\_AP\_SYSTEM\_CTRL\_CNF

TTCN-3 Record	TTCN-3 Record Type			
Name	WLAN_AP_SYSTEM_CTRL_CNF			
Comment				
Common	WLAN CnfAspCommonPar t_Type		TimingInfo is ignored by TTCN => SS may set TimingInfo to "None"	
Confirm	WLAN_AP_SystemConfirm Type			

# WLAN\_ePDG\_SystemCommand\_Type

TTCN-3 Union Type		
Name	WLAN_ePDG_SystemCommand_Type	
Comment		
IpsecTunnelDis cCmd	Null Type	To trigger SS for ePDG initiated tunnel disconnection procedure acc. to 24.234 clause 8.3.1.2 and 8.3.2.1 (e.g. step 11 of Table 6.4.3.11-1 36.508)

# WLAN\_AP\_SystemCommand\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	WLAN_AP_SystemCommand_Ty	pe
Comment		
AssociateWLA NAP	Null_Type	To prepare SS to expect WLAN association by the UE: SS shall indicate when the UE has already associated or if not already associated, indicate when the UE associates
DisassociateW LANAP	Null_Type	To prepare SS to expect WLAN disassociation by the UE: SS shall indicate when the UE has already disassociated or if not already disassociated, indicate when the UE disassociates

# WLAN\_AP\_SYSTEM\_CMD

TTCN-3 Record	TTCN-3 Record Type		
Name	WLAN_AP_SYSTEM_CMD		
Comment			
Common	WLAN ReqAspCommonPa rt_Type	Routing info will be none generally; TimingInfo is generally now but activation time may be used also for all System commands Cnf and Follow on flags are both false	
Command	WLAN_AP_SystemComma nd_Type	WLAN AP System commands	

#### WLAN\_ePDG\_SYSTEM\_CMD

TTCN-3 Record Type		
Name	WLAN_ePDG_SYSTEM_CMD	
Comment		
Common	WLAN RegAspCommonPa	CellId : wlan_Cell_NonSpecific
	<u>rt Type</u>	RoutingInfo: None
		TimingInfo : Now
		ControlInfo : CnfFlag:=false; FollowOnFlag:=false
Command	WLAN ePDG SystemCom	WLAN ePDG System commands
	mand_Type	

# WLAN\_AP\_SystemIndication\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	WLAN_AP_SystemIndication_Type	oe e
Comment		
Error	Null Type	Used by SS to indicate any error; the Actual Error types reported in ASP common part in WLAN_IndicationStatus_Type
AssociateWLA NAP_Ind	Null Type	UE associated to WLAN as per IEEE 802.11-2012 clause 4.5.3.3
DisassociateW LANAP_Ind	Null_Type	UE has disassociated from WLAN as per IEEE 802.11-2012 clause 4.5.3.5

# WLAN\_ePDG\_SystemIndication\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	WLAN_ePDG_SystemIndication_	Туре	
Comment			
Error	Null Type	Used by SS to indicate any error; the Actual Error types reported in ASP common part in WLAN_IndicationStatus_Type	
IPsecTunnelEst abInd	<u>IPsecTunnelEstabInd Type</u>	To indicate progress for IPsec tunnel establishment	
IPsecTunnelDis clnd	IPsecTunnelDiscInd Type	To indicate progress for release of the IPsec tunnel	

# IPsecTunnelDiscInd\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	IPsecTunnelDiscInd_Type	
Comment		
IPSecTunnelRe ICmpl	Null_Type	Indication raised by the SS when the UE has sent INFORMATIONAL response according to 24.234 clause 8.3.1.2 (ePDG initiated tunnel disconnection as specified for step 11 of Table 6.4.3.11-1 in 36.508) or SS has sent INFORMATIONAL response according to 24.234 clause 8.3.2.2 (WLAN UE initiated tunnel disconnection)

# EAP\_AKA\_Cmpl\_Type

TTCN-3 Enumerated Type	
Name	EAP_AKA_Cmpl_Type
Comment	
success	
failure	

# IPsecTunnelEstablnd\_Type

TTCN-3 Union T	TTCN-3 Union Type	
Name	IPsecTunnelEstablnd_Type	
Comment		
IKE_SA_INIT_I nd	Null_Type	indication by the SS that the UE has started the attempt to establish an IPsec tunnel to the ePDG by sending an initial IKEv2 IKE_SA_INIT (step 1 of Figure 8.2.2-1 in 33.402) NOTE: the major purpose of this primitive is to get an early indication when the UE shall not attempt to establish the IPsec tunnel
EAP_AKA_Cm pl	EAP_AKA_Cmpl_Type	indication by the SS that the UE has provided all necessary parameters for EAP-AKA and the SS has sent an EAP Success/Failure message to UE according to step 11 of Figure 8.2.2-1 in 33.402
IPSecTunnelEs tabCmpl	Null_Type	indication by the SS that IPsec tunnel is established: SS shall indicate this immediately after it has sent out the final IKE_AUTH response (containing the CFG_REPLY) at step 15 of Figure 8.2.2-1 in 33.402  NOTE: Typically the UE gets all relevant IP addresses of the 3GPP network in the configuration payload (CFG_REPLY)

# WLAN\_AP\_SYSTEM\_IND

TTCN-3 Recor	TTCN-3 Record Type	
Name	WLAN_AP_SYSTEM_IND	
Comment		
Common	WLAN IndAspCommonPart	The SS shall provide TimingInfo depending on the respective
	<u>Type</u>	indication:
Indication	WLAN_AP_SystemIndicatio	- Error
	n Type	TimingInfo: related to the error (if available)
		- WLAN offload Procedure completion
		The timing info corresponding to logical completion of the
		complete procedure
		includes completion of all sub protocols

#### WLAN\_ePDG\_SYSTEM\_IND

TTCN-3 Record	TTCN-3 Record Type	
Name	WLAN_ePDG_SYSTEM_IND	
Comment		
Common	WLAN_IndAspCommonPart	CellId, RoutingInfo and TimingInfo are ignored by TTCN
	<u>Type</u>	
Indication	WLAN_ePDG_SystemIndic	
	ation Type	

# WLAN\_AP\_SYSTEM\_PORT

TTCN-3 Port Typ	TTCN-3 Port Type	
Name	WLAN_AP_SYSTEM_PORT	
Comment	WLAN PTC: Port for WLAN AP system configuration	
out	WLAN AP SYSTEM CTRL RE	
	Q	
in	WLAN AP SYSTEM CTRL CNF	

#### WLAN\_AP\_SYSCMD\_IND\_PORT

TTCN-3 Port Type	
Name	WLAN_AP_SYSCMD_IND_PORT
Comment	WLAN PTC: Port for WLAN AP system indications/Commands
out	WLAN_AP_SYSTEM_CMD
in	WLAN AP SYSTEM IND

# WLAN\_ePDG\_SYSTEM\_PORT

TTCN-3 Port Type		
Name	WLAN_ePDG_SYSTEM_PORT	
Comment	WLAN PTC: Port for WLAN ePDG/A	AA-Server system configuration
out	WLAN ePDG SYSTEM CTRL REQ	
in	WLAN ePDG SYSTEM CTRL CNF	

#### WLAN\_ePDG\_SYSCMD\_IND\_PORT

TTCN-3 Port Type		
Name	WLAN_ePDG_SYSCMD_IND_PORT	
Comment	WLAN PTC: Port for WLAN ePDG/AAA-Server emulation system indications/Commands	
out	WLAN ePDG SYSTEM CMD	
in	WLAN ePDG SYSTEM IND	

# D.13 SideLinkUE\_ASP\_TypeDefs

# D.13.1 SideLinkUE\_Data

#### SL\_DATA\_REQ

TTCN-3 Record Type		
Name	SL_DATA_REQ	
Comment	Common ASP to send PDUs o	n PC5 channels SL-DCH or SLRB
Common	SL_ReqAspCommonPart_T ype	SS_UE_Id: identifier of the SL UE  * RoutingInfo: SL-DCH or SLRB identity  * TimingInfo: For Direct Discovery see description in DiscPeriodResourceList_Type; For communication: SFN/Subframe or DFN/DirectSubframe to use to start sending data PDUs.  * ControlInfo: CnfFlag:=false; FollowOnFlag:=false
U_Plane	SL U PlaneTx Type	

#### SL\_DATA\_IND

TTCN-3 Record	TTCN-3 Record Type		
Name	SL_DATA_IND		
Comment	Common ASP to receive PDUs from PC5 channels SL-DCH or SLRB		
Common	SL IndAspCommonPart Ty pe		SS_UE_Id: identifier of the SL UE RoutingInfo: SL-DCH or SLRB identity TimingInfo: SFN/Subframe or DFN/DirectSubframe when message has been received
U_Plane	SL U PlaneRx Type		

#### SL\_U\_PlaneTx\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SL_U_PlaneTx_Type			
Comment				
U_Plane	SL U Plane Type			
SL_DataSched	SL DataScheduling Type	opt	Applied on SL-DCH and PSCCH/PSSCH	
uling				

#### SL\_U\_PlaneRx\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SL_U_PlaneRx_Type			
Comment				
U_Plane	SL_U_Plane_Type			
FreqDomainSc	FreqDomainSchedulExplicit	opt	Applied on SL-RB and SL-DCH	
hedul	<u>Type</u>			

#### SL\_U\_Plane\_Type

TTCN-3 Union	TTCN-3 Union Type			
Name	SL_U_Plane_Type			
Comment				
Discovery	SL DCH Message Type	SL-DCH message		
PdcpPdu	PDCP PDUList Type	SS configuration: PDCP no header removal - In Rx only one		
PdcpSdu	PDCP SDUList Type	PDCP PDU is expected SS configuration: PDCP header removal - In Rx only one PDCP		
1 dopedu	T BOT _OBOLIOL_TYPO	SDU is expected		

# SL\_DCH\_Message\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	SL_DCH_Message_Type		
Comment	SL-DCH message		
pC5_DISCOVE RY	PC5_DISCOVERY		

# SL\_DataScheduling\_Type

TTCN-3 Union Type			
Name	SL_DataScheduling_Type		
Comment			
DiscPeriodRes	DiscPeriodResourceList Type	Applied for SS-UE transmission on SL-DCH/PSDCH	
ource			
CommPeriodR	CommPeriodResourceList Type	Applied for SS-UE transmission on PSCCH	
esource			

# DiscPeriodResourceList\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	DiscPeriodResourceList_Type		
Comment	discovery Periods	of the PC5_DISCOVERY message during NumberOfTransmissionPeriod tes the SFN/subframe of the first discovery period	
NumberOfTran smissionPeriod	integer	Number of consecutive discovery period	
N_PDSCH	integer	Resource number in the range 0(Nt*Nf-1) (see TS 36.213 cl 14.3.1)  Multiple PC5_DISCOVERY messages can be transmitted within a discovery period, different SL_DATA_REQ and N_PDSCH values will be provided	

# ${\bf CommPeriodResourceList\_Type}$

TTCN-3 Record of Type		
Name	CommPeriodResourceList_Type	
Comment	One entry in the list per STCH packets provided in the U_Plane field	
	One entry per communication period	
record of CommPeriodResource Type		

# ${\bf CommPeriodResource\_Type}$

TTCN-3 Record Type		
Name	CommPeriodResource_Type	
Comment	Parameters for transmission of the STCH packets	
	TimingInfo in Common indicates the SFN/subframe of the first communication period	
N_PSCCH	integer PSCCH Resource number (see TS 36.213 cl 14.2.1.1)	
		Multiple STCH packets can be transmitted within a
		communication period, different SL_DATA_REQ and N_PSCCH
		values will be provided

#### SL\_DATA\_PORT

TTCN-3 Port Ty	TTCN-3 Port Type		
Name	SL_DATA_PORT		
Comment			
out	SL_DATA_REQ		
in	SL_DATA_IND		

# D.13.2 SideLinkUE\_Configuration

# D.13.2.1 SL\_Routing\_Timing

#### **SL\_Routing\_Timing: Basic Type Definitions**

TTCN-3 Basic Types		
DirectFrameNumber_Typ	MasterInformationBlock_SL.directFrame	
е	Number_r12	
DirectSubframeNumber_T	MasterInformationBlock_SL.directSubfra	
уре	meNumber_r12	
SLRB_Identity_Type	integer	

# SS\_UE\_Id\_Type

TTCN-3 Enumerated 1	TTCN-3 Enumerated Type		
Name	SS_UE_Id_Type		
Comment	Simulated UE-ID		
ss_UE_NonSpecific	Represents all Simulated UEs		
ss_UE_ld1			
ss_UE_ld2			
ss_UE_ld3			

# SL\_RoutingInfo\_Type

TTCN-3 Union Type		
SL_RoutingInfo_Type		
Null Type		
SL_ChannelRadioBearerId_Type		
	SL_RoutingInfo_Type  Null Type	

#### SL\_ChannelRadioBearerId\_Type

TTCN-3 Union Type			
Name	SL_ChannelRadioBearerId_Type		
Comment			
SLDCH	Null Type	Discovery SL-DCH	
SLRB	SLRB_Identity_Type	Communication SL-RB	

# ${\bf SL\_TimingInfo\_Type}$

TTCN-3 Union T	TTCN-3 Union Type		
Name	SL_TimingInfo_Type		
Comment			
InCoverageTim	TimingInfo Type	SFN/subframe	
ing			
OutOfCoverage	SL OoC TimingInfo Type	DFN/DirectSubframe	
Timing			

# SL\_OoC\_TimingInfo\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	SL_OoC_TimingInfo_Type		
Comment	Out of coverage timing info		
DirectSubFram	DirectSubFrameTiming Type		
е			
Now	Null_Type	to be used in REQ ASPs when there is no 'activation time'	
None	Null_Type	to be used in CNF ASPs but not for EnquireTiming	

# DirectSubFrameTiming\_Type

TTCN-3 Record Type		
Name	DirectSubFrameTiming_Type	
Comment		
DFN	DirectFrameNumber_Type	
DSubframe	DirectSubframeNumber_Ty	
	<u>pe</u>	

# D.13.2.2 SL\_SystemRequestAsp

# D.13.2.2.1 SL\_RequestAspCommon\_Part

#### **SL\_RequestAspCommon\_Part:** Basic Type Definitions

TTCN-3 Basic Types		
SL_Bandwidth_Type	MasterInformationBlock_SL.sl_Bandwidt	
	h_r12	

# SL\_ReqAspCommonPart\_Type

TTCN-3 Record Type			
Name	SL_ReqAspCommonPart_Type		
Comment			
SS_UE_Id	SS UE Id Type	SS-UE ID	
RoutingInfo	SL RoutingInfo Type	Channel or RB Id	
TimingInfo	SL TimingInfo Type	In coverage or Out of coverage timing	
ControlInfo	ReqAspControlInfo_Type		

# SL\_SystemRequest\_Type

TTCN-3 Union Type		
Name	SL_SystemRequest_Type	
Comment		
SS_UE_Config	SS UE ConfigRequest Type	Configure/release a SS-UE
EnquireTiming	Null Type	Get SFN/subframe number or DFN/Direct subframe time for this SS-UE
L1MacIndCtrl	SL L1Mac IndicationControl Type	To configure SS_UE to generate indications for L1/MAC events
SL Security	SL Security Type	StartRestart/Release of SLRB security

# SL\_L1Mac\_IndicationControl\_Type

TTCN-3 Record Type			
Name	SL_L1Mac_IndicationControl_Type		
Comment	NOTE: Initially all indications are disabled in SS (i.e. it shall not be necessary in 'normal' test cases to use this primitive but only if a specific indication is needed); omit means indication mode is not changed		
DiscSync	L1Mac IndicationMode Ty pe	opt	To enable/disable reporting of start and stop of reception of Discovery SLSS as configured.  NOTE: this is applicable when SS_UE is configured with RxDiscSyncRef SS reports an indication every time when SLSS reception from UE has toggled in the subframes configured for SLSS reception
CommSLSS_M IBSL	L1Mac_IndicationMode_Ty pe	opt	To enable/disable reporting of start and stop of reception of communication SLSS and MIB-SL as configured.  NOTE: this is applicable when SS_UE is configured with CommRxSyncRef SS reports an indication every time when SLSS/MIB-SL reception from UE has toggled in the subframes configured for SLSS/MIB-SL reception

# SS\_UE\_ConfigRequest\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	SS_UE_ConfigRequest_Type			
Comment				
AddOrReconfig ure	SS_UE_ConfigInfo_Type	For one SS-UE configuration: SS_UE_Id: identifier of the SS-UE to be configured RoutingInfo: None TimingInfo: Now (for initial configuration) ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)		
Release	Null Type	To remove all SS-UEs completely SS_UE_Id: ss_UE_NonSpecific RoutingInfo: None TimingInfo: Now ControlInfo: CnfFlag:=true; FollowOnFlag:=false (in general)		

# SS\_UE\_ConfigInfo\_Type

TTCN-3 Record Type			
Name	SS_UE_ConfigInfo_Type		
Comment			
SS_UE_ProSe Coverage	SS_UE_ProSeCoverage_T ype	opt	Mandatory in the first configuration - omit means no change InCoverage for discovery
Power	SS UE Power Type	opt	Reference power for the RS of each antenna in Tx Initially configured as switched ON
DiscConfig	DiscConfig Type	opt	
CommConfig	CommConfig_Type	opt	

# SS\_UE\_Power\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SS_UE_Power_Type			
Comment				
MaxReference Power	AbsoluteCellPower Type	opt	Maximum value of SS-UE reference power (in dBm/15kHz as per TS 36.508, clause 4.3.4.1); SS-UE is initialised with this reference power; its value can't be reconfigured during test execution, attenuation is used to change SS-UE power level its value is the upper bound of the SS-UE power during the test case	
Attenuation	Attenuation_Type		Initial attenuation: ON	

# OutOfCoverageConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	OutOfCoverageConfig_Type			
Comment				
CarrierFreq_r1 2	ARFCN_ValueEUTRA_r9			
SL_bandwidth_ r12	SL_Bandwidth_Type			
TDD_ConfigSL _r12	TDD_ConfigSL_r12			
SS_UE_Timing Info	SS_UE_TimingInfo_Type			

# SS\_UE\_TimingInfo\_Type

TTCN-3 Record Type				
Name	SS_UE_TimingInfo_Type			
Comment	SS_UE Timing			
DSubframeOffs	integer (0307199)	frame duration Tf = 307200 * Ts = 10ms; System Time Unit Ts =		
et		1/(15000 * 2048)		
DfnOffset	integer (01023)	(assuming 10 bit DFN)		

# SS\_UE\_ProSeCoverage\_Type

TTCN-3 Union Type			
Name	SS_UE_ProSeCoverage_Type		
Comment	For Discovery only InCoverage is an	pplied	
InCoverage	EUTRA Cellid Type	In coverage SS-UE shall use Band/Bandwidth/UL frequency/Cell timing/TDD Frame structure/CP of the associated EUTRA cell	
OutOfCoverage	OutOfCoverageConfig Type		

# PrimarySideLinkSyncSignal\_Type

TTCN-3 Record Type			
Name	PrimarySideLinkSyncSignal_Type		
Comment			
RelativeTxPow	SideLinkChannelPower_Ty	opt	Power for PSSS relative to the SS-UE power level - value in dB
er	<u>pe</u>		

# ${\bf Secondary Side Link Sync Signal\_Type}$

TTCN-3 Record Type			
Name	SecondarySideLinkSyncSignal_Type		
Comment			
RelativeTxPow	SideLinkChannelPower Ty	opt	Power for SSSS relative to the SS-UE power level - value in dB
er	<u>pe</u>		

# D.13.2.2.2 Discovery\_Specific

# **Discovery\_Specific: Basic Type Definitions**

TTCN-3 Basic Types	FTCN-3 Basic Types						
DiscPeriod_r12_Type	SL_DiscResourcePool_r12.discPeriod_r						
	12						
DiscNumRetx_r12_Type	SL_DiscResourcePool_r12.numRetx_r1						
	2						
DiscNumRepetition_r12_T	SL_DiscResourcePool_r12.numRepetiti						
ype	on_r12						
SideLinkChannelPower_T	integer	see TS 36.213, clause 14					
уре							

# DiscConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DiscConfig_Type			
Comment	PC5_DISCOVERY msg = 232 The PSDCH is transmitted on	2 bits, two c	ith fixed TBS=232 - MAC configured in TM transmitted in one MAC TM PDU. ontiguous physical resource blocks per slot. with a maximum number of HARQ retransmissions by RRC:	
SL_DCH_Tx	SL_DCH_TxConfig_Type	opt	Corresponding to UE Rx resource pool	
SL_DCH_Rx	SL_DCH_RxConfig_Type	opt	Corresponding to UE Tx resource allocation	

# SL\_DCH\_TxConfig\_Type

TTCN-3 Union Type			
Name	SL_DCH_TxConfig_Type		
Comment			
AddOrReconfig	SL_DCH_TxConfigInfo_Type		
ure			
Release	Null Type		

# SL\_DCH\_TxConfigInfo\_Type

TTCN-3 Record Type			
Name	SL_DCH_TxConfigInfo_Typ	е	
Comment			
SS_UE_Tx	DiscResourcePool Type	opt	
DiscTxSyncRef	DiscTxSyncRefConfig Typ	opt	Configure SS_UE to transmit Sync SLSS with PC5_DISCOVERY
	<u>e</u>		Tx
			No prose yet - See 36.331 clause 5.10.5 Note 4
Psdch	PsdchConfig_Type	opt	

# SL\_DCH\_RxConfig\_Type

TTCN-3 Union Type			
Name	SL_DCH_RxConfig_Type		
Comment			
AddOrReconfig	SL DCH RxConfigInfo Type		
ure			
Release	Null_Type		

# SL\_DCH\_RxConfigInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	SL_DCH_RxConfigInfo_Type			
Comment				
SS_UE_Rx	DiscResourcePoolList Typ e	opt		
DiscRxSyncRef	DiscRxSyncRefConfig_Typ e	opt	For SS_UE to detect SLSS transmitted by UE under test It is assumed that only a single Rx resource pool will be specified for the receipt of SLSS by SS-UE	

# DiscResourcePool\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	DiscResourcePool_Type			
Comment	All fields are mandatory for in	itial co	nfiguration; omit means "keep as it is"	
cp_Len_r12	SL_CP_Len_r12	opt		
discPeriod_r12	DiscPeriod_r12_Type	opt		
numRetx_r12	DiscNumRetx_r12_Type	opt		
numRepetition_	DiscNumRepetition_r12_Ty	opt		
r12	<u>pe</u>			
tf_ResourceCo	SL_TF_ResourceConfig_r1	opt		
nfig_r12	2			
discTF_IndexLi	SL_TF_IndexPairList_r12b	opt	Applied in SL-DCH Rx when UE is configured in transmission	
st_r12b			mode 2B	
			To ensure SS-UE and UE are timing aligned, the indexes are	
			provided to SS-UE using the same activation as the one used to	
			send the signalling reconfiguration message to UE	

# DiscResourcePoolList\_Type

TTCN-3 Record of Type			
Name	DiscResourcePoolList_Type		
Comment			
record length(1maxSL_TxPool_r12) of DiscResourcePool_Type			

# DiscTxSyncRefConfig\_Type

TTCN-3 Union Type			
Name	DiscTxSyncRefConfig_Type		
Comment	To start/reconfigure or stop transmitting SLSS (irrespective of any measurement)		
AddOrReconfig	<u>DiscTxSyncRefConfigInfo_Type</u>		
ure			
Release	Null Type		

# ${\bf DiscRxSyncRefConfig\_Type}$

TTCN-3 Union Type			
Name	DiscRxSyncRefConfig_Type		
Comment			
AddOrReconfig	DiscSyncConfigParam Type		
ure			
Release	Null_Type		

# DiscTxSyncRefConfigInfo\_Type

TTCN-3 Record Type			
Name	DiscTxSyncRefConfigInfo_Type		
Comment	All fields are mandatory for initial configuration; omit means "keep as it is"		
SyncConfig	DiscSyncConfigParam Typ	opt	
	<u>e</u>		
Psss	<u>PrimarySideLinkSyncSignal</u>	opt	
	<u>Type</u>		
Ssss	<u>SecondarySideLinkSyncSig</u>	opt	
	nal_Type		

# DiscSyncConfigParam\_Type

TTCN-3 Record Type			
Name	DiscSyncConfigParam_Type		
Comment	All fields are mandatory for initial configuration; omit means "keep as it is"		
syncCP_Len_r 12	SL_CP_Len_r12	opt	
syncOffsetIndic ator_r12	SL_OffsetIndicatorSync_r1 2	opt	
slssid_r12	SLSSID_r12	opt	

# PsdchConfig\_Type

TTCN-3 Record Type			
Name	PsdchConfig_Type		
Comment			
RelativeTxPow	SideLinkChannelPower_Ty	opt	Power for PSDCH relative to the SS-UE power level - value in dB
er	<u>pe</u>		

# D.13.2.2.3 Communication\_Specific

#### SideLinkUE\_ASP\_TypeDefs: Constant Definitions

TTCN-3 Basic Types					
tsc_MaxNumberSL_ STCH	integer	1	Acc to 36.508 cl 4.2.2.3.1.1		

#### Communication\_Specific: Basic Type Definitions

TTCN-3 Basic Types					
Mcs_Type	SL_CommConfig_r12.commTxResourc				
	es_r12.setup.scheduled_r12.mcs_r12				
SL_Rohc_Profiles_Type	SL_PreconfigGeneral_r12.rohc_Profiles				
	_r12				

# CommConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CommConfig_Type			
Comment				
CommSyncRef	CommSyncConfig Type	opt		
CommRxConfi	CommRxConfig Type	opt		
g				
CommTxConfig	CommTxConfig_Type	opt		

# CommSyncConfig\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CommSyncConfig_Type			
Comment				
CommTxSyncR	CommTxSyncRefConfig_Ty	opt		
ef CommRxSync Ref	CommRxSyncRefConfig_T ype	opt		
Synchronisatio nSource	SL SyncRef Type	opt	Applied when OoC - When In coverage: omit ueSyncRef UE under test is SyncRef UE SS_UE shall synchronise from received SLSS/MIB-SL configured in CommRxSyncRef UE shall be transmitting SL-SS when SS_UE is switched on sS_UE_SyncRef SS_UE is SyncRef UE SS_UE shall initiate DFN/DirectSubrame and transmit SLSS/MIB-SL acc to CommTxSyncRef	

# CommTxSyncRefConfig\_Type

TTCN-3 Union Type			
Name	CommTxSyncRefConfig_Type		
Comment	To start/reconfigure or stop transmitting SLSS/MIB-SL (irrespective of any measurement)		
AddOrReconfig	CommTxSyncRef_Type Add/re-configure SLSS or SBCCH		
ure			
Release	Null Type	Stop SLSS and SBCCH transmission	

# CommRxSyncRefConfig\_Type

TTCN-3 Union Type			
Name	CommRxSyncRefConfig_Type		
Comment			
AddOrReconfig	CommRxSyncRef Type	Add/re-configure reception of SLSS or SBCCH	
ure			
Release	Null_Type	Release/stop reception of SLSS and SBCCH transmission	

# CommRxSyncRef\_Type

TTCN-3 Record Type			
Name	CommRxSyncRef_Type		
Comment			
SyncCP_Len_r	SL_CP_Len_r12		
12			
Slssid_r12	SLSSID_r12	opt	Omit means any value is expected
SyncOffsetIndic	SL_OffsetIndicatorSync_r1		
ator1_r12	2		
SyncOffsetIndic	SL_OffsetIndicatorSync_r1	opt	When present both SyncOffsetIndicator1_r12 and
ator2_r12	2		SyncOffsetIndicator2_r12 shall ne monitored

# CommTxSyncRef\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CommTxSyncRef_Type			
Comment	SBCCH - RLC TM - MAC TM SS will perform padding, if required due to the granularity of the TF signalling, as defined in 36.331 cl 8.5.			
TxSyncConfig	CommTxSyncRefParam Ty	opt		
	<u>pe</u>			
MIB_SL	MasterInformationBlock_SL	opt	DFN and Direct subframe set to a dummy value - to be set by SS-UE	
Psss	PrimarySideLinkSyncSignal _Type	opt		
Ssss	SecondarySideLinkSyncSig nal Type	opt		
Psbch	PsbchConfig Type	opt	The transmit power of PSBCH is same as the transmit power of primary sidelink synchronisation signal	

# CommTxSyncRefParam\_Type

TTCN-3 Record Type			
Name	CommTxSyncRefParam_Type		
Comment			
SyncCP_Len_r 12	SL_CP_Len_r12		
Slssid_r12	SLSSID_r12	opt	
SyncOffsetIndic	SL_OffsetIndicatorSync_r1		
ator1_r12	2		

# SL\_SyncRef\_Type

TTCN-3 Enumerated Type				
Name	SL_SyncRef_Type			
Comment				
sS_UE_SyncRef				
ueSyncRef				

# CommRxConfig\_Type

TTCN-3 Union Type			
Name	CommRxConfig_Type		
Comment	SS-UE ID : identifier of the simulate	d UE being configured	
	RoutingInfo: none		
	TimingInfo: 'Now' in common cases		
	ControlInfo : CnfFlag:=true; FollowOnFlag:=false (in general)		
AddOrReconfig	CommRx ConfigInfo Type	Add/re-configure SideLink PSCCH/PSSCH/SL-	
ure		SCH/STCH/RLC/PDCP	
Release	Null_Type	Release SideLink PSCCH/PSSCH/SL-SCH/STCH/RLC/PDCP	

# ${\bf CommTxConfig\_Type}$

TTCN-3 Union Type			
Name	CommTxConfig_Type		
Comment			
	SS-UE ID : identifier of the simulated UE being configured		
	RoutingInfo: none		
	TimingInfo: 'Now' in common cases		
	ControlInfo : CnfFlag:=true; FollowOnFlag:=false (in general)		
AddOrReconfig	CommTx_ConfigInfo_Type	Add/re-configure SideLink PSCCH/PSSCH/SL-	
ure		SCH/STCH/RLC/PDCP	
Release	Null Type	Release SideLink PSCCH/PSSCH/SL-SCH/STCH/RLC/PDCP	

# CommRx\_ConfigInfo\_Type

TTCN-3 Record Type			
Name	CommRx_ConfigInfo_Type		
Comment	It is assume that one SSUE la	ayer 2	ID/one SLRB needs to be handled
ResourcePoolL	CommResourcePoolList Ty	opt	Configure subframes reserved for PSSCH and PSCCH
ist	<u>pe</u>	-	Present for first configuration
			omit means no change
SL_SCH_Confi	SL_SCH_Config_Type	opt	SL-SCH/MAC configuration
g			Present for first configuration
			omit means no change
STCH_ConfigLi	STCH_ConfigList_Type	opt	
st			

# CommResourcePoolList\_Type

TTCN-3 Record of Type				
Name	CommResourcePoolList_Type			
Comment				
record length(1maxSL_TxPool_r12) of CommResourcePool_Type				

# CommResourcePool\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CommResourcePool_Type			
Comment				
sc_CP_Len_r1 2	SL_CP_Len_r12	opt		
sc_Period_r12	SL_PeriodComm_r12	opt		
sc_TF_Resour ceConfig_r12	SL_TF_ResourceConfig_r1 2	opt		
data_CP_Len_r 12	SL_CP_Len_r12	opt		
dataHoppingCo nfig_r12	SL_HoppingConfigComm_r 12	opt		
data_TF_Reso urceConfig_r12	SL_TF_ResourceConfig_r1 2	opt		
trpt_Subset_r1	SL_TRPT_Subset_r12	opt		

# CommTx\_ConfigInfo\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	CommTx_ConfigInfo_Type			
Comment	All fields are optional: present	for fire	st configuration omit means no change	
ResourcePoolL	CommResourcePoolList Ty	opt	Configure pool of resources for PSSCH and PSCCH	
ist	<u>pe</u>			
Mcs_r12	Mcs_Type	opt	Indicates the Modulation and Coding Scheme as defined in TS	
			36.212 [23, 14.2.1]	
SL_SCH_Confi	SL SCH Config Type	opt	SL-SCH/MAC configuration	
g				
STCH_ConfigLi	STCH ConfigList Type	opt	RLC PDCP	
st				
SL_Sheduling	SSUE SciConfig Type	opt	SCI fixed grant used	
PscchConfig	PscchConfig Type	opt		
PsschConfig	PsschConfig Type	opt		

# SSUE\_SciConfig\_Type

TTCN-3 Record Type			
Name	SSUE_SciConfig_Type		
Comment			
Imcs	ImcsValue Type	Modulation and coding scheme - 5 bits as defined in section 14.1.1 of [3]	
SL_Sheduling	SL_SciConfig_Type	SCI fixed grant used	

# SL\_SCH\_Config\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	SL_SCH_Config_Type		
Comment	All fields are mandatory for in	itial co	nfiguration; omit means "keep as it is"
Mac	MAC SLDCH TestModeCo	opt	
00 115 1 0	nfig_Type		
SS_UE_Layer2	B24_Type	opt	

# ${\tt MAC\_SLDCH\_TestModeConfig\_Type}$

TTCN-3 Union Type			
Name	MAC_SLDCH_TestModeConfig_Type		
Comment			
None	Null Type	MAC operation in normal mode for SL-DCH	
Config	Null Type		

# STCH\_ConfigList\_Type

TTCN-3 Record of Type			
Name	STCH_ConfigList_Type		
Comment			
record length(1tsc_MaxNumberSL_STCH) of STCH_Config_Type			

# STCH\_Config\_Type

TTCN-3 Record Type			
Name	STCH_Config_Type		
Comment	All fields are mandatory for in	itial co	nfiguration; omit means "keep as it is"
SLRB	SLRB_Identity_Type	opt	
SL_RBIDConfi	SLRB Config Type	opt	
g			

# SLRB\_Config\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	SLRB_Config_Type			
Comment				
AddOrReconfig	SLRB ConfigInfo Type	Add/re-configure SideLink RB		
ure				
Release	Null_Type	Release SideLink RB		

# SLRB\_ConfigInfo\_Type

TTCN-3 Record Type			
Name	SLRB_ConfigInfo_Type		
Comment	All fields are mandatory for in	itial co	nfiguration; omit means "keep as it is"
Rlc	STCH RLC Type	opt	
Pdcp	SL_PDCP_Configuration_T	opt	
	ype		

# STCH\_RLC\_Type

TTCN-3 Record	TTCN-3 Record Type			
Name	STCH_RLC_Type			
Comment	One RLC entity per Tx peer UE Uni-directional UM RLC sn-fieldLength = 5 LCG = 3 SN is set to the first received UMD PDU in Rx UM_Window size = 0			
Layer2ld	B24_Type	opt	Layer-2 Id of RLC entity: SourceLayer2-Id in Rx - DestinationLayer2Id in Tx	
LCID	B5 Type	opt	Applied in Tx, in Rx SS shall use the value received in the first STCH data PDU	

# **SL\_PDCP\_Configuration\_Type**

TTCN-3 Union	Туре	
Name	SL_PDCP_Configuration_Type	
Comment		
None	Null_Type	no PDCP is configured; e.g. for SLRBs tested in MAC test cases
Config	SL PDCP ConfigInfo Type	

# SL\_PDCP\_ConfigInfo\_Type

TTCN-3 Record Type			
Name	SL_PDCP_ConfigInfo_Type	)	
Comment			
SIRb	PDCP SLRB Type	opt	mandatory for initial configuration; omit means "keep as it is"
TestMode	PDCP TestModeConfig Ty	opt	mandatory for initial configuration; omit means "keep as it is"
	pe		

# PDCP\_SLRB\_Type

TTCN-3 Record	Туре		
Name	PDCP_SLRB_Type		
Comment	PDCP SN length = 16b discard timer = undefined maxCID=15		
headerCompre ssion	SL_Rohc_Profiles_Type	opt	mandatory for initial configuration; omit means "keep as it is"

# PsbchConfig\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	PsbchConfig_Type		
Comment			
RelativeTxPow	SideLinkChannelPower Ty	opt	Power for PSBCH relative to the SS-UE power level - value in dB
er	<u>pe</u>		

# PsschConfig\_Type

TTCN-3 Record	Туре		
Name	PsschConfig_Type		
Comment			
RelativeTxPow	SideLinkChannelPower Ty	opt	Power for PSSCH relative to the SS-UE power level - value in dB
er	pe		

# PscchConfig\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	PscchConfig_Type		
Comment			
RelativeTxPow	SideLinkChannelPower_Ty	opt	Power for PSCCH relative to the SS-UE power level - value in dB
er	<u>pe</u>		

# D.13.2.2.4 SL\_Security

# SL\_Security\_Type

TTCN-3 Union T	TTCN-3 Union Type		
Name	SL_Security_Type		
Comment	When not configured ciphering is co	onsidered as off	
StartRestart	SL CipheringStartRestart Type	Information to start/restart SL security protection in the PDCP	
		SLRB	
Release	Null_Type	To release SL security protection in the PDCP	

# SL\_CipheringStartRestart\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	SL_CipheringStartRestart_Type		
Comment		Layer 2 source address of the sending UE) and Group Id (i.e. the group) are configured in MAC and RLC (SL_SCH_Config_Type	
GroupId	B24 Type	ProSe Layer-2 Group Id	
AlgorithmInfo	B3 Type	Security algorithm acc to 33.303 Table E.5.2.2.7-1	
PGK	<u>B256 Type</u>		
PGK_ld	B64 Type	PGK identity	
PTK_ld	B16 Type	For SS_UE Tx - For PTK derivation at SS-UE side. The value may be different from UE PTK-Id	
Counter	B16_Type	For SS_UE Tx - For PTK derivation	

# D.13.2.3 SL\_SystemConfirmAsp

# SL\_CnfAspCommonPart\_Type

TTCN-3 Record Type		
Name	SL_CnfAspCommonPart_Type	
Comment		
SS_UE_Id	SS UE Id Type	
RoutingInfo	SL RoutingInfo Type	
TimingInfo	SL TimingInfo Type	
Result	ConfirmationResult Type	

# SL\_SystemConfirm\_Type

TTCN-3 Union T	уре	
Name	SL_SystemConfirm_Type	
Comment	Confirmations for SL system configu	uration;
	in general to be sent after the config	juration has been done
SS_UE_Config	Null_Type	Confirmation for SS-UE configuration
EnquireTiming	Null_Type	Confirmation for EnquireTiming
L1MacIndCtrl	Null_Type	Confirmation for L1MacIndCtrl
SL_Security	Null Type	(no further parameters from SS)

# D.13.2.4 SL\_SystemIndicationAsp

#### SL\_IndAspCommonPart\_Type

TTCN-3 Recor	d Type	
Name	SL_IndAspCommonPart_Ty	/pe
Comment		
SS_UE_ld	SS_UE_Id_Type	Simulated SS-UE ID
RoutingInfo	SL_RoutingInfo_Type	Channel ID or RB Id for STCH
TimingInfo	SL_TimingInfo_Type	In coverage or Out of coverage timing
Status	IndicationStatus Type	

# SL\_SystemIndication\_Type

TTCN-3 Union T	ype	
Name	SL_SystemIndication_Type	
Comment		
Error	charstring	Indicates an error situation in SS-UE; is not explicitly handled in TTCN but causes an INCONC due to default behaviour; an additional error code can be signalled in the common part of the ASP; SS shall raise an error in case of - Invalid TimingInfo - Data scheduled does not fit into an available resource in a resource pool (NOTE: additional cases may occur)
DiscSync	DiscSLSS Ind Type	Indication for Discovery SLSS sent by UE
CommSLSS_M IBSL	CommSLSS_MIBSL_Ind_Type	Indication for Communication SLSSID and MIB-SL sent by UE

# DiscSLSS\_Ind\_Type

TTCN-3 Enumerated 1	Гуре
Name	DiscSLSS_Ind_Type
Comment	When transmitted SLSS is associated with a PC5_DISCOVERY message according to RxDiscSyncRef. Start is triggered in SS_UE when - the first SLSS associated with a PC5_Discovery message is received by SS-UE since enabling of SLSS reporting - the previous SLSS indication was 'stop' or 'spurious' and an SLSS associated with a PC5_Discovery message is received by SS-UE  Stop is triggered in SS_UE when - the first PC5_DISCOVERY message is received without SLSS - the previous SLSS indication was 'start' or 'spurious' and PC5_DISCOVERY message is received without SLSS  Spurious is triggered in SS_UE when - the first SLSS is received without PC5_DISCOVERY message since enabling of SLSS reporting - the previous SLSS indication was 'start' or 'stop' and SLSS is received without associated PC5_DISCOVERY message
DiscSLSS_Start	
DiscSLSS_Stop	
DiscSLSS_Spurious	

# CommSLSS\_MIBSL\_Ind\_Type

TTCN-3 Union T	TTCN-3 Union Type			
Name	CommSLSS_MIBSL_Ind_Type			
Comment	Start is triggered in SS_UE when - the first SLSS associated with a MIB-SL is received in the same subframe by SS-UE since enabling of reporting - the previous indication was 'stop' or 'spurious' and an SLSS associated with a MIB-SL is received by SS-UE			
	Stop is triggered in SS_UE when - no SLSS/MIB-SL is transmitted in the period - the previous indication was 'start' or 'spurious' and no SLSS/MIB-SL is transmitted in the period			
	SLSS reporting	on MIB-SL is received without SLSS since enabling of or 'stop' and SLSS is received without MIB-SL or MIB-SL is		
CommSLSS_St art	CommSyncParamInd Type			
CommSLSS_St op	Null Type			
CommSLSS_S purious	Null Type			

# CommSyncParamInd\_Type

TTCN-3 Record Type			
Name	CommSyncParamInd_Type		
Comment			
SLSSID	SLSSID_r12		
MIB_SL	MasterInformationBlock SL		

# D.13.2.5 SL\_System\_Interface

# SL\_SYSTEM\_CTRL\_REQ

TTCN-3 Recor	TTCN-3 Record Type		
Name	SL_SYSTEM_CTRL_REQ		
Comment	ASP to request/control SideLink	system configuration	
Common	SL ReqAspCommonPart T ype	TimingInfo depends on respective primitive:	
Request	SL_SystemRequest_Type	- SS_UE_Config    TimingInfo: depends on the request - EnquireTiming    TimingInfo: 'now' - L1MacIndCtrl    TimingInfo: 'now' - SL_Security    RoutingInfo: SLRB    TimingInfo: 'now'	

#### SL\_SYSTEM\_CTRL\_CNF

TTCN-3 Recor	TTCN-3 Record Type		
Name	SL_SYSTEM_CTRL_CNF	SL_SYSTEM_CTRL_CNF	
Comment	ASP to confirm a SideLink sys	tem configuration request	
Common	SL_CnfAspCommonPart_T vpe	TimingInfo is ignored by TTCN (apart from EnquireTiming): SS may set TimingInfo to "None" -EnquireTiming TimingInfo InCoverage: SFN/Subframe	
Confirm	SL SystemConfirm Type		

# SL\_SYSTEM\_IND

TTCN-3 Reco	TTCN-3 Record Type		
Name	SL_SYSTEM_IND		
Comment	ASP to report errors or system in	ndications	
Common	SL_IndAspCommonPart_Ty pe	The SS shall provide TimingInfo (SFN + subframe number) depending on the respective indication:	
Indication	SL SystemIndication Type	- Error TimingInfo: related to the error (if available) - DiscSync TimingInfo: SFN/Subframe related to the SLSS - CommSLSS TimingInfo: SFN/Subframe or DFN/DirectSubframe related to the SLSS - CommMIB_SL TimingInfo: SFN/Subframe or DFN/DirectSubframe related to the MIB-SI	

# SL\_SYSTEM\_PORT

TTCN-3 Port Typ	TTCN-3 Port Type		
Name	SL_SYSTEM_PORT		
Comment	SideLink UE PTC: Port for system configuration		
out	SL_SYSTEM_CTRL_REQ		
in	SL_SYSTEM_CTRL_CNF		

# SL\_SYSIND\_PORT

TTCN-3 Port Typ	TTCN-3 Port Type		
Name	SL_SYSIND_PORT		
Comment	SideLink UE PTC: Port for system indications		
in	SL SYSTEM IND		

# D.14 CommonDefs

#### **CommonDefs: Constant Definitions**

TTCN-3 Basic Types			
tsc_UInt16Max	integer	65535	
tsc_UInt32Max	integer	4294967295	

#### **CommonDefs: Basic Type Definitions**

TTCN-3 Basic Types		
B1_Type	bitstring length(1)	
B2_Type	bitstring length(2)	
B3_Type	bitstring length(3)	
B4_Type	bitstring length(4)	
B5_Type	bitstring length(5)	
B6_Type	bitstring length(6)	
B7_Type	bitstring length(7)	
B7_15_Type	bitstring length(715)	NOTE: length restriction can only be a range but not two distinct lengths
B8_Type	bitstring length(8)	
B10_Type	bitstring length(10)	
B11_Type	bitstring length(11)	
B12_Type	bitstring length(12)	
B15_Type	bitstring length(15)	
B16_Type	bitstring length(16)	
B24_Type	bitstring length(24)	
B32_Type	bitstring length(32)	
B64_Type	bitstring length(64)	
B128_Type	bitstring length(128)	
B256_Type	bitstring length(256)	
B128_Key_Type	<u>B128 Type</u>	128 bit security key
O3_Type	octetstring length(3)	
O4_Type	octetstring length(4)	
O6_Type	octetstring length(6)	
O8_Type	octetstring length(8)	
O13_Type	octetstring length(13)	
Null_Type	boolean (true)	dummy type for 'typeless' fields in unions
Dummy_Type	boolean (true)	dummy type for temporary purposes only
UInt16_Type	integer (0 tsc_UInt16Max)	
UInt32_Type	integer (0 tsc UInt32Max)	
IP_DrbId_Type	integer	DRB identity type common for all RATs: - for EUTRA it corresponds to the ASN.1 type DRB-Identity - for UTRAN it corresponds to the ASN.1 type RB-Identity and values are as defined in TS 34.123-3 Table 8.2.4.1 - for GERAN the NSAPI value (type record NSAPI) may be used NOTE: this is introduced to simplify the dependencies (i.e. to keep IP_ASP_TypeDefs independent from any RAT specific type definitions)

# EUTRA\_CellId\_Type

TTCN-3 Enumerated T	'ype
Name	EUTRA_Cellid_Type
Comment	
eutra_Cell_NonSpecif	
ic	
eutra_Cell1	
eutra_Cell2	
eutra_Cell3	
eutra_Cell4	
eutra_Cell6	
eutra_Cell10	
eutra_Cell11	
eutra_Cell12	
eutra_Cell13	
eutra_Cell14	
eutra_Cell23	
eutra_Cell28	
eutra_Cell29	
eutra_Cell30	
eutra_Cell31	
eutra_CellA	
eutra_CellB	
eutra_CellC	
eutra_CellD	
eutra_CellE	
eutra_CellG	
eutra_CellH	
eutra_Celll	
eutra_CellJ	
eutra_CellK	
eutra_CellL	
eutra_CellM	

# EUTRA\_CellIdList\_Type

TTCN-3 Record of Type				
Name	Name EUTRA_CellIdList_Type			
Comment	Comment			
record length (09) of EUTRA Cellid Type				

# IP\_EUTRA\_DrbInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	IP_EUTRA_DrbInfo_Type		
Comment			
CellId	EUTRA CellId Type		data is routed to a specific cell regardless of whether the same
			DRB is configured in any other cell
Drbld	IP Drbld Type	opt	mandatory at the system interface

# IP\_UTRAN\_GERAN\_DrbInfo\_Type

TTCN-3 Record Type			
Name	IP_UTRAN_GERAN_DrbInfo	IP_UTRAN_GERAN_DrbInfo_Type	
Comment			
CellId	integer		
Drbld	IP Drbld Type	opt	mandatory at the system interface

# IP\_WLAN\_DrbInfo\_Type

TTCN-3 Record	TTCN-3 Record Type		
Name	IP_WLAN_DrbInfo_Type		
Comment			
CellId	integer		

# IP\_DrbInfo\_Type

TTCN-3 Union Type			
Name	IP_DrbInfo_Type		
Comment			
Eutra	IP EUTRA DrbInfo Type		
Utran	IP UTRAN GERAN DrbInfo Typ		
	<u>e</u>		
Geran	IP_UTRAN_GERAN_DrbInfo_Typ		
	<u>e</u>		
Wlan	IP WLAN DrbInfo Type		
IPsecTunnel	Null Type		

# D.15 References to TTCN-3

References to TTCN-3			
EUTRA_ASP_TypeD	EUTRA_Defs/EUTRA_ASP_TypeDefs.ttcn	Rev 16031	
efs			
EUTRA_ASP_DrbDe	EUTRA_Defs/EUTRA_ASP_DrbDefs.ttcn	Rev 16031	
fs			
EUTRA_ASP_SrbDe	EUTRA_Defs/EUTRA_ASP_SrbDefs.ttcn	Rev 12660	
fs			
IP_ASP_TypeDefs	IP_PTC/IP_ASP_TypeDefs.ttcn	Rev 16031	
NasEmu_AspTypes	NasEmulation/NasEmu_AspTypes.ttcn	Rev 8395	
EUTRA_CommonDe	EUTRA_Defs/EUTRA_CommonDefs.ttcn	Rev 16033	
fs			
CDMA2000_ASP_Ty	C2K/CDMA2000_ASP_TypeDefs.ttcn	Rev 12722	
peDefs			
CDMA2000_Commo	C2K/CDMA2000_CommonDefs.ttcn	Rev 9022	
nDefs			
EUTRA_ASP_CDMA	EUTRA_Defs/EUTRA_ASP_CDMA2000TunnellingDefs.ttcn	Rev 8820	
2000TunnellingDefs			
EUTRA_ASP_Virtual	EUTRA_Defs/EUTRA_ASP_VirtualNoiseDefs.ttcn	Rev 15549	
NoiseDefs			
UTRAN_ASP_Virtua	UTRAN/UTRAN_ASP_VirtualNoiseDefs.ttcn	Rev 15724	
INoiseDefs			
WLAN_ASP_TypeD	WLAN/WLAN_ASP_TypeDefs.ttcn	Rev 16031	
efs			
SideLinkUE_ASP_T	D2D_SideLink/SideLinkUE_ASP_TypeDefs.ttcn	Rev 15991	
ypeDefs			
CommonDefs	Common/CommonDefs.ttcn	Rev 15940	

# Annex E (informative): Upper Tester Scenarios

Depending on whether automatic operation is used, or is replaced by the SS by manual intervention, the following scenarios may occur.

# E.1 No confirmation

There is no confirmation required in TTCN e.g. because the UE starts signalling triggered by the UT command.

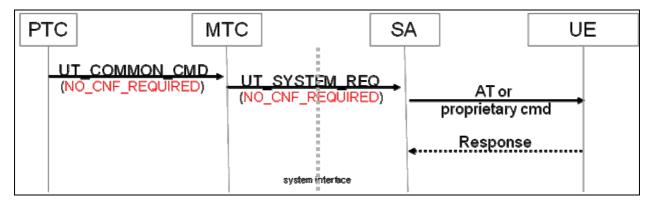


Figure E.1-1: No confirmation (automatic operation)

NOTE: The SS discards any response from the UE.

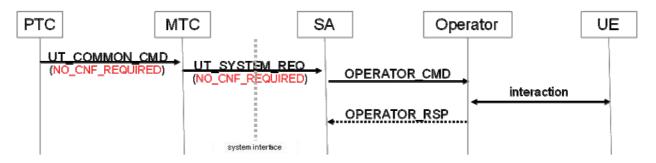


Figure E.1-2: No confirmation (manual intervention)

# E.2 Immediate confirmation

TTCN needs an immediate response as a trigger to continue e.g. with DL signalling or starting a timer. In general there is no signalling in between UT\_COMMON\_CMD and UT\_COMMON\_CNF.

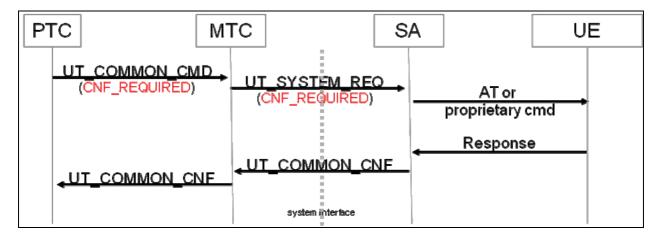


Figure E.2-1: Immediate confirmation (automatic operation, normal case)

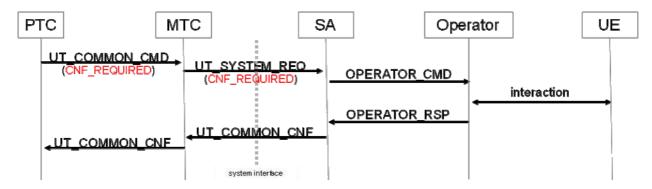


Figure E.2-2: Immediate confirmation (manual intervention, normal case)

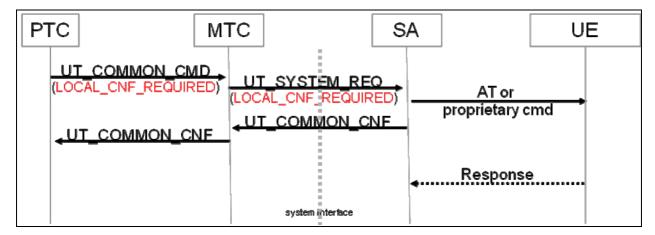


Figure E.2-3: Immediate confirmation (automatic operation, local confirmation)

NOTE: When local confirmation is required in automatic operation mode the SS discards any late response from the UE.

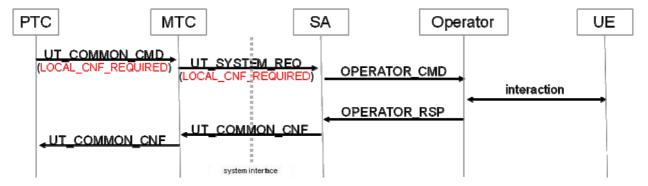


Figure E.2-4: Immediate confirmation (manual intervention, local confirmation)

# E.3 Late response

TTCN needs to get the response which is provided by the UE after some signalling related to the UT command. To achieve a common implementation for automatic operation and manual intervention, the TTCN provides a DUMMY command to trigger a 2<sup>nd</sup> interaction between the operator and the UE. Whether or not this DUMMY is used for automatic operation is up to SS implementation. Nevertheless the DUMMY is sent just before the final DL message which triggers the UE to generate the response, i.e. the SS may use the DUMMY to trigger reception of the response (NOTE: in this case it is up to SS implementation to be fast enough). When replacing the AT command with manual intervention, the SS is responsible to ensure that 2<sup>nd</sup> interaction does not happen before the final DL message has been received and processed by the UE.

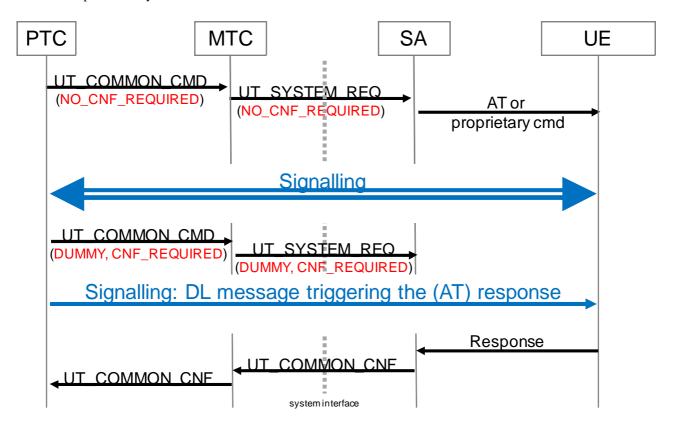


Figure E.3-1: Late response (automatic operation)

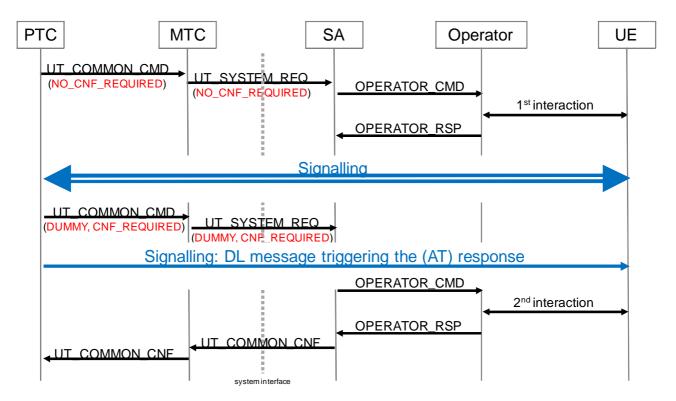


Figure E.3-2: Late response (manual intervention)

# E.4 Multiple responses

In principle the message flow for multiple responses is the same as for a single late response but for more than one response ( $\Rightarrow$  The same requirements as for late response are applicable).

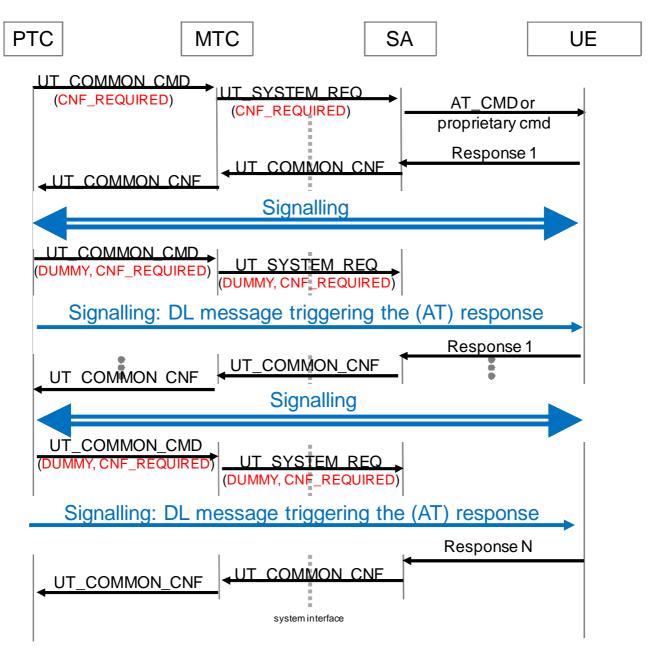


Figure E.4-1: Multiple responses (automatic operation)

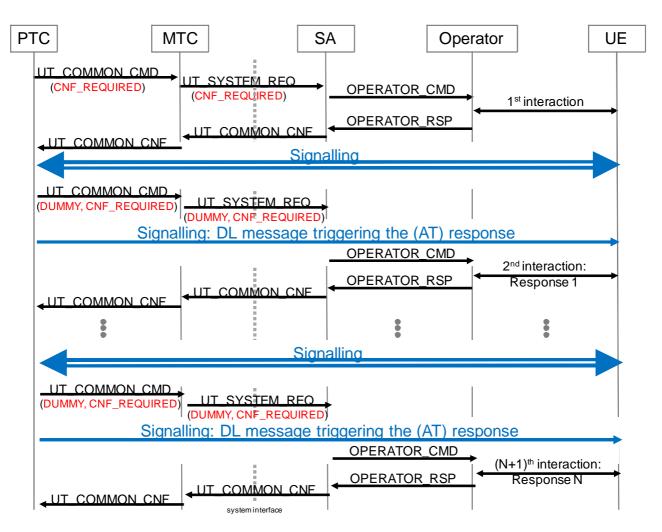


Figure E.4-2: Multiple responses (manual intervention)

## Annex F (informative): Change history

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2008-05					Creation of draft TS		0.0.2
2008-08					Add test models	0.0.2	0.1.0
2008-10					Add ASPs and state model	0.1.1	0.3.0
2008-12					Add details of UL/DL scheduling and cell configurations	0.4.0	0.5.0
2009-02					Change naming conventions, add more design considerations	0.5.0	1.0.0
2009-03	RAN#43	RP-090271			Presentation for Information	1.0.0	1.0.2
2009-03					Add Upper tester interface	1.0.2	1.1.0
2009-04					Improved DL scheduling	1.1.0	1.2.0
2009-06					Add normative annex D for ASP definitions	1.2.0	1.3.0
2009-08					General update	1.3.0	1.4.0
2009-09					Style /format check from ETSI EditHelp	1.4.0	1.4.1
2009-09	RAN#45	RP-090753			Presentation of v2.0.0 for approval	1.4.1	2.0.0
2009-09					Updated to 8.0.0 with no change	2.0.0	8.0.0
2009-12	RAN#46	RP-091122	0001	-	LTE ASP clarifications and update	8.0.0	8.1.0
2009-12	RAN#46	RP-091119		<b>-</b>	CR to 36.523-3: Add new e-mail agreed LTE TTCN test cases in	8.0.0	8.1.0
2000 12	10.00	141 001110	0002		the TC list of Annex A and update Annex D	0.0.0	0.1.0
2009-12	RAN#46	R5s090180	0003	-	Resubmission of GCF WI 81 LTE RRC test case 8.1.2.1 on wk42 TTCN	8.0.0	8.1.0
2009-12	RAN#46	R5s090139	0004	<u> </u>	Addition of GCF WI 81 LTE RRC test case 8.1.1.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090139		E	Addition of GCF WI 81 LTE RRC test case 8.1.1.1	8.0.0	8.1.0
2009-12 2009-12	RAN#46	R5s090144 R5s090163		ŧ –	Addition of GCF WI 81 ETE RRC test case 8.1.3.1  Addition of GCF WI 82 EUTRA NAS test case 9.2.1.1.2	8.0.0	8.1.0
				Ι-			
2009-12	RAN#46	R5s090141		-	Addition of GCF WI 81 LTE MAC test case 7.1.1.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090160		-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.1		8.1.0
2009-12	RAN#46	R5s090156		-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.2	8.0.0	8.1.0
2009-12	RAN#46	R5s090154		-	Addition of GCF WI 82 EPC test case 9.2.2.2.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090165		-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.3	8.0.0	8.1.0
2009-12	RAN#46	R5s090171		-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.3	8.0.0	8.1.0
2009-12	RAN#46	R5s090176		-	Addition of GCF WI 82 EPC test case 9.3.2.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090174	0014	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.7	8.0.0	8.1.0
2009-12	RAN#46	R5s090178	0015	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.6	8.0.0	8.1.0
2009-12	RAN#46	R5s090198	0016	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.1	8.0.0	8.1.0
2009-12	RAN#46	R5s090204		-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.4	8.0.0	8.1.0
2009-12	RAN#46	R5s090202	0018	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.3	8.0.0	8.1.0
2009-12	RAN#46	R5s090200	0019	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.2	8.0.0	8.1.0
2009-12	RAN#46	R5s090196		-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.4.2	8.0.0	8.1.0
2009-12	RAN#46	R5s090194		_	Addition of GCF WI 81 EUTRA PDCP test case 7.3.4.1	8.0.0	8.1.0
2010-03	RAN#47	R5-100103		<u> </u>	An additional option for IP address allocation in test cases using UE		8.2.0
2010 00	TO WWH	100100	0000		test mode	0.1.0	0.2.0
2010-03	RAN#47	R5-101049	0081	-	Add a new clause for postamble in a UTRA/GERAN cell	8.1.0	8.2.0
2010-03	RAN#47	R5-101050	0082	2	Routine maintenance of TS 36.523-3	8.1.0	8.2.0
2010-03	RAN#47	RP-100147	0022	1	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.1.0	8.2.0
2010-03	RAN#47	R5s090209	0076	-	Addition of GCF WI 81 LTE Idle Mode test case 6.1.2.2 on wk42 TTCN	8.1.0	8.2.0
2010-03	RAN#47	R5s090210	0075	-	Addition of GCF WI 82 EPC test case 9.1.3.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090212	0078	-	Addition of GCF WI 82 EPC test case 9.2.3.1.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090214	0077	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.15	8.1.0	8.2.0
2010-03	RAN#47	R5s090217	0072	1-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090219	0073	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.17	8.1.0	8.2.0
2010-03	RAN#47	R5s090222	0074	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.20	8.1.0	8.2.0
2010-03	RAN#47	R5s090306	0045	-	Addition of GCF WI 81 LTE RRC test case 8.5.4.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090310	0038	-	Addition of GCF WI-82 EPC test case 9.1.2.1	8.1.0	8.2.0

Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-03	RAN#47	R5s090314	0030	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090316	0049	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090318	0042	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.3	8.1.0	8.2.0
2010-03	RAN#47	R5s090320	0041	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.4	8.1.0	8.2.0
2010-03	RAN#47	R5s090322	0028	-	Correction to test step f_GetPDNAddress	8.1.0	8.2.0
2010-03	RAN#47	R5s090331	0024	-	Resubmission of GCF WI-81 LTE RRC test case 8.2.2.1 on ATS_wk47	8.1.0	8.2.0
2010-03	RAN#47	R5s090333	0025	-	Resubmission of GCF WI-81 LTE RRC test case 8.2.2.2 on ATS_wk47	8.1.0	8.2.0
2010-03	RAN#47	R5s090335	0023	-	Resubmission of GCF WI-81 LTE RRC test case 8.2.3.1 on ATS_wk47	8.1.0	8.2.0
2010-03	RAN#47	R5s090337	0027	-	Correction to EUTRA MAC test cases 7.1.3.3 and 7.1.3.7	8.1.0	8.2.0
2010-03	RAN#47	R5s090340	0040	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.5.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090342	0039	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.5.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090345	0043	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.1.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090347	0048	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090349	0033	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.3	8.1.0	8.2.0
2010-03	RAN#47	R5s090351	0034	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.4	8.1.0	8.2.0
2010-03	RAN#47	R5s090353	0035	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090355	0047	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.7	8.1.0	8.2.0
2010-03	RAN#47	R5s090357	0032	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.9	8.1.0	8.2.0
2010-03	RAN#47	R5s090359	0050	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.4	8.1.0	8.2.0
2010-03	RAN#47	R5s090361	0026	-	Correction of GCF WI 81 EUTRA RLC test case 7.2.3.2	8.1.0	8.2.0
2010-03	RAN#47	R5s090362	0031	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.13	8.1.0	8.2.0
2010-03	RAN#47	R5s090364	0054	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090366	0046	-	Addition of GCF WI 82 EPC test case 9.3.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s090368	0029	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.5	8.1.0	8.2.0
2010-03	RAN#47	R5s090373	0037	-	TTCN corrections from LTE ATS_wk51 regression testing	8.1.0	8.2.0
2010-03	RAN#47	R5s090375	0056	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.8	8.1.0	8.2.0
2010-03	RAN#47	R5s090377	0055	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.6	8.1.0	8.2.0
2010-03	RAN#47	R5s090379	0036	-	Correction to EPC test case 9.2.3.1.5	8.1.0	8.2.0
2010-03	RAN#47	R5s100001	0044	-	Correction to EUTRA RLC test case 7.2.3.17	8.1.0	8.2.0
2010-03	RAN#47	R5s100002	0052	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.14	8.1.0	8.2.0
2010-03	RAN#47	R5s100004	0059	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.6	8.1.0	8.2.0
2010-03	RAN#47	R5s100006	0050	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.7	8.1.0	8.2.0
2010-03	RAN#47	R5s100008	0056	-	Addition of GCF WI 82 LTE NAS test case 9.2.1.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100012	0053	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100014	0051	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.9	8.1.0	8.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2010-03	RAN#47	R5s100016	0058	-	Addition of GCF WI 81 EUTRA RLC test case 7.1.4.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100018	0053	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.4	8.1.0	8.2.0
2010-03	RAN#47	R5s100020	0052	-	Summary of regression errors in wk51 LTE ATS	8.1.0	8.2.0
2010-03	RAN#47	R5s100021	0051	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.4	8.1.0	8.2.0
2010-03	RAN#47	R5s100024	0054	-	Addition of GCF WI-082 EPC test case 13.1.1	8.1.0	8.2.0
2010-03	RAN#47	R5s100029	0057	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.4	8.1.0	8.2.0
2010-03	RAN#47	R5s100031	0058	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.10	8.1.0	8.2.0
2010-03	RAN#47	R5s100039	0055	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.18	8.1.0	8.2.0
2010-03	RAN#47	R5s100041	0057	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.7	8.1.0	8.2.0
2010-03	RAN#47	R5s100043	0070	-	Addition of GCF WI 81 LTE MAC test case 7.1.4.10	8.1.0	8.2.0
2010-03	RAN#47	R5s100047	0071	-	Corrections of GCF WI 81 EUTRA RLC test cases 7.2.3.1, 7.2.3.4, and 7.2.3.5.	8.1.0	8.2.0
2010-03	RAN#47	R5s100049	0059	-	Regression CR for LTE wk03 ATS	8.1.0	8.2.0
2010-03	RAN#47	R5s100053	0079	-	Correction of GCF WI 81 EUTRA RLC test case 7.2.3.8	8.1.0	8.2.0
2010-03	RAN#47	R5s100054	0080	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.15	8.1.0	8.2.0
2010-06	RAN#48	RP-100515	0084	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.2.0	8.3.0
2010-06	RAN#48	R5-103845	0141	-	Specification of default UL grant type and exception TC list	8.2.0	8.3.0
2010-06	RAN#48	R5-103846	0142	-	Routine maintenance of TS 36.523-3	8.2.0	8.3.0
2010-06	RAN#48	R5-103847	0143	-	Align the postambles with the new specified UTRA test end states and UE attach implementation capabilities	8.2.0	8.3.0
2010-06	RAN#48	R5s100057	0085	-	Addition of GCF WI-081 RRC test case 8.2.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100065	0086	-	Correction of GCF WI 81 EUTRA RLC test case 7.2.2.5.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100068	0092	-	Regression CR for LTE wk07 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100072	0091	-	Correction to EPC test case 9.2.2.2.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100073	0090	-	Correction to LTE MAC test case 7.1.2.3 and 7.1.4.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100074	0087	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100076	0089	-	Corrections to GCF WI-81 EUTRA RLC test cases 7.2.2.1, 7.2.2.3 and 7.2.2.5.1.	8.2.0	8.3.0
2010-06	RAN#48	R5s100077	0088	-	Correction to 'EUTRA_NASSteps.ttcn' module (here: APN IE)	8.2.0	8.3.0
2010-06	RAN#48	R5s100078	0113	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.8	8.2.0	8.3.0
2010-06	RAN#48	R5s100080	0112	-	Addition of GCF WI 81 EUTRA NAS test case 7.2.3.16	8.2.0	8.3.0
2010-06	RAN#48	R5s100082	0109	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.1.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100086	0108	-	Addition of GCF WI 82 EPC test case 9.1.2.4	8.2.0	8.3.0
2010-06	RAN#48	R5s100088	0107	-	Addition of GCF WI 82 EPC test case 9.1.2.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100090	0106	-	Addition of GCF WI 82 EPC test case 9.2.3.1.8	8.2.0	8.3.0
2010-06	RAN#48	R5s100092	0110	-	Addition of GCF WI 82 EPC test case 9.1.4.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100094	0105	-	Addition of GCF WI 82 EPC test case 9.3.1.7a	8.2.0	8.3.0
2010-06	RAN#48	R5s100096	0104	-	Addition of GCF WI 82 EPC test case 9.3.1.7	8.2.0	8.3.0

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2010-06	RAN#48	R5s100098	0111	-	Addition of GCF WI 82 EPC test case 9.1.3.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100100	0093	-	Addition of GCF WI 81 EUTRA RAB test case 12.2.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100102	0103	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.16	8.2.0	8.3.0
2010-06	RAN#48	R5s100104	0099	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.10	8.2.0	8.3.0
2010-06	RAN#48	R5s100106	0102	-	Addition of GCF WI -081 test case 8.2.1.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100109	0131	-	Addition of GCF WI-082 EUTRA EPS test case 9.4.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100111	0101	-	Addition of GCF WI 82 EPC NAS test case 9.4.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100113	0100	-	Addition of GCF WI 82 EPC test case 9.4.4	8.2.0	8.3.0
2010-06	RAN#48	R5s100116	0094	-	Regression CR for LTE wk11 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100117	0098	-	Addition of GCF WI 82 EPC test case 9.4.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100127	0097	-	Resubmission of GCF WI 82 EPC test case 9.1.2.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100130	0095	-	Resubmission of GCF WI 81 EUTRA MAC test case 7.1.4.8	8.2.0	8.3.0
2010-06	RAN#48	R5s100132	0096	-	Addition of GCF WI 82 EPC test case 9.2.2.1.6	8.2.0	8.3.0
2010-06	RAN#48	R5s100135	0136	-	Baseline upgrade to December-09 Rel-8	8.2.0	8.3.0
2010-06	RAN#48	R5s100136	0130	-	Correction to the test step f_TestcaselsL2Testcase	8.2.0	8.3.0
2010-06	RAN#48	R5s100137	0129	-	Correction to PDCCH candidate selection based on channel bandwidth under test	8.2.0	8.3.0
2010-06	RAN#48	R5s100138	0127	-	Addition of GCF WI-081 MAC test case 7.1.2.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100140	0128	-	Regression CR for LTE/SAE ATS_10wk11	8.2.0	8.3.0
2010-06	RAN#48	R5s100141	0125	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.3.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100142	0126	-	Correction to EUTRA RLC test case 7.2.3.10	8.2.0	8.3.0
2010-06	RAN#48	R5s100143	0118	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.9	8.2.0	8.3.0
2010-06	RAN#48	R5s100145	0119	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.13	8.2.0	8.3.0
2010-06	RAN#48	R5s100147	0122	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.6.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100149	0120	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100151	0121	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100153	0123	-	Addition of GCF WI 82 EPC EMM test case 9.2.2.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100155	0117	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.1	8.2.0	8.3.0
2010-06	RAN#48	R5s100157	0116	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100159	0114	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100161	0115	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.1.4	8.2.0	8.3.0
2010-06	RAN#48	R5s100163	0124	-	Correction to MME Group ID to set MSB to 1	8.2.0	8.3.0
2010-06	RAN#48	R5s100169	0132	-	Correction of GCF WI-082 EPC test cases 9.1.2.3, 9.1.2.4 and 9.1.2.5	8.2.0	8.3.0
2010-06	RAN#48	R5s100172	0133	-	Further regression CR for LTE/SAE 10wk11 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100176	0135	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.2	8.2.0	8.3.0
2010-06	RAN#48	R5s100178	0137	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.3	8.2.0	8.3.0
2010-06	RAN#48	R5s100180	0138	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.2.11	8.2.0	8.3.0

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2010-06	RAN#48	R5s100182	0139	-	Regression CR for LTE wk11 ATS	8.2.0	8.3.0
2010-06	RAN#48	R5s100183	0134	-	Corrections to EUTRA RLC and PDCP test cases	8.2.0	8.3.0
2010-09	RAN#49	R5-104796	0145	-	Routine maintenance of TS 36.523-3	8.3.0	8.4.0
2010-09	RAN#49	R5-104197	0144	-	Addition of MMI command 'DISABLE EPS CAPABILITY'	8.3.0	8.4.0
2010-09	RAN#49	RP-100826	0146	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.3.0	8.4.0
2010-09	-	-	-	-	Updated the lists of approved test cases for FDD and LCR TDD in Annex A to align with TTCN.	8.3.0	8.4.0
2010-09	RAN#49	R5s100198	0175	-	LTE_TDD : Addition of GCF WI 91 EUTRA RRC test case 8.2.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100302	0200	-	Regression CR for LTE/SAE iwd_10wk22 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100268	0281	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100298	0206	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100260	0187	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100300	0205	-	Correction to EPC test case 9.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100226	0194	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100274	0155	-	Regression CR for LTE wk17 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100249	0191	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100228	0163	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.17	8.3.0	8.4.0
2010-09	RAN#49	R5s100293	0279	-	Addition of GCF WI 81 EUTRA DRB test case 12.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100224	0195	-	LTE_TDD: Addition of GCF WI 81 EUTRA RLC test case 7.2.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100270	0280	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.6.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100266	0152	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100295	0207	-	Addition of GCF WI 82 ESM test case 10.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100210	0170	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100287	0182	-	Correction to TFT filter identifier and precedence values	8.3.0	8.4.0
2010-09	RAN#49	R5s100222	0164	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100214	0168	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100189	0150	-	Regression CR for LTE wk17 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100220	0165	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100272	0157	-	Corrections to EUTRA MAC test case.	8.3.0	8.4.0
2010-09	RAN#49	R5s100187	0149	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100273	0156	-	Corrections to EUTRA RLC test case 7.2.2.6 and 7.2.2.10	8.3.0	8.4.0
2010-09	RAN#49	R5s100279	0181	-	Regression CR for LTE wk22 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100208	0171	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.2.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100256	0154	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.21	8.3.0	8.4.0
2010-09	RAN#49	R5s100283	0184	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100291	0180	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100301	0204	-	Correction to EUTRA test case 7.1.4.6	8.3.0	8.4.0

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2010-09	RAN#49	R5s100196	0176	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100258	0188	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100234	0160	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.3.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100303	0217	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.7.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100285	0220	-	LTE_TDD : Addition of GCF WI 92 EUTRA Multi layer test case 13.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100247	0192	-	LTE_TDD: Addition of GCF WI 81 EUTRA PDCP test case 7.3.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100238	0158	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.4.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100240	0148	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100236	0159	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100262	0186	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.3.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100305	0203	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100216	0167	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.2.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100218	0166	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.2.9	8.3.0	8.4.0
2010-09	RAN#49	R5s100264	0153	-	Addition of GCF WI 81 EUTRA RLC test case 7.2.3.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100281	0185	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100194	0177	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100190	0179	-	LTE_TDD : Addition of GCF WI 91 EUTRA RRC test case 8.1.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100202	0173	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100204	0172	-	LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100253	0189	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100251	0190	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100245	0193	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.3.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100200	0174	-	LTE_TDD : Addition of GCF WI 81 EUTRA RRC test case 8.5.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100288	0183	-	Addition of GCF WI 82 EPC Multi-layer test case 13.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100192	0178	-	LTE_TDD : Addition of GCF WI 91 EUTRA RRC test case 8.1.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100230	0162	-	LTE_TDD : Addition of GCF WI 91 EUTRA RLC test case 7.2.3.20	8.3.0	8.4.0
2010-09	RAN#49	R5s100242	0147	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100307	0202	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100309	0201	-	Addition of GCF WI 81 EUTRA PDCP test case 7.3.5.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100311	0197	-	Addition of GCF WI-081 EUTRA RRC test case 8.1.2.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100313	0199	-	Addition of GCF WI 82 ESM test case 10.5.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100317	0198	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100319	0196	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100321	0219	-	Correction to EUTRA MAC 7.1.7.1.x test cases	8.3.0	8.4.0
2010-09	RAN#49	R5s100322	0218	-	Addition of GCF WI 82 EPC test case 9.2.1.1.20	8.3.0	8.4.0
2010-09	RAN#49	R5s100324	0216	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100326	0215	-	Addition of GCF WI 82 EPC test case 10.6.1	8.3.0	8.4.0

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2010-09	RAN#49	R5s100329	0211	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100331	0210	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.9	8.3.0	8.4.0
2010-09	RAN#49	R5s100333	0209	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100335	0244	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100337	0243	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100339	0208	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC-UM test case 7.2.2.5.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100341	0212	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC-UM test case 7.2.2.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100343	0213	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100345	0242	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100347	0214	-	Correction of GCF WI-081 E-UTRA PDCP test case 7.3.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100348	0221	-	Addition of GCF WI-081 E-UTRA RRC test case 8.1.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100350	0264	-	Addition of GCF WI-082 EMM test case 9.2.1.1.9	8.3.0	8.4.0
2010-09	RAN#49	R5s100184	0151	-	TTCN Correction to 36.523-3 LTE/SAE NAS definition of LAIList	8.3.0	8.4.0
2010-09	RAN#49	R5s100232	0161	-	LTE_TDD : Addition of GCF WI 91 EUTRA PDCP test case 7.3.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100352	0263	-	Addition of GCF WI-082 EMM test case 9.2.1.1.10	8.3.0	8.4.0
2010-09	RAN#49	R5s100354	0233	-	Corrections to EUTRA MAC test case 7.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100356	0232	-	Corrections to EUTRA Idle Mode Testcases 6.1.2.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100358	0241	-	Addition of GCF WI 82 EPC test case 9.2.1.1.14	8.3.0	8.4.0
2010-09	RAN#49	R5s100360	0286	-	Addition of GCF WI 82 ESM test case 10.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100362	0285	-	Addition of GCF WI 82 ESM test case 10.7.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100364	0293	-	Addition of GCF WI 82 ESM test case 10.7.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100366	0240	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100368	0239	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100370	0238	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100372	0237	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100374	0236	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100376	0235	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100378	0234	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.13	8.3.0	8.4.0
2010-09	RAN#49	R5s100380	0231	-	Corrections to EUTRA EMM Testcases 9.2.1.1.20	8.3.0	8.4.0
2010-09	RAN#49	R5s100381	0227	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100383	0226	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.18	8.3.0	8.4.0
2010-09	RAN#49	R5s100385	0230	-	Correction to EUTRA DRB test cases 12.2.1, 12.2.2, 12.2.3, 12.2.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100386	0229	-	Correction to GCF WI-081 EUTRA RLC Testcase 7.2.3.10	8.3.0	8.4.0
2010-09	RAN#49	R5s100387	0228	-	Correction to GCF WI-081 EUTRA RLC Testcase 7.2.3.16	8.3.0	8.4.0
2010-09	RAN#49	R5s100388	0224	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.5.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100390	0223	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100392	0225	-	Correction to the function fl_EUTRA_InitPhysicalCellId	8.3.0	8.4.0

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2010-09	RAN#49	R5s100394	0222	-	Addition of GCF WI 82 EPC test case 9.2.3.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100398	0262	-	Regression CR for LTE wk26 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100400	0300	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100402	0299	-	6.1.2.2 LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100405	0253	-	LTE_TDD:Corrections to EUTRA RLC test cases regarding	8.3.0	8.4.0
2010-09	RAN#49	R5s100406	0261	-	subframe offset calculation for TDD  LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100212	0169	-	7.2.3.6 LTE_TDD : Addition of GCF WI 91 EUTRA MAC test case 7.1.4.15	8.3.0	8.4.0
2010-09	RAN#49	R5s100408	0260	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100412	0259	-	7.2.3.7 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100414	0258	-	7.2.3.8   LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100416	0257	-	7.2.3.9  LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100418	0256	-	7.2.3.14 LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100420	0278	-	7.2.3.15 LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.8	8.3.0	8.4.0
2010-09	RAN#49	R5s100422	0277	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100424	0275	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC UM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100426	0274	-	7.2.2.8   LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100430	0289	-	7.2.3.13  LTE_TDD: Addition of GCF WI 91 EUTRA RLC AM test case	8.3.0	8.4.0
2010-09	RAN#49	R5s100432	0273	-	7.2.3.21 LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100434	0272	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100436	0271	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100438	0270	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100440	0269	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100442	0268	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.5	8.3.0	8.4.0
2010-09	RAN#49	R5s100444	0267	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.2.2	8.3.0	8.4.0
2010-09	RAN#49	R5s100446	0276	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.2.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100457	0255	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.2.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100458	0254	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.2.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100459	0250	-	Corrections to GCF WI-081EUTRA RRC Testcase 8.5.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100461	0249	-	Corrections to GCF WI-082 EUTRA ESM Testcase 10.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100462	0252	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.3.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100463	0251	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100464	0288	-	Addition of GCF WI 82 ESM test case 10.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100466	0247	-	Regression CR for LTE wk26 ATS	8.3.0	8.4.0
2010-09	RAN#49	R5s100468	0248	-	Corrections to GCF WI-081EUTRA RLC Testcase 7.2.3.4	8.3.0	8.4.0
2010-09	RAN#49	R5s100469	0265	-	Corrections to GCF WI-081EUTRA DRB Testcase 12.2.1 and	8.3.0	8.4.0
2010-09	RAN#49	R5s100472	0287	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.2.11	8.3.0	8.4.0
2010-09	RAN#49	R5s100475	0266	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.6	8.3.0	8.4.0

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2010-09	RAN#49	R5s100477	0298	-	Addition of GCF WI-081 E-UTRA RRC test case 8.2.4.6	8.3.0	8.4.0
2010-09	RAN#49	R5s100479	0246	-	Corrections to GCF WI-082 EUTRA ESM Testcase 10.6.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100485	0245	-	Regression CR for LTE/SAE 10wk26 ATS [Revision of	8.3.0	8.4.0
2010-09	RAN#49	R5s100487	0284	-	R5s100485] Addition of GCF WI 82 EMM test case 9.2.3.1.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100489	0283	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100491	0282	-	Addition of GCF WI-081 E-UTRA RRC test case 8.3.1.8	8.3.0	8.4.0
2010-09	RAN#49	R5s100495	0290	-	Addition of GCF WI-081 E-UTRA RRC test case 8.3.1.3	8.3.0	8.4.0
2010-09	RAN#49	R5s100496	0292	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.1	8.3.0	8.4.0
2010-09	RAN#49	R5s100498	0291	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.7	8.3.0	8.4.0
2010-09	RAN#49	R5s100500	0297	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.2.8	8.3.0	8.4.0
2010-09	RAN#49	R5s100503	0295	-	Addition of GCF WI-081 E-UTRA Idle Mode test case 6.1.2.11	8.3.0	8.4.0
2010-09	RAN#49	R5s100505	0294	-	Addition of GCF WI-081 E-UTRA Idle Mode test case 6.1.2.15	8.3.0	8.4.0
2010-09	RAN#49	R5s100507	0296	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.2.9	8.3.0	8.4.0
2010-12	RAN#50	R5-106578	0301	-	Clarification on cell power change time	8.4.0	8.5.0
2010-12	RAN#50	R5-106675	0302	-	LTE test model updates	8.4.0	8.5.0
2010-12	RAN#50	RP-101151	0303	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	8.4.0	8.5.0
2010-12	RAN#50	R5s100399	0307	-	cases in the TC lists in 36.523-3 (prose), Annex A  Corrections to EUTRA RLC test case 7.2.3.2, 7.2.3.5, 7.2.3.18,	8.4.0	8.5.0
2010-12	RAN#50	R5s100448	0381	-	7.2.3.10  LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case	8.4.0	8.5.0
2010-12	RAN#50	R5s100450	0380	-	6.1.2.4 LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100454	0379	-	LTE_TDD: Addition of GCF WI 92 EUTRA Multi-layer test case	8.4.0	8.5.0
2010-12	RAN#50	R5s100470	0305	-	Addition of GCF WI 82 ESM test case 10.8.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100473	0309	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100493	0306	-	Addition of GCF WI-081 E-UTRA RRC test case 8.3.1.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100513	0304	-	LTE_TDD: Correction to f_EUTRA_SS_ConfigureActiveCell to	8.4.0	8.5.0
2010-12	RAN#50	R5s100515	0320	-	configure Tcell and sfn offset Correction to GCF WI-081 E-UTRA RRC test case 8.2.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100516	0319	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100520	0318	-	Regression CR for LTE wk33 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100522	0308	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100524	0316	-	Correction to GCF WI-081 E-UTRA RRC test cases 8.2.4.x	8.4.0	8.5.0
2010-12	RAN#50	R5s100525	0317	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100527	0315	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.1.2.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100529	0314	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.12	8.4.0	8.5.0
2010-12	RAN#50	R5s100531	0310	-	Correction of GCF WI-081 E-UTRA RLC test case 7.2.3.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100532	0325	-	Corrections to GCF WI-081EUTRA MAC Testcase 7.1.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100533	0313	-	Corrections to GCF WI-081 EUTRA MAC Testcase 7.1.4.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100535	0312	-	Corrections to Usage of Float Values in LTE TTCN ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100536	0311	-	Correction to GCF WI-082 E_UTRA EMM test case 9.2.3.1.5	8.4.0	8.5.0

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2010-12	RAN#50	R5s100538	0321	-	Regression CR for LTE wk37 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100539	0324	-	Correction to GCF WI-081 E-UTRA RRC test cases 8.1.2.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100541	0323	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.3.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100545	0322	-	Addition of GCF WI 82 EMM test case 9.2.1.1.1a	8.4.0	8.5.0
2010-12	RAN#50	R5s100548	0328	-	Correction of GCF WI-081 EUTRA RRC test case 8.2.4.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100549	0327	-	Correction of GCF WI-082 EPC test case 10.7.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100550	0326	-	Correction of GCF WI-082 EPC test case 10.3.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100555	0338	-	Correction to GCF WI-082 EMM test case 9.2.3.1.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100556	0329	-	Regression TTCN CR for IWD D10_wk37 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100557	0337	-	Correction to AT commands used in LTE ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100558	0336	-	Correction of GCF WI-081 EUTRA MAC test case 7.1.4.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100559	0335	-	Correction to L2 test cases to allow HARQ retransmissions	8.4.0	8.5.0
2010-12	RAN#50	R5s100560	0334	-	Correction to GCF WI-081 EUTRA PDCP test cases 7.3.5.x	8.4.0	8.5.0
2010-12	RAN#50	R5s100561	0333	-	Correction to GCF WI-081 EUTRA RRC test case 8.2.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100562	0332	-	Correction to GCF WI-081 EUTRA PDCP test case 7.3.5.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100563	0330	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.3.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100564	0331	-	Correction to GCF WI-081 EUTRA RRC test case 8.5.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100566	0341	-	Correction to GCF WI-081 EUTRA RLC test case 7.2.3.14	8.4.0	8.5.0
2010-12	RAN#50	R5s100571	0386	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100572	0340	-	Correction of GCF WI-081 E-UTRA MAC test case 7.1.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100573	0347	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100576	0339	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100579	0343	-	Correction to GCF WI-081 EUTRA PDCP test case 7.3.5.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100580	0342	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.3.1.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100582	0352	-	Addition of GCF WI 82 EMM test case 9.2.1.1.15	8.4.0	8.5.0
2010-12	RAN#50	R5s100584	0351	-	Addition of GCF WI 82 EMM test case 9.2.1.1.17	8.4.0	8.5.0
2010-12	RAN#50	R5s100586	0385	-	Addition of GCF WI 82 EMM SMS test case 11.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100588	0384	-	Addition of GCF WI 82 EMM SMS test case 11.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100590	0350	-	Addition of GCF WI 81 EUTRA test case 6.1.2.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100592	0349	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.3.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100593	0348	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.4.13	8.4.0	8.5.0
2010-12	RAN#50	R5s100595	0346	-	Correction to GCF WI-081 EUTRA RLC Testcase 7.2.2.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100597	0345	-	Addition of GCF WI 81 EUTRA RRC test case 9.2.1.1.13	8.4.0	8.5.0
2010-12	RAN#50	R5s100604	0383	-	Addition of GCF WI 82 EMM SMS test case 11.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100606	0382	-	Addition of GCF WI 82 EMM SMS test case 11.1.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100608	0344	-	Correction of GCF WI-081 E-UTRA TAU	8.4.0	8.5.0
2010-12	RAN#50	R5s100610	0367	-	Addition of GCF WI 82 EMM test case 9.2.1.1.7	8.4.0	8.5.0

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2010-12	RAN#50	R5s100614	0364	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case 6.1.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100616	0363	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100618	0362	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100620	0361	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100622	0360	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100624	0366	-	Addition of GCF WI 82 EMM test case 9.2.3.1.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100626	0359	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100628	0358	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100632	0357	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100634	0356	-	LTE_TDD: Addition of GCF WI 91 EUTRA RLC test case 7.2.3.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100636	0355	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100638	0354	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100640	0365	-	Addition of GCF WI 82 EMM test case 9.2.1.2.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100642	0353	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.7.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100644	0378	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case	8.4.0	8.5.0
2010-12	RAN#50	R5s100646	0377	-	6.1.2.6 LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100648	0376	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100650	0375	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100652	0374	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100654	0373	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100656	0372	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100658	0368	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100660	0371	-	Addition of GCF WI 82 EMM test case 9.2.2.2.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100662	0370	-	Addition of GCF WI 82 EMM test case 9.2.1.2.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100664	0369	-	Addition of GCF WI 82 EMM test case 9.2.3.2.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100669	0390	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100671	0389	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100673	0388	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100675	0398	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100678	0401	-	Addition of GCF WI 81 RRC test case 8.3.1.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100680	0400	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100682	0399	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100688	0397	-	Addition of GCF WI 82 EMM test case 9.2.1.1.21	8.4.0	8.5.0
2010-12	RAN#50	R5s100690	0396	-	Addition of GCF WI 84 EMM test case 9.2.1.1.22	8.4.0	8.5.0
2010-12	RAN#50	R5s100692	0402	-	Regression CR for LTE wk42 ATS	8.4.0	8.5.0
2010-12	RAN#50	R5s100693	0393	-	Addition of GCF WI 82 ESM test case 10.8.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100695	0392	-	Addition of GCF WI 82 ESM test case 10.8.3	8.4.0	8.5.0

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2010-12	RAN#50	R5s100697	0391	-	Addition of GCF WI 82 EMM test case 9.3.1.17	8.4.0	8.5.0
2010-12	RAN#50	R5s100699	0395	-	Addition of GCF WI 82 EUTRA DRB test case 12.2.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100701	0394	-	Addition of GCF WI 82 EMM test case 9.2.1.1.19	8.4.0	8.5.0
2010-12	RAN#50	R5s100703	0387	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.1.6	8.4.0	8.5.0
2010-12	RAN#50	R5s100705	0408	-	Addition of GCF Priority 3 E-UTRA RRC test case 8.2.1.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100707	0407	-	Addition of GCF Priority 3 E-UTRA RRC test case 8.5.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100709	0406	-	Correction of GCF WI-081 Test Case 7.1.4.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100712	0405	-	Addition of GCF WI 82 ESM test case 10.7.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100714	0404	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100720	0403	-	Addition of GCF WI 82 Multilayer test case 13.3.1.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100722	0409	-	Addition of GCF WI 82 EMM test case 9.2.1.1.23	8.4.0	8.5.0
2010-12	RAN#50	R5s100724	0414	-	Correction to IP address allocation and ESM cause for condition IPv4viaNAS_TestMode	8.4.0	8.5.0
2010-12	RAN#50	R5s100725	0413	-	Correction of the q-RxLevMin value in the sib5 interFreqCarrierFreqList	8.4.0	8.5.0
2010-12	RAN#50	R5s100726	0411	-	LTE_TDD: Resubmission of GCF WI 91 EUTRA RLC test case 7.2.2.10	8.4.0	8.5.0
2010-12	RAN#50	R5s100728	0412	-	Addition of GCF WI 82 EMM test case 9.3.1.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100730	0410	-	Addition of GCF WI 82 EMM test case 9.2.2.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100732	0422	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.11	8.4.0	8.5.0
2010-12	RAN#50	R5s100734	0421	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100738	0419	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100740	0418	-	LTE_TDD: Addition of GCF WI 93 EUTRA RRC test case 8.3.1.7	8.4.0	8.5.0
2010-12	RAN#50	R5s100742	0417	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100744	0416	-	Addition of GCF WI 82 Multilayer test case 13.3.1.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100746	0415	-	Addition of GCF WI 82 ESM test case 10.7.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100748	0423	-	Addition of GCF P3 E-UTRA ESM test case 10.5.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100750	0424	-	Addition of GCF P3 E-UTRA EMM test case 9.2.3.1.13	8.4.0	8.5.0
2010-12	RAN#50	R5s100754	0425	-	Correction of GCF WI-081 EPC test case 9.1.2.5	8.4.0	8.5.0
2010-12	RAN#50	R5s100755	0426	-	Correction of GCF WI-081 EMM test case 9.2.3.1.5 and 9.2.3.1.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100758	0434	-	Addition of GCF WI-82 P3 E-UTRA EMM test case 9.2.3.1.14	8.4.0	8.5.0
2010-12	RAN#50	R5s100760	0432	-	Correction of GCF WI-081 EPC test case 12.2.1 and 12.2.2	8.4.0	8.5.0
2010-12	RAN#50	R5s100761	0433	-	Correction of GCF WI-081 ESM test case 10.6.1, 10.4.1, 10.5.1, 10.5.3	8.4.0	8.5.0
2010-12	RAN#50	R5s100766	0431	-	Correction to GCF WI 81 EUTRA IDLE MODE test case 6.1.2.9	8.4.0	8.5.0
2010-12	RAN#50	R5s100767	0430	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.4.1	8.4.0	8.5.0
2010-12	RAN#50	R5s100768	0429	-	Correction to GCF WI 82 EPC SMS test cases 11.1.3 and 11.1.4	8.4.0	8.5.0
2010-12	RAN#50	R5s100769	0428	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.2.8	8.4.0	8.5.0
2010-12	RAN#50	R5s100784	0427	-	Addition of GCF WI 82 EMM test case 9.2.1.1.16	8.4.0	8.5.0
2010-12	RAN#50	R5s100787	0420	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.1.6	8.4.0	8.5.0
2011-03	RAN#51	RP-110170	0436	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.5.0	8.6.0

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2011-03	RAN#51	R5-110803	0435	-	Routine maintenance of LTE test model and postambles	8.5.0	8.6.0
2011-03	RAN#51	R5s100751	0470	-	Addition of GCF WI-081 EUTRA RRC InterRAT test case 8.3.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100772	0456	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.4.12	8.5.0	8.6.0
2011-03	RAN#51	R5s100773	0455	-	Correction to GCF WI 82 EPC SMS test cases 11.1.1, 11.1.2, 11.1.3, 11.1.4	8.5.0	8.6.0
2011-03	RAN#51	R5s100774	0513	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.15	8.5.0	8.6.0
2011-03	RAN#51	R5s100776	0512	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100778	0511	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100780	0485	-	Addition of GCF WI 82 EMM test case 9.2.2.2.14	8.5.0	8.6.0
2011-03	RAN#51	R5s100782	0510	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.7	8.5.0	8.6.0
2011-03	RAN#51	R5s100789	0509	-	Addition of GCF P3 E-UTRA EMM test case 9.1.2.6	8.5.0	8.6.0
2011-03	RAN#51	R5s100792	0508	-	Correction to EMM test cases 9.2.1.1.14, 9.2.3.1.2 and 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100793	0507	-	Addition of GCF P3 E-UTRA EMM test case 9.2.2.1.7	8.5.0	8.6.0
2011-03	RAN#51	R5s100795	0506	-	Addition of GCF P3 E-UTRA EMM test case 9.2.3.1.9a	8.5.0	8.6.0
2011-03	RAN#51	R5s100799	0505	-	Correction of GCF WI 82 ESM test case 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100800	0517	-	Correction to GCF WI-082 ESM test case 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100801	0469	-	Correction to GCF WI-081 PDCP / RRC intra-LTE intercell HO test	8.5.0	8.6.0
2011-03	RAN#51	R5s100802	0516	-	Cases Correction to GCF WI-081 EUTRA PDCP test case 7.3.1.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100803	0502	-	Regression CR for LTE WK42 ATS	8.5.0	8.6.0
2011-03	RAN#51	R5s100811	0515	-	Addition of GCF P3 E-UTRA EMM test case 9.2.1.1.25	8.5.0	8.6.0
2011-03	RAN#51	R5s100812	0468	-	Correction to GCF WI 82 EMM test case 9.2.1.2.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100813	0467	-	Correction to GCF WI 82 EMM test case 9.2.2.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100815	0514	-	Addition of GCF P3 E-UTRA EMM test case 9.2.1.1.26	8.5.0	8.6.0
2011-03	RAN#51	R5s100817	0466	-	Addition of GCF WI 82 EMM test case 9.2.3.1.28	8.5.0	8.6.0
2011-03	RAN#51	R5s100819	0465	-	Addition of GCF WI-082 EMM test case 9.2.3.1.27	8.5.0	8.6.0
2011-03	RAN#51	R5s100821	0464	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.2.4	8.5.0	8.6.0
2011-03	RAN#51	R5s100825	0463	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case	8.5.0	8.6.0
2011-03	RAN#51	R5s100827	0458	-	6.1.2.7 Addition of GCF WI 81 EUTRA RRC test case 8.1.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100829	0457	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case	8.5.0	8.6.0
2011-03	RAN#51	R5s100831	0462	-	6.1.2.9 LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.3.4	8.5.0	8.6.0
2011-03	RAN#51	R5s100833	0461	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.3.5	8.5.0	8.6.0
2011-03	RAN#51	R5s100835	0454	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle Mode test case	8.5.0	8.6.0
2011-03	RAN#51	R5s100837	0460	-	6.1.1.1 LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.6	8.5.0	8.6.0
2011-03	RAN#51	R5s100839	0459	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s100848	0484	-	Addition of GCF WI 81 LTE-C2K test case 8.3.2.7	8.5.0	8.6.0
2011-03	RAN#51	R5s100850	0478	-	Addition of GCF WI 81 RRC test case 8.3.3.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100852	0453	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.9	8.5.0	8.6.0
2011-03	RAN#51	R5s100854	0452	-	Addition of GCF WI 82 Multilayer test case 13.4.1.2	8.5.0	8.6.0

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2011-03	RAN#51	R5s100856	0437	-	Addition of GCF WI-82 EMM test case 9.2.3.1.23	8.5.0	8.6.0
2011-03	RAN#51	R5s100858	0451	-	Addition of GCF WI-82 EMM test case 9.2.3.1.19	8.5.0	8.6.0
2011-03	RAN#51	R5s100860	0450	-	Correction to GCF WI 82 EMM test cases 9.2.1.1.21 and 9.2.1.1.22	8.5.0	8.6.0
2011-03	RAN#51	R5s100863	0449	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.4.12	8.5.0	8.6.0
2011-03	RAN#51	R5s100865	0448	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100867	0447	-	LTE_TDD: Addition of GCF WI 92 Multilayer test case 13.3.1.1	8.5.0	8.6.0
2011-03	RAN#51	R5s100869	0446	-	LTE_TDD: Addition of GCF WI 92 Multilayer test case 13.4.1.2	8.5.0	8.6.0
2011-03	RAN#51	R5s100871	0473	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.3.6	8.5.0	8.6.0
2011-03	RAN#51	R5s100873	0474	-	Addition of GCF WI 81 EUTRA Idlemode test case 6.2.3.5	8.5.0	8.6.0
2011-03	RAN#51	R5s100876	0445	-	Correction to GCF WI 82 EMM test case 9.2.3.1.14	8.5.0	8.6.0
2011-03	RAN#51	R5s100877	0444	-	Addition of GCF WI 82 EMM test case 9.2.2.1.8	8.5.0	8.6.0
2011-03	RAN#51	R5s100879	0477	-	Addition of GCF WI 81 EUTRA test case 8.3.1.11	8.5.0	8.6.0
2011-03	RAN#51	R5s100881	0443	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.3.9	8.5.0	8.6.0
2011-03	RAN#51	R5s100883	0476	-	Addition of GCF WI 82 EMM test case 9.2.2.1.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110001	0442	-	Correction to GCF WI 81 EUTRA RRC test case 8.1.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110002	0440	-	Correction to GCF WI 82 ESM test case 10.8.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110003	0441	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110005	0439	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.1.7	8.5.0	8.6.0
2011-03	RAN#51	R5s110006	0438	-	Correction to GCF WI 82 EMM test case 9.1.2.6	8.5.0	8.6.0
2011-03	RAN#51	R5s110007	0475	-	Correction to EMM test cases	8.5.0	8.6.0
2011-03	RAN#51	R5s110008	0472	-	Regression CR for iwd-EUTRA-B2009-12_D10wk49 ATS	8.5.0	8.6.0
2011-03	RAN#51	R5s110009	0471	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.5.1.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110011	0483	-	Correction to GCF WI-082 ESM test cases 10.4.1 and 10.5.1 (( IP address assignment for second PDN)	8.5.0	8.6.0
2011-03	RAN#51	R5s110012	0482	-	Correction to GCF WI-081 MAC test case 7.2.3.10	8.5.0	8.6.0
2011-03	RAN#51	R5s110013	0481	-	Correction to GCF WI-081 EUTRA MAC test cases 7.1.7.x	8.5.0	8.6.0
2011-03	RAN#51	R5s110014	0480	-	Addition of GCF WI-081 EUTRA Idle Mode test case 6.2.2.1	8.5.0	8.6.0
2011-03	RAN#51	R5s110016	0479	-	Correction of RV values used in Dci1C scheduling for SI (BCCH)	8.5.0	8.6.0
2011-03	RAN#51	R5s110019	0492	-	Regression CR for LTE WK49 ATS	8.5.0	8.6.0
2011-03	RAN#51	R5s110020	0493	-	Addition of GCF WI 81 EUTRA test case 8.3.1.4	8.5.0	8.6.0
2011-03	RAN#51	R5s110024	0490	-	Addition of GCF WI 82 EMM test case 9.2.3.1.16	8.5.0	8.6.0
2011-03	RAN#51	R5s110026	0491	-	Addition of GCF WI 82 EMM test case 9.2.1.1.24	8.5.0	8.6.0
2011-03	RAN#51	R5s110028	0489	-	Addition of GCF WI 82 EMM test case 9.2.3.1.25	8.5.0	8.6.0
2011-03	RAN#51	R5s110030	0488	-	Correction to GCF WI 81 EUTRA RLC test case 7.2.3.21	8.5.0	8.6.0
2011-03	RAN#51	R5s110031	0501	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110033	0487	-	Correction to GCF WI 81 EUTRA PDCP test case 7.3.5.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110034	0486	-	Correction to use of DCI combination 1 (5 MHz) with 9 PRBs	8.5.0	8.6.0
2011-03	RAN#51	R5s110035	0499	-	Correction of NAS type definition in TS 36.523-3	8.5.0	8.6.0

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2011-03	RAN#51	R5s110036	0498	-	Correction to GCF WI 81 EUTRA MAC test case 7.1.4.6	8.5.0	8.6.0
2011-03	RAN#51	R5s110037	0497	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.2.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110038	0496	-	Addition of GCF WI 82 EMM test case 9.3.2.2	8.5.0	8.6.0
2011-03	RAN#51	R5s110040	0495	-	Addition of GCF WI 82 EMM test case 9.3.2.2a	8.5.0	8.6.0
2011-03	RAN#51	R5s110042	0494	-	Addition of GCF WI 81 EUTRA IDLE MODE test case 6.1.2.13	8.5.0	8.6.0
2011-03	RAN#51	R5s110046	0500	-	Correction of TTCN for EMM inter-RAT / inter-frequency test cases	8.5.0	8.6.0
2011-03	RAN#51	R5s110051	0504	-	Correction to GCF WI-082 E-UTRA test case 13.3.1.1	8.5.0	8.6.0
2011-03	RAN#51	R5s110052	0520	-	Correction to GCF WI-082 E-UTRA test case 9.2.3.1.8	8.5.0	8.6.0
2011-03	RAN#51	R5s110054	0519	-	Correction to GCF WI-082 E-UTRA ESM test cases 10.8.1 and 10.8.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110055	0518	-	Correction to GCF WI-082 E-UTRA ESM test case 10.4.1	8.5.0	8.6.0
2011-03	RAN#51	R5s110057	0503	-	Correction to GCF WI-081 MAC test case 7.1.2.6	8.5.0	8.6.0
2011-03	RAN#51	R5s110060	0523	-	Correction to GCF WI-081 E-UTRA MAC Testcase 7.1.2.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110061	0521	-	Correction to GCF WI 81 EUTRA Idle Mode test case 6.2.3.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110062	0522	-	Correction to GCF WI 81 EUTRA Idle Mode test case 6.2.3.5	8.5.0	8.6.0
2011-03	RAN#51	R5s110064	0525	-	Correction to GCF WI 82 SMS test cases	8.5.0	8.6.0
2011-03	RAN#51	R5s110068	0529	-	Addition of GCF WI 82 EMM test case 9.2.3.1.26	8.5.0	8.6.0
2011-03	RAN#51	R5s110070	0528	-	Correction to GCF WI 82 EMM test case 9.2.1.1.24	8.5.0	8.6.0
2011-03	RAN#51	R5s110073	0527	-	Addition of GCF WI 81 RRC test case 8.2.4.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110075	0526	-	Addition of GCF WI 82 EMM test case 9.2.2.1.3	8.5.0	8.6.0
2011-03	RAN#51	R5s110077	0524	-	Correction to GCF WI-081 MAC test case 7.1.4.4	8.5.0	8.6.0
2011-03	RAN#51	R5s110078	0533	-	Correction to GCF WI-082 NAS common module	8.5.0	8.6.0
2011-03	RAN#51	R5s110084	0531	-	Correction to GCF WI-082 E-UTRA EMM Testcase 9.2.2.1.9	8.5.0	8.6.0
2011-03	RAN#51	R5s110085	0530	-	Correction to GCF WI-081 E-UTRA MAC Testcase 7.1.4.13	8.5.0	8.6.0
2011-03	RAN#51	R5s110086	0532	-	Correction to GCF WI 82 ESM test case 10.4.1	8.5.0	8.6.0
2011-06	RAN#52	RP-110656	0536	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	8.6.0	9.0.0
2011-06	RAN#52	R5-112665	0535	-	Routine maintenance of LTE test model and postambles	8.6.0	9.0.0
2011-06	RAN#52	R5s110081	0564	-	Addition of GCF WI-081 EUTRA RRC InterRAT test case 8.1.3.8	8.6.0	9.0.0
2011-06	RAN#52	R5s110087	0582	-	Addition of GCF WI 81 EUTRA idle mode test case 6.2.2.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110089	0545	-	Addition of GCF WI 81 RRC test case 8.1.1.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110091	0544	-	Correction to GCF WI-082 test case 11.1.3 and 11.1.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110092	0543	-	Correction to GCF WI-081 EUTRA PDCP test cases 7.3.4.1 and	8.6.0	9.0.0
2011-06	RAN#52	R5s110094	0542	-	7.3.4.2  Resubmission of GCF WI 82 EMM test case 9.2.1.2.10	8.6.0	9.0.0
2011-06	RAN#52	R5s110096	0541	-	Correction to EUTRA MAC test case 7.1.4.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110097	0540	-	Correction to EUTRA MAC test case 7.1.2.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110098	0539	-	Correction to EUTRA RRC test case 8.2.4.7	8.6.0	9.0.0
2011-06	RAN#52	R5s110099	0538	-	Addition of GCF WI 82 EUTRA EMM test case 9.3.1.15	8.6.0	9.0.0
2011-06	RAN#52	R5s110101	0537	-	Correction to GCF WI 82 ESM test cases 10.7.2 & 10.8.1	8.6.0	9.0.0

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2011-06	RAN#52	R5s110109	0563	-	Addition of GCF WI 82 EUTRA EMM test case 9.3.1.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110112	0562	-	Correction to GCF WI-081 EUTRA <> UTRAN test cases 8.3.2.3,	8.6.0	9.0.0
2011-06	RAN#52	R5s110114	0561	-	8.1.3.6, 6.2.3.3, 6.2.3.5.  Correction to GCF WI-082 EMM test case 9.2.3.1.23	8.6.0	9.0.0
2011-06	RAN#52	R5s110115	0560	-	Correction to GCF WI-081 E-UTRA MAC test case 7.1.2.9	8.6.0	9.0.0
2011-06	RAN#52	R5s110116	0559	-	Correction to GCF WI-082 E-UTRA EMM test case 9.2.1.1.24	8.6.0	9.0.0
2011-06	RAN#52	R5s110117	0558	-	Correction to GCF WI-081 PDCP test cases 7.3.4.1 and 7.3.4.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110118	0557	-	Correction to EMM test cases 9.2.1.1.1 and 9.2.1.1.20	8.6.0	9.0.0
2011-06	RAN#52	R5s110120	0555	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.4.11	8.6.0	9.0.0
2011-06	RAN#52	R5s110121	0556	-	Correction to GCF WI-081 EUTRA PDCP test case 7.3.5.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110122	0554	-	Correction to previously accepted R5s110034 (( DCI combi 1 / 5 MHz / with 9 PRBs)	8.6.0	9.0.0
2011-06	RAN#52	R5s110123	0586	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.2.1	8.6.0	9.0.0
2011-06	RAN#52	R5s110125	0553	-	Correction EUTRA and EMM test cases	8.6.0	9.0.0
2011-06	RAN#52	R5s110127	0552	-	Addition of GCF WI 81 EUTRA idle mode test case 6.2.3.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110129	0551	-	Addition of GCF WI 82 EMM test case 9.2.1.2.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110131	0550	-	Addition of GCF WI 82 EMM test case 9.2.1.2.11	8.6.0	9.0.0
2011-06	RAN#52	R5s110133	0548	-	Addition of GCF WI 82 EMM test case 9.2.3.1.10	8.6.0	9.0.0
2011-06	RAN#52	R5s110135	0547	-	Addition of GCF WI 82 EMM test case 9.2.3.1.11	8.6.0	9.0.0
2011-06	RAN#52	R5s110137	0546	-	Addition of GCF WI 82 EMM test case 9.2.3.1.12	8.6.0	9.0.0
2011-06	RAN#52	R5s110139	0549	-	Correction to EMM test cases	8.6.0	9.0.0
2011-06	RAN#52	R5s110140	0579	-	Addition of GCF WI 82 EMM test case 9.2.3.1.15	8.6.0	9.0.0
2011-06	RAN#52	R5s110142	0581	-	Correction to GCF WI-082 EMM test case 9.1.3.1	8.6.0	9.0.0
2011-06	RAN#52	R5s110143	0578	-	Addition of GCF WI 82 EUTRA EMM test case 9.2.1.2.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110145	0577	-	Addition of GCF WI 82 EUTRA EMM test case 9.2.3.2.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110147	0580	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.4.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110149	0575	-	Correction to EUTRA SS security configuration steps	8.6.0	9.0.0
2011-06	RAN#52	R5s110150	0576	-	Correction to EMM test case 9.2.3.1.14	8.6.0	9.0.0
2011-06	RAN#52	R5s110151	0574	-	Addition of GCF WI 82 EMM test case 9.2.1.1.12	8.6.0	9.0.0
2011-06	RAN#52	R5s110153	0573	-	Correction to GCF WI-081 IDLE MODE test case 6.1.1.1	8.6.0	9.0.0
2011-06	RAN#52	R5s110154	0571	-	Correction to EUTRA_AspCommon_Templates.ttcn	8.6.0	9.0.0
2011-06	RAN#52	R5s110155	0572	-	Addition of GCF WI 82 EMM test case 9.2.3.3.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110157	0570	-	Correction to EMM test case 9.2.1.1.26	8.6.0	9.0.0
2011-06	RAN#52	R5s110158	0569	-	Addition of GCF WI 82 EMM test case 9.2.1.2.13	8.6.0	9.0.0
2011-06	RAN#52	R5s110160	0568	-	LTE_TDD: Addition of GCF WI 91 EUTRA Idle mode test case 6.1.2.13	8.6.0	9.0.0
2011-06	RAN#52	R5s110162	0567	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.10	8.6.0	9.0.0
2011-06	RAN#52	R5s110164	0566	-	LTE_TDD: Addition of GCF WI 92 EUTRA Multi-Layer test case 13.3.1.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110166	0565	-	Addition of GCF WI 81 EUTRA Idle mode test case 6.3.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110168	0620	-	Regression CR for LTE wk11 ATS	8.6.0	9.0.0

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2011-06	RAN#52	R5s110170	0585	-	Correction to EMM test case 9.2.3.1.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110171	0618	-	Regression CR for LTE wk11 ATS	8.6.0	9.0.0
2011-06	RAN#52	R5s110172	0584	-	Correction to EMM test case 9.2.3.1.5	8.6.0	9.0.0
2011-06	RAN#52	R5s110173	0619	-	Correction to EUTRA MAC test cases 7.1.6.1 and 7.1.6.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110174	0583	-	Correction to the use of Grant Allocation Type 2 in LTE wk11 ATS	8.6.0	9.0.0
2011-06	RAN#52	R5s110176	0615	-	Baseline upgrade of E-UTRA ATS to March-11 in Rel-9	8.6.0	9.0.0
2011-06	RAN#52	R5s110177	0608	-	Addition of GCF WI 82 EMM test case 9.3.1.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110179	0607	-	Addition of GCF WI 82 EMM test case 9.3.1.5	8.6.0	9.0.0
2011-06	RAN#52	R5s110181	0606	-	LTE_TDD: Addition of GCF WI 91 EUTRA PDCP test case 7.3.5.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110183	0605	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.7	8.6.0	9.0.0
2011-06	RAN#52	R5s110185	0604	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.7	8.6.0	9.0.0
2011-06	RAN#52	R5s110187	0603	-	Addition of GCF WI 82 EMM test case 9.2.1.2.5	8.6.0	9.0.0
2011-06	RAN#52	R5s110189	0602	-	Addition of GCF WI 82 EMM test case 9.2.1.2.7	8.6.0	9.0.0
2011-06	RAN#52	R5s110192	0601	-	Addition of GCF WI 82 EMM test case 9.2.1.2.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110194	0598	-	Addition of GCF WI 82 EMM test case 9.2.1.2.8	8.6.0	9.0.0
2011-06	RAN#52	R5s110196	0600	-	Correction to EUTRA RRC test case 8.2.4.7	8.6.0	9.0.0
2011-06	RAN#52	R5s110197	0599	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.1.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110199	0626	-	Addition of GCF WI 82 EMM test case 9.2.1.2.15	8.6.0	9.0.0
2011-06	RAN#52	R5s110201	0596	-	Correction to EUTRA test cases 7.1.3.9, 7.2.3.6, 7.2.3.18	8.6.0	9.0.0
2011-06	RAN#52	R5s110202	0597	-	Addition of GCF WI 82 EMM test case 9.2.3.2.9	8.6.0	9.0.0
2011-06	RAN#52	R5s110204	0595	-	Addition of GCF WI 82 EMM test case 9.2.1.2.9	8.6.0	9.0.0
2011-06	RAN#52	R5s110206	0594	-	Correction to EMM SMS test cases 11.1.3 and 11.1.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110207	0593	-	Correction of GCF WI 81 RLC test case 7.2.2.11	8.6.0	9.0.0
2011-06	RAN#52	R5s110208	0591	-	Correction to ESM test case 10.7.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110209	0590	-	Correction to EMM test cases 9.2.1.2.1 and 9.2.2.2.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110210	0592	-	Addition of GCF WI 81 EUTRA Idle Mode test case 6.2.3.4	8.6.0	9.0.0
2011-06	RAN#52	R5s110212	0589	-	Correction to EMM test case 9.1.2.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110213	0588	-	Correction to TFT templates	8.6.0	9.0.0
2011-06	RAN#52	R5s110214	0587	-	Correction to EMM test case 9.2.1.1.1a	8.6.0	9.0.0
2011-06	RAN#52	R5s110215	0611	-	Corrections to LTE / WCDMA InterRAT test cases	8.6.0	9.0.0
2011-06	RAN#52	R5s110216	0624	-	Addition of GCF WI-081 EUTRA RRC test case 8.4.1.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110218	0610	-	Correction to GCF WI-082 EMM test case 9.1.3.2	8.6.0	9.0.0
2011-06	RAN#52	R5s110219	0609	-	Correction to EUTRA and EMM test cases	8.6.0	9.0.0
2011-06	RAN#52	R5s110222	0617	-	Corrections to GCF WI-081 RLC test case 7.2.3.6	8.6.0	9.0.0
2011-06	RAN#52	R5s110223	0616	-	Correction of GCF WI81 MAC test case 7.1.2.9	8.6.0	9.0.0
2011-06	RAN#52	R5s110226	0614	-	Correction to EUTRA MAC test case 7.1.4.3	8.6.0	9.0.0
2011-06	RAN#52	R5s110227	0613	-	Correction to EMM test case 9.2.2.1.2	8.6.0	9.0.0

2011-06   RAN#52   R55110234   0625   Correction to EMM test case 9.2.1.1.19   8.6.0   9.00	Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2011-06   RAN#52   R5s110232   G622   Correction to EMM MRAT test cases   8.6.0   9.0.0	2011-06	RAN#52	R5s110228	0612	-	Correction to EMM test cases 9.4.1, 9.4.2, 9.4.3, 9.4.4	8.6.0	9.0.0
2011-06   RAN#52   R5s110233   2021   Correction of type record VoiceDomainPref   8.6.0   9.0.0	2011-06	RAN#52	R5s110230	0623	-	Correction to GCF WI-082 EMM test cases 9.3.1.7 and 9.3.1.7a	8.6.0	9.0.0
2011-06   RAN#52   R55110234   0625   Correction to EMM test case 9.2.1.1.19   8.6.0   9.00	2011-06	RAN#52	R5s110232	0622	-	Correction to EMM MRAT test cases	8.6.0	9.0.0
2011-06   RANIS2   R5s110235   630   Correction of UL EARFCN for FDD Band 19   8.6.0   9.0.0	2011-06	RAN#52	R5s110233	0621	-	Correction of type record VoiceDomainPref	8.6.0	9.0.0
Addition of GCF WI 81 EUTRA MAC test case 7.1.5.2   8.6.0   9.0.0	2011-06	RAN#52	R5s110234	0625	-	Correction to EMM test case 9.2.1.1.19	8.6.0	9.0.0
2011-06   RAN#52   R5s110228   0628   -   Addition of GCF WI 81 EUTRA MAC test case 7.1.5.4   8.6.0   9.0.0	2011-06	RAN#52	R5s110235	0630	-	Correction of UL EARFCN for FDD Band 19	8.6.0	9.0.0
2011-06   RAN#52   R\$5110242   0627   Correction to LTE ATS   8.6.0   9.0.0	2011-06	RAN#52	R5s110236	0629	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.5.2	8.6.0	9.0.0
2011-06   RAN#52   R5s110243   0631   Correction to GCF WI-081 MAC test case 7.2.3.10   8.6.0   9.0.0	2011-06	RAN#52	R5s110238	0628	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.5.4	8.6.0	9.0.0
2011-06   RAN#52   R5s110244   0632   Correction to EUTRA/EMM test cases   8.6.0   9.0.0   9.0.1	2011-06	RAN#52	R5s110242	0627	-	Correction to LTE ATS	8.6.0	9.0.0
2011-09   RAN#53   RF-111161   634   -     Correction in history table: removal of R5-112253.   9.0.0   9.0.1	2011-06	RAN#52	R5s110243	0631	-	Correction to GCF WI-081 MAC test case 7.2.3.10	8.6.0	9.0.0
CR to 36.523-3: Add new verified and e-mail agreed TTCN test   9.0.1   9.1.0	2011-06	RAN#52	R5s110244	0632	-	Correction to EUTRA/EMM test cases	8.6.0	9.0.0
Cases in the TC lists in 36.523-3 (prose), Annex A   9.0.1   9.1.0	2011-06	-	-	-	-	Correction in history table: removal of R5-112253.	9.0.0	9.0.1
2011-09   RAN#53   R5-113734   0633   - Routine maintenance and updates   9.0.1   9.1.0   9.1.0   2011-09   RAN#53   R5s110245   0642   - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.8   9.0.1   9.1.0   9.1.0   2011-09   RAN#53   R5s110247   0643   - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.6   9.0.1   9.1.0   9.1.0   2011-09   RAN#53   R5s110249   0644   - Addition of GCF WI 81 EUTRA RRC test case 8.5.1.4   9.0.1   9.1.0   9.1.0   2011-09   RAN#53   R5s110251   0646   - Addition of GCF WI 82 EMM test case 9.2.3.2.15   9.0.1   9.1.0   9.1.0   2011-09   RAN#53   R5s110255   0649   - Addition of GCF WI 82 EMM test case 9.2.3.2.5   9.0.1   9.1.0   9.1.0   2011-09   RAN#53   R5s110255   0649   - Addition of GCF WI 82 EMM test case 9.2.3.2.6   9.0.1   9.1.0   9.1.0   2011-09   RAN#53   R5s110259   0645   - Addition of GCF WI 82 EMM test case 9.2.3.2.7   9.0.1   9.1.0   2011-09   RAN#53   R5s110259   0645   - Addition of GCF WI 82 EMM test case 9.2.3.2.10   9.0.1   9.1.0   2011-09   RAN#53   R5s110261   0647   - Addition of GCF WI 82 EMM test case 9.2.3.2.12   9.0.1   9.1.0   2011-09   RAN#53   R5s110263   0640   - Addition of GCF WI 82 EMM test case 9.2.3.2.12   9.0.1   9.1.0   2011-09   RAN#53   R5s110265   0641   - Addition of GCF WI 82 EMM test case 9.2.3.2.2   9.0.1   9.1.0   2011-09   RAN#53   R5s110265   0641   - Addition of GCF WI 82 EMM test case 9.2.3.2.2   9.0.1   9.1.0   2011-09   RAN#53   R5s110265   0639   - Addition of GCF WI 82 EMM test case 9.2.3.2.2   9.0.1   9.1.0   2011-09   RAN#53   R5s110275   0639   - Addition of GCF WI 82 EMM test case 9.2.3.2.2   9.0.1   9.1.0   2011-09   RAN#53   R5s110275   0636   - Addition of GCF WI 82 EMM test case 9.2.3.2.2   9.0.1   9.1.0   2011-09   RAN#53   R5s110275   0636   - Addition of GCF WI 81 EUTRA RCC test case 8.2.4.8   9.0.1   9.1.0   2011-09   RAN#53   R5s110275   0636   - Addition of GCF WI 81 EUTRA RCC test case 8.2.4.8   9.0.1   9.1.0   2011-09   RAN#53   R5s110276   0636   - Addition of GCF WI 81 EUTRA RCC test case 8.2.4.8   9.0.1   9.1.0	2011-09	RAN#53	RP-111161	0634	-		9.0.1	9.1.0
2011-09         RAN#53         R5s110247         0643         -         Addition of GCF WI 81 EUTRA RRC test case 8.1.2.6         9.0.1         9.1.0           2011-09         RAN#53         R5s110249         0644         -         Addition of GCF WI 81 EUTRA RRC test case 8.5.1.4         9.0.1         9.1.0           2011-09         RAN#53         R5s110251         0646         -         Addition of GCF WI 82 EMM test case 9.2.3.2.15         9.0.1         9.1.0           2011-09         RAN#53         R5s110253         0650         -         Addition of GCF WI 82 EMM test case 9.2.3.2.5         9.0.1         9.1.0           2011-09         RAN#53         R5s110255         0649         -         Addition of GCF WI 82 EMM test case 9.2.3.2.6         9.0.1         9.1.0           2011-09         RAN#53         R5s110257         0648         -         Addition of GCF WI 82 EMM test case 9.2.3.2.7         9.0.1         9.1.0           2011-09         RAN#53         R5s110261         0647         -         Addition of GCF WI 82 EMM test case 9.2.3.2.10         9.0.1         9.1.0           2011-09         RAN#53         R5s110263         0640         -         Addition of GCF WI 82 EMM test case 9.2.3.2.12         9.0.1         9.1.0           2011-09         RAN#53         R5s	2011-09	RAN#53	R5-113734	0633	-		9.0.1	9.1.0
2011-09 RAN#53 R5s110249 0644 - Addition of GCF WI 81 EUTRA RRC test case 8.5.1.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110251 0646 - Addition of GCF WI 82 EMM test case 9.2.3.2.15 9.0.1 9.1.0 2011-09 RAN#53 R5s110255 0649 - Addition of GCF WI 82 EMM test case 9.2.3.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110257 0648 - Addition of GCF WI 82 EMM test case 9.2.3.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110257 0648 - Addition of GCF WI 82 EMM test case 9.2.3.2.7 9.0.1 9.1.0 2011-09 RAN#53 R5s110259 0645 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110261 0647 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110263 0640 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA EMM test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI	2011-09	RAN#53	R5s110245	0642	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.8	9.0.1	9.1.0
2011-09 RAN#53 R5s110251 0646 - Addition of GCF WI 82 EMM test case 9.2.3.2.15 9.0.1 9.1.0 2011-09 RAN#53 R5s110253 0650 - Addition of GCF WI 82 EMM test case 9.2.3.2.5 9.0.1 9.1.0 2011-09 RAN#53 R5s110255 0649 - Addition of GCF WI 82 EMM test case 9.2.3.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110257 0648 - Addition of GCF WI 82 EMM test case 9.2.3.2.7 9.0.1 9.1.0 2011-09 RAN#53 R5s110259 0645 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110261 0647 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110261 0647 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA RRC test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction to the ESM teutra EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0636 - Addition of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0636 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0636 - Addition of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0	2011-09	RAN#53	R5s110247	0643	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.6	9.0.1	9.1.0
2011-09 RAN#53 R5s110253 0650 - Addition of GCF WI 82 EMM test case 9.2.3.2.5 9.0.1 9.1.0 2011-09 RAN#53 R5s110255 0649 - Addition of GCF WI 82 EMM test case 9.2.3.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110257 0648 - Addition of GCF WI 82 EMM test case 9.2.3.2.7 9.0.1 9.1.0 2011-09 RAN#53 R5s110259 0645 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0645 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110261 0647 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110263 0640 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110249	0644	-	Addition of GCF WI 81 EUTRA RRC test case 8.5.1.4	9.0.1	9.1.0
2011-09 RAN#53 R5s110255 0649 - Addition of GCF WI 82 EMM test case 9.2.3.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110257 0648 - Addition of GCF WI 82 EMM test case 9.2.3.2.7 9.0.1 9.1.0 2011-09 RAN#53 R5s110259 0645 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110261 0647 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110263 0640 - Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 82 EMM test case 9.2.3.2.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA RRC test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0636 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110280 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110251	0646	-	Addition of GCF WI 82 EMM test case 9.2.3.2.15	9.0.1	9.1.0
2011-09 RAN#53 R5s110257 0648 - Addition of GCF WI 82 EMM test case 9.2.3.2.7 9.0.1 9.1.0 2011-09 RAN#53 R5s110259 0645 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110261 0647 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110263 0640 - Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 82 EMM test case 9.2.3.2.11 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA RRC test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110253	0650	-	Addition of GCF WI 82 EMM test case 9.2.3.2.5	9.0.1	9.1.0
2011-09 RAN#53 R5s110269 0645 - Addition of GCF WI 82 EMM test case 9.2.3.2.10 9.0.1 9.1.0 2011-09 RAN#53 R5s110263 0640 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110263 0640 - Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 82 EMM test case 9.2.3.2.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s11028 0635 - Correction of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110280 0635 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110280 0635 - Correction of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110280 0635 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110280 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110255	0649	-	Addition of GCF WI 82 EMM test case 9.2.3.2.6	9.0.1	9.1.0
2011-09 RAN#53 R5s110261 0647 - Addition of GCF WI 82 EMM test case 9.2.3.2.12 9.0.1 9.1.0 2011-09 RAN#53 R5s110263 0640 - Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110257	0648	-	Addition of GCF WI 82 EMM test case 9.2.3.2.7	9.0.1	9.1.0
2011-09 RAN#53 R5s110265 0640 - Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3 9.0.1 9.1.0 2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Addition of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110259	0645	-	Addition of GCF WI 82 EMM test case 9.2.3.2.10	9.0.1	9.1.0
2011-09 RAN#53 R5s110265 0641 - Addition of GCF WI 82 EMM test case 9.2.3.2.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.19 9.0.1 9.1.0	2011-09	RAN#53	R5s110261	0647	-	Addition of GCF WI 82 EMM test case 9.2.3.2.12	9.0.1	9.1.0
2011-09 RAN#53 R5s110267 0672 - Addition of GCF WI 82 EMM test case 9.2.3.2.4 9.0.1 9.1.0 2011-09 RAN#53 R5s110269 0639 - Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110263	0640	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3	9.0.1	9.1.0
2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11 9.0.1 9.1.0 2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0	2011-09	RAN#53	R5s110265	0641	-	Addition of GCF WI 82 EMM test case 9.2.3.2.8	9.0.1	9.1.0
2011-09 RAN#53 R5s110271 0671 - Addition of GCF WI 82 EMM test case 9.2.3.2.2 9.0.1 9.1.0 2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0 2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9 9.0.1 9.1.0	2011-09	RAN#53	R5s110267	0672	-	Addition of GCF WI 82 EMM test case 9.2.3.2.4	9.0.1	9.1.0
2011-09 RAN#53 R5s110273 0638 - Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8 9.0.1 9.1.0  2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0  2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0  2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0  2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0  2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0  2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0  2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9 9.0.1 9.1.0	2011-09	RAN#53	R5s110269	0639	-	Addition of GCF WI 86 EUTRA EMM test case 9.2.3.2.11	9.0.1	9.1.0
2011-09 RAN#53 R5s110275 0637 - Correction to the ESM test case 10.4.1 9.0.1 9.1.0 2011-09 RAN#53 R5s110276 0636 - Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6 9.0.1 9.1.0 2011-09 RAN#53 R5s110278 0670 - Miscellaneous corrections to inter-RAT LTE-UTRAN ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110279 0669 - Regression CR for LTE wk15 ATS 9.0.1 9.1.0 2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9 9.0.1 9.1.0	2011-09	RAN#53	R5s110271	0671	-	Addition of GCF WI 82 EMM test case 9.2.3.2.2	9.0.1	9.1.0
2011-09       RAN#53       R5s110276       0636       -       Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6       9.0.1       9.1.0         2011-09       RAN#53       R5s110278       0670       -       Miscellaneous corrections to inter-RAT LTE-UTRAN ATS       9.0.1       9.1.0         2011-09       RAN#53       R5s110279       0669       -       Regression CR for LTE wk15 ATS       9.0.1       9.1.0         2011-09       RAN#53       R5s110282       0635       -       Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25       9.0.1       9.1.0         2011-09       RAN#53       R5s110285       0668       -       Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13       9.0.1       9.1.0         2011-09       RAN#53       R5s110287       0667       -       Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9       9.0.1       9.1.0	2011-09	RAN#53	R5s110273	0638	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.8	9.0.1	9.1.0
2011-09       RAN#53       R5s110278       0670       -       Miscellaneous corrections to inter-RAT LTE-UTRAN ATS       9.0.1       9.1.0         2011-09       RAN#53       R5s110279       0669       -       Regression CR for LTE wk15 ATS       9.0.1       9.1.0         2011-09       RAN#53       R5s110282       0635       -       Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25       9.0.1       9.1.0         2011-09       RAN#53       R5s110285       0668       -       Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13       9.0.1       9.1.0         2011-09       RAN#53       R5s110287       0667       -       Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9       9.0.1       9.1.0	2011-09	RAN#53	R5s110275	0637	-	Correction to the ESM test case 10.4.1	9.0.1	9.1.0
2011-09       RAN#53       R5s110279       0669       -       Regression CR for LTE wk15 ATS       9.0.1       9.1.0         2011-09       RAN#53       R5s110282       0635       -       Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25       9.0.1       9.1.0         2011-09       RAN#53       R5s110285       0668       -       Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13       9.0.1       9.1.0         2011-09       RAN#53       R5s110287       0667       -       Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9       9.0.1       9.1.0	2011-09	RAN#53	R5s110276	0636	-	Addition of GCF WI 81 EUTRA Idle mode test case 6.2.2.6	9.0.1	9.1.0
2011-09 RAN#53 R5s110282 0635 - Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25 9.0.1 9.1.0 2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9 9.0.1 9.1.0	2011-09	RAN#53	R5s110278	0670	-	Miscellaneous corrections to inter-RAT LTE-UTRAN ATS	9.0.1	9.1.0
2011-09 RAN#53 R5s110285 0668 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13 9.0.1 9.1.0 2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9 9.0.1 9.1.0	2011-09	RAN#53	R5s110279	0669	-	Regression CR for LTE wk15 ATS	9.0.1	9.1.0
2011-09 RAN#53 R5s110287 0667 - Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9 9.0.1 9.1.0	2011-09	RAN#53	R5s110282	0635	-	Correction of GCF WI 81 EUTRA EMM test case 9.2.3.1.25	9.0.1	9.1.0
	2011-09	RAN#53	R5s110285	0668	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.13	9.0.1	9.1.0
2011-09 RAN#53 R5s110289 0666 - Addition of GCF WI 82 ESM test case 10.8.5 9.0.1 9.1.0	2011-09	RAN#53	R5s110287	0667	-	Addition of GCF WI 81 EUTRA RRC test case 8.1.2.9	9.0.1	9.1.0
	2011-09	RAN#53	R5s110289	0666	-	Addition of GCF WI 82 ESM test case 10.8.5	9.0.1	9.1.0

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2011-09	RAN#53	R5s110291	0665	-	Addition of GCF WI-081 E-UTRA Idle Mode test case 6.1.2.10	9.0.1	9.1.0
2011-09	RAN#53	R5s110293	0664	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.7.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110295	0658	-	Correction to EUTRA_ConfigurationSteps	9.0.1	9.1.0
2011-09	RAN#53	R5s110296	0657	-	Correction to EUTRA_Timing	9.0.1	9.1.0
2011-09	RAN#53	R5s110297	0656	-	Correction to EUTRA MAC test cases 7.1.6.x	9.0.1	9.1.0
2011-09	RAN#53	R5s110298	0663	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110300	0662	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.1.2.13	9.0.1	9.1.0
2011-09	RAN#53	R5s110302	0661	-	LTE_TDD :Addition of GCF WI 91 EUTRA RRC test case 8.5.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110303	0655	-	Correction to EUTRA PDCP test case 7.3.5.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110306	0660	-	Correction to EUTRA Paging procedure	9.0.1	9.1.0
2011-09	RAN#53	R5s110307	0654	-	Correction to EMM test cases 9.2.1.1.1a, 9.2.2.1.1, 9.2.2.1.8, 9.2.3.2.11 and 9.3.1.16	9.0.1	9.1.0
2011-09	RAN#53	R5s110308	0653	-	Correction to EMM test cases 9.2.3.1.15 and 9.2.3.1.18	9.0.1	9.1.0
2011-09	RAN#53	R5s110309	0652	-	Improving LTE/SAE test cases by indicating the need for special Test USIM settings	9.0.1	9.1.0
2011-09	RAN#53	R5s110310	0678	-	Correction to EUTRA RRC test case 8.5.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110311	0659	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.8.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110313	0651	-	Correction to GCF WI-082 ESM test cases 10.2.1. and 10.4.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110314	0676	-	Modification of f_EUTRA_CellInfo_GetAntennaInfoCommon	9.0.1	9.1.0
2011-09	RAN#53	R5s110315	0677	-	Correction to EUTRA Idle Mode test case 6.2.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110317	0675	-	Correction to EMM test case 9.2.3.1.16	9.0.1	9.1.0
2011-09	RAN#53	R5s110318	0681	-	Regression CR for LTE wk23 ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110319	0674	-	Correction to EUTRA test case 6.1.2.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110320	0673	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110322	0692	-	Correction to GCF WI 86 RRC test case 8.1.3.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110323	0691	-	Addition of GCF WI-081 E-UTRA IDLE MODE testcase 6.1.2.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110325	0690	-	Addition of GCF WI-081 E-UTRA IDLE MODE testcase 6.1.2.14	9.0.1	9.1.0
2011-09	RAN#53	R5s110327	0689	-	Addition of GCF WI 81 EUTRA DRB test case 12.2.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110329	0687	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.1.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110330	0688	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110336	0686	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110338	0685	-	Addition of GCF WI 81 EUTRA DRB test case 12.3.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110340	0716	-	Regression CR for LTE wk23 ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110341	0684	-	Correction to configuration of EUTRA SIB scheduling	9.0.1	9.1.0
2011-09	RAN#53	R5s110342	0682	-	Correction to f_EUTRA_SS_SetupSchedulingInfo and	9.0.1	9.1.0
2011-09	RAN#53	R5s110346	0683	-	f_EUTRA_IdleUpdated_Step5_14 Addition of GCF WI 82 EMM test case 9.2.3.2.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110348	0715	-	Correction to EUTRA NAS cells initialization	9.0.1	9.1.0
2011-09	RAN#53	R5s110350	0680	-	Correction to GCF WI-081 RRC test case 8.5.4.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110351	0679	-	Regression CR for LTE wk23 MRAT Testcases	9.0.1	9.1.0

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2011-09	RAN#53	R5s110352	0711	-	Correction to GCF WI 81 EUTRA RRC test case 8.3.3.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110353	0710	-	Correction of frequencies used for LTE Band 6, 14, 17 and 38	9.0.1	9.1.0
2011-09	RAN#53	R5s110354	0709	-	Addition of GCF WI 81 EUTRA RRC test case 8.3.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110356	0708	-	Correction to EUTRA RRC test cases 8.2.4.1, 8.2.4.4 and 8.2.4.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110357	0707	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.3.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110359	0706	-	Addition of GCF WI 82 EMM test case 9.2.3.1.18	9.0.1	9.1.0
2011-09	RAN#53	R5s110361	0705	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110363	0704	-	Correction to GCF WI 86 EMM test cases 9.2.3.2.5, 9.2.3.2.6 and 9.2.3.2.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110364	0703	-	Correction of GCF WI 82 EMM test cases 9.2.1.2.5,TC 9.2.1.2.6 and TC 9.2.1.2.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110365	0702	-	Correction to GCF WI-082 ESM test cases 10.2.1 and 10.4.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110368	0701	-	Correction to EMM test case 9.2.1.2.11	9.0.1	9.1.0
2011-09	RAN#53	R5s110369	0700	-	Addition of GCF WI 82 EMM test case 9.2.1.1.11	9.0.1	9.1.0
2011-09	RAN#53	R5s110371	0699	-	Addition of GCF WI 81 Idle Mode test case 6.2.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110373	0698	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.8.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110375	0697	-	Addition of GCF WI-082 E-UTRA ESM testcase 10.8.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110377	0696	-	Addition of GCF WI-087 EUTRA Idle mode InterRAT test case 6.2.2.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110382	0695	-	Correction to EUTRA RRC test case 8.4.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110383	0694	-	Correction of EUTRA RLC test case 7.2.3.9	9.0.1	9.1.0
2011-09	RAN#53	R5s110384	0693	-	Addition of GCF WI 82 EMM test case 9.2.3.1.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110386	0714	-	Correction to UTRAN common modules in LTE ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110389	0713	-	Correction to GCF WI81 RLC test case 7.2.3.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110394	0712	-	Correction of RLC and MAC test cases for TDD scheduling	9.0.1	9.1.0
2011-09	RAN#53	R5s110395	0732	-	Correction to EMM test cases	9.0.1	9.1.0
2011-09	RAN#53	R5s110396	0719	-	Correction to EUTRA RRC test case 8.5.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110397	0726	-	LTE_TDD: Addition of GCF WI 81 EUTRA test case 6.1.2.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110399	0725	-	LTE_TDD: Addition of GCF WI 81 EUTRA test case 6.1.2.14	9.0.1	9.1.0
2011-09	RAN#53	R5s110401	0724	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.1.1.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110403	0723	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.1.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110405	0722	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.3.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110407	0721	-	LTE_TDD: Addition of GCF WI 81 EUTRA RRC test case 8.1.2.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110409	0720	-	LTE_TDD: Addition of GCF WI 81 E-UTRA DRB test case 12.2.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110411	0717	-	Correction of MAC test cases 7.1.4.15 and 7.1.4.16 for TDD	9.0.1	9.1.0
2011-09	RAN#53	R5s110412	0718	-	scheduling LTE_TDD: Addition of GCF WI-091 E-UTRA RRC testcase 8.2.4.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110414	0738	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.5.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110416	0737	-	LTE_TDD: Addition of GCF WI 91 EUTRA MAC test case 7.1.5.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110418	0794	-	Correction to GCF WI-081 EUTRA PDCP test cases 7.3.4.1 and	9.0.1	9.1.0
2011-09	RAN#53	R5s110421	0736	-	7.3.4.2 Correction to GCF WI-086 /-087 EMM test case 9.2.1.2.15	9.0.1	9.1.0
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2011-09	RAN#53	R5s110422	0735	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.5.x	9.0.1	9.1.0
2011-09	RAN#53	R5s110423	0734	-	Correction to GCF WI-082 EMM test case 9.2.1.2.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110424	0733	-	Correction to GCF WI-082 EMM test case 9.2.3.1.26	9.0.1	9.1.0
2011-09	RAN#53	R5s110425	0731	-	Corrections required for IPv6	9.0.1	9.1.0
2011-09	RAN#53	R5s110426	0730	-	Correction to GCF WI 82 EMM test cases 9.2.3.1.9a and 9.2.3.1.23	9.0.1	9.1.0
2011-09	RAN#53	R5s110427	0729	-	Correction to EUTRA EMM test cases 9.4.1, 9.4.2, 9.4.3, 9.4.4,	9.0.1	9.1.0
2011-09	RAN#53	R5s110428	0728	-	9.1.3.2 and 9.2.1.1.1a  LTE_TDD: Addition of GCF WI 081 EUTRA Idle Mode test case	9.0.1	9.1.0
2011-09	RAN#53	R5s110430	0727	-	6.3.6 Correction to Multilayer test case 13.3.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110431	0772	-	Correction to UTRAN Default Handling in LTE/SAE ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110432	0771	-	Correction to ESM testcase 10.7.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110433	0770	-	Correction to LTE<>GERAN Testcases	9.0.1	9.1.0
2011-09	RAN#53	R5s110435	0788	-	Addition of GCF WI-086 E-UTRA RRC testcase 8.3.2.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110437	0768	-	LTE_TDD: Addition of GCF WI-091 E-UTRA RRC testcase 8.3.1.11		9.1.0
2011-09	RAN#53	R5s110439		-	Addition of GCF WI 82 EMM test case 9.1.5.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110441		-	Correction to GCF WI-081 EUTRA RRC test case 8.2.4.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110443			Correction to GCF WI 82 EMM test cases 9.3.1.4 and 9.3.1.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110445		<u> </u>	Correction to GCF WI-085 Interband Testcase 6.1.2.5	9.0.1	9.1.0
				<u> </u>	Correction to GCF WI-082 EMM Testcase 9.2.3.1.4		
2011-09	RAN#53	R5s110446				9.0.1	9.1.0
2011-09	RAN#53	R5s110447		-	Correction to GCF WI-081 RRC Testcase 8.1.3.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110448		-	Correction to GCF WI-082 EMM Testcases 9.2.1.2.10 and 9.2.3.1.26	9.0.1	9.1.0
2011-09	RAN#53	R5s110449	0763	-	Corrections required to support IPv6	9.0.1	9.1.0
2011-09	RAN#53	R5s110456	0766	-	Correction to GCF WI-081 EUTRA MAC test cases 7.1.3.9 and 7.1.4.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110461	0761	-	Correction to constant tsc_EUTRA_DelayForCellSelection	9.0.1	9.1.0
2011-09	RAN#53	R5s110462	0759	-	Addition of GCF WI-082 EMM test case 9.2.3.3.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110464	0758	-	Addition of GCF WI-081 EUTRA MAC test case 7.1.5.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110465	0747	-	Correction to UTRAN PS RB Establishment	9.0.1	9.1.0
2011-09	RAN#53	R5s110466	0749	-	Corrections to UTRAN GMM Service Request	9.0.1	9.1.0
2011-09	RAN#53	R5s110468	0756	-	Correction to the Idle Mode test case 6.1.2.10	9.0.1	9.1.0
2011-09	RAN#53	R5s110469	0757	-	Addition of GCF WI-081 EUTRA RRC test case 8.2.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110472	0755	-	Correction of EMM test cases 9.2.3.2.11, 9.2.1.1.13	9.0.1	9.1.0
2011-09	RAN#53	R5s110473	0754	-	Correction to EUTRA MAC test case 7.1.3.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110474	0752	-	Correction to GCF WI-091 EUTRA RLC test cases	9.0.1	9.1.0
2011-09	RAN#53	R5s110475	0751	-	Improvement to EUTRA IRAT preamble	9.0.1	9.1.0
2011-09	RAN#53	R5s110476	0753	-	Correction to EMM test case 9.3.1.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110478	0750	-	Correction to EMM test case 9.2.3.1.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110481	0746	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110483	0745	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.2	9.0.1	9.1.0

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2011-09	RAN#53	R5s110485	0744	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110487	0743	-	LTE_TDD: Addition of GCF WI 91 EUTRA DRB test case 12.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110489	0748	-	Correction to AT command to initiate CS speech call	9.0.1	9.1.0
2011-09	RAN#53	R5s110491	0742	-	Correction of EUTRA Idle Mode test cases 6.1.2.10	9.0.1	9.1.0
2011-09	RAN#53	R5s110492	0793	-	Addition of GCF WI-088 EUTRA –HRPD InterRAT test case 8.1.3.9	9.0.1	9.1.0
2011-09	RAN#53	R5s110494	0792	-	Addition of GCF WI-088 EUTRA –HRPD InterRAT test case 6.2.2.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110496	0791	-	Addition of GCF WI-088 EUTRA -HRPD InterRAT test case 6.2.3.8	9.0.1	9.1.0
2011-09	RAN#53	R5s110498	0775	-	Correction to GCF-WI-082 EMM test case 9.2.1.1.7	9.0.1	9.1.0
2011-09	RAN#53	R5s110499	0739	-	Correction to GCF WI-082 EUTRA Multi-Layer test case 13.3.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110500	0741	-	Correction of GCF WI 82 ESM test cases 10.7.3 and 10.8.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110505	0740	-	Addition of GCF WI 81 EUTRA RRC test case 8.2.4.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110509	0786	-	Addition of GCF WI 81 EUTRA test case 6.1.1.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110511	0785	-	Addition of GCF WI 81 EUTRA test case 6.1.1.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110513	0782	-	Addition of GCF WI-081 E-UTRA MAC testcase 7.1.5.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110515	0784	-	Correction to WI-086 EUTRA Idle Mode Testcase 6.2.3.4	9.0.1	9.1.0
2011-09	RAN#53	R5s110516	0781	-	Regression TTCN CR for IWD_wk27 ATS	9.0.1	9.1.0
2011-09	RAN#53	R5s110517	0780	-	Correction to GCF WI-082 'SMS over SGs' test cases 11.1.x	9.0.1	9.1.0
2011-09	RAN#53	R5s110518	0779	-	Correction to GCF WI-082 EMM test case 9.2.3.1.17	9.0.1	9.1.0
2011-09	RAN#53	R5s110519	0789	-	Addition of GCF WI-086 E-UTRA Idle Mode testcase 6.2.3.13	9.0.1	9.1.0
2011-09	RAN#53	R5s110521	0774	-	Correction to GCF WI-082 EMM test case 9.2.1.2.1	9.0.1	9.1.0
2011-09	RAN#53	R5s110526	0778	-	Correction to EUTRA RLC test case 7.2.3.16	9.0.1	9.1.0
2011-09	RAN#53	R5s110527	0773	-	Correction to GCF WI-082 EMM test case 9.2.1.1.1a	9.0.1	9.1.0
2011-09	RAN#53	R5s110528	0790	-	Addition of GCF WI 81 EUTRA Test Case 6.1.1.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110530	0776	-	Addition of GCF WI-081 E-UTRA RRC testcase 8.2.1.5	9.0.1	9.1.0
2011-09	RAN#53	R5s110532	0777	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.4.12	9.0.1	9.1.0
2011-09	RAN#53	R5s110534	0787	-	LTE_TDD: Addition of GCF WI 91 EUTRA RRC test case 8.2.1.6	9.0.1	9.1.0
2011-09	RAN#53	R5s110546	0795	-	Correction to GCF WI-082 EMM test case 9.2.1.1.24	9.0.1	9.1.0
2011-09	RAN#53	R5s110551	0796	-	Correction to EMM test case 9.2.1.2.3	9.0.1	9.1.0
2011-09	RAN#53	R5s110552	0798	-	Correction to EUTRA MAC test case 7.1.6.1 and 7.1.6.2	9.0.1	9.1.0
2011-09	RAN#53	R5s110553	0797	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.5.1	9.0.1	9.1.0
2011-12	RAN#54	R5-115770	0799	-	Routine maintenance and updates for EUTRA test model	9.1.0	9.2.0
2011-12	RAN#54	RP-111588	0800	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	9.1.0	9.2.0
2011-12	RAN#54	R5s110549	0801	-	Addition of GCF WI 82 EMM test case 9.3.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110547	0802	-	Addition of GCF WI 86 EUTRA Idle Mode test case 6.2.2.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110575	0803	-	Correction to GCF WI-087 Idle Mode Testcases 6.2.2.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110573	0804	-	Addition of GCF WI-081 E-UTRA MAC testcase 7.1.5.3	9.1.0	9.2.0
	RAN#54	R5s110571	0005	1	Correction to EUTRA MAC test case 7.1.5.4	9.1.0	9.2.0

2011-12   RAN#54   R5s110570   0806   Correction to AT commands	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
2011-12   RAN#54   R5s110568   0808   -	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
Addition of GCF Wiles EMM test case 9.2.3.1.22	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
2011-12   RAN#54   R5s110565   0810   -	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
2011-12 RAN#54 R5s110563 0812 - Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.7 2011-12 RAN#54 R5s110561 0813 - Addition of GCF WI-086 EUTRA RRC test case 8.2.4.7 2011-12 RAN#54 R5s110560 0814 - Correction to GCF WI-081 EUTRA RRC test case 8.2.4.7 2011-12 RAN#54 R5s110558 0815 - Correction to GCF WI-081 EUTRA MAC test cases 7.1.4.15 + 7.1.4.16 and RLC test case 7.2.3.15 2011-12 RAN#54 R5s110556 0816 - Addition of GCF WI-081 EUTRA MAC test cases 7.1.4.15 + 7.1.4.16 and RLC test case 7.2.3.15 2011-12 RAN#54 R5s110555 0816 - Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12 2011-12 RAN#54 R5s110555 0818 - Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12 2011-12 RAN#54 R5s110555 0818 - Correction of GCF WI 91 RLC test case 7.2.3.17 2011-12 RAN#54 R5s110580 0820 - Addition of GCF WI-086 Idle Mode Testcases 6.2.3.13 2011-12 RAN#54 R5s110588 0821 - Correction to EMM test case 9.1.5.1 2011-12 RAN#54 R5s110580 0823 - Addition of GCF WI-086 Idle Mode Testcases 6.2.3.13 2011-12 RAN#54 R5s110582 0824 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6 2011-12 RAN#54 R5s110582 0825 - Correction to EMM test case 9.1.5.1 2011-12 RAN#54 R5s110582 0826 - Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4 2011-12 RAN#54 R5s110589 0827 - Addition of GCF WI-081 E-UTRA MAC test case 7.1.3.9 2011-12 RAN#54 R5s110598 0827 - Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2 2011-12 RAN#54 R5s110599 0828 - Correction to Hell P component 2011-12 RAN#54 R5s110593 0829 - Regression CR for LTE wk37 ATS 2011-12 RAN#54 R5s110604 0830 - Addition of GCF WI-082 ESM test case 10.9.1	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
2011-12   RAN#54   R5s110563   0812   -     Correction to GCF WI-086 EUTRA RRC Testcase 8.4.1.2	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
2011-12 RAN#54 R5s110561 0813 - Addition of GCF WI 82 EMM Test Case 9.2.1.2.12 2011-12 RAN#54 R5s110560 0814 - Correction to GCF WI-081 EUTRA RRC test case 8.2.4.7 2011-12 RAN#54 R5s110558 0815 - Correction to GCF WI-091 EUTRA MAC test cases 7.1.4.15 + 7.1.4.16 and RLC test case 7.2.3.15 2011-12 RAN#54 R5s110556 0816 - Addition of GCF WI 81 EUTRA Test Case 6.1.1.6 2011-12 RAN#54 R5s110555 0817 - Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12 2011-12 RAN#54 R5s110555 0818 - Correction of GCF WI 91 RLC test case 7.2.3.17 2011-12 RAN#54 R5s110587 0819 - Correction to EMM test case 9.2.1.1.20 2011-12 RAN#54 R5s110580 0820 - Addition of GCF WI-086 Idle Mode Testcases 6.2.3.13 2011-12 RAN#54 R5s110584 0822 - Correction to EMM test case 9.1.5.1 2011-12 RAN#54 R5s110585 0823 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6 2011-12 RAN#54 R5s110585 0823 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5 2011-12 RAN#54 R5s110580 0824 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5 2011-12 RAN#54 R5s110570 0825 - Correction to GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5 2011-12 RAN#54 R5s110570 0826 - Correction to GCF WI-086 EUTRA RAC test case 8.3.3.2 2011-12 RAN#54 R5s110590 0827 - Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2 2011-12 RAN#54 R5s110593 0829 - Regression CR for LTE wk37 ATS 2011-12 RAN#54 R5s110604 0830 - Addition of GCF WI-082 ESM test case 10.9.1	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
2011-12 RAN#54 R5s110560 0814 - Correction to GCF WI-091 EUTRA RRC test case 8.2.4.7 2011-12 RAN#54 R5s110558 0815 - Correction to GCF WI-091 EUTRA MAC test cases 7.1.4.15 + 7.1.4.16 and RLC test case 7.2.3.15 2011-12 RAN#54 R5s110556 0816 - Addition of GCF WI 81 EUTRA Test Case 6.1.1.6 2011-12 RAN#54 R5s110559 0817 - Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12 2011-12 RAN#54 R5s110555 0818 - Correction to GCF WI 91 RLC test case 7.2.3.17 2011-12 RAN#54 R5s110587 0819 - Correction to EMM test case 9.2.1.1.20 2011-12 RAN#54 R5s110580 0820 - Addition of GCF WI-086 Idle Mode Testcases 6.2.3.13 2011-12 RAN#54 R5s110584 0822 - Correction to EMM test case 9.1.5.1 2011-12 RAN#54 R5s110585 0823 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6 2011-12 RAN#54 R5s110582 0824 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5 2011-12 RAN#54 R5s110572 0825 - Correction to GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5 2011-12 RAN#54 R5s110572 0825 - Correction to GCF WI-081 E-UTRA MAC test case 7.1.3.9 2011-12 RAN#54 R5s110598 0827 - Addition of GCF WI-081 E-UTRA MAC test case 7.1.3.9 2011-12 RAN#54 R5s110598 0826 - Correction to GCF WI-086 EUTRA RRC test case 8.3.3.2 2011-12 RAN#54 R5s110598 0827 - Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2 2011-12 RAN#54 R5s110593 0829 - Regression CR for LTE wk37 ATS 2011-12 RAN#54 R5s110604 0830 - Addition of GCF WI-082 ESM test case 10.9.1	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0 9.2.0
2011-12 RAN#54 R5s110558 0815 - Correction to GCF WI-091 EUTRA MAC test cases 7.1.4.15 + 7.1.4.16 and RLC test case 7.2.3.15 2011-12 RAN#54 R5s110559 0816 - Addition of GCF WI 81 EUTRA Test Case 6.1.1.6 2011-12 RAN#54 R5s110559 0817 - Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12 2011-12 RAN#54 R5s110555 0818 - Correction of GCF WI 91 RLC test case 7.2.3.17 2011-12 RAN#54 R5s110587 0819 - Correction to EMM test case 9.2.1.1.20 2011-12 RAN#54 R5s110580 0820 - Addition of GCF WI-086 Idle Mode Testcases 6.2.3.13 2011-12 RAN#54 R5s110588 0821 - Correction to EMM test case 9.1.5.1 2011-12 RAN#54 R5s110585 0823 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6 2011-12 RAN#54 R5s110582 0824 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5 2011-12 RAN#54 R5s110570 0825 - Correction to GCF WI-081 E-UTRA MAC testcase 7.1.7.1.9 2011-12 RAN#54 R5s110570 0825 - Correction to GCF WI-081 E-UTRA MAC testcase 7.1.7.1.9 2011-12 RAN#54 R5s110570 0825 - Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4 2011-12 RAN#54 R5s110593 0826 - Correction to GCF WI-086 EUTRA RRC test case 8.3.3.2 2011-12 RAN#54 R5s110593 0829 - Regression CR for LTE wk37 ATS 2011-12 RAN#54 R5s110593 0829 - Regression CR for LTE wk37 ATS	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0 9.2.0
7.1.4.16 and RLC test case 7.2.3.15 2011-12 RAN#54 R5s110556 0816 - Addition of GCF WI 81 EUTRA Test Case 6.1.1.6 2011-12 RAN#54 R5s110559 0817 - Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12 2011-12 RAN#54 R5s110555 0818 - Correction of GCF WI 91 RLC test case 7.2.3.17 2011-12 RAN#54 R5s110587 0819 - Correction to EMM test case 9.2.1.1.20 2011-12 RAN#54 R5s110580 0820 - Addition of GCF WI-086 Idle Mode Testcases 6.2.3.13 2011-12 RAN#54 R5s110584 0822 - Correction to EMM test case 9.1.5.1 2011-12 RAN#54 R5s110585 0823 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6 2011-12 RAN#54 R5s110585 0824 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5 2011-12 RAN#54 R5s110572 0825 - Correction to GCF WI-081 EUTRA MAC testcase 7.1.3.9 2011-12 RAN#54 R5s110576 0826 - Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9 2011-12 RAN#54 R5s110598 0827 - Addition of GCF WI-081 EUTRA MAC test case 8.3.3.2 2011-12 RAN#54 R5s110598 0827 - Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2 2011-12 RAN#54 R5s110598 0829 - Regression CR for LTE wk37 ATS 2011-12 RAN#54 R5s110590 0829 - Regression CR for LTE wk37 ATS	9.1.0 9.1.0 9.1.0 9.1.0 9.1.0	9.2.0 9.2.0 9.2.0
2011-12         RAN#54         R5s110556         0816         -         Addition of GCF WI 81 EUTRA Test Case 6.1.1.6           2011-12         RAN#54         R5s110559         0817         -         Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.12           2011-12         RAN#54         R5s110555         0818         -         Correction of GCF WI 91 RLC test case 7.2.3.17           2011-12         RAN#54         R5s110587         0819         -         Correction to EMM test case 9.2.1.1.20           2011-12         RAN#54         R5s110580         0820         -         Addition of GCF WI 86 Multilayer Test Case 13.1.2           2011-12         RAN#54         R5s110588         0821         -         Correction to GCF WI-086 Idle Mode Testcases 6.2.3.13           2011-12         RAN#54         R5s110584         0822         -         Correction to EMM test case 9.1.5.1           2011-12         RAN#54         R5s110585         0823         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6           2011-12         RAN#54         R5s110582         0824         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5           2011-12         RAN#54         R5s110576         0826         -         Correction to GCF WI-086 EUTRA RRC test case 8.3.3.2           2011-12 </td <td>9.1.0 9.1.0 9.1.0 9.1.0</td> <td>9.2.0</td>	9.1.0 9.1.0 9.1.0 9.1.0	9.2.0
2011-12 RAN#54 R5s110555 0818 - Correction of GCF WI 91 RLC test case 7.2.3.17  2011-12 RAN#54 R5s110587 0819 - Correction to EMM test case 9.2.1.1.20  2011-12 RAN#54 R5s110580 0820 - Addition of GCF WI 86 Multilayer Test Case 13.1.2  2011-12 RAN#54 R5s110588 0821 - Correction to GCF WI-086 Idle Mode Testcases 6.2.3.13  2011-12 RAN#54 R5s110584 0822 - Correction to EMM test case 9.1.5.1  2011-12 RAN#54 R5s110585 0823 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6  2011-12 RAN#54 R5s110582 0824 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5  2011-12 RAN#54 R5s110572 0825 - Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9  2011-12 RAN#54 R5s110576 0826 - Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9  2011-12 RAN#54 R5s110598 0827 - Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2  2011-12 RAN#54 R5s110603 0828 - Corrections to the IP component  2011-12 RAN#54 R5s110593 0829 - Regression CR for LTE wk37 ATS  2011-12 RAN#54 R5s110604 0830 - Addition of GCF WI-082 ESM test case 10.9.1	9.1.0 9.1.0 9.1.0	9.2.0
2011-12 RAN#54 R5s110587 0819 - Correction to EMM test case 9.2.1.1.20  2011-12 RAN#54 R5s110580 0820 - Addition of GCF WI 86 Multilayer Test Case 13.1.2  2011-12 RAN#54 R5s110588 0821 - Correction to GCF WI-086 Idle Mode Testcases 6.2.3.13  2011-12 RAN#54 R5s110584 0822 - Correction to EMM test case 9.1.5.1  2011-12 RAN#54 R5s110585 0823 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6  2011-12 RAN#54 R5s110582 0824 - Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5  2011-12 RAN#54 R5s110572 0825 - Correction to DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4  2011-12 RAN#54 R5s110576 0826 - Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9  2011-12 RAN#54 R5s110598 0827 - Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2  2011-12 RAN#54 R5s110603 0828 - Corrections to the IP component  2011-12 RAN#54 R5s110604 0830 - Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	
2011-12   RAN#54   R5s110580   0820   -   Addition of GCF WI 86 Multilayer Test Case 13.1.2	9.1.0	020
2011-12         RAN#54         R5s110588 0821         -         Correction to GCF WI-086 Idle Mode Testcases 6.2.3.13           2011-12         RAN#54         R5s110584 0822         -         Correction to EMM test case 9.1.5.1           2011-12         RAN#54         R5s110585 0823         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6           2011-12         RAN#54         R5s110582 0824         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5           2011-12         RAN#54         R5s110572 0825         -         Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4           2011-12         RAN#54         R5s110576 0826         -         Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9           2011-12         RAN#54         R5s110598 0827         -         Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2           2011-12         RAN#54         R5s110603 0828         -         Corrections to the IP component           2011-12         RAN#54         R5s110593 0829         -         Regression CR for LTE wk37 ATS           2011-12         RAN#54         R5s110604 0830         -         Addition of GCF WI-082 ESM test case 10.9.1		9.2.0
2011-12         RAN#54         R5s110584         0822         -         Correction to EMM test case 9.1.5.1           2011-12         RAN#54         R5s110585         0823         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6           2011-12         RAN#54         R5s110582         0824         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5           2011-12         RAN#54         R5s110572         0825         -         Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4           2011-12         RAN#54         R5s110576         0826         -         Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9           2011-12         RAN#54         R5s110598         0827         -         Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2           2011-12         RAN#54         R5s110603         0828         -         Corrections to the IP component           2011-12         RAN#54         R5s110604         0830         -         Regression CR for LTE wk37 ATS           2011-12         RAN#54         R5s110604         0830         -         Addition of GCF WI-082 ESM test case 10.9.1		9.2.0
2011-12         RAN#54         R5s110585         0823         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.6           2011-12         RAN#54         R5s110582         0824         -         Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5           2011-12         RAN#54         R5s110572         0825         -         Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4           2011-12         RAN#54         R5s110576         0826         -         Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9           2011-12         RAN#54         R5s110598         0827         -         Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2           2011-12         RAN#54         R5s110603         0828         -         Corrections to the IP component           2011-12         RAN#54         R5s110593         0829         -         Regression CR for LTE wk37 ATS           2011-12         RAN#54         R5s110604         0830         -         Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12       RAN#54       R5s110582       0824       -       Addition of GCF WI-081 E-UTRA MAC testcase 7.1.7.1.5         2011-12       RAN#54       R5s110572       0825       -       Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4         2011-12       RAN#54       R5s110576       0826       -       Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9         2011-12       RAN#54       R5s110598       0827       -       Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2         2011-12       RAN#54       R5s110603       0828       -       Corrections to the IP component         2011-12       RAN#54       R5s110593       0829       -       Regression CR for LTE wk37 ATS         2011-12       RAN#54       R5s110604       0830       -       Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12         RAN#54         R5s110572         0825         -         Correction of DRB test cases 12.3.1,12.3.2,12.3.3,12.3.4           2011-12         RAN#54         R5s110576         0826         -         Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9           2011-12         RAN#54         R5s110598         0827         -         Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2           2011-12         RAN#54         R5s110603         0828         -         Corrections to the IP component           2011-12         RAN#54         R5s110593         0829         -         Regression CR for LTE wk37 ATS           2011-12         RAN#54         R5s110604         0830         -         Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12       RAN#54       R5s110576       0826       -       Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9         2011-12       RAN#54       R5s110598       0827       -       Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2         2011-12       RAN#54       R5s110603       0828       -       Corrections to the IP component         2011-12       RAN#54       R5s110593       0829       -       Regression CR for LTE wk37 ATS         2011-12       RAN#54       R5s110604       0830       -       Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12       RAN#54       R5s110598       0827       -       Addition of GCF WI-086 EUTRA RRC test case 8.3.3.2         2011-12       RAN#54       R5s110603       0828       -       Corrections to the IP component         2011-12       RAN#54       R5s110593       0829       -       Regression CR for LTE wk37 ATS         2011-12       RAN#54       R5s110604       0830       -       Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12       RAN#54       R5s110603       0828       -       Corrections to the IP component         2011-12       RAN#54       R5s110593       0829       -       Regression CR for LTE wk37 ATS         2011-12       RAN#54       R5s110604       0830       -       Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12 RAN#54 R5s110593 0829 - Regression CR for LTE wk37 ATS  2011-12 RAN#54 R5s110604 0830 - Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
2011-12 RAN#54 R5s110604 0830 - Addition of GCF WI-082 ESM test case 10.9.1	9.1.0	9.2.0
	9.1.0	9.2.0
2011-12 RAN#54 R5s110634 0831 - Correction to GCF WI 82 ESM test case 10.3.1	9.1.0	9.2.0
	9.1.0	9.2.0
2011-12 RAN#54 R5s110633 0832 - Correction to function f_UT_ManualPLMN_Select	9.1.0	9.2.0
2011-12 RAN#54 R5s110632 0833 - Correction to EMM test cases	9.1.0	9.2.0
2011-12 RAN#54 R5s110631 0834 - Correction to GCF WI-082 Idle Mode Testcases 9.3.2.2 and	9.1.0	9.2.0
9.3.2.2a  2011-12 RAN#54 R5s110623 0835 - Correction to GCF WI-081 E-UTRA MIMO DRB Test Case  Tostcopes 12.3.1 12.3.3 and 12.3.4	9.1.0	9.2.0
Testcases 12.3.1, 12.3.2, 12.3.3 and 12.3.4  2011-12 RAN#54 R5s110610 0836 - LTE_TDD: Addition of GCF WI-095 EUTRA RRC test case 8.2.4.9	9.1.0	9.2.0
2011-12 RAN#54 R5s110608 0837 - LTE_TDD: Addition of GCF WI-095 EUTRA Idle Mode test case 6.1.2.5	9.1.0	9.2.0
2011-12 RAN#54 R5s110621 0838 - LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.5.5	9.1.0	9.2.0
2011-12 RAN#54 R5s110619 0839 - LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.5.3	9.1.0	9.2.0
2011-12 RAN#54 R5s110607 0840 - Correction to GCF WI-86 EMM test case 9.2.3.3.5	9.1.0	9.2.0
2011-12 RAN#54 R5s110618 0841 - Correction to LTE wk37 ATS	9.1.0	9.2.0
2011-12 RAN#54 R5s110616 0842 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.2.10	1	9.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2011-12	RAN#54	R5s110614	0843	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.7.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110612	0844	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.7.1.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110596	0845	-	Regression CR for LTE IWD_wk37	9.1.0	9.2.0
2011-12	RAN#54	R5s110594	0846	-	Addition of GCF WI-082 E-UTRA EMM testcase 9.2.3.2.1a	9.1.0	9.2.0
2011-12	RAN#54	R5s110591	0847	-	LTE_TDD: Addition of GCF WI 97 EUTRA Idle mode test case 6.2.2.7	9.1.0	9.2.0
2011-12	RAN#54	R5s110589	0848	-	LTE_TDD: Addition of GCF WI 97 EUTRA RRC test case 8.1.3.8	9.1.0	9.2.0
2011-12	RAN#54	R5s110577	0849	-	Correction to EMM test case 9.2.3.2.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110643	0850	-	Addition of GCF WI 82 EMM test case 9.2.2.1.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110641	0851	-	Correction to EMM test case 9.2.3.1.17	9.1.0	9.2.0
2011-12	RAN#54	R5s110639	0852	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110637	0853	-	Addition of GCF WI 82 EMM test case 9.3.1.12a	9.1.0	9.2.0
2011-12	RAN#54	R5s110636	0854	-	Correction of GCF WI81 EUTRA Idle Mode in test case 6.1.1.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110600	0855	-	Addition of GCF WI-088 EUTRA –1xRTT InterRAT test case 6.2.2.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110658	0856	-		9.1.0	9.2.0
2011-12	RAN#54	R5s110657	0857	-		9.1.0	9.2.0
2011-12	RAN#54	R5s110655	0858	-	Addition of GCF WI-086 EUTRA-UTRA Idle Mode test case 6.2.3.32	9.1.0	9.2.0
2011-12	RAN#54	R5s110653	0859	-	Addition of GCF WI-086 EUTRA-UTRA Idle Mode test case 6.2.3.31	9.1.0	9.2.0
2011-12	RAN#54	R5s110651	0860	-		9.1.0	9.2.0
2011-12	RAN#54	R5s110649	0861	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.2.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110647	0862	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.2.1.10	9.1.0	9.2.0
2011-12	RAN#54	R5s110666	0863	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.4.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110602	0864	-	Removal of SRB0 from SS SRB / DRB handling functions	9.1.0	9.2.0
2011-12	RAN#54	R5s110659	0865	-	Correction to GCF WI-081 EUTRA RAB test cases 12.3.x	9.1.0	9.2.0
2011-12	RAN#54	R5s110682	0866	-	Correction to Type Def. in LTE/SAE ATS	9.1.0	9.2.0
2011-12	RAN#54	R5s110680	0867	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.1.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110678	0868	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.1.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110676	0869	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 6.1.1.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110675	0870	-	Corrections to GCF WI82 ESM test case 10.5.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110674	0871	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.1.2.13	9.1.0	9.2.0
2011-12	RAN#54	R5s110673	0872	-	Corrections to GCF WI82 ESM test case 10.3.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110645	0873	-	Corrections to GCF WI82 ESM test case 10.9.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110646	0874	-	Correction to GCF WI81 Idle Mode test case 6.1.2.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110688	0875	-	Correction to EMM test case 9.2.3.1.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110685	0876	-	Correction required to EMM test case 9.2.3.2.1a	9.1.0	9.2.0
2011-12	RAN#54	R5s110695	0877	-	Correction to Multi-Layer test case 13.1.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110697	0878	-	Correction to EUTRA MAC test case 7.1.7.1.5 and 7.1.7.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110694	0879	-	Correction to EMM test case 9.2.2.1.3	9.1.0	9.2.0

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2011-12	RAN#54	R5s110687	0880	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.3.9	9.1.0	9.2.0
2011-12	RAN#54	R5s110690	0881	-	Addition of GCF WI-086 EUTRA-UTRA Idle Mode test case 6.2.1.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110696	0882	-	Correction to Idle mode test case 6.2.2.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110699	0883	-	Addition of GCF WI-087 EUTRA RRC test case 8.3.3.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110702	0884	-	Correction to EMM test case 9.3.1.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110701	0885	-	Correction to EMM test case 9.3.1.17	9.1.0	9.2.0
2011-12	RAN#54	R5s110698	0886	-	Correction to EUTRA MAC test cases 7.1.6.1 and 7.1.6.2	9.1.0	9.2.0
2011-12	RAN#54	R5s110705	0887	-	Correction to EMM test case 9.2.3.2.14	9.1.0	9.2.0
2011-12	RAN#54	R5s110683	0888	-	Addition of GCF WI-086 EUTRA-UTRA (HSPA) RRC test case 8.4.1.4	9.1.0	9.2.0
2011-12	RAN#54	R5s110710	0889	-	Correction to EMM test case 9.2.1.1.24	9.1.0	9.2.0
2011-12	RAN#54	R5s110709	0890	-	Correction to EUTRA MAC test cases 7.1.7.1.1, 7.1.7.1.2, 7.1.7.1.3, 7.1.7.1.4, 7.1.7.1.5, 7.1.7.1.6 and 7.1.7.2.1 for LTE band 25	9.1.0	9.2.0
2011-12	RAN#54	R5s110708	0891	-	Correction to EUTRA RRC test case 8.1.2.8	9.1.0	9.2.0
2011-12	RAN#54	R5s110707	0892	-	Correction to RRC test case 8.2.4.8	9.1.0	9.2.0
2011-12	RAN#54	R5s110706	0893	-	Correction to MAC test case 7.1.2.3	9.1.0	9.2.0
2011-12	RAN#54	R5s110692	0894	-	Correction to EMM test cases 9.2.1.1.20 and 9.2.1.1.26	9.1.0	9.2.0
2011-12	RAN#54	R5s110693	0895	-	Correction to MAC test case 7.1.4.5	9.1.0	9.2.0
2011-12	RAN#54	R5s110718	0896	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.2.13	9.1.0	9.2.0
2011-12	RAN#54	R5s110724	0898	-	Addition of GCF WI 88 EUTRA test case 8.3.2.6	9.1.0	9.2.0
2011-12	RAN#54	R5s110721	0899	-	Addition of GCF WI 87 EUTRA test case 8.3.2.1	9.1.0	9.2.0
2011-12	RAN#54	R5s110720	0900	-	Correction of LTE GERAN test cases	9.1.0	9.2.0
2012-03	RAN#55	R5-120721	0901	-	Routine maintenance and updates for EUTRA test model	9.2.0	9.3.0
2012-03	RAN#55	R5s110667	0971	-	Addition of GCF WI-081 E-UTRA ETWS testcase 14.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110726	0970	-	Addition of GCF WI 86 EMM Test Case 9.2.3.3.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110731	0960	-	Correction to GCF WI-082 EMM test case 9.2.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110737	0968	-	Correction to EMM test case 9.2.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110738	0969	-	Correction to EUTRA RRC test case 8.3.3.2	9.2.0	9.3.0
2012-03	RAN#55	R5s110739	0967	-	Correction to EUTRA MAC TBS test cases	9.2.0	9.3.0
2012-03	RAN#55	R5s110740	0966	-	Correction to EUTRA MAC test cases	9.2.0	9.3.0
2012-03	RAN#55	R5s110741	0965	-	Correction to GCF WI-088 Inter-RAT cell selection test cases 6.2.2.3 & 6.2.2.4	9.2.0	9.3.0
2012-03	RAN#55	R5s110742	0978	-	Types mismatch in f_UTRAN_CellInfo_GetNMO	9.2.0	9.3.0
2012-03	RAN#55	R5s110743	0974	-	Correction to EUTRA test cases to configure measurement gaps	9.2.0	9.3.0
2012-03	RAN#55	R5s110744	0964	-	Correction to EMM test cases	9.2.0	9.3.0
2012-03	RAN#55	R5s110746	0963	-	Correction to EUTRA RRC test cases 8.2.1.5 and 8.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110747	0962	-	Addition of GCF WI 86,87 EUTRA test case 9.2.1.2.1b	9.2.0	9.3.0
2012-03	RAN#55	R5s110749	0977	-	Modification of template cas_RL_Modify_DPCHInfo_FDD	9.2.0	9.3.0
2012-03	RAN#55	R5s110750	0973	-	Correction to SMS over SG test cases 11.1.1 and 11.1.2	9.2.0	9.3.0

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2012-03	RAN#55	R5s110751	0972	-	Correction to SMS over SG test cases 11.1.3 and 11.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s110752	0976	-	Correction to f_UTRAN_RB_SetUp	9.2.0	9.3.0
2012-03	RAN#55	R5s110753	0913	-	Correction to calls to f_EUTRA_SetSIB6_InterFreqCarrierFreqList_F8	9.2.0	9.3.0
2012-03	RAN#55	R5s110754	0975	-	Correction to GCF WI-086 Inter-RAT Handover testcases 8.4.1.2 & 8.4.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s110757	0914	-	Correction to f_EUTRA_TAU_Check	9.2.0	9.3.0
2012-03	RAN#55	R5s110759	0912	-	Addition of GCF WI 81 EUTRA test case 14.2	9.2.0	9.3.0
2012-03	RAN#55	R5s110761	0961	-	Addition of GCF WI 81 EUTRA test case 14.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110763	0911	-	Addition of GCF WI87 EUTRA Idle Mode test case 6.2.3.1	9.2.0	9.3.0
2012-03	RAN#55	R5s110765	0910	-	Addition of EUTRA test case 8.3.1.9a	9.2.0	9.3.0
2012-03	RAN#55	R5s110767	0909	-	Addition of EUTRA test case 8.3.1.11a	9.2.0	9.3.0
2012-03	RAN#55	R5s110771	0908	-	Correction to UTRA RRC establishment cause and check of UTRA QoS params	9.2.0	9.3.0
2012-03	RAN#55	R5s110773	0907	-	Corrections to IPv6	9.2.0	9.3.0
2012-03	RAN#55	R5s110776	0924	-	Correction to LTE wk49 ATS	9.2.0	9.3.0
2012-03	RAN#55	R5s110777	0905	-	Regression CR for EUTRA EMM Testcases for D11wk49 ATS	9.2.0	9.3.0
2012-03	RAN#55	R5s110778	0906	-	Correction to GCF WI-082 EUTRA ESM Testcases 10.8.5, 10.8.6,	9.2.0	9.3.0
2012-03	RAN#55	R5s110779	0904	-	10.9.1 Correction to GCF WI-086 EUTRA Idle Mode Testcases 6.2.3.31	9.2.0	9.3.0
2012-03	RAN#55	R5s110782	0934	-	Correction to UTRAN SIB segmentation	9.2.0	9.3.0
2012-03	RAN#55	R5s110783	0933	-	Correction to GCF WI-081 EUTRA Idle Mode Testcase 6.1.2.13	9.2.0	9.3.0
2012-03	RAN#55	R5s110785	0903	-	Correction to GCF WI-081 RLC test cases 7.2.3.10 and 7.2.3.13	9.2.0	9.3.0
2012-03	RAN#55	R5s110787	0932	-	Correction to GCF WI-086 EUTRA Multi Layer Testcase 13.1.2	9.2.0	9.3.0
2012-03	RAN#55	R5s110788	0931	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.4.1.4 and 8.4.12	9.2.0	9.3.0
2012-03	RAN#55	R5s110789	0930	-	Correction to GCF WI-082 EUTRA EMM Testcase 9.2.3.1.26	9.2.0	9.3.0
2012-03	RAN#55	R5s110790	0929	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.3.1.7	9.2.0	9.3.0
2012-03	RAN#55	R5s110791	0928	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s110801	0927	-	Addition of GCF WI-086 E-UTRA EMM testcase 9.2.3.3.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120002	0926	-	Correction to function fl_RequestPDPContext	9.2.0	9.3.0
2012-03	RAN#55	R5s120003	0925	-	Correction to GCF WI-081 testcase 8.3.1.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120006	0923	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.3.3.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120007	0948	-	LTE_TDD: Addition of GCF WI-091 EUTRA RRC testcase 8.2.1.5	9.2.0	9.3.0
2012-03	RAN#55	R5s120009	0947	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.7a	9.2.0	9.3.0
2012-03	RAN#55	R5s120011	0946	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.4.7a	9.2.0	9.3.0
2012-03	RAN#55	R5s120013	0945	-	Addition of GCF WI 82 EMM Test Case 9.2.1.1.18	9.2.0	9.3.0
2012-03	RAN#55	R5s120016	0922	-	Addition of GCF WI87 EUTRA Idle Mode test case 6.2.3.14	9.2.0	9.3.0
2012-03	RAN#55	R5s120019	0921	-	Correction to EUTRA Idle Mode test case 6.2.1.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120020	0920	-	Correction to EUTRA Idle Mode test case 6.1.2.13	9.2.0	9.3.0
2012-03	RAN#55	R5s120021	0919	-	Correction to EUTRA RRC test case 8.3.2.6	9.2.0	9.3.0
2012-03	RAN#55	R5s120022	0918	-	Correction to EMM test cases 9.2.2.2.2 and 9.3.2.2a	9.2.0	9.3.0

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2012-03	RAN#55	R5s120023	0917	-	Correction to MAC test case 7.1.4.12	9.2.0	9.3.0
2012-03	RAN#55	R5s120024	0915	-	Correction to EUTRA RRC test cases 8.2.1.5	9.2.0	9.3.0
2012-03	RAN#55	R5s120025	0916	-	Addition of GCF WI-087 E-UTRA PLMN Selection testcase 6.2.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120027	0944	-	Addition of GCF WI87 EUTRA Idle Mode test case 6.2.1.6	9.2.0	9.3.0
2012-03	RAN#55	R5s120029	0943	-	Addition of GCF WI-088 EUTRA-1xRTT test case 6.2.3.10	9.2.0	9.3.0
2012-03	RAN#55	R5s120033	0942	-	Correction to EUTRA RRC test cases 8.3.1.11	9.2.0	9.3.0
2012-03	RAN#55	R5s120034	0941	-	Correction to EMM test case 9.2.3.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120035	0940	-	Correction to RLC test case 7.2.3.8 and MAC test case 7.1.7.2.1	9.2.0	9.3.0
2012-03	RAN#55	R5s120036	0939	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.2.4.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120037	0982	-	Addition of GCF WI-081 EUTRA MAC test case 7.1.8.1	9.2.0	9.3.0
2012-03	RAN#55	R5s120039	0938	-	Correction to EUTRA test cases 8.3.1.9 and 8.3.1.10	9.2.0	9.3.0
2012-03	RAN#55	R5s120040	0937	-	Correction to EUTRA MAC test cases 7.1.7.2.1, 7.1.6.1 and 7.1.6.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120048	0936	-	Correction to EUTRA RRC test cases 8.3.3.2 and 8.3.3.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120049	0935	-	Correction to GCF WI-086 Multi-Layer test case 13.1.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120050	0953	-	Correction to GERAN modules in LTE ATS_wk49	9.2.0	9.3.0
2012-03	RAN#55	R5s120051	0952	-	Correction to GCF WI-088 EUTRA-HRPD test case 6.2.2.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120052	0951	-	Correction to EUTRA_Measurement_Specific_Templates in LTE ATS wk49	9.2.0	9.3.0
2012-03	RAN#55	R5s120053	0954	-	Correction to GCF WI-081 EUTRA RRC Testcase 9.2.3.1.16	9.2.0	9.3.0
2012-03	RAN#55	R5s120054	0955	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.3.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120056	0950	-	Correction to TLLI deletion at GPRS detach	9.2.0	9.3.0
2012-03	RAN#55	R5s120057	0949	-	Correction to GCF WI-085 Interband test case 6.1.2.5 and 8.2.4.9	9.2.0	9.3.0
2012-03	RAN#55	R5s120059	0981	-	LTE_TDD Addition of GCF WI-091 EUTRA MAC test case 7.1.8.1	9.2.0	9.3.0
2012-03	RAN#55	R5s120061	0958	-	Correction to GCF WI-082 EUTRA NAS test case 9.2.1.1.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120062	0957	-	Correction to GCF WI-081 EUTRA RRC test cases 8.5.1.2 and 8.5.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120065	0956	-	Correction to EUTRA Idle Mode test cases 6.1.1.3, 6.1.2.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120067	0959	-	Correction to EMM testcase 9.2.3.3.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120068	0990	-	Addition of GCF WI-086 UTRAN-EUTRA RRC test case 8.1.3.7	9.2.0	9.3.0
2012-03	RAN#55	R5s120070	0989	-	Addition of GCF WI-086 UTRAN-EUTRA Multi-Layer test case 13.1.4	9.2.0	9.3.0
2012-03	RAN#55	R5s120072	0979	-	Correction to EMM testcase 9.2.1.2.1b	9.2.0	9.3.0
2012-03	RAN#55	R5s120073	0980	-	Correction to EutraBand_Type	9.2.0	9.3.0
2012-03	RAN#55	R5s120074	0983	-	Addition of GCF WI-088 EUTRA-1xRTT RRC test case 8.1.3.10	9.2.0	9.3.0
2012-03	RAN#55	R5s120076	0987	-	Correction to ICMPv6 template in LTE/SAE ATS_12wk05	9.2.0	9.3.0
2012-03	RAN#55	R5s120077	0984	-	Correction to EMM testcases 9.2.3.1.17 and 9.2.3.1.19	9.2.0	9.3.0
2012-03	RAN#55	R5s120078	0988	-	Correction to EUTRA Idle Mode test case 6.1.1.2	9.2.0	9.3.0
2012-03	RAN#55	R5s120079	0986	-	Correction to GCF WI-082 EMM test case 9.2.1.2.3	9.2.0	9.3.0
2012-03	RAN#55	R5s120080	0985	-	Correction to GCF WI-082 ESM test case 10.8.7	9.2.0	9.3.0
2012-03	RAN#55	RP-120188	0902	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	9.2.0	9.3.0

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2012-06	RAN#56	R5-121777	0991	-	Update of Timing parameters of E-UTRAN TDD cells	9.3.0	9.4.0
2012-06	RAN#56	R5s120082	1156	-	Correction to EUTRA RRC test case 8.3.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120083	1155	-	Correction to EUTRA MAC testcase 7.1.4.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120084	1154	-	Correction to EMM testcase 9.2.1.1.25	9.3.0	9.4.0
2012-06	RAN#56	R5s120086	1153	-	Addition of GCF WI 86 Multilayer test case 13.1.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120088	1152	-	Correction to EUTRA MAC test cases 7.1.4.7a	9.3.0	9.4.0
2012-06	RAN#56	R5s120089	1150	-	Correction to EMM testcase 9.2.3.1.23	9.3.0	9.4.0
2012-06	RAN#56	R5s120090	1149	-	Correction to EUTRA Idle mode test case 6.2.3.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120091	1151	-	Correction to EUTRA Idle mode test case 6.2.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120095	1148	-	Correction to EUTRA testcases	9.3.0	9.4.0
2012-06	RAN#56	R5s120096	1147	-	Correction to EMM test case 9.2.3.2.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120097	1146	-	Correction to LTE IRAT test cases	9.3.0	9.4.0
2012-06	RAN#56	R5s120098	1145	-	Correction to UTRAN Component in LTE ATS_12wk05	9.3.0	9.4.0
2012-06	RAN#56	R5s120099	1142	-	Correction to EUTRA Test Case 8.2.1.5 and 8.2.1.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120100	1143	-	Correction to EUTRA EMM test case 9.2.1.2.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120101	1144	-	Correction to DCI2 configuration	9.3.0	9.4.0
2012-06	RAN#56	R5s120102	1141	-	Addition of GCF WI-081 EUTRA Idle Mode test case 6.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120104	1139	-	Correction to GCF WI-082 EMM test case 9.2.3.1.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120106	1140	-	Correction to GERAN paging group calculation in LTE ATS 12wk05	9.3.0	9.4.0
2012-06	RAN#56	R5s120109	1138	-	Addition of GCF WI-082 EMM test case 9.2.3.1.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120111	1136	-	Addition of GCF WI-086 EUTRA –UTRAN test case 13.1.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120113	1137	-	Addition of GCF WI-086 EUTRA <>UTRA testcase 13.4.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120115	1134	-	Addition of EUTRA Hybrid CSG Cell test case 6.4.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120117	1135	-	Addition of GCF WI-086 EUTRA <>UTRA testcase 13.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120119	1108	-	Regression CR for LTE wk09 ATS	9.3.0	9.4.0
2012-06	RAN#56	R5s120121	1133	-	Correction to TA transmission in wk09 TTCN	9.3.0	9.4.0
2012-06	RAN#56	R5s120122	1131	-	Correction to GCF WI-086 UTRAN-EUTRA test case 6.2.2.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120124	1132	-	Correction to EUTRA RRC test case 8.1.1.3	9.3.0	9.4.0
2012-06	RAN#56	R5s120125	1130	-	Correction to EMM testcase 9.2.1.1.23, 9.2.3.2.4, 9.2.3.2.14, 9.2.3.2.2, 9.2.3.2.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120127	1126	-	Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.3.3.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120129	1128	-	Correction to the implementation of SI 2 quarter message	9.3.0	9.4.0
2012-06	RAN#56	R5s120130	1129	-	Correction to WI-081 EUTRA Idle Mode Testcase 6.1.2.13	9.3.0	9.4.0
2012-06	RAN#56	R5s120132	1127	-	Correction to WI-086 EUTRA EMM Testcase 9.2.1.1.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120133	1124	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120134	1125	-	Correction to EUTRA Auxiliary Functions in LTE/SAE ATS_12wk09	9.3.0	9.4.0
2012-06	RAN#56	R5s120135	1123	-	Correction to GCF WI-081 EUTRA MAC test cases 7.1.7.x	9.3.0	9.4.0
2012-06	RAN#56	R5s120136	1120	-	Correction to EUTRA Idle Updated Teststep	9.3.0	9.4.0

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2012-06	RAN#56	R5s120137	1122	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120138	1121	-	Correction to GCF WI-86 EUTRA RRC Testcase 8.4.1.2 and 8.4.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120139	1109	-	Addition of GCF WI-086 EUTRA <>UTRA testcase 13.3.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120141	1119	-	Correction to UTRAN function f_UTRAN_GMM_RAU	9.3.0	9.4.0
2012-06	RAN#56	R5s120142	1118	-	Correction to f_EUTRA_IdleUpdated_Step14_15	9.3.0	9.4.0
2012-06	RAN#56	R5s120143	1117	-	Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.3.2.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120144	1116	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.4.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120146	1115	-	Addition of EUTRA Idle Mode testcase 6.1.2.7a	9.3.0	9.4.0
2012-06	RAN#56	R5s120148	1112	-	Addition of EUTRA Idle Mode testcase 6.1.2.8a	9.3.0	9.4.0
2012-06	RAN#56	R5s120150	1111	-	Addition of GCF WI-091 EUTRA Idle Mode testcase 6.1.2.9a	9.3.0	9.4.0
2012-06	RAN#56	R5s120152	1114	-	Addition of EUTRA Idle Mode testcase 6.1.1.2a	9.3.0	9.4.0
2012-06	RAN#56	R5s120154	1113	-	Addition of EUTRA Idle Mode testcase 6.1.1.3b	9.3.0	9.4.0
2012-06	RAN#56	R5s120156	1110	-	Addition of EMM EUTRA <>UTRA testcase 9.2.1.2.1d	9.3.0	9.4.0
2012-06	RAN#56	R5s120158	1106	-	Addition of EUTRA Idle Mode testcase 6.1.1.6a	9.3.0	9.4.0
2012-06	RAN#56	R5s120160	1107	-	Addition of EUTRA Idle Mode testcase 6.1.1.1b	9.3.0	9.4.0
2012-06	RAN#56	R5s120162	1105	-	Correction to EMM test case 9.2.1.2.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120165	1102	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120167	1103	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case	9.3.0	9.4.0
2012-06	RAN#56	R5s120169	1104	-	6.2.2.6  LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.3.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120173	1101	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.3b	9.3.0	9.4.0
2012-06	RAN#56	R5s120175	1100	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.2.7a	9.3.0	9.4.0
2012-06	RAN#56	R5s120178	1032	-	Baseline upgrade of LTE ATS to March-12 in Rel-10	9.3.0	9.4.0
2012-06	RAN#56	R5s120179	1099	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.1.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120181	1097	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case 6.2.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120183	1098	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle mode test case	9.3.0	9.4.0
2012-06	RAN#56	R5s120185	1093	-	6.2.3.1 LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.1.1.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120187	1094	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.10	9.3.0	9.4.0
2012-06	RAN#56	R5s120189	1095	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120191	1096	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120193	1091	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.3.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120195	1092	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.3.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120197	1090	-	Correction to EUTRA test case 7.1.4.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120198	1089	-	Addition of GCF WI 81 EUTRA MAC test case 7.1.4.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120200	1088	-	Correction to EUTRA test case 7.1.3.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120201	1087	-	Correction to GCF WI-081 EUTRA RRC test case 8.2.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120202	1085	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.1.1.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120204	1086	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.18	9.3.0	9.4.0

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2012-06	RAN#56	R5s120206	1084	-	Update of default bandwidth for signalling conformance tests in E-UTRA band 11 + 18	9.3.0	9.4.0
2012-06	RAN#56	R5s120207	1083	-	Correction to GCF WI-081 RLC test case 7.2.3.21	9.3.0	9.4.0
2012-06	RAN#56	R5s120208	1082	-	Correction to EUTRA test case 8.1.3.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120209	1081	-	Correction to GCF WI-085 Interband test case 8.2.4.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120210	1080	-	Correction to EMM testcase 9.2.3.3.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120211	1079	-	Correction to GCF WI-082 EMM test case 9.2.3.1.26	9.3.0	9.4.0
2012-06	RAN#56	R5s120212	1078	-	Correction to EMM testcase 9.2.3.2.1a	9.3.0	9.4.0
2012-06	RAN#56	R5s120213	1077	-	Correction to EMM test case 9.2.2.1.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120214	1076	-	LTE_TDD: Addition of GCF WI-091 EUTRA MAC testcase 7.1.3.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120216	1075	-	Correction to GCF WI-082 EMM test case 9.2.3.1.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120218	1074	-	Addition of GCF WI-087 EMM testcase 9.2.3.4.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120220	1073	-	Correction to the template cs_508_UplinkPowerControlDedicated_Default	9.3.0	9.4.0
2012-06	RAN#56	R5s120221	1070	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120223	1072	-	Correction to default Packet Application type	9.3.0	9.4.0
2012-06	RAN#56	R5s120224	1071	-	Correction to GCF WI-082 EMM test case 9.2.3.1.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120227	1069	-	Correction to EUTRA test case 6.1.1.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120228	1068	-	Addition of EMM EUTRA <>UTRA testcase 9.2.3.2.1c	9.3.0	9.4.0
2012-06	RAN#56	R5s120230	1067	-	Addition of GCF WI-082 EMM test case 9.2.3.1.20	9.3.0	9.4.0
2012-06	RAN#56	R5s120232	1066	-	Addition of GCF WI-082 EMM test case 9.2.3.2.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120234	1064	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120236	1063	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120238	1062	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.7	9.3.0	9.4.0
2012-06	RAN#56	R5s120240	1061	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120243	1065	-	Correction to EUTRA-HRPD test case 6.2.3.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120244	1060	-	Addition of GCF WI-087 EUTRA RRC testcase 8.3.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120246	1059	-	LTE_TDD: Addition of GCF WI-097 EUTRA RRC testcase 8.3.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120248	1058	-	LTE_TDD: Addition of GCF WI-097 EUTRA RRC testcase 8.3.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120250	1047	-	Correction to GCF WI-081 EUTRA test case 8.5.4.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120251	1057	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120253	1055	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120255	1056	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.7	9.3.0	9.4.0
2012-06	RAN#56	R5s120257	1054	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120259	1053	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.11	9.3.0	9.4.0
2012-06	RAN#56	R5s120261	1052	-	Correction to EMM testcase 9.2.3.2.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120262	1051	-	Correction to EMM testcase 9.2.1.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120263	1049	-	Correction to EMM testcase 9.2.2.1.10	9.3.0	9.4.0
2012-06	RAN#56	R5s120264	1050	-	Correction to EMM testcase 9.2.3.1.25, 9.2.3.1.26, 9.2.1.1.23, 9.3.1.4, 9.3.1.5 and 9.3.1.6	9.3.0	9.4.0

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2012-06	RAN#56	R5s120265	1048	-	Correction to EMM test cases 9.2.3.1.9, 9.2.1.2.1b, 9.2.2.1.4 and 9.2.3.2.1b	9.3.0	9.4.0
2012-06	RAN#56	R5s120266	1045	-	Correction of GCF WI 86 Multilayer test case 13.1.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120271	1046	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120274	1044	-	Correction to EMM Test Cases	9.3.0	9.4.0
2012-06	RAN#56	R5s120275	1043	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.1b	9.3.0	9.4.0
2012-06	RAN#56	R5s120277	1042	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.2.8a	9.3.0	9.4.0
2012-06	RAN#56	R5s120279	1041	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.2.9a	9.3.0	9.4.0
2012-06	RAN#56	R5s120281	1039	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.2a	9.3.0	9.4.0
2012-06	RAN#56	R5s120283	1040	-	LTE_TDD: Addition of EUTRA Idle mode test case 6.1.1.6a	9.3.0	9.4.0
2012-06	RAN#56	R5s120287	1038	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120289	1037	-	Correction to Timing Calculation on EUTRA Cells	9.3.0	9.4.0
2012-06	RAN#56	R5s120290	1036	-	Correction for SIB 7 default contents	9.3.0	9.4.0
2012-06	RAN#56	R5s120291	1035	-	Correction to GCF WI-082 EMM test case 9.2.3.1.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120292	1034	-	LTE_TDD: Addition of EUTRA RRC test case 8.1.2.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120294	1033	-	Correction to template cdr_RRC_ConnReqWith_v860ext	9.3.0	9.4.0
2012-06	RAN#56	R5s120295	1031	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.17	9.3.0	9.4.0
2012-06	RAN#56	R5s120297	1030	-	Correction to EUTRA MAC test case 7.1.4.10	9.3.0	9.4.0
2012-06	RAN#56	R5s120298	1029	-	Correction to GCF WI-082 EUTRA CSG Testcase 9.2.3.1.9	9.3.0	9.4.0
2012-06	RAN#56	R5s120301	1028	-	Addition of GCF WI 86 Multilayer test case 13.1.3	9.3.0	9.4.0
2012-06	RAN#56	R5s120303	1027	-	Correction for GERAN message definitions	9.3.0	9.4.0
2012-06	RAN#56	R5s120304	1026	-	Correction to GCF WI-081 EUTRA MAC testcase 7.1.8.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120305	1025	-	Correction for EMM testcase 9.2.3.1.22	9.3.0	9.4.0
2012-06	RAN#56	R5s120306	1024	-	LTE_TDD: Addition of GCF WI-097 EUTRA - GERAN test case 6.2.3.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120308	1023	-	Addition of GCF WI 86 Multilayer test case 13.4.2.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120310	1022	-	Correction to EUTRA test case 8.3.2.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120312	1021	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.4.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120313	1017	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.4.12	9.3.0	9.4.0
2012-06	RAN#56	R5s120314	1018	-	Correction to GCF WI-081 EUTRA EPC testcase 9.2.1.1.2 and 9.2.2.1.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120315	1019	-	Correction to GCF WI-089 EUTRA RRCTestcase 8.3.2.6	9.3.0	9.4.0
2012-06	RAN#56	R5s120316	1020	-	Correction to GCF WI-081 EUTRA MAC SPS testcase 7.1.4.2	9.3.0	9.4.0
2012-06	RAN#56	R5s120317	1015	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.4.2.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120318	1016	-	Correction to EUTRA Idle Mode Testcase 6.1.2.8a and 6.1.2.9a	9.3.0	9.4.0
2012-06	RAN#56	R5s120320	1014	-	Correction to EMM test case 9.2.3.3.1	9.3.0	9.4.0
2012-06	RAN#56	R5s120321	1013	-	Correction to UTRA SIB19 for IE "qRxLevMinEUTRA"	9.3.0	9.4.0
2012-06	RAN#56	R5s120322	1012	-	Correction of EUTRA Idle Mode Testcase 6.1.1.1b	9.3.0	9.4.0
2012-06	RAN#56	R5s120323	1011	-	Correction for GERAN SI2Quater message content	9.3.0	9.4.0
2012-06	RAN#56	R5s120325	1010	-	Correction to GCF WI-087 EUTRAN EMM Testcase 9.2.1.2.9	9.3.0	9.4.0

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2012-06	RAN#56	R5s120326	1009	-	Correction to GCF WI-082 EUTRA CSG Testcase 9.2.1.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120327	1007	-	Correction of GCF WI-082 EUTRA EMM Testcase 9.2.3.2.4	9.3.0	9.4.0
2012-06	RAN#56	R5s120328	1008	-	Correction of GCF WI-086 EUTRA EMM Testcase 9.2.3.3.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120329	1006	-	Addition of GCF WI-082 EUTRA CSG Testcase 9.3.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120334	1005	-	Correction to the Band applicability of single frequency operation test cases	9.3.0	9.4.0
2012-06	RAN#56	R5s120335	1004	-	LTE_TDD: Addition of GCF WI-097 Idle mode test case 6.2.3.16	9.3.0	9.4.0
2012-06	RAN#56	R5s120338	1003	-	Correction to GCF WI-082 EUTRA CSG Testcase 9.2.1.1.18	9.3.0	9.4.0
2012-06	RAN#56	R5s120339	1001	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.1.2.8	9.3.0	9.4.0
2012-06	RAN#56	R5s120340	1002	-	LTE_TDD: Addition of GCF WI-092 EMM test case 9.2.3.1.15	9.3.0	9.4.0
2012-06	RAN#56	R5s120342	1000	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.1.5	9.3.0	9.4.0
2012-06	RAN#56	R5s120344	0999	-	Correction to GCF WI-081 EUTRA MAC SPS testcase 7.1.4.14	9.3.0	9.4.0
2012-06	RAN#56	R5s120345	0998	-	Correction to GCF WI-091 EUTRA RLC test cases 7.2.3.10 and	9.3.0	9.4.0
2012-06	RAN#56	R5s120346	0997	-	7.2.3.13 Correction to EMM test case 9.2.1.2.1d	9.3.0	9.4.0
2012-06	RAN#56	R5s120347	0996	-	Correction to EMM test case 9.2.1.1.7	9.3.0	9.4.0
2012-06	RAN#56	RP-120653	0995	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	9.3.0	9.4.0
2012-06	RAN#56	R5-121779	0992	-	cases in the TC lists in 36.523-3 (prose), Annex A 36523-3 routine maintenance and updates	9.4.0	10.0.0
2012-06	RAN#56	R5-121850	0993	-	Correction to Postamble Procedure for E-UTRAN to GERAN tests	9.4.0	10.0.0
2012-06	RAN#56	R5-122121	0994	-	Add new guidelines for TC executions	9.4.0	10.0.0
2012-09	RAN#57	R5-123081	1157	-	Update the guidelines for TC executions	10.0.0	10.1.0
2012-09	RAN#57	R5-123245	1158	-	Correction to postamble procedure of EUTRAN-GERAN test cases	10.0.0	10.1.0
2012-09	RAN#57	R5-123310	1159	-	Removal of technical content in 36.523-3 v9.4.0 and substitution	10.0.0	10.1.0
2012-09	RAN#57	R5-123740	1160	-	with pointer to the next Release 36523-3: Routine maintenance and updates	10.0.0	10.1.0
2012-09	RAN#57	R5s120348	1161	-	Addition of Rel-9 EUTRA RRC test case 8.1.2.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120350	1162	-	Addition of GCF WI-087 EUTRA-GERAN test case 6.2.3.21	10.0.0	10.1.0
2012-09	RAN#57	R5s120352	1163	-	LTE_TDD : Addition of GCF WI-091 EUTRA MAC Testcase	10.0.0	10.1.0
2012-09	RAN#57	R5s120354	1164	-	7.1.6.1  LTE_TDD : Addition of GCF WI-091 EUTRA MAC Testcase	10.0.0	10.1.0
2012-09	RAN#57	R5s120356	1165	-	7.1.6.2 Correction to EMM test case 9.2.3.4.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120357	1166	-	Correction to GERAN paging group calculation	10.0.0	10.1.0
2012-09	RAN#57	R5s120358	1167	-	Addition of GCF WI 86 EMM test case 9.2.3.3.5a	10.0.0	10.1.0
2012-09	RAN#57	R5s120360	1168	-	Enhanced decoding of GERAN Types in LTE/SAE ATS	10.0.0	10.1.0
2012-09	RAN#57	R5s120361	1169	-	Correction to Manual PLMN Selection after Switch On in LTE/SAE	10.0.0	10.1.0
2012-09	RAN#57	R5s120366	1170	-	ATS  Correction to template  "cds_DL_CommonInformation_CompressedMode_FDD" in	10.0.0	10.1.0
2012-09	RAN#57	R5s120367	1171	-	LTE/SAE ATS Addition of GCF WI-082 EMM CSG test case 9.2.1.2.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120369	1172	-	Correction to EUTRA MAC test case 7.1.1.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120370	1173	-	Correction to EUTRA MAC test case 7.1.4.7a	10.0.0	10.1.0
2012-09	RAN#57	R5s120371	1174	-		10.0.0	10.1.0
				<u> </u>	message		

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2012-09	RAN#57	R5s120372	1175	-	Addition of GCF WI-087 EUTRA testcase 8.4.3.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120374	1176	-	Addition of GCF WI-087 EUTRA testcase 8.4.3.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120377	1177	-	Correction to EUTRA SIB 6 content for combination C10	10.0.0	10.1.0
2012-09	RAN#57	R5s120378	1178	-	Addition of GCF WI-086 EUTRA -UTRAN test case 9.2.3.3.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120380	1179	-	Correction to EMM test case 9.3.1.18	10.0.0	10.1.0
2012-09	RAN#57	R5s120381	1180	-	Addition of GCF WI 86 LTE<>UTRAN test case 9.2.3.3.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120383	1181	-	Correction to Uplink F4 Frequency for EUTRA Band 5	10.0.0	10.1.0
2012-09	RAN#57	R5s120386	1182	-	LTE_TDD : Addition of GCF WI-097 EUTRA EMM Testcase 9.2.1.2.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120390	1183	-	LTE_TDD : Addition of GCF WI-097 EUTRA EMM Testcase 9.2.3.2.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120393	1184	-	Addition of Rel9 EUTRA RRC Testcase 8.2.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120395	1185	-	LTE_TDD : Addition of Rel9 EUTRA RRC Testcase 8.1.2.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120397	1186	-	Addition of GCF WI-086 EUTRA<>UTRA HSPA Handover Testcase 8.4.1.5	10.0.0	10.1.0
2012-09	RAN#57	R5s120399	1187	-	LTE_TDD: Addition of Rel9 EUTRA RRC Testcase 8.2.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120401	1188	-	LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.21	10.0.0	10.1.0
2012-09	RAN#57	R5s120403	1189	-	Addition of GCF WI-088 EUTRA Idle Mode Testcase 6.2.3.7	10.0.0	10.1.0
2012-09	RAN#57	R5s120405	1190	-	LTE_TDD: Addition of GCF WI-096 EUTRA test case 8.3.2.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120407	1191	-	Addition of GCF WI-088 EUTRA<>CDMA200 1XRTT Testcase 6.2.3.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120409	1192	-	Addition of EMM testcase 9.2.1.1.1b	10.0.0	10.1.0
2012-09	RAN#57	R5s120411	1193	-	Addition of EMM testcase 9.2.1.1.13a	10.0.0	10.1.0
2012-09	RAN#57	R5s120413	1194	-	Addition of EMM testcase 9.2.1.1.15a	10.0.0	10.1.0
2012-09	RAN#57	R5s120415	1195	-	Addition of EMM testcase 9.2.1.1.16a	10.0.0	10.1.0
2012-09	RAN#57	R5s120417	1196	-	Addition of EMM testcase 9.2.3.1.18a	10.0.0	10.1.0
2012-09	RAN#57	R5s120419	1197	-	Addition of EMM testcase 9.2.1.1.7a	10.0.0	10.1.0
2012-09	RAN#57	R5s120421	1198	-	Addition of EMM testcase 9.2.3.1.15a	10.0.0	10.1.0
2012-09	RAN#57	R5s120423	1199	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.17	10.0.0	10.1.0
2012-09	RAN#57	R5s120425	1200	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.18	10.0.0	10.1.0
2012-09	RAN#57	R5s120427	1201	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1b	10.0.0	10.1.0
2012-09	RAN#57	R5s120431	1202	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.2.4.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120433	1203	-	Addition of Rel9 EUTRA RRC Interband Testcase 8.1.3.11	10.0.0	10.1.0
2012-09	RAN#57	R5s120436	1204	-	Addition of Rel-9 EUTRA-HRPD Idle Mode test case 6.2.3.7a	10.0.0	10.1.0
2012-09	RAN#57	R5s120440	1205	-	Correction to GCF WI-086 EMM test case 9.2.3.3.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120442	1206	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.1.2.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120446	1207	-	LTE_TDD: Addition of Rel9 EUTRA RRC Interband Testcase	10.0.0	10.1.0
2012-09	RAN#57	R5s120448	1208	-	8.1.3.11  LTE_TDD: Addition of Rel 9 EUTRA RRC Interband Testcase	10.0.0	10.1.0
2012-09	RAN#57	R5s120450	1209	-	8.2.4.13 Addition of Rel9 EUTRA RRC Interband Testcase 8.1.3.12	10.0.0	10.1.0
2012-09	RAN#57	R5s120452	1210	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120455	1211	-	Correction to GCF WI-086 EUTRA-UTRAN Multi-layer test case 13.1.4	10.0.0	10.1.0

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2012-09	RAN#57	R5s120456	1212	-	Addition of Rel9 EUTRA RRC Interband Testcase 8.2.4.15	10.0.0	10.1.0
2012-09	RAN#57	R5s120458	1213	-	Addition of GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1c	10.0.0	10.1.0
2012-09	RAN#57	R5s120461	1214	-	Correction to EMM test case 9.2.1.2.1d	10.0.0	10.1.0
2012-09	RAN#57	R5s120462	1215	-	Correction to f_UTRAN_PhyChReconf_InterRatCompresseModeActivate	10.0.0	10.1.0
2012-09	RAN#57	R5s120463	1216	-	Correction to EMM test case 9.2.3.1.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120464	1217	-	Correction to EMM test case 9.2.1.1.24	10.0.0	10.1.0
2012-09	RAN#57	R5s120465	1218	-	Addition of GCF WI-088 EUTRA<>CDMA200 1XRTT RRC Testcase 8.3.2.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120469	1219	-	Correction to function f_EUTRA_Capability in LTE/SAE ATS	10.0.0	10.1.0
2012-09	RAN#57	R5s120470	1220	-	Correction to usage of IP packets in EUTRA Test Mode B for IPv6-only UEs	10.0.0	10.1.0
2012-09	RAN#57	R5s120473	1221	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.2.4.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120475	1222	-	Correction to GCF WI-081 EUTRA MAC DRX testcase 7.1.6.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120476	1223	-	Correction for GERAN SI2Quater message content	10.0.0	10.1.0
2012-09	RAN#57	R5s120477	1224	-	Correction to EUTRA Idle mode test case 6.2.2.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120478	1225	-	Correction to GCF WI-086 EMM Testcase 9.2.3.3.5	10.0.0	10.1.0
2012-09	RAN#57	R5s120479	1226	-	Correction to ESM testcases 10.8.5 and 10.8.6	10.0.0	10.1.0
2012-09	RAN#57	R5s120480	1227	-	Correction to function f_EUTRA_RmvFbdnPLMN and CSG test cases	10.0.0	10.1.0
2012-09	RAN#57	R5s120481	1228	-	Correction to Multilayer test case 13.4.2.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120482	1229	-	Correction to EMM test case 9.2.3.3.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120483	1230	-	Correction GCF WI-082 EUTRA EMM Testcase 9.2.3.1.23	10.0.0	10.1.0
2012-09	RAN#57	R5s120484	1231	-	Correction GCF WI-086 EUTRA EMM Testcase 9.2.3.2.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120485	1232	-	Correction GCF WI-086 EUTRA Multilayer Testcase 13.1.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120486	1233	-	Correction GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1c	10.0.0	10.1.0
2012-09	RAN#57	R5s120487	1234	-	Correction GCF WI-081 EUTRA MAC Testcase 7.1.4.12	10.0.0	10.1.0
2012-09	RAN#57	R5s120488	1235	-	Correction to EUTRA RRC test case 8.5.4.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120489	1236	-	Correction GCF WI-086 EUTRA Idle Mode Testcase 6.2.1.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120490	1237	-	Addition of GCF WI-086 EUTRA-UTRAN test case 8.4.2.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120492	1238	-	LTE_TDD: Addition of Rel 9 EUTRA RRC Interband Testcase 8.2.4.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120494	1239	-	Correction for GERAN Packet Uplink Assignment template	10.0.0	10.1.0
2012-09	RAN#57	R5s120497	1240	-	Correction to EUTRA RRC test case 8.1.3.7	10.0.0	10.1.0
2012-09	RAN#57	R5s120498	1241	-	Addition of GCF WI-087 Multi-layer test case 13.1.7	10.0.0	10.1.0
2012-09	RAN#57	R5s120500	1242	-	Addition of EUTRA Multi-layer test case 13.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120502	1243	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.19	10.0.0	10.1.0
2012-09	RAN#57	R5s120504	1244	-	Addition of GCF WI-087 Multi-layer test case 13.1.9	10.0.0	10.1.0
2012-09	RAN#57	R5s120506	1245	-	Correction to Rel9 EUTRA RRC testcase 8.2.1.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120507	1246	-	Correction to EMM test case 9.2.1.2.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120508	1247	-	Correction to EMM test case 9.1.5.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120509	1248	-	Addition of GCF WI-087 Multi-layer test case 13.1.10	10.0.0	10.1.0

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2012-09	RAN#57	R5s120511	1249	-	Correction to f_UT_ConfigureCombinedAttach and f_UT_ConfigureEPSAttach	10.0.0	10.1.0
2012-09	RAN#57	R5s120515	1250	-	Addition of GCF WI-087 Multi-layer test case 6.2.3.20	10.0.0	10.1.0
2012-09	RAN#57	R5s120517	1251	-	Addition of Rel9 EUTRA<>CDMA2000 1xRTT Testcase 6.2.3.9a	10.0.0	10.1.0
2012-09	RAN#57	R5s120519	1252	-	Correction to GERAN Type Defs in LTE/SAE ATS	10.0.0	10.1.0
2012-09	RAN#57	R5s120520	1253	-	Correction to initial 'Power Off' MMI command in LTE/SAE ATS	10.0.0	10.1.0
2012-09	RAN#57	R5s120521	1254	-	Addition of GCF WI-087 EUTRA - GERAN test case 6.2.3.24	10.0.0	10.1.0
2012-09	RAN#57	R5s120523	1255	-	Correction to function f_SelectionExpr	10.0.0	10.1.0
2012-09	RAN#57	R5s120524	1256	-	Addition of Rel9 EUTRA<>CDMA2000 1xRTT Testcase 6.2.3.10a	10.0.0	10.1.0
2012-09	RAN#57	R5s120527	1257	-	Correction to GCF WI-087 testcase 6.2.3.16	10.0.0	10.1.0
2012-09	RAN#57	R5s120528	1258	-	Correction to Selection Expression for EMM test case 9.2.3.2.4 and 9.2.1.2.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120529	1259	-	Correction of GCF WI-086 EMM testcase 9.2.3.2.1a	10.0.0	10.1.0
2012-09	RAN#57	R5s120531	1260	-	Correction to multiLayer test case 13.1.3	10.0.0	10.1.0
2012-09	RAN#57	R5s120532	1261	-	Correction to EMM test case 9.2.3.3.5a	10.0.0	10.1.0
2012-09	RAN#57	R5s120533	1262	-	Correction to WI-086 EUTRA-UTRAN EMM Testcase 9.2.3.2.14	10.0.0	10.1.0
2012-09	RAN#57	R5s120534	1263	-	Correction to function fl_EUTRA_CheckNoAttach_Common	10.0.0	10.1.0
2012-09	RAN#57	R5s120535	1264	-	Addition of GCF WI-086 UTRA<>EUTRA HSPA Handover Testcase 8.4.2.4	10.0.0	10.1.0
2012-09	RAN#57	R5s120551	1265	-	Correction to GCF WI-086 RRC test case 8.4.1.5	10.0.0	10.1.0
2012-09	RAN#57	R5s120552	1266	-	Addition of GCF WI-089 EUTRA test case 8.3.2.5	10.0.0	10.1.0
2012-09	RAN#57	R5s120554	1267	-	Addition of Rel-9 EUTRA-HRPD Idle Mode test case 6.2.3.8a	10.0.0	10.1.0
2012-09	RAN#57	R5s120556	1268	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 6.2.3.17	10.0.0	10.1.0
2012-09	RAN#57	R5s120558	1269	-	LTE_TDD: Addition of GCF WI-097 EUTRA Idle Mode testcase 6.2.3.18	10.0.0	10.1.0
2012-09	RAN#57	R5s120560	1270	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.11	10.0.0	10.1.0
2012-09	RAN#57	R5s120562	1271	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.4.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120564	1272	-	Correction to GCF WI-086 EUTRA-UTRAN test case 9.2.2.1.10	10.0.0	10.1.0
2012-09	RAN#57	R5s120565	1273	-	Correction to EUTRA RRC test case 8.1.3.7	10.0.0	10.1.0
2012-09	RAN#57	R5s120566	1274	-	Correction to applicability for test case 6.1.2.15	10.0.0	10.1.0
2012-09	RAN#57	R5s120567	1275	-	Correction to EMM test case 9.2.3.4.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120568	1276	-	Addition of GCF WI-089 EUTRA test case 6.2.1.1	10.0.0	10.1.0
2012-09	RAN#57	R5s120570	1277	-	Addition of GCF WI-087 LTE<>GERAN Multilayer Testcase 13.3.2.2	10.0.0	10.1.0
2012-09	RAN#57	R5s120572	1278	-	Correction EUTRA<>GERAN Testcases using Multiple GERAN	10.0.0	10.1.0
2012-09	RAN#57	R5s120573	1279	-	Cell Correction to EUTRA<>UTRA Band IX Testcases	10.0.0	10.1.0
2012-09	RAN#57	R5s120574	1280	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.13	10.0.0	10.1.0
2012-09	RAN#57	R5s120575	1281	-	Correction to EMM test cases 9.3.1.4, 9.3.1.5, 9.3.1.6	10.0.0	10.1.0
2012-09	RAN#57	R5s120576	1282	-	Correction for function fl_ConvertPLMN	10.0.0	10.1.0
2012-09	RAN#57	R5s120579	1283	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.2.8	10.0.0	10.1.0
2012-09	RAN#57	R5s120580	1284	-	LTE_TDD: Addition of EUTRA test case 8.1.3.12	10.0.0	10.1.0
2012-09	RAN#57	R5s120582	1285	-	LTE_TDD: Addition of EUTRA test case 8.2.4.15	10.0.0	10.1.0

2012-09   RANNST   R5s120586   286   Correction to EUTRA EMM testaces 9.2.3.15a   10.00   10.10   2012-09   RANNST   R5s120586   1287   Correction to GCF WI-082 EMM testaces 9.2.3.110, 9.2.3.1.11, 10.00   10.10   2012-09   RANNST   R5s120586   1288   Correction to Common IRAT NAS templates in LTE/SAE ATS   10.00   10.10   2012-09   RANNST   R5s120586   1289   Correction to LTE-AGERAN test cases   2.3.110   10.00   10.10   2012-09   RANNST   R5s120586   1289   LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.19   10.00   10.10   2012-09   RANNST   R5s120590   1291   LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20   10.00   10.10   2012-09   RANNST   R5s120590   1291   LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20   10.00   10.10   2012-09   RANNST   R5s120590   1294   Correction to GCF WI-097 EUTRA test case 6.2.3.19   10.00   10.10   2012-09   RANNST   R5s120590   1294   Correction to GCF WI-097 Multilayer test case 13.1.8   10.00   10.10   2012-09   RANNST   R5s120500   1294   Correction to GCF WI-097 Hultilayer test case 13.1.9   10.00   10.10   2012-09   RANNST   R5s120500   1294   Correction to GCF WI-097 EUTRA Multilayer testcase 13.1.9   10.00   10.10   2012-09   RANNST   R5s120500   1294   Correction to GCF WI-098 EMM test case 9.2.3.3.3   10.00   10.10   2012-09   RANNST   R5s120501   1297   CR to 36.523-3. Add new verified and e-mail agreed TTCN test cases in the TC biss in d5.6223-3 (prose), Annax A   10.00   10.10   10.20   2012-12   RANNSS   R5-125091   1298   Correction to gister minimate loopback delay   10.10   10.20   2012-12   RANNSS   R5-125091   1298   Correction to gister minimate loopback delay   10.10   10.20   2012-12   RANNSS   R5-125051   1300   Correction to UT function for UE Switch On' in LTE/SAE ATS   10.10   10.20   2012-12   RANNSS   R5-125051   1300   Correction to UT function for UE Switch On' in LTE/SAE ATS   10.10   10.20   2012-12   RANNSS   R5-120515   1300   Correction to EUTRA RAC test case 8.5.4.1   10.10   10.20   2012-12   RANNSS   R5-120505	Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
22.3.1.12 and 9.2.3.1.16	2012-09	RAN#57	R5s120584	1286	-	Correction to EUTRA EMM testcase 9.2.3.3.5a	10.0.0	10.1.0
2012-09 RANAS7 R5120568   1288   - Correction to Common IRAT NAS templates in LTE/SAE ATS   10.00   10.10   2012-09   RANAS7 R5120567   1289   - Correction to LTE->GERAN test cases   10.00   10.10   10.10   2012-09   RANAS7 R5120589   1291   - LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.19   10.00   10.10   2012-09   RANAS7 R5120590   1291   - LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20   10.00   10.10   2012-09   RANAS7 R5120591   1292   - LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.7   10.00   10.10   2012-09   RANAS7 R5120594   1293   - LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.8   10.00   10.10   2012-09   RANAS7 R5120602   1294   - Correction to GCF WI-097 Multilayer test case 13.1.9   10.00   10.10   2012-09   RANAS7 R5120602   1295   - Correction to GCF WI-097 EUTRA Multilayer test case 13.1.9   10.00   10.10   2012-09   RANAS7 R5120604   1296   - Correction to GCF WI-097 EUTRA Multilayer test case 13.1.9   10.00   10.10   2012-09   RANAS7 R5120604   1296   - Correction to GCF WI-097 EUTRA Multilayer test case 13.1.9   10.00   10.10   2012-09   RANAS7 R5120604   1298   - Correction to GCF WI-097 EUTRA Multilayer test case 13.1.9   10.00   10.10   2012-09   RANAS7 R5120604   1298   - Correction to GCF WI-098 EMM test case 9.2.3.3   10.00   10.10   2012-12   RANAS8 R5125091   1298   - Correction to GCF WI-098 EMM test case 9.2.3.3   10.00   10.10   2012-12   RANAS8 R5125093   1299   - Correction to gystem information scheduling in section 7.12   10.10   10.2.0   2012-12   RANAS8 R5125093   1300   - Update guidelines for TC executions   10.10   10.2.0   2012-12   RANAS8 R5125755   1303   - Societion to UT function for "UE Switch On" in LTE/SAE ATS   10.1.0   10.2.0   2012-12   RANAS8 R5120611   1305   - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1   10.1.0   10.2.0   2012-12   RANAS8 R5120613   1306   - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 9.2.3.13   10.1.0   10.2.0   2012-12   RANAS8 R5120639   1315   - Correction to EUTRA	2012-09	RAN#57	R5s120585	1287	-		10.0.0	10.1.0
2012-09   RAN#57   R5s120588   1290   LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.19   10.0.0   10.1.0	2012-09	RAN#57	R5s120586	1288	-		10.0.0	10.1.0
2012-09   RAN#57   R5s120590   1291   LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20   10.0.0   10.1.0	2012-09	RAN#57	R5s120587	1289	-	Correction to LTE<>GERAN test cases	10.0.0	10.1.0
Correction to GCF WI-097 Multilayer test case 13.1.7   10.0.0   10.1.0	2012-09	RAN#57	R5s120588	1290	-	LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.19	10.0.0	10.1.0
2012-09   RAN#57   R5s120634   1293   LTE_TIDD: Addition of GCF Wi-097 Multilayer test case 13.1.8   10.0.0   10.1.0	2012-09	RAN#57	R5s120590	1291	-	LTE_TDD: Addition of GCF WI-097 EUTRA test case 6.2.3.20	10.0.0	10.1.0
2012-09   RAN#57   R5s120600   1294   Correction to GCF WI-087 EUTRA Multilayer testcase 13.1.9   10.0.0   10.1.0	2012-09	RAN#57	R5s120592	1292	-	LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.7	10.0.0	10.1.0
2012-09   RAN#57   R5s120602   1295   Correction for GERAN cell selection parameters   10.0.0   10.1.0	2012-09	RAN#57	R5s120594	1293	-	LTE_TDD: Addition of GCF WI-097 Multilayer test case 13.1.8	10.0.0	10.1.0
2012-09	2012-09	RAN#57	R5s120600	1294	-	Correction to GCF WI-087 EUTRA Multilayer testcase 13.1.9	10.0.0	10.1.0
2012-12   RAN#58   R5-125091   1298   -	2012-09	RAN#57	R5s120602	1295	-	Correction for GERAN cell selection parameters	10.0.0	10.1.0
Carestion to Tol Itsts in 36.523-3 (prose), Annex A   10.2.0	2012-09	RAN#57	R5s120604	1296	-	Correction to GCF WI-086 EMM test case 9.2.3.3.3	10.0.0	10.1.0
2012-12   RAN#58   R5-125091   1298   Correction to system information scheduling in section 7.7.2   10.1.0   10.2.0   2012-12   RAN#58   R5-125093   1299   Correction to delay after RRC CONN REL in section 7.18   10.1.0   10.2.0   2012-12   RAN#58   R5-125127   1300   Update guidelines for TC executions   10.1.0   10.2.0   2012-12   RAN#58   R5-125133   1301   New PIXIT to minimize loopback delay   10.1.0   10.2.0   2012-12   RAN#58   R5-125755   1303   36523-3: Routine maintenance and updates   10.1.0   10.2.0   2012-12   RAN#58   R5-125755   1303   36523-3: Routine maintenance and updates   10.1.0   10.2.0   2012-12   RAN#58   R5s120697   1304   Correction to UT function for "UE Switch On" in LTE/SAE ATS   10.1.0   10.2.0   2012-12   RAN#58   R5s120613   1306   LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1   10.1.0   10.2.0   2012-12   RAN#58   R5s120615   1307   Correction for GERAN initialisation functions   10.1.0   10.2.0   2012-12   RAN#58   R5s120637   1308   Addition of GCF WI-091 EUTRA RRC test case 6.3.5   10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1319   LTE_TDD: Addition of GCF WI-091 EWTRA Manual CSG Testcase 6.3.5   10.1.0   10.2.0   2012-12   RAN#58   R5s120628   1311   Correction to EUTRA RRC test case 8.5.4.1   10.1.0   10.2.0   2012-12   RAN#58   R5s120629   1312   Correction to EUTRA RRC test case 8.5.4.1   10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1315   Correction to EUTRA RRC test case 8.5.4.1   10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1315   Correction to EUTRA MAC test case 7.1.3.9   10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1315   Correction to EUTRA-GERAN Multi-Layer test cases 9.3.1.6   10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1315   Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1317   Correction to EUTRA-GERAN Multi-Layer test cases 6.2.3.17   10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1317   Correction to EUTRA-GERAN Multi-Layer test cases 9.2.3.2.14   10.1	2012-09	RAN#57	RP-121107	1297	-		10.0.0	10.1.0
2012-12 RAN#58 R5-125127 1300 - Update guidelines for TC executions 10.1.0 10.2.0 2012-12 RAN#58 R5-125133 1301 - New PIXIT to minimize loopback delay 10.1.0 10.2.0 2012-12 RAN#58 R5-125278 1302 - Change of default value for px_RRC_CipheringAlgorithm 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 - 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-120597 1304 - Correction to UT function for "UE Switch On" in LTE/SAE ATS 10.1.0 10.2.0 2012-12 RAN#58 R5s120691 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 2012-12 RAN#58 R5s120613 1306 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13 10.1.0 10.2.0 2012-12 RAN#58 R5s120623 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120629 1311 - Correction to EUTRA RRC test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1310 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1315 - Correction to EUTRA GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1316 - Correction to EUTRA-GERAN Multi-Layer test cases 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA-GERAN Multi-Layer test cases 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA-GERAN Multi-Layer test cases 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA-GERAN Multi-Layer test cases 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA-GERAN Multi-Layer test cases 6.2.3.1	2012-12	RAN#58	R5-125091	1298	-		10.1.0	10.2.0
2012-12 RAN#58 R5-125133 1301 - New PIXIT to minimize loopback delay 10.1.0 10.2.0 2012-12 RAN#58 R5-125278 1302 - Change of default value for px_RRC_CipheringAlgorithm 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 - 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-126755 1303 - 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-120611 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 (6.1.1.6 6.1.1.6 ) 2012-12 RAN#58 R5-120613 1306 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 (6.1.1.6 ) 2012-12 RAN#58 R5-120615 1307 - Correction for GERAN initialisation functions 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120615 1307 - Correction for GERAN initialisation functions 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120619 1309 - LTE_TDD: Addition of GCF WI-091 EUTRA Manual CSG Testcase 6.3.5 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120623 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120623 1311 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120629 1312 - Correction to EUTRA RRC test case 7.1.3.9 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120629 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120639 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120639 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120639 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120639 1315 - Correction to EUTRA-GERAN Multi-Layer test case 6.2.3.17 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120639 1317 - Correction to EUTRA-GERAN Multi-Layer test case 6.2.3.17 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120639 1317 - Correction to EUTRA-GERAN Multi-Layer test case 6.2.3.17 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120639 1317 - Correction to EUTRA-GERAN Multi-Layer test case 6.2.3.17 10.1.0 10.2.0 (2.0.1.2.1 RAN#58 R5-120641 1318 - Correction to EUTRA-G	2012-12	RAN#58	R5-125093	1299	-	Correction to delay after RRC CONN REL in section 7.18	10.1.0	10.2.0
2012-12 RAN#58 R5-125278   1302   - Change of default value for px_RRC_CipheringAlgorithm   10.1.0   10.2.0	2012-12	RAN#58	R5-125127	1300	-	Update guidelines for TC executions	10.1.0	10.2.0
2012-12 RAN#58 R5-125755 1303 - 36523-3: Routine maintenance and updates 10.1.0 10.2.0 2012-12 RAN#58 R5-125755 1303 - Correction to UT function for "UE Switch On" in LTE/SAE ATS 10.1.0 10.2.0 2012-12 RAN#58 R5-120611 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 6.1.1.6 6.1.1.6	2012-12	RAN#58	R5-125133	1301	-	New PIXIT to minimize loopback delay	10.1.0	10.2.0
2012-12 RAN#58 R5s120611 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120615 1307 - Correction for GERAN initialisation functions 10.1.0 10.2.0 2012-12 RAN#58 R5s120617 1308 - Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120623 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120628 1311 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1314 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1315 - Correction to EUTRA GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EUTRA-GERAN Multi-Layer test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA East cases 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA East cases 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA East cases 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA tes	2012-12	RAN#58	R5-125278	1302	-	Change of default value for px_RRC_CipheringAlgorithm	10.1.0	10.2.0
2012-12 RAN#58 R5s120611 1305 - LTE_TDD: Addition of GCF WI-091 EUTRA Idle mode testcase 10.1.0 10.2.0 6.1.1.6 c.1.1.6   2012-12 RAN#58 R5s120613 1306 - LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1 10.1.0 10.2.0 10.2.0   2012-12 RAN#58 R5s120615 1307 - Correction for GERAN initialisation functions 10.1.0 10.2.0   2012-12 RAN#58 R5s120617 1308 - Addition of GCF WI-081 EUTRA Manual CSG Testcase 6.3.5 10.1.0 10.2.0   2012-12 RAN#58 R5s120619 1309 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13 10.1.0 10.2.0   2012-12 RAN#58 R5s120623 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0   2012-12 RAN#58 R5s120628 1311 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0   2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0   2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0   2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0   2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0   2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0   2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0   2012-12 RAN#58 R5s120639 1317 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0   2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 9.2.3.3.5a 10.1.0 10.2.0   2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0   2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0   2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0   2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0   2012-12 RAN#58 R5s120641 1319 - Correction to FUTRA test case 9.2.3.3.5a 10.1.0 10.2.0   2012-12 RAN#58 R5s120647 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0	2012-12	RAN#58	R5-125755	1303	-	36523-3: Routine maintenance and updates	10.1.0	10.2.0
6.1.1.6	2012-12	RAN#58	R5s120597	1304	-	Correction to UT function for "UE Switch On" in LTE/SAE ATS	10.1.0	10.2.0
2012-12         RAN#58         R5s120613         1306         -         LTE_TDD: Addition of GCF WI-091 EUTRA RRC test case 8.3.3.1         10.1.0         10.2.0           2012-12         RAN#58         R5s120615         1307         -         Correction for GERAN initialisation functions         10.1.0         10.2.0           2012-12         RAN#58         R5s120617         1308         -         Addition of GCF WI-081 EUTRA Manual CSG Testcase 6.3.5         10.1.0         10.2.0           2012-12         RAN#58         R5s120619         1309         -         LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13         10.1.0         10.2.0           2012-12         RAN#58         R5s120623         1310         -         Correction to EUTRA RRC test case 8.5.4.1         10.1.0         10.2.0           2012-12         RAN#58         R5s120628         1311         -         Correction to EUTRA MAC test case 7.1.3.9         10.1.0         10.2.0           2012-12         RAN#58         R5s120632         1313         -         LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6         10.1.0         10.2.0           2012-12         RAN#58         R5s120634         1314         -         Correction to EUTRA GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0         10.1.0         10.2.0	2012-12	RAN#58	R5s120611	1305	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120617 1308 - Addition of GCF WI-081 EUTRA Manual CSG Testcase 6.3.5 10.1.0 10.2.0 2012-12 RAN#58 R5s120619 1309 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13 10.1.0 10.2.0 2012-12 RAN#58 R5s120623 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120628 1311 - Correction to EUTRA RRC test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to FUTRA test case 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120613	1306	-		10.1.0	10.2.0
2012-12 RAN#58 R5s120629 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120628 1311 - Correction to EUTRA RRC test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to FUTRA test case 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0	2012-12	RAN#58	R5s120615	1307	-	Correction for GERAN initialisation functions	10.1.0	10.2.0
2012-12 RAN#58 R5s120623 1310 - Correction to EUTRA RRC test case 8.5.4.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120628 1311 - Correction to EMM test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1319 - Correction to function f_IPv4IPv6_IcmpEchoReply 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120617	1308	-	Addition of GCF WI-081 EUTRA Manual CSG Testcase 6.3.5	10.1.0	10.2.0
2012-12 RAN#58 R5s120628 1311 - Correction to EMM test case 9.2.3.1.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EMM test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to FUTRA test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120619	1309	-	LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.13	10.1.0	10.2.0
2012-12 RAN#58 R5s120629 1312 - Correction to EUTRA MAC test case 7.1.3.9 10.1.0 10.2.0 2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EMM test case 9.2.3.3.5a 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to FUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120623	1310	-	Correction to EUTRA RRC test case 8.5.4.1	10.1.0	10.2.0
2012-12 RAN#58 R5s120632 1313 - LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6 10.1.0 10.2.0 2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0 2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0 13.1.9 and 13.1.10 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120639 1317 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0 2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120642 1319 - Correction to EUTRA test cases 10.1.0 10.2.0 2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0 2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120628	1311	-	Correction to EMM test case 9.2.3.1.17	10.1.0	10.2.0
2012-12 RAN#58 R5s120634 1314 - Correction to EUTRA MAC test case 7.1.6.1 10.1.0 10.2.0  2012-12 RAN#58 R5s120637 1315 - Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0 10.2.0  2012-12 RAN#58 R5s120638 1316 - Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17 10.1.0 10.2.0  2012-12 RAN#58 R5s120639 1317 - Correction to EMM test case 9.2.3.3.5a 10.1.0 10.2.0  2012-12 RAN#58 R5s120641 1318 - Correction to EUTRA test cases 10.1.0 10.2.0  2012-12 RAN#58 R5s120642 1319 - Correction to FIPv4IPv6_IcmpEchoReply 10.1.0 10.2.0  2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0  2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120629	1312	-	Correction to EUTRA MAC test case 7.1.3.9	10.1.0	10.2.0
2012-12       RAN#58       R5s120637       1315       -       Correction to EUTRA-GERAN Multi-Layer test cases 13.1.7, 13.1.8, 10.1.0       10.2.0         2012-12       RAN#58       R5s120638       1316       -       Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17       10.1.0       10.2.0         2012-12       RAN#58       R5s120639       1317       -       Correction to EMM test case 9.2.3.3.5a       10.1.0       10.2.0         2012-12       RAN#58       R5s120641       1318       -       Correction to EUTRA test cases       10.1.0       10.2.0         2012-12       RAN#58       R5s120642       1319       -       Correction to function f_IPv4IPv6_IcmpEchoReply       10.1.0       10.2.0         2012-12       RAN#58       R5s120643       1320       -       LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14       10.1.0       10.2.0         2012-12       RAN#58       R5s120647       1321       -       Addition of EUTRA test case 6.1.2.15b       10.1.0       10.2.0	2012-12	RAN#58	R5s120632	1313	-	LTE_TDD: Addition of GCF WI-092 EMM testcase 9.3.1.6	10.1.0	10.2.0
13.1.9 and 13.1.10   10.1.0   10.2.0   2012-12   RAN#58   R5s120639   1317   Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17   10.1.0   10.2.0   2012-12   RAN#58   R5s120641   1318   Correction to EUTRA test cases   10.1.0   10.2.0   2012-12   RAN#58   R5s120642   1319   Correction to function f_IPv4IPv6_IcmpEchoReply   10.1.0   10.2.0   2012-12   RAN#58   R5s120643   1320   LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14   10.1.0   10.2.0   2012-12   RAN#58   R5s120647   1321   Addition of EUTRA test case 6.1.2.15b   10.1.0   10.2.0   2012-12   RAN#58   R5s120647   1321   Addition of EUTRA test case 6.1.2.15b   10.1.0   10.2.0   2012-12   RAN#58   R5s120647   1321   Addition of EUTRA test case 6.1.2.15b   2012-0.0   2012	2012-12	RAN#58	R5s120634	1314	-	Correction to EUTRA MAC test case 7.1.6.1	10.1.0	10.2.0
2012-12         RAN#58         R5s120638         1316         -         Correction to EUTRA-GERAN Idle Mode test case 6.2.3.17         10.1.0         10.2.0           2012-12         RAN#58         R5s120639         1317         -         Correction to EMM test case 9.2.3.3.5a         10.1.0         10.2.0           2012-12         RAN#58         R5s120641         1318         -         Correction to EUTRA test cases         10.1.0         10.2.0           2012-12         RAN#58         R5s120642         1319         -         Correction to function f_IPv4IPv6_IcmpEchoReply         10.1.0         10.2.0           2012-12         RAN#58         R5s120643         1320         -         LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14         10.1.0         10.2.0           2012-12         RAN#58         R5s120647         1321         -         Addition of EUTRA test case 6.1.2.15b         10.1.0         10.2.0	2012-12	RAN#58	R5s120637	1315	-		10.1.0	10.2.0
2012-12       RAN#58       R5s120641       1318       -       Correction to EUTRA test cases       10.1.0       10.2.0         2012-12       RAN#58       R5s120642       1319       -       Correction to function f_IPv4IPv6_IcmpEchoReply       10.1.0       10.2.0         2012-12       RAN#58       R5s120643       1320       -       LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14       10.1.0       10.2.0         2012-12       RAN#58       R5s120647       1321       -       Addition of EUTRA test case 6.1.2.15b       10.1.0       10.2.0	2012-12	RAN#58	R5s120638	1316	-		10.1.0	10.2.0
2012-12       RAN#58       R5s120642       1319       -       Correction to function f_IPv4IPv6_IcmpEchoReply       10.1.0       10.2.0         2012-12       RAN#58       R5s120643       1320       -       LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14       10.1.0       10.2.0         2012-12       RAN#58       R5s120647       1321       -       Addition of EUTRA test case 6.1.2.15b       10.1.0       10.2.0	2012-12	RAN#58	R5s120639	1317	-	Correction to EMM test case 9.2.3.3.5a	10.1.0	10.2.0
2012-12 RAN#58 R5s120643 1320 - LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14 10.1.0 10.2.0  2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120641	1318	-	Correction to EUTRA test cases	10.1.0	10.2.0
2012-12 RAN#58 R5s120647 1321 - Addition of EUTRA test case 6.1.2.15b 10.1.0 10.2.0	2012-12	RAN#58	R5s120642	1319	-	Correction to function f_IPv4IPv6_lcmpEchoReply	10.1.0	10.2.0
	2012-12	RAN#58	R5s120643	1320	-	LTE_TDD: Addition of GCF WI-097 EMM testcase 9.2.3.2.14	10.1.0	10.2.0
2012-12 RAN#58 R5s120649 1322 - Addition of GCF WI-086 EMM test case 9.2.3.2.1b 10.1.0 10.2.0	2012-12	RAN#58	R5s120647	1321	-	Addition of EUTRA test case 6.1.2.15b	10.1.0	10.2.0
	2012-12	RAN#58	R5s120649	1322	-	Addition of GCF WI-086 EMM test case 9.2.3.2.1b	10.1.0	10.2.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2012-12	RAN#58	R5s120651	1323	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	10.2.0
2012-12	RAN#58	R5s120653	1324	-	6.1.1.3a Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	10.2.0
2012-12	RAN#58	R5s120655	1325	-	8.1.3.11a Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	10.2.0
2012-12	RAN#58	R5s120657	1326	-	8.2.4.10 Correction for GERAN PTC initialisation	10.1.0	10.2.0
2012-12	RAN#58	R5s120658	1327	-	Correction to EUTRA MAC test case 7.1.6.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120659	1328	  -	Correction to EUTRA InterRAT test function	10.1.0	
2012-12		R5s120660			Correction to EUTRA InterRAT Testcases		10.2.0
2012-12		R5s120661		_	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	
	RAN#58			_	6.1.1.1a  Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case		10.2.0
2012-12		R5s120663		-	13.4.1.3		
2012-12	RAN#58	R5s120666		-	Correction to Selection Expressions in LTE/SAE ATS	10.1.0	
2012-12	RAN#58	R5s120667		-	Correction to EUTRA MAC Testcase 7.1.3.9		10.2.0
2012-12	RAN#58	R5s120668		-	Correction to EUTRA GCF WI-086 Multilayer Testcase 13.1.3		10.2.0
2012-12	RAN#58	R5s120669	1335	-	Correction to EUTRA GCF WI-086 EMM Testcase 9.2.1.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120670	1336	-	Correction to EUTRA Idle Mode test case 6.2.3.15	10.1.0	10.2.0
2012-12	RAN#58	R5s120671	1337	-	Correction to EUTRA GCF WI-086 RRC Testcase 8.4.1.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120672	1338	-	Correction to Multilayer test case 13.4.2.4	10.1.0	10.2.0
2012-12	RAN#58	R5s120673	1339	-	Correction to f_UTRAN_CS_Fallback_WithHandover function	10.1.0	10.2.0
2012-12	RAN#58	R5s120675	1340	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.12	10.1.0	10.2.0
2012-12	RAN#58	R5s120677	1341	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.14	10.1.0	10.2.0
2012-12	RAN#58	R5s120679	1342	-	Addition of Rel 9 EUTRA RRC Interband Testcase 13.4.1.4	10.1.0	10.2.0
2012-12	RAN#58	R5s120681	1343	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.15	10.1.0	10.2.0
2012-12	RAN#58	R5s120683	1344	-	Correction to EUTRA EMM Testcase 9.2.3.1.23 and 9.2.3.2.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120684	1345	-	Correction to GCF WI-081 EUTRA CSG Testcase 6.3.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120685	1346	-	Correction to Idle ModeTest Cases 6.1.1.3, 6.1.1.3b and 6.2.1.4.	10.1.0	10.2.0
2012-12	RAN#58	R5s120686	1347	-	Correction to GCF WI-086 UTRA<>EUTRA RRC Testcases 8.4.2.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120688	1348	-	& 8.4.2.4  Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120689	1349	_	LTE_TDD: Addition of GCF WI-097 EUTRA RRC Testcase 8.4.3.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120693		-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.1.0	10.2.0
2012-12	RAN#58	R5s120695	1351	-	8.2.4.13a Corrections to Eutra EMM Test case 9.2.3.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120696	1352	-	Corrections to EUTRA EMM Test case 9.2.3.1.16	10.1.0	10.2.0
2012-12	RAN#58	R5s120697	1353	_	Correction to GCF WI-086 EMM test case 9.2.3.3.3	10.1.0	10.2.0
2012-12		R5s120698		  -	Corrections to EMM test case 9.2.1.1.7a		10.2.0
2012-12	RAN#58	R5s120699		_	Corrections to Multi-layer test case 13.1.9		10.2.0
2012-12	RAN#58	R5s120700			Addition of Rel-9 LTE Multi-layer Procedures test case 13.3.1.3		10.2.0
				-	,		
2012-12	RAN#58	R5s120702		_	Correction to EUTRA EMM Testcase 9.2.3.2.3	10.1.0	
2012-12	RAN#58	R5s120703		-	Corrections to EMM test case 9.2.3.34		10.2.0
2012-12	RAN#58	R5s120704	1359	-	Addition of Rel 9 EUTRA RRC Interband Testcase 8.3.1.13	10.1.0	10.2.0

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2012-12	RAN#58	R5s120706	1360	-	Corrections to EUTRA RRC test case 8.5.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120707	1361	-	Corrections to EUTRA EMM test case 9.2.3.3.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120708	1362	-	Corrections to EUTRA Idle Mode Test case 6.2.3.19	10.1.0	10.2.0
2012-12	RAN#58	R5s120709	1363	-	Addition of Rel-9 LTE Multi-layer Procedures test case 13.4.1.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120711	1364	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.3.4.	10.1.0	10.2.0
2012-12	RAN#58	R5s120713	1365	-	Addition of GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.12a	10.1.0	10.2.0
2012-12	RAN#58	R5s120715	1366	-	Corrections to EMM test case 9.2.3.3.5a	10.1.0	10.2.0
2012-12	RAN#58	R5s120719	1367	-	Correction to UTRAN functions	10.1.0	10.2.0
2012-12	RAN#58	R5s120720	1368	-	Corrections to function f_EUTRA_RmvFbdnPLMN function	10.1.0	10.2.0
2012-12	RAN#58	R5s120721	1369	-	Corrections to EMM test case 9.2.2.1.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120722	1370	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.3.1.14a	10.1.0	10.2.0
2012-12	RAN#58	R5s120724	1371	-	Correction to EMM test case 9.2.1.2.15	10.1.0	10.2.0
2012-12	RAN#58	R5s120725	1372	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case 8.3.1.13a	10.1.0	10.2.0
2012-12	RAN#58	R5s120727	1373	-	Corrections to IMS procedures in LTE test suite	10.1.0	10.2.0
2012-12	RAN#58	R5s120728	1374	-	Correction to EUTRA EMM test case 9.2.3.3.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120738	1375	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.1.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120740	1376	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.2.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120742	1377	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.2.8	10.1.0	10.2.0
2012-12	RAN#58	R5s120744	1378	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120746	1379	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120748	1380	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120750	1381	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.13	10.1.0	10.2.0
2012-12	RAN#58	R5s120752	1382	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.31	10.1.0	10.2.0
2012-12	RAN#58	R5s120754	1383	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.32	10.1.0	10.2.0
2012-12	RAN#58	R5s120756	1384	-	LTE_TDD: Addition of GCF WI-096 RRC test case 8.1.3.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120758	1385	-	LTE_TDD: Addition of GCF WI-096 RRC test case 8.5.2.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120760	1386	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.1.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120762	1387	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.2.1.10	10.1.0	10.2.0
2012-12	RAN#58	R5s120764	1388	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.3.3.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120768	1389	-	Corrections to Multi-layer test cases 13.1.7,13.1.8,13.1.9,13.1.10	10.1.0	10.2.0
2012-12	RAN#58	R5s120769	1390	-	Correction to fl_EUTRA_RRC_Procedure_Latency function	10.1.0	10.2.0
2012-12	RAN#58	R5s120770	1391	-	Correction to GCF WI-086 EUTRA<>UTRA Testcases 6.2.1.3 and 8.3.3.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120771	1392	-	Correction to GCF WI-082 EUTRA Multilayer Testcase 13.3.1.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120772	1393	-	Addition of Rel 9 GCF WI-151 EUTRA RRC Testcase 6.1.2.16	10.1.0	10.2.0
2012-12	RAN#58	R5s120774	1394	-	Addition of GCF WI-087 Multi layer test case 13.4.2.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120776	1395	-	Addition of Rel-9 EUTRA-UTRAN RRC test case 8.1.3.6a	10.1.0	10.2.0
2012-12	RAN#58	R5s120778	1396	-	Correction to GCF WI-086 E-UTRA to UTRAN RRC test case 8.4.1.5	10.1.0	10.2.0

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2012-12	RAN#58	R5s120779	1397	-	LTE_TDD : Addition of Rel9 EUTRA Multilayer Testcase 13.3.1.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120781	1398	-	LTE_TDD : Addition of Rel9 EUTRA Multilayer Testcase 13.4.1.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120783	1399	-	Addition of Rel 9 RSRQ Idle Mode Testcase 6.1.2.2a	10.1.0	10.2.0
2012-12	RAN#58	R5s120785	1400	-	Addition of GCF WI-151 EUTRA FDD-TDD Intermode Testcase 6.1.2.15a	10.1.0	10.2.0
2012-12	RAN#58	R5s120787	1401	-	Correction to EMM Test Case 9.2.1.2.1d	10.1.0	10.2.0
2012-12	RAN#58	R5s120788	1402	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1d	10.1.0	10.2.0
2012-12	RAN#58	R5s120789	1403	-	Correction to EUTRA Idle Mode Testcase 6.1.2.9a	10.1.0	10.2.0
2012-12	RAN#58	R5s120790	1404	-	Correction to GCF WI-086 EMM test case 9.2.3.3.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120791	1405	-	Corrections to EUTRA Idle Mode Test Cases	10.1.0	10.2.0
2012-12	RAN#58	R5s120793	1406	-	Correction to GCF WI-087 LTE<>GERAN Testcase 6.2.3.24	10.1.0	10.2.0
2012-12	RAN#58	R5s120797	1407	-	LTE_TDD: Addition of GCF WI-096 Idle Mode test case 6.2.3.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120799	1408	-	Correction to f_UTRAN_LocationUpdate_WithoutLAUReq function	10.1.0	10.2.0
2012-12	RAN#58	R5s120800	1409	-	Correction to ESM test cases 10.8.5 and 10.8.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120801	1410	-	Correction to Idle Mode test case 6.2.2.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120802	1411	-	Correction to GERAN XID procedure	10.1.0	10.2.0
2012-12	RAN#58	R5s120808	1412	-	Addition of Rel9 EUTRA RRC test case 8.5.1.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120810	1413	-	Corrections to EUTRA RRC test case 8.5.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120811	1414	-	Correction to Idle Mode test case 6.2.1.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120812	1415	-	Addition of GCF WI-151 EUTRA FDD-TDD Inter-mode test case 8.2.4.14a.	10.1.0	10.2.0
2012-12	RAN#58	R5s120815	1416	-	Correction to EUTRA Idle Mode Test Case 6.2.1.4	10.1.0	10.2.0
2012-12	RAN#58	R5s120817	1417	-	Addition of GCF WI-151 EUTRA FDD-TDD Inter-mode test case 8.2.4.15a.	10.1.0	10.2.0
2012-12	RAN#58	R5s120819	1418	-	Correction to f_UTRAN_CS_Fallback_WithHandover function	10.1.0	10.2.0
2012-12	RAN#58	R5s120820	1419	-	Correction to EUTRA Multi Layer test case 13.3.2.2	10.1.0	10.2.0
2012-12	RAN#58	R5s120821	1420	-	Correction to f_GetTestcaseAttrib_Eutra_Release function	10.1.0	10.2.0
2012-12	RAN#58	R5s120822	1421	-	Correction to GCF WI-081 MAC test cases 7.1.7.1.x and 7.1.7.2.1 for Band 18.	10.1.0	10.2.0
2012-12	RAN#58	R5s120823	1422	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.4.1.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120824	1423	-	Correction to GCF WI-087 EUTRA RRC Testcase 9.2.1.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120825	1424	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120826	1425	-	Correction to Rel9 EUTRA Multilayer Testcase 13.3.1.3	10.1.0	10.2.0
2012-12	RAN#58	R5s120827	1426	-	Addition of Rel9 EUTRA RRC Interband Testcase 8.3.1.16.	10.1.0	10.2.0
2012-12	RAN#58	R5s120829	1427	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1c	10.1.0	10.2.0
2012-12	RAN#58	R5s120831	1428	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1c	10.1.0	10.2.0
2012-12	RAN#58	R5s120832	1429	-	Correction to GCF WI-082 EUTRA CSG Testcase 6.3.5	10.1.0	10.2.0
2012-12	RAN#58	R5s120833	1430	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.1.2.13	10.1.0	10.2.0
2012-12	RAN#58	R5s120834	1431	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120835	1432	-	Correction to GCF WI-087 EUTRA EMM Testcases 9.2.3.2.3, 9.2.1.2.1b, 9.2.3.2.1b	10.1.0	10.2.0
2012-12	RAN#58	R5s120836	1433	-	Correction to Rel 9 GCF WI-151 EUTRA RRC Testcase 6.1.2.15a	10.1.0	10.2.0

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2012-12	RAN#58	R5s120837	1434	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.3.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120838	1435	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.3.1.6	10.1.0	10.2.0
2012-12	RAN#58	R5s120839	1436	-	Correction to Rel9 EUTRA Hybrid Cell Testcase 6.4.1	10.1.0	10.2.0
2012-12	RAN#58	R5s120841	1437	-	Correction to Rel 9 GCF WI-151 EUTRA RRC Testcase 6.1.1.3a	10.1.0	10.2.0
2012-12	RAN#58	R5s120842	1438	-	Correction to Testcase Release Applicability of Rel9 EUTRA Testcases.	10.1.0	10.2.0
2012-12	RAN#58	R5s120843	1439	-		10.1.0	10.2.0
2012-12	RAN#58	RP-121670	1440	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	10.1.0	10.2.0
2013-03	RAN#59	R5-130670	1441	-	cases in the TC lists in 36.523-3 (prose), Annex A 36523-3: Routine maintenance and updates	10.2.0	10.3.0
2013-03	RAN#59	R5-130693	1442	-	36523-3: Introduce CA test model and ASP	10.2.0	10.3.0
2013-03	RAN#59	R5s120830	1443	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.3.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120849	1444	-	Correction to f_UTRAN_CellInfo_SetMultiplePLMNIdentities	10.2.0	10.3.0
2013-03	RAN#59	R5s120852	1445	-	Corrections to Redirection Test Cases	10.2.0	10.3.0
2013-03	RAN#59	R5s120853	1446	-	Correction to EUTRA Idle Mode Test Case 6.2.3.13	10.2.0	10.3.0
2013-03	RAN#59	R5s120854	1447	-	LTE_TDD : Addition of Rel9 EUTRA Interband Testcase 8.3.1.12	10.2.0	10.3.0
2013-03	RAN#59	R5s120856	1448	-	LTE_TDD : Addition of Rel9 EUTRA Interband Testcase 8.3.1.14	10.2.0	10.3.0
2013-03	RAN#59	R5s120860	1449	-	Corrections to Rel9 EUTRA RRC Test case 8.3.1.16	10.2.0	10.3.0
2013-03	RAN#59	R5s120861	1450	-	Correction to GCF WI-87 EUTRA Multilayer Testcase 13.3.2.2	10.2.0	10.3.0
2013-03	RAN#59	R5s120862	1451	-	LTE_TDD : Addition of Rel9 EUTRA Interband Testcase 8.3.1.15	10.2.0	10.3.0
2013-03	RAN#59	R5s120864	1452	-	LTE_TDD : Addition of Rel9 EUTRA RRC Testcase 8.5.1.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120866	1453	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.3.3.5a	10.2.0	10.3.0
2013-03	RAN#59	R5s120867	1454	-	Corrections to EUTRA EMM Test cases	10.2.0	10.3.0
2013-03	RAN#59	R5s120868	1455	-	Correction to EUTRA WI-086 Multilayer Testcase 13.1.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120869	1456	-	Correction to EUTRA RRC Test Case 8.3.1.11a	10.2.0	10.3.0
2013-03	RAN#59	R5s120870	1457	-	Correction to EUTRA RRC Test Cases 8.2.4.15 and 8.2.4.15a	10.2.0	10.3.0
2013-03	RAN#59	R5s120871	1458	-	LTE_TDD: Correction to UTRA-TDD RRC RAB Template	10.2.0	10.3.0
2013-03	RAN#59	R5s120872	1459	-	LTE_TDD: Correction to GCF WI-086 EUTRA EMM Testcase 9.2.1.2.5,9.2.1.2.6 and 9.2.1.2.7	10.2.0	10.3.0
2013-03	RAN#59	R5s120873	1460	-	LTE_TDD: Correction to GCF WI-096 EUTRA EMM Testcase 9.2.1.2.15	10.2.0	10.3.0
2013-03	RAN#59	R5s120876	1461	-	Correction to EUTRA Idle Mode Test Case 6.1.1.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s120878	1462	-	Correction to EMM test case 9.2.3.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120879	1463	-	Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s120883	1464	-	Addition of GCF WI-150 Rel9 RSRQ Idle Mode Testcase 6.1.2.17	10.2.0	10.3.0
2013-03	RAN#59	R5s120885	1465	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.1.1.23	10.2.0	10.3.0
2013-03	RAN#59	R5s120886	1466	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.2.1.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120888	1467	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.1.1.24	10.2.0	10.3.0
2013-03	RAN#59	R5s120889	1468	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.1.2.15	10.2.0	10.3.0
2013-03	RAN#59	R5s120890	1469	-	Correction to declarations based on XSD types in LTE Test Suite.	10.2.0	10.3.0
2013-03	RAN#59	R5s120891	1470	-	Addition of GCF WI-159 Rel-9 LTE Pre-registration at 1xRTT test case 13.4.4.1	10.2.0	10.3.0

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2013-03	RAN#59	R5s120893	1471	-	Correction to EMM Test Cases 9.2.1.1.12, 9.2.3.1.12 and 9.2.3.1.18	10.2.0	10.3.0
2013-03	RAN#59	R5s120894	1472	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.3.1.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120895	1473	-	Correction to GCF WI-81 EUTRA Idle Mode Testcase 6.1.2.9a	10.2.0	10.3.0
2013-03	RAN#59	R5s120896	1474	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.3.1.27	10.2.0	10.3.0
2013-03	RAN#59	R5s120897	1475	-	Correction to GCF WI-86 EUTRA EMM Testcase 9.2.3.2.1c	10.2.0	10.3.0
2013-03	RAN#59	R5s120898	1476	-	Addition of GCF WI-159 Rel-9 LTE Pre-registration at 1xRTT test case 13.4.4.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120900	1477	-	Correction to GCF WI-86 EUTRA EMM Testcase 9.2.3.2.1a	10.2.0	10.3.0
2013-03	RAN#59	R5s120901	1478	-	Correction to GCF WI-82 EUTRA EMM Testcase 9.2.1.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120902	1479	-	Correction to EMM test case 9.2.2.1.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120903	1480	-	Correction to SNDCP Ports in LTE<>GERAN	10.2.0	10.3.0
2013-03	RAN#59	R5s120904	1481	-	Correction to EUTRA<> UTRA Testcases	10.2.0	10.3.0
2013-03	RAN#59	R5s120905	1482	-	Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.18	10.2.0	10.3.0
2013-03	RAN#59	R5s120908	1483	-	Correction to EUTRA RRC test cases 8.4.3.2 and 8.4.3.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120909	1484	-	Correction to EUTRA Idle Mode test case 6.2.3.31	10.2.0	10.3.0
2013-03	RAN#59	R5s120910	1485	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120911	1486	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.1.2.6	10.2.0	10.3.0
2013-03	RAN#59	R5s120912	1487	-	Correction to GCF WI-156 EUTRA Interband Testcase 8.2.4.14	10.2.0	10.3.0
2013-03	RAN#59	R5s120913	1488	-	Addition of GCF WI-088 LTE-1xRTT test case 8.3.2.10	10.2.0	10.3.0
2013-03	RAN#59	R5s120915	1489	-	Addition of GCF WI-088 LTE-HRPD test case 8.3.2.8	10.2.0	10.3.0
2013-03	RAN#59	R5s120917	1490	-	Correction to EUTRA EMM Test case 9.2.3.2.12	10.2.0	10.3.0
2013-03	RAN#59	R5s120918	1491	-	Correction to GCF WI-87 EUTRA EMM Testcase 9.2.3.3.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120919	1492	-	Correction to GCF WI-87 EUTRA Multilayer testcase 13.3.2.2	10.2.0	10.3.0
2013-03	RAN#59	R5s120920	1493	-	Correction to GCF WI-087 LTE<>GERAN Testcase 13.4.2.5	10.2.0	10.3.0
2013-03	RAN#59	R5s120921	1494	-	Correction to EUTRA RRC Test Case 8.2.4.15a	10.2.0	10.3.0
2013-03	RAN#59	R5s120922	1495	-	Correction to EMM test case 9.2.3.3.2	10.2.0	10.3.0
2013-03	RAN#59	R5s120923	1496	-	Correction to EMM test case 9.2.1.2.1c	10.2.0	10.3.0
2013-03	RAN#59	R5s120925	1497	-	Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 8.3.1.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s120933	1498	-	Correction to EMM Test Case 9.2.3.1.17	10.2.0	10.3.0
2013-03	RAN#59	R5s120935	1499	-		10.2.0	10.3.0
2013-03	RAN#59	R5s120937	1500	-	and 8.4.2.4 Correction to EUTRA RRC test case 8.1.3.7	10.2.0	10.3.0
2013-03	RAN#59	R5s120938	1501	-	Correction to EUTRA Idle Mode test case 6.2.3.3	10.2.0	10.3.0
2013-03	RAN#59	R5s120939	1502	-	Addition of GCF WI-087 EUTRA Idle Mode test case 6.2.3.23	10.2.0	10.3.0
2013-03	RAN#59	R5s120941	1503	-	Correction to EUTRA RRC test cases 8.4.2.2 and 8.4.2.4	10.2.0	10.3.0
2013-03	RAN#59	R5s120942	1504	-	Correction to GCF WI-086 EUTRA EMM testcase 9.2.3.2.13	10.2.0	10.3.0
2013-03	RAN#59	R5s120943	1505	-	Correction to function f_EUTRA_TrackingAreaUpdateFromAnotherRAT_WithoutRRCConneReq	10.2.0	10.3.0
2013-03	RAN#59	R5s120944	1506	-	Correction to f_EUTRA_TrackingAreaUpdateFromAnotherRAT_WithoutRRCConneReq	10.2.0	10.3.0

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2013-03	RAN#59	R5s120951	1507	-	LTE_TDD: Correction to RAU procedure of UTRA	10.2.0	10.3.0
2013-03	RAN#59	R5s120952	1508	-	LTE_TDD : Correction to GCF WI-096 EUTRA Idle Mode Test	10.2.0	10.3.0
2013-03	RAN#59	R5s120953	1509	-	Case 6.2.3.4  LTE_TDD: Correction to RLC CONFIG in CS12.2K Scenario of	10.2.0	10.3.0
2013-03	RAN#59	R5s120954	1510	-	UTRA LTE_TDD: Corrections to DL Common Information in RB SETUP	10.2.0	10.3.0
2013-03	RAN#59	R5s120955	1511	-	message of UTRA LTE_TDD: Corrections to Physical Channel Parameters used in	10.2.0	10.3.0
2013-03	RAN#59	R5s120956	1512	-	PS64K Scenario of UTRA  LTE_TDD: Corrections to Physical Channel Parameters used in	10.2.0	10.3.0
2013-03	RAN#59	R5s120958	1513	-	CS12.2K Scenario of UTRA LTE_TDD: Addition of EUTRA Multi-layer Test case 13.1.9		10.3.0
2013-03	RAN#59	R5s120960		_	LTE_TDD: Addition of EUTRA Multi-layer Test case 13.1.10		10.3.0
2013-03	RAN#59	R5s120963		_	Correction to EUTRA EMM Testcases 9.2.1.2.11 and 9.2.1.2.12	10.2.0	
2013-03	RAN#59	R5s120964		_	Addition of EUTRA Idle mode Test case 6.2.3.5a		10.3.0
2013-03	RAN#59	R5s120967			Corrections to EUTRA-GERAN test cases 6.2.3.1 and 9.2.3.4.1		10.3.0
2013-03	RAN#59	R5s120968		-	Correction to EMM test case 9.2.3.2.3 in Voice-Centric Mode in EUTRA-UTRAN path		10.3.0
2013-03	RAN#59	R5s130000		-	Correction to EMM test case 9.2.2.1.10	10.2.0	
2013-03	RAN#59	R5s130002		-	LTE_TDD: Addition of EUTRA Idle Mode Test Case 6.2.3.4	10.2.0	10.3.0
2013-03	RAN#59	R5s130004	1521	-	LTE_TDD: Addition of EMM Test Case 9.2.3.2.1a	10.2.0	10.3.0
2013-03	RAN#59	R5s130006	1522	-	LTE_TDD: Addition of EMM Test Case 9.2.3.3.6	10.2.0	10.3.0
2013-03	RAN#59	R5s130008	1523	-	Correction to SIB5 definition for UTRAN-TDD (1.28 Mcps)	10.2.0	10.3.0
2013-03	RAN#59	R5s130009	1524	-	Correction to template cds_RadioBearerSetup_r9_IEs_64k_PS_TDD	10.2.0	10.3.0
2013-03	RAN#59	R5s130010	1525	-	Correction to EUTRA RRC Test Case 8.4.2.2	10.2.0	10.3.0
2013-03	RAN#59	R5s130013	1526	-	LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.1b	10.2.0	10.3.0
2013-03	RAN#59	R5s130017	1527	-	LTE_TDD: Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case 6.1.2.18	10.2.0	10.3.0
2013-03	RAN#59	R5s130019	1528	-	Correction to EUTRA RRC Test Case 8.4.3.3	10.2.0	10.3.0
2013-03	RAN#59	R5s130020	1529	-	Addition of Rel9 RSRQ Idle Mode Testcase 6.2.3.4a	10.2.0	10.3.0
2013-03	RAN#59	R5s130022	1530	-	LTE_TDD: Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case	10.2.0	10.3.0
2013-03	RAN#59	R5s130024	1531	-	6.1.2.17 LTE_TDD : Addition of Rel9 EUTRA RSRQ Testcase 8.3.1.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s130026	1532	-	LTE_TDD: Addition of GCF WI-150 Rel-9 EUTRA RSRQ test case	10.2.0	10.3.0
2013-03	RAN#59	R5s130034	1533	-	6.1.2.3a Correction to EMM Test Case 9.2.3.2.9	10.2.0	10.3.0
2013-03	RAN#59	R5s130037	1534	-	Correction to EUTRA RRC test case 8.2.4.14a	10.2.0	10.3.0
2013-03	RAN#59	R5s130038	1535	-	Correction to f_RoutingTable_ChangeEutraCell function	10.2.0	10.3.0
2013-03	RAN#59	R5s130040	1536	-	Correction to EUTRA EMM Testcases 9.2.1.1.15, 9.2.1.1.15a,	10.2.0	10.3.0
2013-03	RAN#59	R5s130043	1537	-	9.2.1.1.16, 9.2.1.1.16a in lpv6 LTE_TDD: Addition of GCF WI-097 EMM test case 9.2.3.2.3	10.2.0	10.3.0
2013-03	RAN#59	R5s130045	1538	-	Correction to EUTRA ICMP Echo Reply function	10.2.0	10.3.0
2013-03	RAN#59	R5s130046	1539	-	Correction to EMM test case 9.2.1.1.24	10.2.0	10.3.0
2013-03	RAN#59	R5s130050	1540	-	Correction to EUTRA-GERAN test cases 6.2.3.1 and 9.2.3.4.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130051	1541	-	Correction to EUTRA RRC test case 8.3.2.9	10.2.0	10.3.0
2013-03	RAN#59	R5s130052		-	Correction to Test case 8.1.3.7		10.3.0
2013-03	RAN#59	R5s130055		-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case		10.3.0
					8.3.1.15a		

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2013-03	RAN#59	R5s130057	1544	-	Addition of GCF WI-088 LTE-1xRTT Inter-RAT test case 8.4.7.4	10.2.0	10.3.0
2013-03	RAN#59	R5s130060	1545	-	Correction to EUTRA-GERAN test case 6.2.3.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130061	1546	-	Addition of Rel9 RSRQ Idle Mode Testcase 6.2.3.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s130064	1547	-	Correction to f_EUTRA_Capability function	10.2.0	10.3.0
2013-03	RAN#59	R5s130067	1548	-	Correction to EMM test case 9.1.5.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130068	1549	-	Correction to LTE FDD-TDD Intermode test case 8.2.4.14a	10.2.0	10.3.0
2013-03	RAN#59	R5s130069	1550	-	Correction to EUTRA Idle Mode test case 6.1.1.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130076	1551	-	Correction to EUTRA Idle Mode Test Case 6.1.2.13	10.2.0	10.3.0
2013-03	RAN#59	R5s130077	1552	-	Correction to ESM Test Case 10.4.1	10.2.0	10.3.0
2013-03	RAN#59	R5s130083	1553	-	Correction to Test case 9.2.1.2.1c	10.2.0	10.3.0
2013-03	RAN#59	R5s130084	1554	-	Addition of Rel9 EUTRA<>UTRA RSRQ RRC Testcase 8.3.2.3a	10.2.0	10.3.0
2013-03	RAN#59	R5s130088	1555	-	Correction to EUTRA RRC Test Case 8.5.4.1	10.2.0	10.3.0
2013-03	RAN#59	RP-130151	1556	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	10.2.0	10.3.0
2013-06	RAN#60	R5-131868	1561	-		10.3.0	10.4.0
2013-06	RAN#60	RP-130618	1678	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	10.3.0	10.4.0
2013-06	RAN#60	R5s130050	1563	-	Correction to EUTRA-GERAN test cases 6.2.3.1 and 9.2.3.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130065	1564	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.3.0	10.4.0
2013-06	RAN#60	R5s130078	1565	-	8.3.1.16a Addition of Rel 9 EUTRA PWS Test cases 18.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130081	1566	-	Addition of Rel-9 EUTRA PWS test case 18.1.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130086	1567	-	LTE_TDD: Addition of GCF WI-099 Multi-RAT test case 6.2.1.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130089	1568	-	Correction to EUTRA Multi-Layer Test Cases 13.1.x	10.3.0	10.4.0
2013-06	RAN#60	R5s130090	1569	-	Addition of GCF WI-159 LTE-1xRTT CSFB Handover test case 8.4.7.9	10.3.0	10.4.0
2013-06	RAN#60	R5s130092	1570	-	Correction to EMM Test Case 9.2.1.1.20	10.3.0	10.4.0
2013-06	RAN#60	R5s130094	1571	-	LTE_TDD: Addition of EMM Test Case 9.2.3.1.6	10.3.0	10.4.0
2013-06	RAN#60	R5s130097	1572	-	Addition of GCF WI-088 LTE-1xRTT CSFB Emergency Call test case 13.1.17	10.3.0	10.4.0
2013-06	RAN#60	R5s130100	1573	-	Correction to E-UTRA EMM testcases 9.2.1.1.7a, 9.2.3.1.16,	10.3.0	10.4.0
2013-06	RAN#60	R5s130103	1574	-	9.2.3.1.18 , 9.2.3.1.18a, 9.2.3.2.10 and 9.2.3.2.2 Addition of Rel 9 EUTRA PWS(CMAS) Test cases 18.1.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130105	1575	-	Addition of GCF WI-088 LTE-1xRTT CSFB test case 8.4.7.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130107	1576	-	Correction to handling of security capabilities in EUTRA Testcases	10.3.0	10.4.0
2013-06	RAN#60	R5s130110	1577	-	LTE_TDD: Addition of GCF WI-099 Multi-RAT test case 8.3.2.6	10.3.0	10.4.0
2013-06	RAN#60	R5s130112	1578	-	Correction to EUTRA Idle Mode Test Case 6.1.1.3a	10.3.0	10.4.0
2013-06	RAN#60	R5s130113	1579	-	Correction to 36.523 IMS preamble part with IPsec enabled	10.3.0	10.4.0
2013-06	RAN#60	R5s130116	1580	-	Correction to Security Procedure for EUTRA TDD<>TDSDMA	10.3.0	10.4.0
2013-06	RAN#60	R5s130117	1581	-	Testcases  Correction to EUTRA EMM Test Case 9.2.1.2.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130122	1582	-	Corrections to ESM test cases 10.3.1 and 10.9.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130127	1583	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.3.0	10.4.0
2013-06	RAN#60	R5s130129	1584	-	6.1.1.4a  Correction to EUTRA RRC Test Case 8.3.2.2	10.3.0	10.4.0

2013-06   RAN#60   R5s130131   1585   Correction to EMM Test Case 9.2.3.1.19		New
2013-06   RAN#60   R5s130135   1587   Clarification for modifies of 'record of' record in TTCN3 core language   Correction to GCF WI-086 EUTRA Multilayer Testcase 13.1.5	10.3.0	10.4.0
language   2013-06   RAN#60   R5s130137   1588   - Correction to GCF WI-086 EUTRA Multilayer Testcase 13.1.5	10.3.0	10.4.0
2013-06	10.3.0	10.4.0
2013-06	10.3.0	10.4.0
2013-06	10.3.0	10.4.0
2013-06	10.3.0	10.4.0
2013-06	10.3.0	10.4.0
2013-06	10.3.0	10.4.0
2013-06	10.3.0	10.4.0
2013-06   RAN#60   R5s130163   1596   -   LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase 13.4.2.4   2013-06   RAN#60   R5s130165   1597   -   Correction to Support of UTRAN band 19   2013-06   RAN#60   R5s130166   1598   -   Correction to EMM Test Case 9.2.3.3.2   2013-06   RAN#60   R5s130169   1599   -   Addition of Rel 9 EUTRA Multiple MO-SMS over SGs/Idle mode Test case 11.1.5   Addition of Rel 9 Multiple MO-SMS over SGs / Active mode Test cases 11.1.6.   Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.2   2013-06   RAN#60   R5s130173   1601   -   Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.2.1a   2013-06   RAN#60   R5s130175   1603   -   Correction to EMM Test Case 9.2.3.2.3   2013-06   RAN#60   R5s130179   1604   -   Correction to EUTRA EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   R5s130180   1605   -   Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   R5s130180   1605   -   Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   R5s130180   1605   -   Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   R5s130180   1605   -   Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   R5s130180   1605   -   Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   R5s130180   1605   -     Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   R5s130180   1605   -     Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   RAN#60   R5s130180   1605   -     Correction to EMM Test Case 9.2.3.3.5a   2013-06   RAN#60   RAN#60   R5s130180   1605   -	10.3.0	10.4.0
13.4.2.4	10.3.0	10.4.0
2013-06         RAN#60         R5s130165         1597         -         Correction to Support of UTRAN band 19           2013-06         RAN#60         R5s130166         1598         -         Correction to EMM Test Case 9.2.3.3.2           2013-06         RAN#60         R5s130169         1599         -         Addition of Rel 9 EUTRA Multiple MO-SMS over SGs / Active mode Test case 11.1.5           2013-06         RAN#60         R5s130171         1600         -         Addition of Rel 9 Multiple MO-SMS over SGs / Active mode Test cases 11.1.6.           2013-06         RAN#60         R5s130173         1601         -         Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.2           2013-06         RAN#60         R5s130174         1602         -         Correction to EMM Test Case 9.2.3.2.3           2013-06         RAN#60         R5s130175         1603         -         Correction to EUTRA EMM Test Cases           2013-06         RAN#60         R5s130179         1604         -         Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
2013-06         RAN#60         R5s130169         1599         -         Addition of Rel 9 EUTRA Multiple MO-SMS over SGs/Idle mode Test case 11.1.5           2013-06         RAN#60         R5s130171         1600         -         Addition of Rel 9 Multiple MO-SMS over SGs / Active mode Test cases 11.1.6.           2013-06         RAN#60         R5s130173         1601         -         Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.2.2           2013-06         RAN#60         R5s130174         1602         -         Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.2.1a           2013-06         RAN#60         R5s130175         1603         -         Correction to EMM Test Case 9.2.3.2.3           2013-06         RAN#60         R5s130179         1604         -         Correction to EUTRA EMM Test Cases           2013-06         RAN#60         R5s130180         1605         -         Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
Test case 11.1.5  2013-06 RAN#60 R5s130171 1600 - Addition of Rel 9 Multiple MO-SMS over SGs / Active mode Test cases 11.1.6.  2013-06 RAN#60 R5s130173 1601 - Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.2  2013-06 RAN#60 R5s130174 1602 - Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.2.1a  2013-06 RAN#60 R5s130175 1603 - Correction to EMM Test Case 9.2.3.2.3  2013-06 RAN#60 R5s130179 1604 - Correction to EUTRA EMM Test Cases  2013-06 RAN#60 R5s130180 1605 - Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
2013-06         RAN#60         R5s130171         1600         -         Addition of Rel 9 Multiple MO-SMS over SGs / Active mode Test cases 11.1.6.           2013-06         RAN#60         R5s130173         1601         -         Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.2           2013-06         RAN#60         R5s130174         1602         -         Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.2.1a           2013-06         RAN#60         R5s130175         1603         -         Correction to EMM Test Case 9.2.3.2.3           2013-06         RAN#60         R5s130179         1604         -         Correction to EUTRA EMM Test Cases           2013-06         RAN#60         R5s130180         1605         -         Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
2013-06         RAN#60         R5s130173         1601         -         Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.2           2013-06         RAN#60         R5s130174         1602         -         Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.2.1a           2013-06         RAN#60         R5s130175         1603         -         Correction to EMM Test Case 9.2.3.2.3           2013-06         RAN#60         R5s130179         1604         -         Correction to EUTRA EMM Test Cases           2013-06         RAN#60         R5s130180         1605         -         Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
2013-06       RAN#60       R5s130175       1603       -       Correction to EMM Test Case 9.2.3.2.3         2013-06       RAN#60       R5s130179       1604       -       Correction to EUTRA EMM Test Cases         2013-06       RAN#60       R5s130180       1605       -       Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
2013-06   RAN#60   R5s130179   1604   -	10.3.0	10.4.0
2013-06 RAN#60 R5s130180 1605 - Correction to EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
	10.3.0	10.4.0
2013-06 RAN#60 R5s130185 1606 - Correction to check of establishment cause in EUTRA-UTRA Idle	10.3.0	10.4.0
	10.3.0	10.4.0
Irat test cases		10.4.0
2013-06 RAN#60 R5s130190 1608 - Addition of EUTRA Idle Mode Test Case 6.2.3.23		10.4.0
2013-06 RAN#60 R5s130192 1609 - Correction for GCF WI-086 EUTRA EMM test cases 9.2.3.2.9		10.4.0
2013-06 RAN#60 R5s130195 1610 - Baseline upgrade of TTCN-3 ATSs to March-13 in Rel-11	10.3.0	10.4.0
2013-06 RAN#60 R5s130201 1611 - Addition of Rel-9 EMM test case 9.1.3.3	10.3.0	10.4.0
		10.4.0
8.3.1.16a	10.3.0	
2013-06 RAN#60 R5s130207 1613 - Correction to EUTRA Idle Mode Test Case 6.2.3.15	10.3.0	10.4.0
2013-06 RAN#60 R5s130208 1614 - Addition of EUTRA Idle Mode Test Case 6.2.3.1a	10.3.0	10.4.0
2013-06 RAN#60 R5s130210 1615 - LTE_TDD: Correction of RV value for Sl3, Sl4 and Sl5 in EUTRA TDD mode		10.4.0
2013-06 RAN#60 R5s130211 1616 - LTE_TDD: Addition of GCF WI-096 test case 6.2.1.3		10.4.0
2013-06 RAN#60 R5s130215 1617 - LTE_TDD: Addition of GCF WI-096 test cases 8.4.1.2	10.3.0	10.4.0
2013-06 RAN#60 R5s130217 1618 - LTE_TDD: Addition of GCF WI-096 test cases 8.4.1.4	10.3.0	10.4.0
2013-06 RAN#60 R5s130219 1619 - LTE_TDD: Addition of GCF WI-096 test cases 8.4.2.2	10.3.0	10.4.0
2013-06 RAN#60 R5s130221 1620 - LTE_TDD: Addition of GCF WI-096 test cases 8.4.2.4	10.3.0	10.4.0
2013-06 RAN#60 R5s130225 1621 - LTE_TDD: Addition of GCF WI-096 test case 9.2.3.3.1	10.3.0	10.4.0

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2013-06	RAN#60	R5s130227	1622	-	LTE_TDD: Addition of GCF WI-096 test case 9.2.3.3.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130229	1623	-	LTE_TDD: Addition of GCF WI-096 test case 9.2.3.3.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130237	1624	-	Correction to EUTRA RRC Test Case 8.5.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130238	1625	-	Correction to EUTRA Multi Layer Test Case 13.4.2.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130239	1626	-	Correction to EUTRA-GERAN Idle mode test case 6.2.3.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130240	1627	-	Correction to EUTRA EMM test case 9.2.2.1.8	10.3.0	10.4.0
2013-06	RAN#60	R5s130241	1628	-	Additional corrections to EUTRA-GERAN Idle Mode test case 6.2.3.23 on top of R5s130190	10.3.0	10.4.0
2013-06	RAN#60	R5s130243	1629	-	LTE_TDD: Addition of GCF WI-096 test case 9.2.1.2.1d	10.3.0	10.4.0
2013-06	RAN#60	R5s130245	1630	-	LTE_TDD: Addition of GCF WI-096 test case 13.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130250	1631	-	Correction of GCF WI-088 Inter-RAT Measurements test case 8.3.2.8	10.3.0	10.4.0
2013-06	RAN#60	R5s130251	1632	-	Correction of GCF WI-088 EUTRA-1XRTT test case 8.3.2.10	10.3.0	10.4.0
2013-06	RAN#60	R5s130252	1633	-	Renaming Condition Types in Selection Expressions	10.3.0	10.4.0
2013-06	RAN#60	R5s130253	1634	-	LTE_TDD: Addition of GCF WI-097 test case 13.3.2.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130255	1635	-	Correction to EUTRA EMM Test Case 9.2.3.2.9	10.3.0	10.4.0
2013-06	RAN#60	R5s130257	1636	-	Correction to template car_G_LLC_XID_IndAny	10.3.0	10.4.0
2013-06	RAN#60	R5s130258	1637	-	Correction to GCF WI-087 EUTRA-GERAN test case 8.4.3.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130259	1638	-	Correction to GCF WI 086 testcase 9.2.3.2.1b	10.3.0	10.4.0
2013-06	RAN#60	R5s130260	1639	-	Corrections to functions f_GERAN_EnterU10_MT and	10.3.0	10.4.0
2013-06	RAN#60	R5s130268	1640	-	f_GERAN_EnterU10_MO_WithoutRRConnEst Correction to EUTRA RRC Test Case 8.3.2.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130269	1641	-	Correction to EUTRA RRC Test Case 8.5.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130270	1642	-	Addition of GCF WI-151 LTE FDD-TDD Inter-mode test case	10.3.0	10.4.0
2013-06	RAN#60	R5s130273	1643	-	8.1.3.12a  Correction to EUTRA EMM Test Case 9.2.2.1.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130275	1644	-	Correction to function f_EUTRA_TrackingAreaUpdateFromAnotherRAT_WithoutRRCCon	10.3.0	10.4.0
2013-06	RAN#60	R5s130276	1645	-	neReq Correction to EUTRA Idle Mode Test Case 6.2.3.3a	10.3.0	10.4.0
2013-06	RAN#60	R5s130286	1646	-	LTE_TDD: Correction to f_UTRAN_CellInfo_Init_TDD function	10.3.0	10.4.0
2013-06	RAN#60	R5s130287	1647	-	Correction to EUTRA EMM Test Case 9.2.1.2.1c	10.3.0	10.4.0
2013-06	RAN#60	R5s130292	1648	-	LTE_TDD: Addition of Rel-9 EUTRA Multi-Layer test case 13.4.1.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130300	1649	-	LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase	10.3.0	10.4.0
2013-06	RAN#60	R5s130302	1650	-	8.3.2.4 Addition of GCF WI-088 EUTRA<>HRPD Inter-RAT test case 8.3.3.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130305	1651	-	Correction to GCF WI-081 EUTRA MAC test case 7.1.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130307	1652	-	Correction to PDU Type Definition PAGINGRESPONSE message	10.3.0	10.4.0
2013-06	RAN#60	R5s130308	1653	-	Correction to EUTRA RRC Test Case 8.4.1.5	10.3.0	10.4.0
2013-06	RAN#60	R5s130310	1654	-	Correction to UTRAN Capability information Procedure in EUTRA	10.3.0	10.4.0
2013-06	RAN#60	R5s130312	1655	-	Testcases  Correction to EUTRA Multi-layer Test Case 13.3.1.3	10.3.0	10.4.0
2013-06	RAN#60	R5s130313	1656	-	Correction to GCF WI-082 E-UTRA EMM test case 9.1.2.6	10.3.0	10.4.0
2013-06	RAN#60	R5s130314	1657	-	Correction to GCF WI-151 LTE FDD-TDD Inter-mode test case 8.1.3.12a	10.3.0	10.4.0

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2013-06	RAN#60	R5s130316	1658	-	LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase 13.3.2.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130318	1659	-	LTE_TDD: Addition of GCF WI-096 TD-LTE<>TDSDMA Testcase 9.2.1.2.1c	10.3.0	10.4.0
2013-06	RAN#60	R5s130320	1660	-	Correction to function f_DeriveSuppEutraBandsFromPics	10.3.0	10.4.0
2013-06	RAN#60	R5s130321	1661	-	Correction to EMM TC 9.2.1.1.24	10.3.0	10.4.0
2013-06	RAN#60	R5s130322	1662	-	LTE_TDD: Addition of Rel9 TD-LTE<>TDSDMA Testcase 6.2.3.33	10.3.0	10.4.0
2013-06	RAN#60	R5s130324	1663	-	Correction to GCF WI-086 E-UTRA EMM testcase 9.2.1.2.8	10.3.0	10.4.0
2013-06	RAN#60	R5s130325	1664	-	Correction to the EMM Test Case 9.2.3.3.5a	10.3.0	10.4.0
2013-06	RAN#60	R5s130326	1665	-	Correction to Eutra Idle Mode TC 6.2.3.1a	10.3.0	10.4.0
2013-06	RAN#60	R5s130327	1666	-	Correction to manual PLMN selection test cases 6.1.1.3, 6.1.1.3a, 6.1.1.3b, 6.2.1.4, 9.2.1.1.13 and 9.2.1.1.13a	10.3.0	10.4.0
2013-06	RAN#60	R5s130329	1667	-	Correction to IXIT px_MaxNumberROHC_ContextSessions in module EUTRA_Parameters in LTE TTCN suite.	10.3.0	10.4.0
2013-06	RAN#60	R5s130330	1668	-	Correction to EUTRA RRC test case 8.1.2.8	10.3.0	10.4.0
2013-06	RAN#60	R5s130331	1669	-	Correction for EUTRA RRC test case 8.1.3.7	10.3.0	10.4.0
2013-06	RAN#60	R5s130337	1670	-	Correction of RRC test case 8.5.4.1	10.3.0	10.4.0
2013-06	RAN#60	R5s130338	1671	-	LTE_TDD: Addition of GCF WI-096 EMM test case 9.2.3.3.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130340	1672	-	Correction to GCF WI-086 testcase 9.2.2.2.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130341	1673	-	Correction in LLC XID negotiation	10.3.0	10.4.0
2013-06	RAN#60	R5s130342	1674	-	LTE_TDD: Correction of GCF WI-096 test cases 8.4.2.2 and 8.4.2.4	10.3.0	10.4.0
2013-06	RAN#60	R5s130344	1675	-	Corrections to GCF WI-088 EUTRA<>HRPD and 1xRTT Test cases 8.3.2.8 and 8.3.2.10	10.3.0	10.4.0
2013-06	RAN#60	R5s130345	1676	-	LTE_TDD: Correction to GCF WI-096 EUTRA test case 13.1.2	10.3.0	10.4.0
2013-06	RAN#60	R5s130347	1677	-	Local guard timer for common preamble functions	10.3.0	10.4.0
2013-06	RAN#60	R5-131068	1557	-	Update of CDMA2000 specification references: Clause 2 of TS 36.523-3	10.4.0	11.0.0
2013-06	RAN#60	R5-131070	1558	-	Update of CDMA2000 specification references: PIXIT for TS 36.523-3	10.4.0	11.0.0
2013-06	RAN#60	R5-131125	1559	-	Clarification of CA test model	10.4.0	11.0.0
2013-06	RAN#60	R5-131129	1560	-	36523-3: Routine maintenance and updates	10.4.0	11.0.0
2013-06	RAN#60	R5-131870	1562	-	Update of CDMA2000 specification references: Annex D of TS 36.523-3	10.4.0	11.0.0
2013-09	RAN#61	R5-133612	1680	-	36523-3: Routine maintenance and updates	11.0.0	11.1.0
2013-09	RAN#61	R5s130352	1681	-	LTE_TDD: Addition of GCF WI-096 test case 13.1.4	11.0.0	11.1.0
2013-09	RAN#61	R5s130356	1682	-	LTE_TDD: Addition of GCF WI-096 test case 13.1.16	11.0.0	11.1.0
2013-09	RAN#61	R5s130376	1698	-	Improved guidance of the test operator during ETWS and CMAS test case execution	11.0.0	11.1.0
2013-09	RAN#61	R5s130378	1699	-	Correction to Generic IMS Registration procedure	11.0.0	11.1.0
2013-09	RAN#61	R5s130379	1700	-	Addition of GCF WI-167 EUTRA-UTRAN Idle Mode test case 6.2.3.33	11.0.0	11.1.0
2013-09	RAN#61	R5s130382	1701	-	Corrections to EPS Attach Procedure to enable IMS Registration via NAS signalling in 36.523 Suite	11.0.0	11.1.0
2013-09	RAN#61	R5s130384	1702	-	Correction to Idle mode test cases 6.2.3.4	11.0.0	11.1.0
2013-09	RAN#61	R5s130385	1703	-	Correction to Idle mode test cases 6.2.3.4a	11.0.0	11.1.0
2013-09	RAN#61	R5s130388	1704	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC inter-band test case 8.5.1.7.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130389	1705	-	Re-verification of EMM Test Case 9.2.3.3.4	11.0.0	11.1.0
2013-09	RAN#61	R5s130395	1706	-	Addition of LTE-A (Rel-10) Carrier Aggregation MAC test case 7.1.4.18	11.0.0	11.1.0

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2013-09	RAN#61	R5s130397	1707	-	Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case 8.3.1.18.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130400	1708	-	Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case 8.3.1.17.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130402	1709	-	Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case 8.3.1.22.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130404	1710	-	Addition of LTE-A (Rel-10) Carrier Aggregation RRC test case 8.2.2.3.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130406	1711	-	Addition of LTE-A Carrier Aggregation RRC inter-band test case 8.2.2.4.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130408	1712	-	Addition of LTE-A Carrier Aggregation RRC inter-band test case 8.2.2.5.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130413	1713	-	Re-verification of EMM Test Case 9.2.3.4.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130417	1714	-	Correction to template cr_SingleAccessCapAny in LTE ATS	11.0.0	11.1.0
2013-09	RAN#61	R5s130418	1683	-	LTE_TDD : Correction to EUTRA RRC TC 8.3.1.16	11.0.0	11.1.0
2013-09	RAN#61	R5s130419	1715	-	LTE/SAE ATS cleanup ( moving "modulepar" PICS to 'parameters.ttcn')	11.0.0	11.1.0
2013-09	RAN#61	R5s130420	1716	-	Correction to Eutra RRC TC 8.5.1.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130422	1717	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC handover test case 8.2.4.18.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130426	1718	-	Correction to EUTRA multi layer Test Case 13.3.1.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130428	1719	-	Correction to EUTRA EMM TC 9.2.2.1.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130429	1720	-	Correction to EMM test case 9.2.2.2.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130431	1721	-	Correction to function f_EUTRA_ActivateAdditionalPDNOnDef()	11.0.0	11.1.0
2013-09	RAN#61	R5s130432	1722	-	Correction to RLC Explicit size for FACH configuration in UTRA	11.0.0	11.1.0
2013-09	RAN#61	R5s130433	1723	-	Correction to function f_UTRAN_Init	11.0.0	11.1.0
2013-09	RAN#61	R5s130434	1724	-	Correction to testcase 9.2.3.2.3 & 9.2.3.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130436	1725	-	Correction to EUTRA Multi-Layer Test Case 13.1.9	11.0.0	11.1.0
2013-09	RAN#61	R5s130438	1726	-	Correction to GCF WI-082 EUTRA EMM Testcase 9.1.4.2	11.0.0	11.1.0
2013-09	RAN#61	R5s130440	1727	-	Correction to GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.13a	11.0.0	11.1.0
2013-09	RAN#61	R5s130441	1728	-	Correction to GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.16a	11.0.0	11.1.0
2013-09	RAN#61	R5s130442	1729	-	Correction to EUTRA RRC Test Case 8.2.4.14	11.0.0	11.1.0
2013-09	RAN#61	R5s130443	1730	-	Correction to GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.15a	11.0.0	11.1.0
2013-09	RAN#61	R5s130444	1731	-	Correction to EMM Test Case 9.2.3.1.6	11.0.0	11.1.0
2013-09	RAN#61	R5s130447	1684	-	LTE_TDD: Addition to GCF WI-096 EUTRA EMM test case 9.2.3.2.1c	11.0.0	11.1.0
2013-09	RAN#61	R5s130451	1732	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130452	1733	-	Correction to the naming convention of ASN.1 type controlChannelDRXInfoTDD128 for TD LTE<>TDSDMA testcases	11.0.0	11.1.0
2013-09	RAN#61	R5s130453	1734	-	Correction to Generic IMS Registration procedure	11.0.0	11.1.0
2013-09	RAN#61	R5s130455	1735	-	Correction to functions in f_EUTRA_Preamble_EmptyCSG_AllowedList()	11.0.0	11.1.0
2013-09	RAN#61	R5s130456	1736	-	Correction to EMM Test Cases 9.2.3.2.1b and 9.2.1.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130471	1737	-	GCF Priority 1 - Corrections to EUTRA RRC Test Case 8.2.4.13a	11.0.0	11.1.0
2013-09	RAN#61	R5s130479	1738	-	Correction to EMM TC 9.2.3.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130481	1739	-	Correction to EUTRA Idle Mode TC 6.4.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130482	1740	-	Correction to EMM test cases 9.2.3.3.5 and 9.2.3.2.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130483	1685	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.5.1.7.1	11.0.0	11.1.0

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2013-09	RAN#61	R5s130485	1686	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation	11.0.0	11.1.0
2013-09	RAN#61	R5s130487	1687	-	RRC intra-band test case 8.2.2.4.1  LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.2.2.5.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130489	1741	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.5.1.7.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130493	1742	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.2.2.5.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130495	1743	-	Addition of GCF WI-154/ee1 EUTRA IMS Emergency Call test case 8.1.2.11	11.0.0	11.1.0
2013-09	RAN#61	R5s130498	1744	-	Corrections to PLMN values for UTRAN band VI	11.0.0	11.1.0
2013-09	RAN#61	R5s130501	1745	-	Correction to AddressInfo in PktDataProtoAddr	11.0.0	11.1.0
2013-09	RAN#61	R5s130502	1746	-	Correction to Test Case Selection Expressions for TC 6.2.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130503	1747	-	Correction to f_EUTRA_508RRC_AddModRel_Scell_Common function	11.0.0	11.1.0
2013-09	RAN#61	R5s130505	1748	-	TTCN Correction in Test case 8.5.4.1 for optional IE checking in UE Capability Information	11.0.0	11.1.0
2013-09	RAN#61	R5s130506	1749	-	Correction to GCF WI-086 EUTRA Multilayer Testcase 13.4.2.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130507	1750	-	Correction to Selection Expressions for SMS over SGs test cases.	11.0.0	11.1.0
2013-09	RAN#61	R5s130512	1751	-	Correction to IP Handing for EUTRA<>UTRA Testcases	11.0.0	11.1.0
2013-09	RAN#61	R5s130513	1752	-	Correction to the System Information for EUTRA Testcases	11.0.0	11.1.0
2013-09	RAN#61	R5s130520	1753	-	Correction to EUTRA Idle Mode TC 6.2.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130521	1688	-	LTE_TDD: Addition of GCF WI-096 test case 6.2.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130523	1689	-	LTE_TDD: Addition to GCF WI-096 EUTRA Multilayer test case 13.4.2.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130527	1754	-	Addition of LTE-A ZUC test case 7.3.3.5 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130529	1755	-	Addition of LTE-A ZUC test case 7.3.3.6 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130531	1756	-	Addition of LTE-A ZUC test case 7.3.4.3 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130533	1757	-	Addition of LTE-A ZUC test case 9.4.5 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130535	1758	-	Addition of LTE-A ZUC test case 9.4.6 for FDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130537	1759	-	Correction to f_UT_CheckETWS_CMAS_NoAlert	11.0.0	11.1.0
2013-09	RAN#61	R5s130538	1690	-	LTE_TDD: Addition of GCF WI-169 test case 8.1.3.6a	11.0.0	11.1.0
2013-09	RAN#61	R5s130540	1760	-	Correction to GCF WI-081 EUTRA MAC Testcase 7.1.5.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130545	1761	-	Correction to LTE-GERAN test case 13.4.2.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130546	1762	-	Correction to LTE-GERAN Idle Mode testcase 6.2.3.1	11.0.0	11.1.0
2013-09	RAN#61	R5s130547	1763	-	Correction to GCF WI-096 EUTRA EMM Testcase 9.2.3.2.1b	11.0.0	11.1.0
2013-09	RAN#61	R5s130548	1691	-	LTE_TDD : Addition of LTE-A ZUC test case 7.3.3.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130550	1692	-	LTE_TDD : Addition of LTE-A ZUC test case 7.3.3.6	11.0.0	11.1.0
2013-09	RAN#61	R5s130552	1693	-	LTE_TDD : Addition of LTE-A ZUC test case 7.3.4.3	11.0.0	11.1.0
2013-09	RAN#61	R5s130554	1694	-	LTE_TDD : Addition of LTE-A ZUC test case 9.4.6	11.0.0	11.1.0
2013-09	RAN#61	R5s130556	1695	-	LTE_TDD : Addition of LTE-A ZUC test case 9.4.5	11.0.0	11.1.0
2013-09	RAN#61	R5s130558	1764	-	Correction to Ciphering configuration for UTRA TDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130559	1765	-	Correction to DL RB0 configuration and BCCH configuration for UTRA TDD	11.0.0	11.1.0
2013-09	RAN#61	R5s130577	1696	-	LTE_TDD: Addition of GCF WI-169 test case 6.2.3.4a	11.0.0	11.1.0
2013-09	RAN#61	R5s130587	1766	-	Addition of HeNB test case 6.3.9	11.0.0	11.1.0

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2013-09	RAN#61	R5s130589	1767	-	Correction to EMM Testcase 9.2.1.2.11	11.0.0	11.1.0
2013-09	RAN#61	RP-131108	1697	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	11.0.0	11.1.0
2013-12	RAN#62	R5-135000	1768	-	cases in the TC lists in 36.523-3 (prose), Annex A 36523-3: Routine maintenance and updates	11.1.0	11.2.0
2013-12	RAN#62	R5s130491	1769	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC intra-band test case 8.2.2.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130525	1770	-	Addition of LTE-A Minimization of Drive Tests (MDT)test case 8.6.2.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130561	1771	-	Addition of GCF WI-086 Multi-Layer SRVCC test case 13.4.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130563	1772	-	Addition of MDT test case 8.6.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130566	1773	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case 8.6.2.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130568	1774	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case 8.6.2.7	11.1.0	11.2.0
2013-12	RAN#62	R5s130577	1775	-	LTE_TDD: Addition of GCF WI-169 test case 6.2.3.4a	11.1.0	11.2.0
2013-12	RAN#62	R5s130582	1776	-	Addition of LTE MDT test case 8.6.2.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130584	1777	-	Addition of LTE MDT test case 8.6.2.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130589	1778	-	Correction to EMM Testcase 9.2.1.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130591	1779	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case 8.6.2.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130593	1780	-	Addition of LTE MDT test case 8.6.4.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130600	1781	-	Addition of GCF WI-159 EUTRA-1xRTT eCSFB test case 8.4.7.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130602	1782	-	Addition of GCF WI-159 EUTRA-1xRTT eCSFB test case 8.4.7.7	11.1.0	11.2.0
2013-12	RAN#62	R5s130604	1783	-	LTE_TDD : Correction to RRC Testcase 8.4.1.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130605	1784	-	LTE_TDD : Correction in f_SS_DL_DPCH_ModifySRB_to_HS_DSCH function	11.1.0	11.2.0
2013-12	RAN#62	R5s130606	1785	-	LTE_TDD: Addition to GCF WI-096 EUTRA Multilayer test case 13.1.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130608	1786	-	Correction to LTE-A Carrier Aggregation test cases 8.2.2.3.x	11.1.0	11.2.0
2013-12	RAN#62	R5s130610	1787	-	Correction to EMM Test Case 9.3.1.4 and 9.3.1.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130615	1788	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case 8.6.4.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130617	1789	-	Correction to EUTRA Idle Mode Test Case 6.2.3.1a	11.1.0	11.2.0
2013-12	RAN#62	R5s130622	1790	-	TTCN Correction in EMM test case 9.2.3.1.17	11.1.0	11.2.0
2013-12	RAN#62	R5s130623	1791	-	LTE_TDD: Addition of GCF WI-156 EUTRA RRC measurement test case 8.3.1.16	11.1.0	11.2.0
2013-12	RAN#62	R5s130629	1792	-	Correction in Test case applicability for CA test cases	11.1.0	11.2.0
2013-12	RAN#62	R5s130631	1793	-	Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.4.21	11.1.0	11.2.0
2013-12	RAN#62	R5s130633	1794	-	Correction of test case 7.1.5.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130634	1795	-	Correction of test case 9.2.3.2.10 and 9.3.1.7a	11.1.0	11.2.0
2013-12	RAN#62	R5s130636	1796	-	Addition of Multilayer test case 13.1.2a	11.1.0	11.2.0
2013-12	RAN#62	R5s130639	1797	-	Addition of LTE-A Minimization of Drive Tests (MDT) test case	11.1.0	11.2.0
2013-12	RAN#62	R5s130641	1798	-	8.6.4.3  Correction to idle mode test case 6.2.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130642	1799	-	Correction to RLC test case 7.2.2.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130643	1800	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.23	11.1.0	11.2.0
2013-12	RAN#62	R5s130645	1801	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.25	11.1.0	11.2.0
2013-12	RAN#62	R5s130647	1802	-	Correction to Ciphering configuration for EUTRA<>UTRA Testcases	11.1.0	11.2.0

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2013-12	RAN#62	R5s130648	1803	-	Correction to GCF WI-082 EUTRA ESM Testcase 10.6.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130649	1804	-	Correction to GCF WI-151 EUTRA FDD<>TDD Testcase 8.2.4.13a	11.1.0	11.2.0
2013-12	RAN#62	R5s130650	1805	-	Correction to GCF WI-151 EUTRA FDD<>TDD Testcase 8.3.1.15a	11.1.0	11.2.0
2013-12	RAN#62	R5s130651	1806	-	Correction to GCF WI-154 IMS Emergency Call over EPS / EUTRA Testcase 8.1.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130652	1807	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.23	11.1.0	11.2.0
2013-12	RAN#62	R5s130654	1808	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.24	11.1.0	11.2.0
2013-12	RAN#62	R5s130656	1809	-	LTE_TDD: Addition of EMM test case 9.2.3.3.5a	11.1.0	11.2.0
2013-12	RAN#62	R5s130658	1810	-	LTE_TDD : Addition of Multi-layer test case 13.1.2a	11.1.0	11.2.0
2013-12	RAN#62	R5s130660	1811	-	Correction required to IMS Registration procedure	11.1.0	11.2.0
2013-12	RAN#62	R5s130661	1812	-	LTE_TDD: Correction to GCF WI-096 TD_LTE<>TDSDMA Testcase 8.4.1.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130662	1813	-	LTE_TDD: Correction to GCF WI-096 TD_LTE<>TDSDMA Testcase 13.1.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130663	1814	-		11.1.0	11.2.0
2013-12	RAN#62	R5s130665	1815	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130667	1816	-	LTE_TDD: Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.27	11.1.0	11.2.0
2013-12	RAN#62	R5s130669	1817	-		11.1.0	11.2.0
2013-12	RAN#62	R5s130671	1818	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130676	1819	-	LTE_TDD : Addition of EMM test case 9.2.2.1.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130678	1820	-	Correction in function f_UTRAN_CS_Fallback_WithHandover()	11.1.0	11.2.0
2013-12	RAN#62	R5s130680	1821	=	Correction in function f_EUTRA_SendAuthParameters() and related functions	11.1.0	11.2.0
2013-12	RAN#62	R5s130682	1822	=	Correction for applicability for SMS test cases 11.1.5 and 11.1.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130683		-	Correction for EUTRA Idle Mode test case 6.1.2.17	11.1.0	11.2.0
2013-12	RAN#62	R5s130688	1824	_	LTE_TDD: Addition of LTE-A Carrier Aggregation MAC test case 7.1.4.18	11.1.0	
2013-12	RAN#62	R5s130690	1825	-	Correction to LTE-A Carrier Aggregation RRC test cases 8.3.1.18.x	11.1.0	11.2.0
2013-12	RAN#62	R5s130693	1826	-	Correction for EMM Test Case 9.2.3.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130695	1827	-	Correction to RRC TC 8.3.1.13	11.1.0	11.2.0
2013-12	RAN#62	R5s130696	1828	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.4.21	11.1.0	11.2.0
2013-12	RAN#62	R5s130699	1829	-	Correction of GCF WI-086 E-UTRA EMM Test case 9.2.3.3.4		11.2.0
2013-12	RAN#62	R5s130700	1830	-	Correction to MDT test case 8.6.2.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130703	1831	-	Correction for RRC test case 8.5.1.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130704		-	LTE_TDD : Correction in cs_TrChInfoTrCHListDL_336_148_TDD template	11.1.0	11.2.0
2013-12	RAN#62	R5s130705		_	Correction to function cs_TrLogMappingPCH_FACH_PS_TDD		11.2.0
2013-12	RAN#62	R5s130707		_	Correction to test case 9.2.1.2.1b and 9.2.1.2.1c		11.2.0
2013-12	RAN#62	R5s130708		-	Correction to MDT test case 8.6.2.6 .	11.1.0	
2013-12		R5s130709		-	Correction to test case 9.2.3.2.3		11.2.0
2013-12	RAN#62	R5s130711		-	LTE_TDD: Addition of EUTRA Multi-layer test case 13.1.5		11.2.0
2013-12	RAN#62	R5s130713		-	Correction to test case LTE-UTRA test case 6.2.3.33	11.1.0	
2013-12	RAN#62	R5s130717	1839	-	Correction to GCF WI-151 EUTRA FDD-TDD test case 8.3.1.13a	11.1.0	11.2.0

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2013-12	RAN#62	R5s130718	1840	-	Correction to GCF WI-151 EUTRA FDD-TDD test case 8.3.1.16a	11.1.0	11.2.0
2013-12	RAN#62	R5s130720	1841	-	Correction of (Rel-9) EUTRA RRC Measurement test case 8.3.1.25	11.1.0	11.2.0
2013-12	RAN#62	R5s130721	1842	-	Correction to EUTRA EMM test case 9.2.3.2.1b	11.1.0	11.2.0
2013-12	RAN#62	R5s130722	1843	-	Correction to EUTRA EMM test case 9.2.3.2.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130723	1844	-	LTE_TDD: Addition of GCF WI-169 test case 8.3.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130725	1845	-	LTE_TDD: Addition of GCF WI-169 test case 8.3.2.3a	11.1.0	11.2.0
2013-12	RAN#62	R5s130727	1846	-	Correction of (Rel-9) EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130730	1847	-	Correction to PLMN MCC conversion functions	11.1.0	11.2.0
2013-12	RAN#62	R5s130731	1848	-	Addition of LTE-A Carrier Aggregation RRC test case 8.2.4.21.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130733	1849	-	Addition of (Rel-9) EUTRA RRC Measurement test case 8.3.1.27	11.1.0	11.2.0
2013-12	RAN#62	R5s130735	1850	-	Corrections to EUTRA Idle Mode Test case 6.2.1.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130736	1851	-	Correction to EUTRA RRC Test case 8.1.1.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130741	1852	-	Correction of Rel-9 EUTRA RRC Measurement test case 8.3.1.26	11.1.0	11.2.0
2013-12	RAN#62	R5s130744	1853	-	LTE_TDD : Addition of RRC test case 8.3.2.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130745	1854	-	Correction to MDT test case 8.6.2.6	11.1.0	11.2.0
2013-12	RAN#62	R5s130748	1855	-	Addition of GCF WI-154/ee1 IMS Emergency Call over EPS test case 11.2.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130752	1856	-	LTE_TDD : Addition of LTE-A CA RRC test case 8.2.2.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130762	1857	-	Correction to GCF WI-086 EUTRA EMM Test case 9.2.3.3.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130763	1858	-	Correction to GCF WI-088 EUTRA<>HRPD Inter-RAT test case 8.3.3.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130772	1859	-	Correction to test case 9.2.3.2.1a	11.1.0	11.2.0
2013-12	RAN#62	R5s130773	1860	-	correction to f_UTRAN_CS_Fallback_WithRedirection_WithoutRRCConnEst	11.1.0	11.2.0
2013-12	RAN#62	R5s130774	1861	-	Correction to test case 9.2.1.2.8 and 9.2.3.2.8	11.1.0	11.2.0
2013-12	RAN#62	R5s130775	1862	-	Correction to test case 13.4.2.4	11.1.0	11.2.0
2013-12	RAN#62	R5s130777	1863	-	Correction to LTE-GERAN test cases on SNDCP and IP config	11.1.0	11.2.0
2013-12	RAN#62	R5s130778	1864	-	Correction to GCF WI-086 EUTRA Testcases 6.2.3.31 and 9.2.3.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130782	1865	-	Addition of LTE-A Carrier Aggregation RRC Handover test cases 8.2.4.17.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130784	1866	-	Addition of LTE-A Carrier Aggregation RRC Handover test cases 8.2.4.20.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130786	1867	-	LTE_TDD: Addition of GCF WI-091 EUTRA Idle Mode CSG test case 6.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130788	1868	-	Addition of LTE-A Carrier Aggregation RRC Handover test cases 8.2.4.19.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130797	1869	-	Correction to common function  ôf_UTRAN_CS_Fallback_WithHandoverö	11.1.0	11.2.0
2013-12	RAN#62	R5s130807	1870	-	Correction to SRVCC test case 13.4.3.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130812	1871	-	Re-verification of HeNB test case 6.3.9	11.1.0	11.2.0
2013-12	RAN#62	R5s130814	1872	-	Correction to EMM test cases 9.2.1.2.1d and 9.2.3.2.1c	11.1.0	11.2.0
2013-12	RAN#62	R5s130817	1873	-	Correction to ESM test case 10.8.7	11.1.0	11.2.0
2013-12	RAN#62	R5s130819	1874	-	LTE_TDD: Addition of EUTRA Idle Mode CSG test case 6.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130825	1875	-	Addition of Rel-9 EUTRA RRC test case 8.3.2.11	11.1.0	11.2.0
2013-12	RAN#62	R5s130828	1876	-	Correction to RRC test case 8.5.4.1	11.1.0	11.2.0

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2013-12	RAN#62	R5s130829	1877	-	Addition of Rel-9 EUTRA Idle Mode MFBI test case 6.1.2.19	11.1.0	11.2.0
2013-12	RAN#62	R5s130831	1878	-	Addition of Rel-9 EUTRA Idle Mode MFBI test case 6.1.2.20	11.1.0	11.2.0
2013-12	RAN#62	R5s130833	1879	-	LTE_TDD : Addition of Multi-layer test case 13.1.15	11.1.0	11.2.0
2013-12	RAN#62	R5s130837	1880	-	Addition of GCF WI-156 EUTRA Idle Mode MFBI test case 6.1.2.21	11.1.0	11.2.0
2013-12	RAN#62	R5s130839	1881	-	LTE_TDD : Addition of HeNB test case 6.3.9	11.1.0	11.2.0
2013-12	RAN#62	R5s130841	1882	-	Addition of Rel-9 EUTRA RRC MFBI test case 8.2.4.22	11.1.0	11.2.0
2013-12	RAN#62	R5s130845	1883	-	Correction to LTE-A CA test case 8.2.4.17.2	11.1.0	11.2.0
2013-12	RAN#62	R5s130851	1884	-	Correction to common function f_UTRAN_InterRAT_InitialiseAuthParams_Common()	11.1.0	11.2.0
2013-12	RAN#62	R5s130852	1885	-		11.1.0	11.2.0
2013-12	RAN#62	R5s130856	1886	-	Correction to MultiLayer test case 13.1.2a	11.1.0	11.2.0
2013-12	RAN#62	R5s130857	1887	-	Correction to EMM test case 9.2.3.2.3	11.1.0	11.2.0
2013-12	RAN#62	R5s130858	1888	-	Addition of EUTRA<>UTRA Hybrid CSG Cell test case 6.4.5	11.1.0	11.2.0
2013-12	RAN#62	R5s130860	1889	-	Corrections to EUTRA FDD-TDD test case 8.3.1.16a	11.1.0	11.2.0
2013-12	RAN#62	R5s130863	1890	-	Correction to EUTRA RRC Test case 8.5.4.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130864	1891	-	LTE_TDD : Addition of LTE-A CA RRC test case 8.3.1.22.1	11.1.0	11.2.0
2013-12	RAN#62	R5s130866	1892	-	Addition of LTE-A CA RRC test case 8.3.1.22.1	11.1.0	11.2.0
2013-12	RAN#62	RP-131869	1893	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	11.1.0	11.2.0
2014-03	RAN#63	R5-140787	1894	-	cases in the TC lists in 36.523-3 (prose), Annex A  Addition to test execution guidelines for EUTRA CA inter-band test cases for band combination with 29A	11.2.0	11.3.0
2014-03	RAN#63	R5-140788	1895	-	CA Enhancements: Test Model	11.2.0	11.3.0
2014-03	RAN#63	R5-141113	1896	-	Routine maintenance and updates	11.2.0	11.3.0
2014-03	RAN#63	R5s130876	1897	-	LTE_TDD : Addition of LTE-A CA RRC test case 8.3.1.18.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130879	1898	-	Correction of GCF WI-087 Multilayer Testcases TC 13.1.8, 13.1.9	11.2.0	11.3.0
2014-03	RAN#63	R5s130880	1899	-	Correction to GCF WI-082 EUTRA ESM Testcase 10.6.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130883	1900	-	Correction to LTE-GERAN test cases on SNDCP and IP config	11.2.0	11.3.0
2014-03	RAN#63	R5s130886	1901	-	LTE_TDD : Addition of GCF WI-082 EMM test case 9.2.3.1.15a	11.2.0	11.3.0
2014-03	RAN#63	R5s130888	1902	-	LTE_TDD : Addition of GCF WI-082 EMM test case 9.2.3.1.18a	11.2.0	11.3.0
2014-03	RAN#63	R5s130890	1903	-	Addition of RRC MDT test case 8.6.6.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130895	1904	-	LTE_TDD: Addition of Rel-9 EUTRA RRC Measurement test case 8.3.1.13	11.2.0	11.3.0
2014-03	RAN#63	R5s130898	1905	-	Correction to Test Frequencies for CA Band Combinations CA_1A_18A and CA_11A_18A .	11.2.0	11.3.0
2014-03	RAN#63	R5s130899	1906	-		11.2.0	11.3.0
2014-03	RAN#63	R5s130902	1907	-	Correction of the setting of Location services indicators in all POS	11.2.0	11.3.0
2014-03	RAN#63	R5s130903	1908	-	Correction to GCF WI-081 EUTRA RRC Test Case 8.2.1.5	11.2.0	11.3.0
2014-03	RAN#63	R5s130904	1909	-	Correction to GCF WI-081 Multilayer SRVCC Test Case 13.4.3.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130915	1910	-	Correction to Idle Mode Testcase 6.2.3.15	11.2.0	11.3.0
2014-03	RAN#63	R5s130917	1911	-	13wk43 regression CRs related to IMS Emergency Call test cases	11.2.0	11.3.0
2014-03	RAN#63	R5s130918	1912	-	Addition of EUTRA Hybrid CSG Cell test case 6.4.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130920	1913	-	LTE_TDD: Addition of EUTRA Hybrid CSG Cell test case 6.4.2	11.2.0	11.3.0
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2014-03	RAN#63	R5s130922	1914	-	Addition of GCF WI-086 EUTRA <>UTRA CSG test case 6.3.3	11.2.0	11.3.0
2014-03	RAN#63	R5s130929	1915	-	Correction to GCF WI-086 EUTRA Idle Mode Testcase 6.2.3.31	11.2.0	11.3.0
2014-03	RAN#63	R5s130933	1916	-	LTE_TDD : Addition of EUTRA Idle Mode test case 6.1.2.15b	11.2.0	11.3.0
2014-03	RAN#63	R5s130935	1917	-	LTE_TDD : Addition of EUTRA Idle Mode MFBI test case 6.1.2.19	11.2.0	11.3.0
2014-03	RAN#63	R5s130937	1918	-	LTE_TDD : Addition of EUTRA Idle Mode MFBI test case 6.1.2.20	11.2.0	11.3.0
2014-03	RAN#63	R5s130939	1919	-	LTE_TDD : Addition of EUTRA RRC test case 8.3.1.9a	11.2.0	11.3.0
2014-03	RAN#63	R5s130941	1920	-	LTE_TDD : Addition of EUTRA RRC test case 8.3.1.11a	11.2.0	11.3.0
2014-03	RAN#63	R5s130943	1921	-	LTE_TDD : Addition of EUTRA Idle mode test case 6.2.3.1a	11.2.0	11.3.0
2014-03	RAN#63	R5s130946	1922	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.17.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130949	1923	-	Correction for GCF WI-081 EUTRA MAC test case 7.1.3.6	11.2.0	11.3.0
2014-03	RAN#63	R5s130951	1924	-	Correction to GCF WI-81 EUTRA RRC latency test cases 8.2.1.5 and 8.2.1.6	11.2.0	11.3.0
2014-03	RAN#63	R5s130960	1925	-	Correction to GCF WI-162 LTE-A CA test case 8.3.1.18.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130961	1926	-	LTE_TDD : Addition of EUTRA RRC MFBI test case 8.2.4.22	11.2.0	11.3.0
2014-03	RAN#63	R5s130964	1927	-	Corrections to LTE-A CA test case 8.2.4.19.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130965	1928	-	Correction to QuantityConfig in Measurement Configuration of EUTRA Testcases	11.2.0	11.3.0
2014-03	RAN#63	R5s130967	1929	-	Addition of EUTRA RRC test case 8.1.3.12b	11.2.0	11.3.0
2014-03	RAN#63	R5s130969	1930	-	Correction of Rel-9 EUTRA Idle Mode MFBI test case 6.1.2.20	11.2.0	11.3.0
2014-03	RAN#63	R5s130970	1931	-	Correction to GCF WI-086 E-UTRA EMM testcase 9.2.1.2.8	11.2.0	11.3.0
2014-03	RAN#63	R5s130971	1932	-	Corrections for LTE-A week49 TTCN delivery	11.2.0	11.3.0
2014-03	RAN#63	R5s130975	1933	-	Addition of EUTRA RRC MDT test case 8.6.6.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130977	1934	-	Correction to f_EUTRA_IdleUpdated_Step14_15 and test case 8.1.2.11	11.2.0	11.3.0
2014-03	RAN#63	R5s130979	1935	-	Addition of GCF WI-162 LTE-A Carrier Aggregation test case 8.4.2.7.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130982	1936	-	Correction of test cases 8.2.4.14a, 8.3.1.15a and 8.3.1.16a	11.2.0	11.3.0
2014-03	RAN#63	R5s130984	1937	-	LTE_TDD: Correction of default UE_TXPWR_MAX_RACH	11.2.0	11.3.0
2014-03	RAN#63	R5s130986	1938	-	Correction of EUTRA Rel-9 Home eNB Enh test case 6.4.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130987	1939	-	Correction of GCF WI-154 EUTRA Emergency Call Test Case 11.2.1	11.2.0	11.3.0
2014-03	RAN#63	R5s130988	1940	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case 11.2.2	11.2.0	11.3.0
2014-03	RAN#63	R5s130989	1941	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case	11.2.0	11.3.0
2014-03	RAN#63	R5s130991	1942	-	11.2.4 Correction to CA test case 8.3.1.22	11.2.0	11.3.0
2014-03	RAN#63	R5s130992	1943	-	Addition of EMM testcase 9.2.1.1.7b	11.2.0	11.3.0
2014-03	RAN#63	R5s130994	1944	-	Correction to GERAN ASP G_CLLC_XID_REQ	11.2.0	11.3.0
2014-03	RAN#63	R5s130995	1945	-	LTE_TDD : Addition of EUTRA Idle mode test case 6.3.3	11.2.0	11.3.0
2014-03	RAN#63	R5s130997	1946	-	LTE_TDD: Addition of EUTRA Idle Mode HeNB test case 6.4.5	11.2.0	11.3.0
2014-03	RAN#63	R5s131000	1947	-	Addition of GCF WI-103 Rel-8 test case 9.2.1.1.28	11.2.0	11.3.0
2014-03	RAN#63	R5s131002	1948	-	Correction of GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.12a	11.2.0	11.3.0
2014-03	RAN#63	R5s131003	1949	-	Correction of GCF WI-082 EUTRA CSG Testcase 9.2.3.2.16	11.2.0	11.3.0
2014-03	RAN#63	R5s131013	1950	-	Correction to functions f_UTRAN_ConfigureCipheringBeforeHO	11.2.0	11.3.0
		<u> </u>	<u> </u>	1	and f_UTRAN_ConfigureCipheringBeforeHO_SRVCC	1	

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2014-03	RAN#63	R5s131014	1951	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation	11.2.0	11.3.0
2014-03	RAN#63	R5s131016	1952	-	RRC test case 8.2.4.18.1  LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.19.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131018	1953	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.20.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131020	1954	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.21.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131022	1955	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.18.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131024	1956	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.17.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131026	1957	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.21.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131032	1958	-		11.2.0	11.3.0
2014-03	RAN#63	R5s131034	1959	-	Correction to GCF WI-081 Multilayer SRVCC Test Case 13.4.3.1	11.2.0	11.3.0
2014-03	RAN#63	R5s131035	1960	-	Addition of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.2.8	11.2.0	11.3.0
2014-03	RAN#63	R5s131037	1961	-	Addition of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.6.3	11.2.0	11.3.0
2014-03	RAN#63	R5s131039	1962	-		11.2.0	11.3.0
2014-03	RAN#63	R5s131041	1963	-	Corrections required for LTE-A Band 29.	11.2.0	11.3.0
2014-03	RAN#63	R5s131042	1964	-	Correction to EUTRA RRC Test Case 8.3.1.16a	11.2.0	11.3.0
2014-03	RAN#63	R5s140002	1965	-	Correction of test cases 13.1.7 and 13.1.9	11.2.0	11.3.0
2014-03	RAN#63	R5s140007	1966	-	LTE_TDD: Correction of Midamble Configuration	11.2.0	11.3.0
2014-03	RAN#63	R5s140009	1967	-	Correction to LTE-A Carrier-Aggregation RRC test case 8.3.1.18.x	11.2.0	11.3.0
2014-03	RAN#63	R5s140010	1968	-	Correction to LTE-A Carrier-Aggregation RRC test case 8.2.2.3.x	11.2.0	11.3.0
2014-03	RAN#63	R5s140011	1969	-	Addition of LTE-A NIMTC test case 9.2.1.1.27	11.2.0	11.3.0
2014-03	RAN#63	R5s140031	1970	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case 8.1.2.12	11.2.0	11.3.0
2014-03	RAN#63	R5s140032	1971	-	Correction of GCF WI-86 EUTRA<>UTRA SRVCC test cases 13.4.3.1	11.2.0	11.3.0
2014-03	RAN#63	R5s140041	1972	-	Addition of LTE-A NIMTC test case 9.2.1.1.2a	11.2.0	11.3.0
2014-03	RAN#63	R5s140045	1973	-	Correction to GCF WI-087 EMM Test Case 9.2.3.4.1	11.2.0	11.3.0
2014-03	RAN#63	R5s140046	1974	-	Correction of test frequencies for UTRAN band VI in EUTRAN test cases	11.2.0	11.3.0
2014-03	RAN#63	R5s140072	1975	-	Correction to EUTRA EMM test cases 9.2.1.2.1b, 9.2.1.2.1c and 9.2.3.2.1b	11.2.0	11.3.0
2014-03	RAN#63	R5s140074	1976	-		11.2.0	11.3.0
2014-03	RAN#63	R5s140075	1977	-	Addition of LTE-A NIMTC test case 9.2.3.1.5a	11.2.0	11.3.0
2014-03	RAN#63	R5s140078	1978	-	Correction to EUTRA RRC Inter-RAT Measurements test case 8.3.2.2	11.2.0	11.3.0
2014-03	RAN#63	R5s140084	1979	-		11.2.0	11.3.0
2014-03	RAN#63	RP-140314	1980	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	11.2.0	11.3.0
2014-06	RAN#64	R5-142272	1981	-	felCIC: Test Method	11.3.0	11.4.0
2014-06	RAN#64	R5-142917	1982	-	Addition of operating restrictions for EUTRA MFBI test cases	11.3.0	11.4.0
2014-06	RAN#64	R5-142919	1984	-	Correction to Postambles for E-UTRA to UTRA test for IMS de- registration procedures	11.3.0	11.4.0
2014-06	RAN#64	R5-142985	1985	-	Routine maintenance and updates	11.3.0	11.4.0
2014-06	RAN#64	R5-142987	1986	-	Addition of MFBI Band IXIT	11.3.0	11.4.0
2014-06	RAN#64	R5s130983	1987	-	Correction of test case TC_9_2_1_2_1c	11.3.0	11.4.0

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2014-06	RAN#64	R5s140020	1988	-	Addition of Rel-9 MultiLayer SRVCC test case 13.4.3.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140022	1989	-	Addition of MultiLayer SRVCC test case 13.4.3.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140027	1990	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140043	1991	-	11.2.5     Addition of Rel-9 MultiLayer SRVCC test case 13.4.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140049	1992	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140051	1993	_	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140053	1994	_	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.4	11.3.0	
2014-06	RAN#64	R5s140055		_	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.5	11.3.0	
2014-06	RAN#64	R5s140057			LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.7	11.3.0	
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2014-06	RAN#64	R5s140059		-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.1	11.3.0	
2014-06	RAN#64	R5s140061	1998	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140063	1999	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140065	2000	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.2.8	11.3.0	11.4.0
2014-06	RAN#64	R5s140067	2001	-	Addition of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.4.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140069	2002	-	LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.4.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140073	2003	-	Correction Correction to GCF WI-150 multilayer test case 13.4.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140083	2004	-	Corrections of GCF WI-162 LTE-A CA inter-band test cases for band combination with Band 29A	11.3.0	11.4.0
2014-06	RAN#64	R5s140094	2005	-	Addition of GCF WI-086 EUTRA<>UTRA CSG test case 6.3.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140096	2006	-	Addition of GCF WI-086 MultiLayer SRVCC test case 13.4.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140101	2007	-	LTE_TDD: Addition of GCF WI-097 EUTRA<>GERAN test case 8.3.3.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140102	2008	-	LTE_TDD: Addition of GCF WI-097 Multi-layer test case 13.4.2.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140104	2009	-	Correction to EMM test case 9.3.1.18	11.3.0	11.4.0
2014-06	RAN#64	R5s140107	2010	-	Correction to GCF WI-081 RLC test case 7.2.2.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140108	2011	-	Correction to LTE-GERAN Multi-layer test case 13.3.2.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140109	2012	-	Correction to EMM test case 9.2.3.1.12	11.3.0	11.4.0
2014-06	RAN#64	R5s140110	2013	-	Addition of LTE-A Minimization of Drive Tests (MDT) Test case 8.6.2.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140112	2014	-	LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT) Test case 8.6.2.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140118	2015	-	Correction to EUTRA EMM Test Case 9.2.1.2.1b/ 9.2.1.2.1c	11.3.0	11.4.0
2014-06	RAN#64	R5s140119	2016	-	Correction of Test Case 9.2.3.4.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140120	2017	-	LTE_TDD: Correction of Test Case 8.1.3.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140129	2018	-	Addition of Rel-9 Home eNB test case 8.3.4.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140131	2019	-	Addition of Rel-9 Home eNB test case 8.3.4.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140138	2020	-	Correction to WI-151 RRC FDD<>TDD Test Case 8.2.4.15a	11.3.0	11.4.0
2014-06	RAN#64	R5s140139	2021	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140144	2022	-	Correction to GCF WI-086 EMM Test Case 9.2.3.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140145	2023	-	Correction to GCF WI-087 Idle Mode test case 6.2.3.16	11.3.0	11.4.0
2014-06	RAN#64	R5s140146	2024	-	Correction to Selection Expressions C130 and C63	11.3.0	11.4.0

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2014-06	RAN#64	R5s140147	2025	-	Addition of LTE-A Minimization of Drive Tests (MDT) Test case 8.6.4.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140149	2026	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140150	2027	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140152	2028	-	LTE_TDD: Addition of Synchronisation Parameters of SYNC_UL	11.3.0	11.4.0
2014-06	RAN#64	R5s140153	2029	-	Addition of LTE-A NIMTC test case 10.5.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140155	2030	-	Correction to EMM test cases 9.2.1.1.18 and 9.2.1.2.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140158	2031	-	Addition of Multi-Layer SRVCC test case 13.4.3.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140160	2032	-	Correction for IMS emergency call test cases	11.3.0	11.4.0
2014-06	RAN#64	R5s140161	2033	-	Corrections to Multi-Layer SRVCC test cases 13.4.3.x	11.3.0	11.4.0
2014-06	RAN#64	R5s140162	2034	-	Correction to GCF WI-082 EMM test case 9.2.1.1.7a	11.3.0	11.4.0
2014-06	RAN#64	R5s140167	2035	-	Correction to EUTRA MDT test Case 8.6.6.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140169	2036	-	Correction to GCF WI-154 IMS Emergency Call over EPS test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140170	2037	-	11.2.1   Correction to GCF WI-154 IMS Emergency Call over EPS test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140179	2038	-	TTCN Correction for EUTRA EMM Test case 9.2.3.1.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140181	2039	-	Correction to GCF WI-082 EMM Test Case 9.2.3.3.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140182	2040	-	Correction to GCF WI-167 EUTRA Inter-RAT test case 6.2.3.3a	11.3.0	11.4.0
2014-06	RAN#64	R5s140183	2041	-	Correction to EUTRA Test Case 6.1.1.4a	11.3.0	11.4.0
2014-06	RAN#64	R5s140184	2042	-	Correction to QuantityConfig in Measurement Configuration of	11.3.0	11.4.0
2014-06	RAN#64	R5s140188	2043	-	EUTRA Testcases  Correction to GCF WI-086 Multilyer SRVCC test Case 13.4.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140189	2044	-	Correction to EUTRA Testcases	11.3.0	11.4.0
2014-06	RAN#64	R5s140190	2045	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140192	2046	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140195	2047	-	Addition of LTE-A NIMTC test case 6.1.1.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140198	2048	-	Addition of GCF WI-162 LTE-A Carrier Aggregation test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140200	2049	-	8.4.2.7.1 Addition of GCF WI-164 LTE eMBMS Test case 17.1.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140202	2050	-	Correction to test frequencies for LTE FDD band 28	11.3.0	11.4.0
2014-06	RAN#64	R5s140205	2051	-	Correction to GCF WI-162 LTE-A CA Testcase 8.2.2.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140206	2052	-	Addition of GCF WI-164 LTE eMBMS Test case 17.2.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140208	2053	-	Addition of GCF WI-164 LTE eMBMS Test case 17.2.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140210	2054	-	Addition of GCF WI-164 LTE eMBMS Test case 17.2.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140212	2055	-	LTE_TDD: Addition of Rel-9 EUTRA RRC Interband test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140214	2056	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140215	2057	-	8.2.4.15a Correction to GCF WI-082 EMM test case 9.3.1.18	11.3.0	11.4.0
2014-06	RAN#64	R5s140216	2058	-	Correction to GCF WI-177 EUTRA testcase 8.6.4.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140217	2059	-	Correction to GCF WI-88 EUTRA<>C2K testcase 8.3.2.8	11.3.0	11.4.0
2014-06	RAN#64	R5s140218	2060	-	Correction to GCF WI-88 EUTRA<>C2K testcase 8.3.2.10	11.3.0	11.4.0
2014-06	RAN#64	R5s140222	2061	-	Correction to GCF WI-082 EMM Test Case 9.2.3.1.16	11.3.0	11.4.0

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2014-06	RAN#64	R5s140223	2062	-	LTE_TDD : Addition of GCF WI-087 EUTRAN RRC test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140225	2063	-	8.4.3.3 Correction to GCF WI-150 Multi-layer Test Case 13.4.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140226	2064	-	Correction to GCF WI-086 EUTRA EMM Test Case 9.2.3.3.5a	11.3.0	11.4.0
2014-06	RAN#64	R5s140230	2065	-	LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140233	2066	-	Testcase 8.6.4.4  Correction to RACH TFS CCCH Configuration (LTE-TDSCDMA)	11.3.0	11.4.0
2014-06	RAN#64	R5s140234	2067	-	Correction to implementation of 34.229-1 Annex C.31 procedure for	11.3.0	11.4.0
2014-06	RAN#64	R5s140235	2068	-	SRVCC test case 13.4.3.6  Correction to GCF WI-167 EUTRA Rel9 SRVCC test Case 13.4.3.6	11.3.0	11.4.0
2014-06	RAN#64	R5s140240	2069	-	Correction to GCF WI-086 EUTRA EMM Test Case 9.2.1.2.1c and 9.2.1.2.1b	11.3.0	11.4.0
2014-06	RAN#64	R5s140241	2070	-	Correction to add CA band combination CA_1A-26A	11.3.0	11.4.0
2014-06	RAN#64	R5s140244	2071	-	LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140246	2072	-	Testcase 8.6.2.6  LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140248	2073	-	Testcase 8.6.6.1  LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140250	2074	-	Testcase 8.6.6.2  LTE_TDD: Addition of LTE-A Minimization of Drive Tests (MDT)	11.3.0	11.4.0
2014-06	RAN#64	R5s140252	2075	-	Testcase 8.6.6.3  Correction to EMM test case 9.2.1.2.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140258	2076	-	Correction to LTE-A Carrier Aggregation test case 8.2.4.20.x	11.3.0	11.4.0
2014-06	RAN#64	R5s140259	2077	-	Correction to GCF WI-086 Multi-Layer SRVCC test case 13.4.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140260	2078	-	Correction to GCF WI-087 EMM test case 9.2.3.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140263	2079	-	Corrections for multilayer SRVCC test cases	11.3.0	11.4.0
2014-06	RAN#64	R5s140267	2080	-	Correction to GCF WI-86 EUTRA RRC test case 8.3.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140268	2081	-	Correction of GCF WI-082 EUTRA EMM test case 9.1.5.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140273	2082	-	Correction to f_UTRAN_RB_SetUp_PS_RAB	11.3.0	11.4.0
2014-06	RAN#64	R5s140274	2083	-	Correction to f_GetTestcaseAttrib_DICcchMsgInSeparateMacPdu	11.3.0	11.4.0
2014-06	RAN#64	R5s140277	2084	-	Addition of GCF WI-165 LTE eMBMS Test case 17.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140279	2085	-	Correction to CSG related EMM test cases	11.3.0	11.4.0
2014-06	RAN#64	R5s140280	2086	-	Addition of GCF WI-164 LTE eMBMS Test case 17.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140282	2087	-	Addition of GCF WI-165 LTE eMBMS Test case 17.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140286	2088	-	Corrections for LTE<>GERAN test cases 6.2.3.1, 6.2.3.1a and 9.2.3.4.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140287	2089	-	Corrections for emergency call test cases 11.2.2 and 11.2.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140289	2090	-	LTE_TDD: Addition of Rel-9 Home eNB test case 8.3.4.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140291	2091	-	LTE_TDD: Addition of Rel-9 Home eNB test case 8.3.4.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140298	2092	-	Addition of Rel-9 EUTRA Home eNB test case 8.3.4.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140300	2093	-	Correction of GCF WI-87 Testcase 6.2.3.21 for Ipv6 Over GERAN	11.3.0	11.4.0
2014-06	RAN#64	R5s140301	2094	-	Addition of GCF WI-87 LTE GERAN Test case 6.2.3.28	11.3.0	11.4.0
2014-06	RAN#64	R5s140305	2095	-	Addition of Rel-10 EPS Enhancements EPS FDD <>UTRAN test Case 8.6.5.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140309	2096	-	Correction to GCF WI-086 EUTRA RRC test cases 8.4.1.2 and 8.4.1.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140310	2097	-	LTE_TDD : Addition of GCF WI-164 LTE eMBMS test case 17.1.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140312	2098	-	LTE_TDD : Addition of GCF WI-164 LTE eMBMS test case 17.1.2	11.3.0	11.4.0

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2014-06	RAN#64	R5s140314	2099	-	LTE_TDD : Addition of GCF WI-164 LTE eMBMS test case 17.1.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140322	2100	-	Addition of GCF WI-177 Rel-10 LTE Enhancements test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140326	2101	-	9.2.3.1.20a  Correction for GCF WI-086 E-UTRA EMM testcase 9.2.3.2.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140332	2102	-	Correction to GCF WI-159 Pre-registration at 1xRTT testcase 13.4.4.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140335	2103	-	Correction to function f_UTRAN_ConfigureIntegrityAfterHO()	11.3.0	11.4.0
2014-06	RAN#64	R5s140336	2104	-	Addition of Rel-9 EUTRA Home eNB test case 8.3.4.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140340	2105	-	Correction to GCF WI-096 EUTRA TDD<>TDSDMA test case 8.1.3.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140341	2106	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140344	2107	-	Correction of GCF WI-086 EUTRA RRC test case 8.3.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140346	2108	-	Correction to WI-103 IMS MTSI Testcase 9.2.1.1.28	11.3.0	11.4.0
2014-06	RAN#64	R5s140348	2109	-	Corrections to GCF WI-150 rel-9 multilayer test case 13.4.1.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140349	2110	-	Correction to GCF WI-87 E-UTRA RRC test case 8.4.3.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140352	2111	-	LTE_TDD: Addition of LTE-WCDMA RRC Measurement test case 8.3.3.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140354	2112	-		11.3.0	11.4.0
2014-06	RAN#64	R5s140361	2113	-	Correction to LTE-A NIMTC test case 6.1.1.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140362	2114	-	Addition of GCF WI-182 LTE-A Rel10 Enhancement EUTRA FDD<>GERAN test case 8.6.7.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140364	2115	-	LTE_TDD: Addition of GCF WI-184 LTE-A Rel10 Enhancement EUTRA TDD<>GERAN test case 8.6.7.2	11.3.0	11.4.0
2014-06	RAN#64	R5s140366	2116	-	Correction to GCF WI-181 Rel-10 EPS Enhancements EPS FDD <>UTRAN test Case 8.6.5.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140367	2117	-	Correction of 8.3.1.13a	11.3.0	11.4.0
2014-06	RAN#64	R5s140369	2118	-	Correction to test case 9.1.5.1, Table 9.1.5.1.3.3-1: EMM INFORMATION (step 1, Table 9.1.5.1.3.2-1)	11.3.0	11.4.0
2014-06	RAN#64	R5s140370	2119	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.9	11.3.0	11.4.0
2014-06	RAN#64	R5s140372	2120	-	Addition of GCF WI-086 EUTRA-UTRAN CSG test case 6.3.7	11.3.0	11.4.0
2014-06	RAN#64	R5s140374	2121	-	Addition of EUTRA-UTRAN Rel-9 Home eNB test case 6.4.3	11.3.0	11.4.0
2014-06	RAN#64	R5s140376	2122	-	Corrections to function f_EUTRA_508RRC_AddModRel_Scell_Common	11.3.0	11.4.0
2014-06	RAN#64	R5s140377	2123	-	Addition of WI-162 LTE-A Carrier Aggregation test case 8.2.2.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140379	2124	-	Addition of WI-162 LTE-A Carrier Aggregation test case 8.2.4.20.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140381	2125	-	Addition of WI-162 LTE-A Carrier Aggregation test case 8.3.1.17.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140383	2126	-	Addition of WI-162 LTE-A Carrier Aggregation test case 8.3.1.18.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140385	2127	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.11	11.3.0	11.4.0
2014-06	RAN#64	R5s140392	2128	-	LTE_TDD : Addition of WI-162 LTE-A Carrier Aggregation test case 8.4.2.7.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140394	2129	-	Correction to GCF WI-081 EUTRA Idle mode test case 6.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140396	2130	-	Correction to GCF WI-087 EMM test case 9.2.3.3.5	11.3.0	11.4.0
2014-06	RAN#64	R5s140397	2131	-	Addition of LTE-A Inter-RAT MDT test case 8.6.3.1	11.3.0	11.4.0
2014-06	RAN#64	R5s140402	2132	-	Correction to GCF WI-156 EUTRA RRC test case 8.2.4.14	11.3.0	11.4.0
2014-06	RAN#64	R5s140403	2133	-	Correction of EUTRA MDT test Cases 8.6.2.3, 8.6.2.6, 8.6.2.7 and 8.6.2.8.	11.3.0	11.4.0
2014-06	RAN#64	R5s140404		-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.10	11.3.0	11.4.0
2014-06	RAN#64	R5s140406	2135	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.7	11.3.0	11.4.0

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2014-06	RAN#64	R5s140411	2136	-	Correction to applicability condition C81 for Multi-layer test case	11.3.0	11.4.0
2014-06	RAN#64	R5s140414	2137	-	13.1.4 & 13.1.5  Correction to GCF WI-082 EMM Test Case 9.2.3.1.12	11.3.0	11.4.0
2014-06	RAN#64	R5s140421	2138	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140423	2139	-	13.4.3.14 Correction to GCF WI-156 EUTRA RRC test case 8.2.4.15a	11.3.0	11.4.0
2014-06	RAN#64	R5s140424	2140	-	Addition of Rel-10 MDT test case 8.6.2.9	11.3.0	11.4.0
2014-06	RAN#64	R5s140431	2141	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.3.0	11.4.0
2014-06	RAN#64	R5s140440	2142	-	13.4.3.16 LTE_TDD: Addition of LTE eMBMS Testcase 17.1.4	11.3.0	11.4.0
2014-06	RAN#64	R5s140442	2143	-	LTE_TDD: Addition of LTE eMBMS Testcase 17.2.1	11.3.0	11.4.0
2014-06	RAN#64	RP-140823	2144	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	11.3.0	11.4.0
2014-09	RAN#65	R5-144219	2145	-	cases in the TC lists in 36.523-3 (prose), Annex A Routine maintenance and updates	11.4.0	11.5.0
2014-09	RAN#65	R5-144399	2146	-	Correction to the guideline of EUTRA CA test execution on Band 29	11.4.0	11.5.0
2014-09	RAN#65	R5-144678	2147	-	Correction to the calculation in Test method for RRC signalling	11.4.0	11.5.0
2014-09	RAN#65	RP-141582	2301	-	latency CR to 36.523-3: Add new verified and e-mail agreed TTCN test	11.4.0	11.5.0
2014-09	RAN#65	R5s140127	2148	-	cases in the TC lists in 36.523-3 (prose), Annex A Addition of Rel-9 Home eNB test case 8.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140331	2149	-	Correction to SRVCC test case 13.4.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140333	2150	-	Correction to GCF WI-159 Pre-registration at 1xRTT testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140412	2151	-	13.4.4.5 Addition of LTE-A Minimization of Drive Tests (MDT) Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140427	2152	-	8.6.11.1 Correction to SRVCC testcases 13.4.3.4 and 13.4.3.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140429	2153	-	Addition of GCF WI-164 eMBMS test case 17.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140444	2154	-	Correction to GCF WI-081 EUTRA Idle mode Test Case 6.1.2.8a	11.4.0	11.5.0
2014-09	RAN#65	R5s140447	2155	-	Correction to common function in NAS Authentication module	11.4.0	11.5.0
2014-09	RAN#65	R5s140448	2156	-	LTE_TDD : Addition of GCF WI-086 EUTRA-UTRAN CSG test	11.4.0	11.5.0
2014-09	RAN#65	R5s140450	2157	-	case 6.3.7 LTE_TDD : Addition of EUTRA-UTRAN Rel-9 Home eNB test case	11.4.0	11.5.0
2014-09	RAN#65	R5s140455	2158	-	6.4.3 LTE_TDD: Addition of LTE eMBMS Testcase 17.2.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140457	2159	-	LTE_TDD: Addition of LTE eMBMS Testcase 17.2.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140459	2160	-	Addition of GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140461	2161	-	13.4.3.13 Correction of GCF WI-167 EUTRA RRC test case 8.3.2.11	11.4.0	11.5.0
2014-09	RAN#65	R5s140465	2162	-	LTE_TDD: Addition of Rel-9 Home eNB test case 8.3.4.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140467	2163	-	Correction of GCF WI-167 EUTRA Inter-RAT test cases 6.2.3.4a	11.4.0	11.5.0
2014-09	RAN#65	R5s140468	2164	-	and 6.2.3.5a  Correction to f_UTRAN_RB_SetUp_PS_RAB	11.4.0	11.5.0
2014-09	RAN#65	R5s140470	2165	-	Addition of Rel-10 MDT test case 8.6.1.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140472	2166	-	Correction to definition of O13_Type	11.4.0	11.5.0
2014-09	RAN#65	R5s140473	2167	-	Correction of GCF WI-086 EUTRA<>UTRAN CSG test case 6.3.7	11.4.0	11.5.0
2014-09	RAN#65	R5s140474	2168	-	Correction of EUTRA-UTRAN HomeENB test case 6.4.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140475	2169	-	Correction to function	11.4.0	11.5.0
2014-09	RAN#65	R5s140476		-	f_UTRAN_CS_Fallback_WithRedirection_WithoutRRCConnEst. Correction to function f_SS_Config_64kPS_DCH4_RAB for	11.4.0	
2014-09	RAN#65	R5s140477		-	TD_LTE<>TDSDMA Correction to GCF WI-086 EUTRA EMM Test Case 9.2.1.2.1c	11.4.0	
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2014-09 RAN#65 R5s140478 2172	New
2014-09 RAN#65 R5s140480 2173 . Correction to IMS Emergency Call test case 11.2.5 . 11.4.0 1 2014-09 RAN#65 R5s140481 2174 . Correction to GCF WI-086 UTRA→EUTRA HSPA Handover 14.0 1 2014-09 RAN#65 R5s140482 2175 . Correction for SI 2 quater message for EUTRA→UTRA→GERAN 11.4.0 1 2014-09 RAN#65 R5s140483 2176 . Correction for SI 2 quater message for EUTRA→UTRA→GERAN 11.4.0 1 2014-09 RAN#65 R5s140484 2177 . LTE_TDD: Addition of LTE eMBMS Testcase 17.1.5 . 11.4.0 1 2014-09 RAN#65 R5s140488 2178 . LTE_TDD: Addition of LTE eMBMS Testcase 17.3.2 . 11.4.0 1 2014-09 RAN#65 R5s140492 2179 . Correction to test cases 8.3.1.12a, 8.3.1.15, 8.3.1.16 and 8.6.4.4 11.4.0 1 2014-09 RAN#65 R5s140492 2179 . Correction to template or_G_AttachReq_EUTRANCap . 11.4.0 1 2014-09 RAN#65 R5s140492 2180 . Correction to template or_G_AttachReq_EUTRANCap . 11.4.0 1 2014-09 RAN#65 R5s140497 2182 . Correction to GCF WI-081 EUTRA RRC Test Case 8.3.4.5 . 11.4.0 1 2014-09 RAN#65 R5s140498 2183 . Addition of WI-162 LTE-A Carrier Aggregation MAC test case . 11.4.0 1 2014-09 RAN#65 R5s140501 2184 . Correction to EUTRA RRC MDT re-establishment test cases . 11.4.0 1 2014-09 RAN#65 R5s140503 2185 . Correction to EUTRA RRC MDT re-establishment test cases . 11.4.0 1 2014-09 RAN#65 R5s140505 2186 . Correction to EUTRA RRC MDT re-establishment test cases . 11.4.0 1 2014-09 RAN#65 R5s140507 2188 . Correction to EUTRA Correction for EUTRA common functions . 11.4.0 1 2014-09 RAN#65 R5s140507 2188 . Addition of WI-162 LTE-A Carrier Aggregation MAC test case . 11.4.0 1 2014-09 RAN#65 R5s140507 2188 . Correction to EUTRA common functions for MAC test case . 11.4.0 1 2014-09 RAN#65 R5s140507 2188 . Addition of WI-162 LTE-A Carrier Aggregation MAC test case . 11.4.0 1 2014-09 RAN#65 R5s140507 2188 . Addition of RI-10 elCIC test case 8.3.1.2 1 11.4.0 1 2014-09 RAN#65 R5s140507 2189 . Extension of EUTRA common functions for MAC test cases . 11.4.0 1 2014-09 RAN#65 R5s140507 2199 . Correction to GCF WI-086 EUTRA dinter-band test cases for band . 11.4.0 1 2014-09 RAN	1.5.0
2014-09         RAN#65         R5s140482         2175         Correction for SI 2 quater message for EUTRA<>UTRA<>GERAN         11.4.0 1           2014-09         RAN#65         R5s140483         2176         Correction to GCF WI-156 EUTRA RRC test case 8.2.4.15a         11.4.0 1           2014-09         RAN#65         R5s140484         2177         LTE_TDD: Addition of LTE eMBMS Testcase 17.1.5         11.4.0 1           2014-09         RAN#65         R5s140488         2178         LTE_TDD: Addition of LTE eMBMS Testcase 17.3.2         11.4.0 1           2014-09         RAN#65         R5s140492         2179         Correction to fest cases 8.3.1.12a, 8.3.1.15, 8.3.1.16 and 8.6.4.4         11.4.0 1           2014-09         RAN#65         R5s140499         2180         Correction to template cr_G_AttachReq_EUTRANCap         11.4.0 1           2014-09         RAN#65         R5s140499         2181         Correction to Rel-9 EUTRA Home eNB test case 8.3.4.5         11.4.0 1           2014-09         RAN#65         R5s140499         2182         Correction to GCF WI-081 EUTRA RRC Test Case 8.2.1.5         11.4.0 1           2014-09         RAN#65         R5s140590         2184         Correction to GCF WI-081 EUTRA RRC Test Case 8.2.1.5         11.4.0 1           2014-09         RAN#65         R5s140500         2184         Cor	1.5.0
2014-09   RAN#65   R5s140482   2175   Correction for SI 2 quater message for EUTRA<>UTRA<>GERAN   11.4.0   test case 8.3.2.6   Correction for GCF WI-156 EUTRA RRC test case 8.2.4.15a   11.4.0   test case 8.3.2.6   Correction for GCF WI-156 EUTRA RRC test case 8.2.4.15a   11.4.0   test case 8.2.4.15a   11.4.0   test case 8.2.4.15a   11.4.0   test case 8.2.4.15a   11.4.0   test case 8.2.4.15a   test case 17.3.2   test case 17.4.0   test case 8.2.1.5	1.5.0
2014-09 RAN#65 R5s140483 2176 · Correction to GCF WI-156 EUTRA RRC test case 8.2.4.15a 11.4.0 1 2014-09 RAN#65 R5s140484 2177 · LTE_TDD: Addition of LTE eMBMS Testcase 17.1.5 11.4.0 1 2014-09 RAN#65 R5s140488 2178 · LTE_TDD: Addition of LTE eMBMS Testcase 17.3.2 11.4.0 1 2014-09 RAN#65 R5s140492 2179 · Correction to template cr_G_AttachReq_EUTRANCap 11.4.0 1 2014-09 RAN#65 R5s140493 2180 · Correction to Rel-9 EUTRA Home eNB test case 8.3.4.5 11.4.0 1 2014-09 RAN#65 R5s140497 2182 · Correction to GCF WI-081 EUTRA RRC Test Case 8.2.1.5 11.4.0 1 2014-09 RAN#65 R5s140498 2183 · Addition of WI-162 LTE-A Carrier Aggregation MAC test case 11.4.0 1 2014-09 RAN#65 R5s140498 2183 · Addition of WI-162 LTE-A Carrier Aggregation MAC test case 11.4.0 1 2014-09 RAN#65 R5s140501 2184 · Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 2014-09 RAN#65 R5s140503 2185 · Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 2014-09 RAN#65 R5s140500 2186 · Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 2014-09 RAN#65 R5s140500 2186 · Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 2014-09 RAN#65 R5s140500 2186 · Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 2014-09 RAN#65 R5s140500 2186 · Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 2014-09 RAN#65 R5s140500 2187 · Correction to SIB 6 contents for EUTRA⇒UTRA test cases using 11.4.0 1 2014-09 RAN#65 R5s140500 2189 · Extension of EUTRA carrier Aggregation MAC test case 11.4.0 1 2014-09 RAN#65 R5s140500 2189 · Extension of EUTRA common functions for MAC test case 11.4.0 1 2014-09 RAN#65 R5s140502 2192 · Correction to GCF WI-087 EMM Test Case 9.2.3.4.1 11.4.0 1 2014-09 RAN#65 R5s140520 2192 · Correction to GCF WI-087 EMM Test Case 9.2.3.4.1 11.4.0 1 2014-09 RAN#65 R5s140520 2192 · Correction to GCF WI-086 EUTRA Allemende test cases for band 11.4.0 1 2014-09 RAN#65 R5s140520 2192 · Correction to GCF WI-086 EUTRA Allemende test case 6.2.3.31 11.4.0 1 2014-09 RAN#65 R5s140520 2196 · Correction to	1.5.0
2014-09   RAN#65   R5s140488   2178	1.5.0
2014-09 RAN#65 R5s140492 2179 - Correction of test cases 8.3.1.12a, 8.3.1.15, 8.3.1.16 and 8.6.4.4 11.4.0 1 2014-09 RAN#65 R5s140493 2180 - Correction to template cr_G_AttachReq_EUTRANCap 11.4.0 1 2014-09 RAN#65 R5s140496 2181 - Correction to Rel-9 EUTRA Home eNB test case 8.3.4.5 11.4.0 1 2014-09 RAN#65 R5s140497 2182 - Correction to GCF WI-081 EUTRA RRC Test Case 8.2.1.5 11.4.0 1 2014-09 RAN#65 R5s140498 2183 - Addition of WI-162 LTE-A Carrier Aggregation MAC test case 11.4.0 1 2014-09 RAN#65 R5s140501 2184 - Correction for EUTRA RRC MDT re-establishment test cases 11.4.0 1 2014-09 RAN#65 R5s140503 2185 - Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 2014-09 RAN#65 R5s140505 2186 - Correction to eMBMS common functions 11.4.0 1 2014-09 RAN#65 R5s140507 2188 - Addition of WI-162 LTE-A Carrier Aggregation MAC test case 11.4.0 1 2014-09 RAN#65 R5s140507 2188 - Addition of WI-162 LTE-A Carrier Aggregation MAC test cases 11.4.0 1 2014-09 RAN#65 R5s140507 2188 - Addition of WI-162 LTE-A Carrier Aggregation MAC test case 11.4.0 1 2014-09 RAN#65 R5s140509 2189 - Extension of EUTRA common functions for MAC test cases 11.4.0 1 2014-09 RAN#65 R5s140513 2190 - Correction to GCF WI-087 EMM Test Case 9.2.3.4.1 11.4.0 1 2014-09 RAN#65 R5s140520 2192 - Correction to GCF WI-087 EMM Test Case 9.2.3.4.1 11.4.0 1 2014-09 RAN#65 R5s140520 2192 - Correction of LTE-A Minimization of Drive Tests (MDT) Testcase 11.4.0 1 2014-09 RAN#65 R5s140528 2195 - Correction to GCF WI-086 EUTRA colintors 11.4.0 1 2014-09 RAN#65 R5s140529 2196 - Correction to GCF WI-086 EUTRA lide mode test case 6.2.3.31 11.4.0 1 2014-09 RAN#65 R5s140530 2197 - Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 3.1.2.1 1.4.0 1 2014-09 RAN#65 R5s140531 2198 - Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2 1 2014-09 RAN#65 R5s140531 2198 - Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2 1 2014-09 RAN#65 R5s140531 2198 - Correction to EUTRA MDT test Case 8.6	1.5.0
2014-09   RAN#65   R5s140493   2180   -	1.5.0
2014-09   RAN#65   R5s140496   2181   -	1.5.0
2014-09   RAN#65   R5s140497   2182   -	1.5.0
2014-09 RAN#65 R5s140498 2183 - Addition of WI-162 LTE-A Carrier Aggregation MAC test case 11.4.0 1 7.1.3.11.2   2014-09 RAN#65 R5s140501 2184 - Correction for EUTRA RRC MDT re-establishment test cases 11.4.0 1 2014-09 RAN#65 R5s140503 2185 - Correction to GCF WI-086 EUTRA RRC handover test cases 11.4.0 1 8.4.2.2 and 8.4.2.4   2014-09 RAN#65 R5s140505 2186 - Correction to eMBMS common functions 11.4.0 1 2014-09 RAN#65 R5s140507 2187 - Correction to SIB 6 contents for EUTRA UTRA test cases using 11.4.0 1 2014-09 RAN#65 R5s140509 2189 - Addition of WI-162 LTE-A Carrier Aggregation MAC test case 11.4.0 1 2014-09 RAN#65 R5s140513 2190 - Correction to GCF WI-087 EMM Test Case 9.2.3.4.1 11.4.0 1 2014-09 RAN#65 R5s140513 2190 - Correction to GCF WI-087 EMM Test Case 9.2.3.4.1 11.4.0 1 2014-09 RAN#65 R5s140520 2192 - Correction of test cases 8.4.2.4 11.4.0 1 2014-09 RAN#65 R5s140520 2192 - Correction of test cases 8.4.2.4 11.4.0 1 2014-09 RAN#65 R5s140520 2193 - Correction of EUTRA Minimization of Drive Tests (MDT) Testcase 8.6.3.1 2014-09 RAN#65 R5s140527 2194 - Correction of GCF WI-082 LTE-A CA inter-band test cases for band 11.4.0 1 2014-09 RAN#65 R5s140527 2194 - Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31 11.4.0 1 2014-09 RAN#65 R5s140529 2196 - Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31 11.4.0 1 2014-09 RAN#65 R5s140530 2197 - Correction to TEI-RAT test cases 8.4.2.2 and 8.4.2.4 11.4.0 1 2014-09 RAN#65 R5s140530 2197 - Correction to EUTRA MDT test Case 8.6.2.3 1 11.4.0 1 2014-09 RAN#65 R5s140531 2198 - Correction to EUTRA MDT test Case 8.6.2.3 1 11.4.0 1 2014-09 RAN#65 R5s140531 2198 - Correction to EUTRA MDT test Case 8.6.2.3 1 11.4.0 1 2014-09 RAN#65 R5s140531 2198 - Correction to EUTRA MDT test Case 8.6.2.3 1 11.4.0 1 2014-09 RAN#65 R5s140531 2198 - Correction to EUTRA MDT test Case 8.6.2.3 1 11.4.0 1 2014-09 RAN#65 R5s140531 2198 - Correction to EUTRA MDT test Case 8.6.2.3 1 11.4.0 1 2014-09 RAN#65 R5s140531 2198 - Correction to EUTRA MDT test Case 8.6.2.3 1 11.4.0 1 2014-09	1.5.0
7.1.3.11.2	1.5.0
2014-09	1.5.0
8.4.2.2 and 8.4.2.4   2014-09   RAN#65   R5s140505   2186   -	1.5.0
2014-09         RAN#65         R5s140505         2186         -         Correction to eMBMS common functions         11.4.0         1           2014-09         RAN#65         R5s140506         2187         -         Correction to SIB 6 contents for EUTRA<>UTRA test cases using UTRA band VI         11.4.0         1           2014-09         RAN#65         R5s140507         2188         -         Addition of WI-162 LTE-A Carrier Aggregation MAC test case         11.4.0         1           2014-09         RAN#65         R5s140509         2189         -         Extension of EUTRA common functions for MAC test case         11.4.0         1           2014-09         RAN#65         R5s140513         2190         -         Correction to GCF WI-087 EMM Test Case 9.2.3.4.1         11.4.0         1           2014-09         RAN#65         R5s140514         2191         -         Addition of Rel-10 elCIC test case 8.3.1.21         11.4.0         1           2014-09         RAN#65         R5s140520         2192         -         Correction of test cases 8.4.2.4         11.4.0         1           2014-09         RAN#65         R5s140527         2194         -         Correction of LTE-A Minimization of Drive Tests (MDT) Testcase         11.4.0         1           2014-09         RAN#65	1.5.0
UTRA Band VI	1.5.0
2014-09   RAN#65   R5s140507   2188   -   Addition of WI-162 LTE-A Carrier Aggregation MAC test case   11.4.0   1   2014-09   RAN#65   R5s140509   2189   -   Extension of EUTRA common functions for MAC test cases   11.4.0   1   2014-09   RAN#65   R5s140513   2190   -   Correction to GCF WI-087 EMM Test Case 9.2.3.4.1   11.4.0   1   2014-09   RAN#65   R5s140514   2191   -   Addition of Rel-10 elClC test case 8.3.1.21   11.4.0   1   2014-09   RAN#65   R5s140520   2192   -   Correction of test cases 8.4.2.4   11.4.0   1   2014-09   RAN#65   R5s140520   2193   -   Correction of LTE-A Minimization of Drive Tests (MDT) Testcase   11.4.0   1   2014-09   RAN#65   R5s140527   2194   -   Correction of GCF WI-162 LTE-A CA inter-band test cases for band   2014-09   RAN#65   R5s140528   2195   -   Correction to test case applicability conditions   11.4.0   1   2014-09   RAN#65   R5s140529   2196   -   Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31   11.4.0   1   2014-09   RAN#65   R5s140530   2197   -   Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4   11.4.0   1   2014-09   RAN#65   R5s140531   2198   -   Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test   2014-09   RAN#65   R5s140533   2199   -   Correction to EUTRA MDT test Case 8.6.2.3   11.4.0   1   2014-09   RAN#65   R5s140533   2199   -   Correction to EUTRA MDT test Case 8.6.2.3   11.4.0   1   2014-09   RAN#65   R5s140533   2199   -     Correction to EUTRA MDT test Case 8.6.2.3   11.4.0   1   2014-09   RAN#65   R5s140533   2199   -   Correction to EUTRA MDT test Case 8.6.2.3   211.4.0   2014-09   RAN#65   R5s140533   2199   -     Correction to EUTRA MDT test Case 8.6.2.3   211.4.0   2014-09   RAN#65   R5s140533   2199   -     Correction to EUTRA MDT test Case 8.6.2.3   211.4.0   2014-09   RAN#65   R5s140533   2199   -     Correction to EUTRA MDT test Case 8.6.2.3   211.4.0   2014-09   RAN#65   R5s140533   2199   -	1.5.0
2014-09         RAN#65         R5s140509         2189         -         Extension of EUTRA common functions for MAC test cases         11.4.0         1           2014-09         RAN#65         R5s140513         2190         -         Correction to GCF WI-087 EMM Test Case 9.2.3.4.1         11.4.0         1           2014-09         RAN#65         R5s140514         2191         -         Addition of Rel-10 elCIC test case 8.3.1.21         11.4.0         1           2014-09         RAN#65         R5s140520         2192         -         Correction of test cases 8.4.2.4         11.4.0         1           2014-09         RAN#65         R5s140526         2193         -         Correction of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.3.1         11.4.0         1           2014-09         RAN#65         R5s140527         2194         -         Correction of GCF WI-162 LTE-A CA inter-band test cases for band combination with Band 29A         11.4.0         1           2014-09         RAN#65         R5s140528         2195         -         Correction to test case applicability conditions         11.4.0         1           2014-09         RAN#65         R5s140530         2197         -         Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31         11.4.0         1           201	1.5.0
2014-09       RAN#65       R5s140514       2191       -       Addition of Rel-10 elClC test case 8.3.1.21       11.4.0       1         2014-09       RAN#65       R5s140520       2192       -       Correction of test cases 8.4.2.4       11.4.0       1         2014-09       RAN#65       R5s140526       2193       -       Correction of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.3.1       11.4.0       1         2014-09       RAN#65       R5s140527       2194       -       Correction of GCF WI-162 LTE-A CA inter-band test cases for band combination with Band 29A       11.4.0       1         2014-09       RAN#65       R5s140528       2195       -       Correction to test case applicability conditions       11.4.0       1         2014-09       RAN#65       R5s140529       2196       -       Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31       11.4.0       1         2014-09       RAN#65       R5s140530       2197       -       Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4       11.4.0       1         2014-09       RAN#65       R5s140531       2198       -       Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2       11.4.0       1         2014-09       RAN#65       R5s140533       2199	1.5.0
2014-09       RAN#65       R5s140520       2192       -       Correction of test cases 8.4.2.4       11.4.0       1         2014-09       RAN#65       R5s140526       2193       -       Correction of LTE-A Minimization of Drive Tests (MDT) Testcase 8.6.3.1       11.4.0       1         2014-09       RAN#65       R5s140527       2194       -       Correction of GCF WI-162 LTE-A CA inter-band test cases for band combination with Band 29A       11.4.0       1         2014-09       RAN#65       R5s140528       2195       -       Correction to test case applicability conditions       11.4.0       1         2014-09       RAN#65       R5s140529       2196       -       Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31       11.4.0       1         2014-09       RAN#65       R5s140530       2197       -       Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4       11.4.0       1         2014-09       RAN#65       R5s140531       2198       -       Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2       11.4.0       1         2014-09       RAN#65       R5s140533       2199       -       Correction to EUTRA MDT test Case 8.6.2.3       11.4.0       1	1.5.0
2014-09       RAN#65       R5s140526       2193       -       Correction of LTE-A Minimization of Drive Tests (MDT) Testcase       11.4.0       1         2014-09       RAN#65       R5s140527       2194       -       Correction of GCF WI-162 LTE-A CA inter-band test cases for band combination with Band 29A       11.4.0       1         2014-09       RAN#65       R5s140528       2195       -       Correction to test case applicability conditions       11.4.0       1         2014-09       RAN#65       R5s140529       2196       -       Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31       11.4.0       1         2014-09       RAN#65       R5s140530       2197       -       Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4       11.4.0       1         2014-09       RAN#65       R5s140531       2198       -       Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2       11.4.0       1         2014-09       RAN#65       R5s140533       2199       -       Correction to EUTRA MDT test Case 8.6.2.3       11.4.0       1	1.5.0
8.6.3.1	1.5.0
2014-09         RAN#65         R5s140527         2194         -         Correction of GCF WI-162 LTE-A CA inter-band test cases for band combination with Band 29A         11.4.0         1           2014-09         RAN#65         R5s140528         2195         -         Correction to test case applicability conditions         11.4.0         1           2014-09         RAN#65         R5s140529         2196         -         Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31         11.4.0         1           2014-09         RAN#65         R5s140530         2197         -         Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4         11.4.0         1           2014-09         RAN#65         R5s140531         2198         -         Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2         11.4.0         1           2014-09         RAN#65         R5s140533         2199         -         Correction to EUTRA MDT test Case 8.6.2.3         11.4.0         1	1.5.0
2014-09         RAN#65         R5s140528         2195         -         Correction to test case applicability conditions         11.4.0         1           2014-09         RAN#65         R5s140529         2196         -         Correction to GCF WI-086 EUTRA Idle mode test case 6.2.3.31         11.4.0         1           2014-09         RAN#65         R5s140530         2197         -         Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4         11.4.0         1           2014-09         RAN#65         R5s140531         2198         -         Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2         11.4.0         1           2014-09         RAN#65         R5s140533         2199         -         Correction to EUTRA MDT test Case 8.6.2.3         11.4.0         1	1.5.0
2014-09       RAN#65       R5s140530       2197       -       Correction to LTE-IRAT test cases 8.4.2.2 and 8.4.2.4       11.4.0       1         2014-09       RAN#65       R5s140531       2198       -       Correction to GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1/7.1.3.11.2       11.4.0       1         2014-09       RAN#65       R5s140533       2199       -       Correction to EUTRA MDT test Case 8.6.2.3       11.4.0       1	1.5.0
2014-09   RAN#65   R5s140531   2198   -	1.5.0
case 7.1.3.11.1/7.1.3.11.2   2014-09   RAN#65   R5s140533   2199   -	1.5.0
2014-09 RAN#65 R5s140533 2199 - Correction to EUTRA MDT test Case 8.6.2.3 11.4.0 1	1.5.0
2014-09 RAN#65 R5s140534 2200 - Correction of LTE-A Minimization of Drive Tests (MDT) Test case 11.4.0 1	1.5.0
8.6.2.8	1.5.0
2014-09 RAN#65 R5s140535 2201 - Correction to GCF WI-181 EUTRA EPS FDD <>UTRAN test Case 11.4.0 1 8.6.5.1	1.5.0
2014-09 RAN#65 R5s140537 2202 - Correction of GCF WI-182 EUTRA FDD<>GERAN test case 8.6.7.2 11.4.0 1	1.5.0
2014-09 RAN#65 R5s140539 2203 - Correction to EUTRA eMBMS function f_EUTRA_SetSysinfoCombination_MBMS	1.5.0
2014-09 RAN#65 R5s140540 2204 - Correction to UE Test Loop Mode C for EUTRA eMBMS Testcases 11.4.0 1	1.5.0
2014-09 RAN#65 R5s140541 2205 - Corrections of GCF WI-162 LTE-A CA Testcase 8.2.2.3.x for Band 11.4.0 1	1.5.0
2014-09 RAN#65 R5s140543 2206 - Correction of EUTRA RRC Measurement test case 8.3.1.27 11.4.0 1	1.5.0
2014-09 RAN#65 R5s140544 2207 - Correction to EUTRA RRC Measurement test case 8.3.3.3 11.4.0	1.5.0
2014-09 RAN#65 R5s140545 2208 - Correction to GCF WI-082 EUTRA RRC handover test cases 11.4.0 1 8.4.1.2 and 8.4.1.4	1.5.0

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2014-09	RAN#65	R5s140546	2209	-	LTE_TDD : Correction in RRC test case 8.4.1.5 in LTE_TDD<>TDSCDMA path	11.4.0	11.5.0
2014-09	RAN#65	R5s140547	2210	-	Correction to GCF WI-081 EUTRA Idle mode test Case 6.1.1.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140548	2211	-	Correction of test cases 7.1.4.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140549	2212	-	Correction to GCF WI-086 EMM test case 9.2.3.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140550	2213	-	Correction to EUTRA Idle Mode HeNB test case 6.4.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140552	2214	-	Correction to UTRAN postamble function f_UTRAN_Postamble	11.4.0	11.5.0
2014-09	RAN#65	R5s140554	2215	-	Correction for GCF WI-086 EUTRA EMM Test case 9.2.3.1.6	11.4.0	11.5.0
2014-09	RAN#65	R5s140555	2216	-	Correction in common function f_GERAN_GPRSAttach()	11.4.0	11.5.0
2014-09	RAN#65	R5s140556	2217	-	Correction of GCF WI-086 EUTRA<>UTRAN CSG test case 6.3.7	11.4.0	11.5.0
2014-09	RAN#65	R5s140557	2218	-	Correction to EUTRA Idle Mode MFBI test Case 6.1.2.21	11.4.0	11.5.0
2014-09	RAN#65	R5s140560	2219	-	Correction to EMM test case 9.2.1.1.28	11.4.0	11.5.0
2014-09	RAN#65	R5s140562	2220	-	Correction to EUTRA RRC HeNB test case 8.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140563	2221	-	Correction to EUTRA RRC HeNB test case 8.3.4.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140564	2222	-	Correction to EUTRA-UTRAN Multi-Layer SRVCC test case 13.4.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140568	2223	-	Correction to EMM test case 9.2.3.1.20a	11.4.0	11.5.0
2014-09	RAN#65	R5s140570	2224	-	Correction to IMS Emergency Call over EPS test case 11.2.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140572	2225	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.14	11.4.0	11.5.0
2014-09	RAN#65	R5s140573	2226	-	Correction for GCF WI-086 EUTRA<>UTRA SRVCC Testcase 13.4.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140574	2227	-	Correction to Multi-layer test case 13.1.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140575	2228	-	LTE_TDD: Addition of WI-162 LTE-A Carrier Aggregation MAC test case 7.1.3.11.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140578	2229	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140579	2230	-	Correction for GCF WI-086 EUTRA<>UTRA SRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140582	2231	-	Correction for GCF WI-087 EUTRA<>GERAN SRVCC Testcase 13.4.3.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140583	2232	-	Correction for GCF WI-167 EUTRA<>UTRA SRVCC Testcase 13.4.3.6	11.4.0	11.5.0
2014-09	RAN#65	R5s140584	2233	-	Correction of GERAN Common function fl_GERAN_TLLI_Update	11.4.0	11.5.0
2014-09	RAN#65	R5s140585	2234	-	Correction to EUTRA eMBMS test case 17.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140586	2235	-	Correction to EUTRA Idle Mode MFBI test Case 6.1.2.20	11.4.0	11.5.0
2014-09	RAN#65	R5s140587	2236	-	Correction for aSRVCC test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140588	2237	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case 11.2.8	11.4.0	11.5.0
2014-09	RAN#65	R5s140589	2238	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140590	2239	-	13.4.3.7 Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.9	11.4.0	11.5.0
2014-09	RAN#65	R5s140591	2240	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase 13.4.3.10	11.4.0	11.5.0
2014-09	RAN#65	R5s140592	2241	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140593	2242	-	13.4.3.11 Correction to EUTRA RRC MDT test case 8.6.6.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140594	2243	-	Correction to EUTRA RRC HeNB test case 8.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140595	2244	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140596	2245	-	13.4.3.13  Correction to EMM test case 9.2.1.1.28	11.4.0	11.5.0
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2014-09	RAN#65	R5s140601	2246	-	Correction to EUTRA RRC test cases 8.2.4.14 and 8.2.4.14a	11.4.0	11.5.0
2014-09	RAN#65	R5s140604	2247	-	Correction for GCF WI-172 EUTRA<>UTRA aSRVCC Testcase	11.4.0	11.5.0
2014-09	RAN#65	R5s140607	2248	-	LTE_TDD : Correction to EUTRAN TDD eMBMS TC 17.1.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140608	2249	-	_	11.4.0	11.5.0
2014-09	RAN#65	R5s140609	2250	-	test cases Correction to EUTRAN eMBMS TC 17.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140610	2251	-	Correction to EUTRA eMBMS function	11.4.0	11.5.0
2014-09	RAN#65	R5s140617		  -	f_EUTRA_SetSysinfoCombination_MBMS  Correction to EUTRA Idle mode test case 6.2.3.23		11.5.0
2014-09	RAN#65	R5s140618			Corrections for SS configuration in IMS voice call test cases	11.4.0	
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2014-09	RAN#65	R5s140619		-	Correction to EUTRA RRC MDT test case 8.6.7.1		11.5.0
2014-09	RAN#65	R5s140620		-	Corrections for multilayer EUTRA->GERAN SRVCC test case 13.4.3.3	11.4.0	
2014-09	RAN#65	R5s140624	2256	-	Correction to LTE-A Carrier Aggregation MAC test cases 7.1.3.11.1/7.1.3.11.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140625	2257	-	Correction to GCF WI-088 EUTRA<>1xRTT Test case 8.3.2.10	11.4.0	11.5.0
2014-09	RAN#65	R5s140626	2258	-	Correction to LTE-A Minimization of Drive Tests (MDT) test case 8.6.4.6	11.4.0	11.5.0
2014-09	RAN#65	R5s140627	2259	-		11.4.0	11.5.0
2014-09	RAN#65	R5s140635	2260	-	Correction to multilayer aSRVCC test 13.4.3.15	11.4.0	11.5.0
2014-09	RAN#65	R5s140636	2261	-	Correction to GCF WI-151 EUTRA RRC test cases 8.2.4.14a and 8.3.1.16a	11.4.0	11.5.0
2014-09	RAN#65	R5s140643	2262	-	Correction to GCF WI-081 EUTRA RRC Test Case 8.5.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140648	2263	-	Correction to GCF WI-087 EUTRA Idle mode Test Case 6.2.3.28	11.4.0	11.5.0
2014-09	RAN#65	R5s140649	2264	-	Corrections to GCF WI-154 IMS Emergency Call test case 11.2.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140650	2265	-	Correction to GCF WI-086 EUTRA EMM Testcase 9.2.3.2.1b	11.4.0	11.5.0
2014-09	RAN#65	R5s140651	2266	-	Correction of GCF WI-082 EUTRA EMM Testcase 9.1.5.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140657	2267	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.5	11.4.0	11.5.0
2014-09	RAN#65	R5s140658	2268	-	Correction to WI-086 EUTRA EMM Testcase 9.2.3.3.4	11.4.0	11.5.0
2014-09	RAN#65	R5s140659	2269	-	Correction to GCF WI-086 EUTRA Multilayer Test case 13.4.2.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140660	2270	-	Correction to WI-086 EUTRA EMM Testcase 9.2.3.3.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140664	2271	-	Correction to EUTRA RRC test cases 8.2.4.14a, 8.2.4.15, 8.3.1.16a	11.4.0	11.5.0
2014-09	RAN#65	R5s140670	2272	-	Correction to EUTRA RRC HeNB Testcase 8.3.4.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140671	2273	-	Correction to LTE-A Carrier Aggregation Handover test cases	11.4.0	11.5.0
2014-09	RAN#65	R5s140674	2274	-	8.2.4.21.x  Correction to GCF WI-87 Multi-Layer SRVCC test cases 13.4.3.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140675	2275	-	and 13.4.3.5  Corrections to GCF WI-154 IMS Emergency Call test cases 11.2.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140677		-	and 11.2.4  Corrections to GCF WI-087 EUTRA<>GERAN SRVCC test case		11.5.0
2014-09	RAN#65	R5s140679		-	13.4.3.3  Correction to GCF WI-81 EUTRA MIMO test cases 7.1.7.1.5 and	11.4.0	
2014-09	RAN#65	R5s140680			7.1.7.1.6 for CAT-6 and higher categories  Correction to GCF WI-81 EUTRA MIMO Testcase 7.1.7.2.1 for	11.4.0	
				[	CAT-6 and higher categories		
2014-09	RAN#65	R5s140682		-	LTE TDD : Addition of MAC test case 7.1.4.2		11.5.0
2014-09	RAN#65	R5s140684		-	LTE_TDD : Addition of Idle mode test case 6.3.5		11.5.0
2014-09	RAN#65	R5s140686		-	Addition of GCF WI-172 multilayer aSRVCC test case 13.4.3.8		11.5.0
2014-09	RAN#65	R5s140688	2282	-	LTE_TDD: Correction to RRC Testcase 8.1.3.7 in LTE_TDD<>TDSCDMA path	11.4.0	11.5.0

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2014-09	RAN#65	R5s140689	2283	-	LTE_TDD : Addition of EUTRA RRC HeNB test case 8.3.4.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140691	2284	-	Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.9.1.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140693	2285	-	Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.9.1.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140697	2286	-	Addition of multilayer aSRVCC test case 13.4.3.24	11.4.0	11.5.0
2014-09	RAN#65	R5s140699	2287	-	Addition of multilayer aSRVCC test case 13.4.3.26	11.4.0	11.5.0
2014-09	RAN#65	R5s140701	2288	-	Corrections to EMM test case 9.2.3.1.6 on EUTRA<>GERAN path	11.4.0	11.5.0
2014-09	RAN#65	R5s140702	2289	-	Correction to EUTRA RRC InterRAT measurement on HRPD test case 8.3.2.8	11.4.0	11.5.0
2014-09	RAN#65	R5s140703	2290	-	Addition of multilayer aSRVCC test case 13.4.3.27	11.4.0	11.5.0
2014-09	RAN#65	R5s140705	2291	-	Addition of multilayer aSRVCC test case 13.4.3.28	11.4.0	11.5.0
2014-09	RAN#65	R5s140707	2292	-	Correction to function f_ConfigureULGrant_MaxTBSupported	11.4.0	11.5.0
2014-09	RAN#65	R5s140710	2293	-	Correction to SRVCC test case 13.4.3.2	11.4.0	11.5.0
2014-09	RAN#65	R5s140711	2294	-	Addition of multilayer aSRVCC test case 13.4.3.25	11.4.0	11.5.0
2014-09	RAN#65	R5s140714	2295	-	Addition of multilayer aSRVCC test case 13.4.3.30	11.4.0	11.5.0
2014-09	RAN#65	R5s140716	2296	-	Addition of Rel-9 EUTRA<>UTRA Idle Mode HeNB test case 6.4.6	11.4.0	11.5.0
2014-09	RAN#65	R5s140720	2297	-	Corrections to EUTRA PDCP test case 7.3.4.1,7.3.4.2 and 7.3.4.3	11.4.0	11.5.0
2014-09	RAN#65	R5s140721	2298	-	Addition of Rel-10 EUTRA RRC elClC test case 8.3.1.19	11.4.0	11.5.0
2014-09	RAN#65	R5s140723	2299	-	LTE_TDD: Addition of GCF WI-162 LTE-A Carrier Aggregation MAC test case 7.1.9.1.1	11.4.0	11.5.0
2014-09	RAN#65	R5s140725	2300	-	Addition of GCF WI-086 EUTRA Idle Mode HeNB test case 6.3.4	11.4.0	11.5.0
2014-12	RAN#66	R5-145713	2302	-	Harmonization of CA terminology (36.523-3)	11.5.0	11.6.0
2014-12	RAN#66	R5-145754	2304	-	Routine maintenance and updates	11.5.0	11.6.0
2014-12	RAN#66	R5s140672	2305	-	Correction to SRS config dedicated for EUTRA Testcases	11.5.0	11.6.0
2014-12	RAN#66	R5s140708	2306	-	Addition of GCF WI-154 IMS Emergency Call over EPS test case 11.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s140728	2307	-	Correction to fl_EUTRA_RRC_Procedure_Latency	11.5.0	11.6.0
2014-12	RAN#66	R5s140729	2308	-	Correction to EUTRA Idle Mode HeNB test case 6.4.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140730	2309	-	Corrections to EUTRA->GERAN SRVCC test cases	11.5.0	11.6.0
2014-12	RAN#66	R5s140731	2310	-	Addition of IMS emergency call test case 11.2.10	11.5.0	11.6.0
2014-12	RAN#66	R5s140733	2311	-	Addition of LTE Advanced bSRVCC test case 13.4.3.18	11.5.0	11.6.0
2014-12	RAN#66	R5s140735	2312	-	Addition of LTE Advanced bSRVCC test case 13.4.3.20	11.5.0	11.6.0
2014-12	RAN#66	R5s140737	2313	-	Addition of LTE Advanced bSRVCC test case 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s140741	2314	-	Addition of Rel-10 MDT test case 8.6.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s140743	2315	-	Addition of Rel-10 MDT test case 8.6.6.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140745	2316	-	Addition of EUTRA-UTRAN Rel-9 Home eNB test case 6.4.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140747	2317	-	Addition of LTE Advanced bSRVCC test case 13.4.3.21	11.5.0	11.6.0
2014-12	RAN#66	R5s140749	2318	-	Correction to GCF WI-086 EUTRA RRC Testcase 8.3.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140750	2319	-	Addition of multilayer bSRVCC test case 13.4.3.19	11.5.0	11.6.0
2014-12	RAN#66	R5s140752	2320	-	Addition of multilayer bSRVCC test case 13.4.3.22	11.5.0	11.6.0
2014-12	RAN#66	R5s140754	2321	-	Correction to EUTRA Idle Mode test case 6.1.1.3a	11.5.0	11.6.0

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2014-12	RAN#66	R5s140757	2322	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140759	2323	-	17.4.1 Addition of GCF WI-178 LTE Advanced eMBMS-SC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140761	2324	-	17.4.1a Addition of GCF WI-178 LTE Advanced eMBMS-SC test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140763	2325	-	17.4.5 LTE_TDD: Addition of Rel-10 MDT test case 8.6.3.1	11.5.0	11.6.0
2014-12	RAN#66	R5s140765	2326	-	LTE_TDD: Addition of Rel-10 MDT test case 8.6.4.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140767	2327	-	LTE_TDD: Addition of GCF WI-183 Rel-10 MDT test case 8.6.5.1	11.5.0	11.6.0
2014-12	RAN#66	R5s140771	2328	-	Correction to EUTRA RSRQ testcases 6.1.2.17, 6.1.2.18, 6.1.2.2a,	11.5.0	11.6.0
2014-12	RAN#66	R5s140772	2329	-	6.1.2.3a, 8.3.1.25, 8.3.1.27 and 8.3.1.3a Correction to GCF WI-150 MFBI test case 6.1.2.20	11.5.0	11.6.0
2014-12	RAN#66	R5s140774	2330	-	Correction to comments tag in f_TC_8_1_3_12a_EUTRA()	11.5.0	11.6.0
2014-12	RAN#66	R5s140775	2331	-	Correction of GCF WI-162 LTE-A Carrier Aggregation test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140776	2332	-	8.4.2.7.1 and 8.4.2.7.2 in Band29  Correction to EUTRA HomeNB testcase 6.4.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140778	2333	-	Correction to IE "TMSI Based NRI Container"	11.5.0	11.6.0
2014-12	RAN#66	R5s140781	2334	-	Correction to EUTRA-UTRAN Idle Mode HeNB test case 6.4.6	11.5.0	11.6.0
2014-12	RAN#66	R5s140787	2335	-	Correction to GCF WI-156 EUTRA RRC testcase 8.1.3.11	11.5.0	11.6.0
2014-12	RAN#66	R5s140790	2336	-	Corrections to EUTRA RRC test case 8.1.2.12	11.5.0	11.6.0
2014-12	RAN#66	R5s140792	2337	-	Corrections to IMS Emergency Call test case 11.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140793	2338	-	Correction to GCF WI-086 RRC Test Case 8.3.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140794	2339	-	LTE_TDD : Addition of Rel-10 elClC test case 8.3.1.19	11.5.0	11.6.0
2014-12	RAN#66	R5s140798	2340	-	Correction to GCF WI-154 IMS Emergency call Testcase 8.1.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s140799	2341	-	Correction to EUTRA Idle Mode HeNB test case 6.4.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140804	2342	-	Addition of GCF WI-159 Pre-registration at 1xRTT testcase 13.4.4.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140806	2343	-	Addition of GCF WI-159 EUTRA<>1xRTT Testcase 8.4.7.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140808	2344	-	Addition of GCF WI-159 EUTRA<>1xRTT Testcase 8.4.7.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140810	2345	-	Addition of GCF WI-159 EUTRA<>1xRTT Testcase 8.4.7.10	11.5.0	11.6.0
2014-12	RAN#66	R5s140812	2346	-	Correction to EMM test case 9.2.1.1.28	11.5.0	11.6.0
2014-12	RAN#66	R5s140814	2347	-	LTE_TDD : Addition of Rel-10 eICIC test case 8.3.1.21	11.5.0	11.6.0
2014-12	RAN#66	R5s140816	2348	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140818	2349	-	LTE_TDD: Addition of LTE-A additional special subframe configuration test case 7.1.3.12	11.5.0	11.6.0
2014-12	RAN#66	R5s140821	2350	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140823	2351	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.3a	11.5.0	11.6.0
2014-12	RAN#66	R5s140825	2352	-	LTE_TDD : Addition of EUTRA Idle mode test case 6.2.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s140827	2353	-	LTE_TDD : Addition of Idle mode test case 6.2.3.24	11.5.0	11.6.0
2014-12	RAN#66	R5s140829	2354	-	Correction to EUTRA RRC test case 8.2.4.15a	11.5.0	11.6.0
2014-12	RAN#66	R5s140830	2355	-	LTE_TDD : Addition of EUTRA<>UTRAN Rel-9 HeNB test case 6.4.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140832	2356	-	Correction to GCF WI-086 EMM Test Case 9.2.3.3.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140833	2357	-	Correction to GCF WI-162 EUTRA RRC test case 8.2.4.20.X	11.5.0	11.6.0
2014-12	RAN#66	R5s140834	2358	-	Correction to function f_EUTRA_InitSystemInformation5	11.5.0	11.6.0

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2014-12	RAN#66	R5s140835	2359	-	Correction to GCF WI-172 EUTRA<>UTRA aSRVCC Testcases 13.4.3.9, 13.4.3.11, 13.4.3.16 and 13.4.3.14	11.5.0	11.6.0
2014-12	RAN#66	R5s140836	2360	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140838	2361	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.6	11.5.0	11.6.0
2014-12	RAN#66	R5s140840	2362	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140842	2363	-	Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.2a	11.5.0	11.6.0
2014-12	RAN#66	R5s140845	2364	-	Correction to GCF WI-086 EUTRA RRC test case 8.3.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140846	2365	-	Correction to GCF WI-154 IMS emergency call test case 11.2.10	11.5.0	11.6.0
2014-12	RAN#66	R5s140847	2366	-	Correction to GCF WI-154 IMS Emergency Call over EPS test case 11.2.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140848	2367	-	Correction to GCF WI-081 EUTRA RRC test case 8.1.1.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140849	2368	-	Correction to CA / RRC connection reconfiguration tests 8.4.2.7.X	11.5.0	11.6.0
2014-12	RAN#66	R5s140851	2369	-	LTE_TDD : Addition of EUTRA eMBMS test case 17.2.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140853	2370	-	Correction to GCF WI-086 EUTRA EMM test cases 9.2.1.2.1b and 9.2.1.2.1c	11.5.0	11.6.0
2014-12	RAN#66	R5s140854	2371	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140857	2372	-	Correction to EUTRA RRC handover Test Cases 8.4.1.2, 8.4.1.4, 8.4.1.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140858	2373	-	Correction of f_EUTRA_508Check_TrackingAreaUpdating_AfterHO and f_UTRAN_GMM_RAU functions.	11.5.0	11.6.0
2014-12	RAN#66	R5s140860	2374	-	LTE_TDD: Addition of Rel-11 LTE-A eMBMS-SC test case 17.4.4	11.5.0	11.6.0
2014-12	RAN#66	R5s140862	2375	-	LTE_TDD : Addition of LTE-A eMBMS-SC test case 17.4.6	11.5.0	11.6.0
2014-12	RAN#66	R5s140864	2376	-	LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140866	2377	-	LTE_TDD : Addition of LTE-A eMBMS-SC test case 17.4.8	11.5.0	11.6.0
2014-12	RAN#66	R5s140868	2378	-	LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140870	2379	-	LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test case 17.4.3a	11.5.0	11.6.0
2014-12	RAN#66	R5s140873	2380	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.1 and 11.2.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140874	2381	-	Correction to GCF WI-154 IMS Emergency Call test case 8.1.2.12	11.5.0	11.6.0
2014-12	RAN#66	R5s140875	2382	-	Correction to GCF WI-082 EUTRA RRC handover test cases 8.4.1.2, 8.4.1.4, 8.4.1.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140876	2383	-	Correction to common function f_GERAN_508CheckCampOnNewGeranCell()	11.5.0	11.6.0
2014-12	RAN#66	R5s140892	2384	-	Corrections to GCF WI-086 EMM Test cases 9.2.3.3.2 and 9.2.3.3.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140893	2385	-	Correction to GCF WI-162 EUTRA MAC CA Test cases 7.1.9.1.x	11.5.0	11.6.0
2014-12	RAN#66	R5s140894	2386	-	Correction to common function f_AuthenticationInit()	11.5.0	11.6.0
2014-12	RAN#66	R5s140898	2387	-	Correction for GCF WI-087 multilayer SRVCC test case 13.4.3.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140899	2388	-	Correction for GCF WI-087 multilayer SRVCC test case 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140900	2389	-	Correction for template cr_AUTHENTICATION_FAIL_Any	11.5.0	11.6.0
2014-12	RAN#66	R5s140901	2390	-	Correction to GCF WI-086 EUTRA<>UTRA SRVCC testcases 13.4.3.4 and 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140902	2391	-	Correction to GCF WI-172 EUTRA<>UTRA aSRVCC testcases 13.4.3.9 and 13.4.3.11	11.5.0	11.6.0
2014-12	RAN#66	R5s140903	2392	-	Correction to EUTRA bSRVCC testcases 13.4.3.20 and 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s140904	2393	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcases 13.4.3.26 and 13.4.3.28	11.5.0	11.6.0
2014-12	RAN#66	R5s140906	2394	-	Correction to GCF WI-159 Pre-registration at 1xRTT testcase 13.4.4.1	11.5.0	11.6.0

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2014-12	RAN#66	R5s140907	2395	-	Addition of LTE test case 9.1.2.7	11.5.0	11.6.0
2014-12	RAN#66	R5s140910	2396	-	Correction to template cr MeasResultNeighCells measResultListUTRA 2Entries FDD	11.5.0	11.6.0
2014-12	RAN#66	R5s140913	2397	-	Correction to GCF WI-082 EMM test case 9.1.5.1	11.5.0	11.6.0
2014-12	RAN#66	R5s140915	2398	-	Correction to eMBMS Rel-9 test case 17.1.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140917	2399	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcases	11.5.0	11.6.0
2014-12	RAN#66	R5s140918	2400	-	13.4.3.26 Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcases	11.5.0	11.6.0
2014-12	RAN#66	R5s140921	2401	-	13.4.3.28 Correction to WI-086 EUTRA Multi-layer test case 13.1.3	11.5.0	11.6.0
2014-12	RAN#66	R5s140922	2402	-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140924	2403	-	8.2.2.4.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140926	2404	-	8.2.2.5.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140928	2405	-	8.2.4.18.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140930	2406	-	8.2.4.21.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140932	2407	_	8.3.1.22.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140936	2408	-	8.5.1.7.2  Correction to the function f_GERAN_LLC_XIDReset()	11.5.0	11.6.0
2014-12	RAN#66	R5s140937	2409	-	LTE TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	11.6.0
2014-12	RAN#66	R5s140939		_	8.2.2.3.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case		11.6.0
2014-12	RAN#66	R5s140941		_	8.2.4.17.2 LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case		11.6.0
2014-12	RAN#66	R5s140943			8.2.4.19.2  LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case		11.6.0
2014-12	RAN#66	R5s140945			8.2.4.20.2  LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case	11.5.0	
				_	8.3.1.17.2		
2014-12	RAN#66	R5s140947		-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA test case 8.3.1.18.2	11.5.0	
2014-12	RAN#66	R5s140949		-	Corrections for GCF WI-154 IMS Emergency Call test case 11.2.11		11.6.0
2014-12	RAN#66	R5s140950		-	Correction to aSRVCC test cases 13.4.3.x	11.5.0	
2014-12	RAN#66	R5s140951		-	<u> </u>	11.5.0	
2014-12	RAN#66	R5s140952		-	LTE_TDD : Addition of bSRVCC EUTRA<>GERAN testcase 13.4.3.22	11.5.0	
2014-12	RAN#66	R5s140954	2419	-	LTE_TDD : Addition of aSRVCC EUTRA<>GERAN testcase 13.4.3.24		11.6.0
2014-12	RAN#66	R5s140956	2420	-	LTE_TDD : Addition of aSRVCC EUTRA<>GERAN testcase 13.4.3.27	11.5.0	11.6.0
2014-12	RAN#66	R5s140961	2421	-	Corrections for GCF WI-154 IMS Emergency Call test case 11.2.10	11.5.0	11.6.0
2014-12	RAN#66	R5s140962	2422	-	Correction for multilayer bSRVCC test cases	11.5.0	11.6.0
2014-12	RAN#66	R5s140964	2423	-	Correction in common function f_GERAN_GPRSAttach()	11.5.0	11.6.0
2014-12	RAN#66	R5s140965	2424	-	Correction for GCF WI-154 IMS Emergency Call test case 11.2.5	11.5.0	11.6.0
2014-12	RAN#66	R5s140978	2425	-	LTE_TDD: Addition of GCF WI-162 LTE-A Interband CA Inter-RAT test case 8.4.2.7.2	11.5.0	11.6.0
2014-12	RAN#66	R5s140985	2426	-	LTE_TDD : Addition of EUTRA<>GERAN aSRVCC testcase 13.4.3.25 in TDD	11.5.0	11.6.0
2014-12	RAN#66	R5s140987	2427	-	LTE_TDD: Addition of GCF WI-172 LTE-GERAN aSRVCC test case 13.4.3.30	11.5.0	11.6.0
2014-12	RAN#66	R5s140995	2428	-	Addition of EMM test case 9.2.1.1.30	11.5.0	11.6.0
2014-12	RAN#66	R5s140998	2429	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.1.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141000	2430	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.2.9	11.5.0	11.6.0

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2014-12	RAN#66	R5s141002	2431	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141004	2432	-	LTE_TDD : Addition of Rel-10 MDT test case 8.6.6.4	11.5.0	11.6.0
2014-12	RAN#66	R5s141006	2433	-	Corrections for GCF WI-086 EUTRA<>GERAN SRVCC test cases 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141007	2434	-	Corrections to multilayer SRVCC test case 13.4.3.22	11.5.0	11.6.0
2014-12	RAN#66	R5s141008	2435	-	Correction to EUTRA<>GERAN bSRVCC test cases 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s141009	2436	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC test cases 13.4.3.26	11.5.0	11.6.0
2014-12	RAN#66	R5s141010	2437	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC test cases 13.4.3.28	11.5.0	11.6.0
2014-12	RAN#66	R5s141014	2438	-	Addition of LTE-A Rel-11 felCIC test case 8.2.2.8	11.5.0	11.6.0
2014-12	RAN#66	R5s141016	2439	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.5.4.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141018	2440	-	Addition of GCF WI-178 LTE-A eMBMS-SC test case 17.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141021	2441	-	Correction to GCF WI-154 IMS Emergency Call test case 11.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s141022	2442	-	Correction to EUTRA bSRVCC testcase 13.4.3.23	11.5.0	11.6.0
2014-12	RAN#66	R5s141023	2443	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcase 13.4.3.26 and 13.4.3.28	11.5.0	11.6.0
2014-12	RAN#66	R5s141024	2444	-	LTE_TDD: Addition of GCF WI-87 LTE-GERAN SRVCC test case 13.4.3.3	11.5.0	11.6.0
2014-12	RAN#66	R5s141026	2445	-	LTE_TDD: Addition of GCF WI-87 LTE-GERAN SRVCC test case 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141028	2446	-		11.5.0	11.6.0
2014-12	RAN#66	R5s141030	2447	-	LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test case 13.4.3.9	11.5.0	11.6.0
2014-12	RAN#66	R5s141032	2448	-	LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test case 13.4.3.11	11.5.0	11.6.0
2014-12	RAN#66	R5s141034	2449	-	LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test case 13.4.3.13	11.5.0	11.6.0
2014-12	RAN#66	R5s141036	2450	-	LTE_TDD: Addition of GCF WI-172 LTE-UTRAN aSRVCC test case 13.4.3.15	11.5.0	11.6.0
2014-12	RAN#66	R5s141038	2451	-	LTE_TDD: Addition of LTE-UTRAN bSRVCC test case 13.4.3.19	11.5.0	11.6.0
2014-12	RAN#66	R5s141040	2452	-	LTE_TDD: Addition of LTE-UTRAN bSRVCC test case 13.4.3.20	11.5.0	11.6.0
2014-12	RAN#66	R5s141043	2453	-	LTE_TDD : Addition of Rel-11 LTE-A eMBMS-SC test case 17.4.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141045	2454	-	Correction to eMBMS test cases 17.1.3	11.5.0	11.6.0
2014-12	RAN#66	R5s141046	2455	-	LTE_TDD : Addition of LTE Advanced Rel-11 eMBMS-SC test case 17.4.2	11.5.0	11.6.0
2014-12	RAN#66	R5s141048	2456	-	LTE_TDD : Addition of LTE Advanced Rel-11 eMBMS-SC test case 17.4.2a	11.5.0	11.6.0
2014-12	RAN#66	R5s141057	2457	-	LTE_TDD : Addition of EUTRA<>GERAN bSRVCC testcase	11.5.0	11.6.0
2014-12	RAN#66	R5s141060	2458	-	LTE_TDD: Addition of LTE-GERAN bSRVCC test case 13.4.3.21	11.5.0	11.6.0
2014-12	RAN#66	R5s141099	2459	-	LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC testcase 13.4.3.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141101	2460	-	LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC testcase 13.4.3.8	11.5.0	11.6.0
2014-12	RAN#66	R5s141103	2461	-	LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC testcase 13.4.3.10	11.5.0	11.6.0
2014-12	RAN#66	R5s141105	2462	-	LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC	11.5.0	11.6.0
2014-12	RAN#66	R5s141107	2463	-	testcase 13.4.3.14  LTE TDD/UTRA FDD:Addition of EUTRA<>UTRA aSRVCC	11.5.0	11.6.0
2014-12	RAN#66	R5s141109	2464	-	testcase 13.4.3.16  LTE_TDD: Addition of GCF WI-178 LTE Advanced eMBMS-SC test	11.5.0	11.6.0
2014-12	RAN#66	R5s141111	2465	-	case 17.4.1  LTE_TDD : Addition of LTE-A eMBMS-SC test case 17.4.1a	11.5.0	11.6.0
2014-12	RAN#66	R5s141132	2466	-	Correction of GCF WI-162 LTE-A Carrier Aggregation test case 8.4.2.7.1 and 8.4.2.7.2 in Band29	11.5.0	11.6.0

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2014-12	RAN#66	R5s141137	2467	-	Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141145	2468	-	Corrections for 2nd PDN handling in 36.523-3 test model	11.5.0	11.6.0
2014-12	RAN#66	R5s141146	2469	-	Corrections to GCF WI-172 EUTRA aSRVCC<>GERAN test case 13.4.3.30	11.5.0	11.6.0
2014-12	RAN#66	R5s141149	2470	-	Correction to the Multiple PDN handling during initial registration	11.5.0	11.6.0
2014-12	RAN#66	R5s141157	2471	-	Correction of GCF WI-086 EUTRA<>UTRA SRVCC test case 13.4.3.2	11.5.0	11.6.0
2014-12	RAN#66	R5s141158	2472	-	Correction to GERAN postamble function f_GERAN_SwitchPowerOff()	11.5.0	11.6.0
2014-12	RAN#66	R5s141160	2473	-	Correction to Rel-11 eMBMS-SC test cases 17.4.1 + 17.4.1a	11.5.0	11.6.0
2014-12	RAN#66	R5s141161	2474	-	Correction to GCF WI-179 EUTRA NIMTC test case 10.5.4	11.5.0	11.6.0
2014-12	RAN#66	R5s141164	2475	-	Correction to f_UTRAN_CellInfo_SetPLMNIdentity for Band VI	11.5.0	11.6.0
2014-12	RAN#66	R5s141165	2476	-	LTE_TDD: Addition of Rel-11 LTE-A felCIC test case 8.2.2.8	11.5.0	11.6.0
2014-12	RAN#66	R5s141167	2477	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141169	2478	-	LTE_TDD : Addition of Rel-11 LTE-A eMDT test case 8.6.8.1	11.5.0	11.6.0
2014-12	RAN#66	R5s141171	2479	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.2	11.5.0	11.6.0
2014-12	RAN#66	R5s141173	2480	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.2	11.5.0	11.6.0
2014-12	RAN#66	R5s141175	2481	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.3	11.5.0	11.6.0
2014-12	RAN#66	R5s141177	2482	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.3	11.5.0	11.6.0
2014-12	RAN#66	R5s141179	2483	-	Addition of Rel-11 LTE-A eMDT test case 8.6.2.3a	11.5.0	11.6.0
2014-12	RAN#66	R5s141182	2484	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.2.3a	11.5.0	11.6.0
2014-12	RAN#66	R5s141189	2485	-	Addition of Rel-11 LTE-A eMDT test case 8.6.6.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141191	2486	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.6.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141193	2487	-	Addition of Rel-11 LTE-A eMDT test case 8.6.6.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141195	2488	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.6.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141203	2489	-	Correction to function fl_CheckTimingInfoOneTTI	11.5.0	11.6.0
2014-12	RAN#66	R5s141204	2490	-	Correction to the template cs_UE_CapabilityEnqAll	11.5.0	11.6.0
2014-12	RAN#66	R5s141205	2491	-	Correction to EUTRA SRVCC Testcases 13.4.3.4 and 13.4.3.5	11.5.0	11.6.0
2014-12	RAN#66	R5s141206	2492	-	Correction to GCF WI-154 IMS Emergency TCs 8.1.2.11	11.5.0	11.6.0
2014-12	RAN#66	R5s141211	2493	-	Correction to GCF WI-082 EMM test case 9.2.1.1.7	11.5.0	11.6.0
2014-12	RAN#66	R5s141213	2494	-	LTE_TDD: Correction to WI-091 testcase 8.2.1.5 and 8.2.1.6	11.5.0	11.6.0
2014-12	RAN#66	R5s141214	2495	-	Addition of GCF WI-179 EUTRA NIMTC Testcase 6.1.1.7a	11.5.0	11.6.0
2014-12	RAN#66	R5s141218	2496	-	Correction to SRVCC and aSRVCC failure test cases	11.5.0	11.6.0
2014-12	RAN#66	R5s141220	2497	-	Correction to f_UTRAN_UE_CapabilityInformation() function	11.5.0	11.6.0
2014-12	RAN#66	R5-145714	2303	-	Band 30: Guidance on test execution	11.6.0	12.0.0
2014-12	RAN#66	RP-142065	2498	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	11.6.0	12.0.0
2015-03	RAN#67	R5-150123	2499	-	cases in the TC lists in 36.523-3 (prose), Annex A  Routine maintenance for TS 36.523-3	12.0.0	12.1.0
2015-03	RAN#67	R5-150356	2500	-	rSRVCC Test Model	12.0.0	12.1.0
2015-03	RAN#67	RP-150334	2625	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	12.0.0	12.1.0
2015-03	RAN#67	R5s140966	2501	-	cases in the TC lists in 36.523-3 (prose), Annex A Correction to GCF WI-177 EUTRA MDT Test cases 8.6.4.5	12.0.0	12.1.0

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2015-03	RAN#67	R5s141159	2502	-	Correction to test case 9.1.5.1, function fl_TC_9_1_5_1_Body() in NAS_EMMInformation.ttcn	12.0.0	12.1.0
2015-03	RAN#67	R5s141198	2503	-	Addition of Rel-11 LTE-A eMDT test case 8.6.4.8	12.0.0	12.1.0
2015-03	RAN#67	R5s141200	2504	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.4.8	12.0.0	12.1.0
2015-03	RAN#67	R5s141219	2505	-	Corrrection to function f_GERAN_CreatePhyCombinedCellControlCh	12.0.0	12.1.0
2015-03	RAN#67	R5s141228	2506	-	Addition of Rel-11 EUTRA RRC eMDT test case 8.6.2.10	12.0.0	12.1.0
2015-03	RAN#67	R5s141230	2507	-	LTE_TDD: Addition of Rel-11 EUTRA RRC eMDT test case 8.6.2.10	12.0.0	12.1.0
2015-03	RAN#67	R5s141233	2508	-	Addition of GCF WI-162 EUTRA RRC Carrier Aggregation test case 8.2.4.16.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141235	2509	-	Addition of GCF WI-162 LTE-A Carrier Aggregation RRC test case 8.2.4.16.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141239	2510	-	LTE_TDD: Addition of GCF WI-191 LTE-A additional special subframe configuration test case 7.1.3.13	12.0.0	12.1.0
2015-03	RAN#67	R5s141241	2511	-	Correction to common function  f_GetTestcaseAttrib_DICcchMsgInSeparateMacPdu() for eMDT  test cases	12.0.0	12.1.0
2015-03	RAN#67	R5s141245	2512	-	Addition of LTE-A Carrier Aggregation test case 8.2.4.23.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141247	2513	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.2.5.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141249	2514	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.4.17.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141251	2515	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.4.21.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141253	2516	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.3.1.17.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141255	2517	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.3.1.18.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141257	2518	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.3.1.22.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141259	2519	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.5.1.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141261	2520	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.2.3.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141263	2521	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.2.4.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141265	2522	-	Addition of LTE-A (Rel-11) Carrier Aggregation test case 8.2.4.23.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141267	2523	-	LTE_TDD: Addition of GCF WI-156 MFBI Idle Mode test case 6.1.2.21	12.0.0	12.1.0
2015-03	RAN#67	R5s141269	2524	-	LTE_TDD: Addition of LTE-A Enhanced Minimization of Drive Tests (eMDT) Testcase 8.6.11.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141271	2525	-		12.0.0	12.1.0
2015-03	RAN#67	R5s141275	2526	-	Addition of LTE-A Carrier Aggregation test case 8.2.4.23.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141277	2527	-	LTE_TDD : Correction to GCF WI-086 EUTRA RRC test case 8.1.3.7	12.0.0	12.1.0
2015-03	RAN#67	R5s141278	2528	-	Addition of Rel-11 LTE-A Carrier Aggregation MAC test case 7.1.9.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141280	2529	-	Addition of Rel-11 LTE-A Carrier Aggregation RRC test case 8.2.4.16.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141282	2530	-	Addition of Rel-11 LTE-A Carrier Aggregation test case 8.2.4.18.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141284	2531	-	Addition of Rel-11 LTE-A Carrier Aggregation test case 8.2.4.20.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141288	2532	-	Addition of LTE-A (Rel-11) CA Handover from UTRAN test case 8.4.2.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141292	2533	-	Addition of Rel-11 LTE-A eMDT test case 8.6.2.12	12.0.0	12.1.0
2015-03	RAN#67	R5s141294	2534	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.2.12	12.0.0	12.1.0
2015-03	RAN#67	R5s141297	2535	-	Addition of Rel-11 LTE-A eMDT test case 8.6.4.9	12.0.0	12.1.0
2015-03	RAN#67	R5s141299	2536	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.4.9	12.0.0	12.1.0
2015-03	RAN#67	R5s141301	2537	-	Addition of Rel-11 LTE-A eMDT test case 8.6.6.6	12.0.0	12.1.0

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2015-03	RAN#67	R5s141303	2538	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.6.6	12.0.0	12.1.0
2015-03	RAN#67	R5s141305	2539	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.5	12.0.0	12.1.0
2015-03	RAN#67	R5s141307	2540	-	Addition of Rel-11 LTE-A eMDT test case 8.6.8.6	12.0.0	12.1.0
2015-03	RAN#67	R5s141309	2541	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.6	12.0.0	12.1.0
2015-03	RAN#67	R5s141311	2542	-	Addition of Rel-11 LTE-A eMDT test case 8.6.2.11	12.0.0	12.1.0
2015-03	RAN#67	R5s141313	2543	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.2.11	12.0.0	12.1.0
2015-03	RAN#67	R5s141317	2544	-	Correction to GCF WI-081 EUTRA RRC test case 8.5.1.4 and WI-082 EMM test case 9.2.3.1.9a	12.0.0	12.1.0
2015-03	RAN#67	R5s141319	2545	-	Addition of LTE-A Carrier Aggregation test case 8.2.4.23.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141324	2546	-	Correction to function fl_IP_AddrServers_Stop	12.0.0	12.1.0
2015-03	RAN#67	R5s141325	2547	-	Correction to Importing of Parameters in UTRAN_RAB_Functions for LTE, POS and IMS test suites	12.0.0	12.1.0
2015-03	RAN#67	R5s141327	2548	-	Correction to GCF WI-082 EUTRA ESM Test cases 10.4.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141331	2549	-	LTE_TDD : Correction to EUTRA MAC TDD-SSC test cases 7.1.3.12, 7,1,3,12a, 7.1.3.13, 7.1.3.13a	12.0.0	12.1.0
2015-03	RAN#67	R5s141332	2550	-	Correction to common function f_GERAN_SwitchPowerOff()	12.0.0	12.1.0
2015-03	RAN#67	R5s141334	2551	-	Correction to WI-086 EUTRA Multi-layer test cases 13.1.2, 13.1.2a, 13.1.3, 13.1.15	12.0.0	12.1.0
2015-03	RAN#67	R5s141338	2552	-	Correction of LTE-A Carrier Aggregation test cases 8.3.1.18.x	12.0.0	12.1.0
2015-03	RAN#67	R5s141339	2553	-	Addition of GCF WI-154 IMS Emergency Call test case 11.2.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141345	2554	-	Correction of GCF WI-154 IMS Emergency Call over EPS test case 11.2.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141349	2555	-	Correction to f_EUTRA_CA_InitFrequenciesInterBand() function for CA_3A-7A_Rev band combination	12.0.0	12.1.0
2015-03	RAN#67	R5s141352	2556	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141354	2557	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.7	12.0.0	12.1.0
2015-03	RAN#67	R5s141358	2558	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.1	12.0.0	12.1.0
2015-03	RAN#67	R5s141361	2559	-	Correction to EUTRA multilayer aSRVCC test case 13.4.3.28	12.0.0	12.1.0
2015-03	RAN#67	R5s141362	2560	-	Correction to EUTRA bSRVCC testcases 13.4.3.19	12.0.0	12.1.0
2015-03	RAN#67	R5s141363	2561	-	Correction to function f_SS_HS_DSCH_PDSCH_Cfg_DPCH_Modify_TDD	12.0.0	12.1.0
2015-03	RAN#67	R5s141364	2562	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141365	2563	-	LTE_TDD : Correction to Multilayer test case 13.4.2.4	12.0.0	12.1.0
2015-03	RAN#67	R5s141366	2564	-	Correction of GCF WI-150 MFBI Testcase 6.1.2.20	12.0.0	12.1.0
2015-03	RAN#67	R5s141367	2565	-	Correction of QCI value in EPS bearer context no.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141368	2566	-	Addition of Rel-8 EUTRA Idle Mode LTE<>GERAN test case 6.2.3.29	12.0.0	12.1.0
2015-03	RAN#67	R5s141371	2567	-	Correction to LTE-A CA test cases 8.2.4.16.x, 8.2.4.18.3 and 8.2.4.20.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141372	2568	-	Correction to EUTRA<>UTRA bSRVCC testcase 13.4.3.20	12.0.0	12.1.0
2015-03	RAN#67	R5s141373	2569	-	Correction to LTE-A CA test case 7.1.9.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141374	2570	-	Correction to GCF WI-164 eMBMS test case 17.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141375	2571	-	Addition of GCF WI-103 ESM test case 10.4.2	12.0.0	12.1.0
2015-03	RAN#67	R5s141384	2572	-	Correction to LTE-GERAN aSRVCC test cases 13.4.3.26 & 13.4.3.28	12.0.0	12.1.0
2015-03	RAN#67	R5s141385	2573	-	LTE_TDD : Addition of GCF WI-172 LTE-GERAN aSRVCC test case 13.4.3.26	12.0.0	12.1.0
2015-03	RAN#67	R5s141387	2574	-	LTE_TDD : Addition of GCF WI-172 LTE-GERAN aSRVCC test case 13.4.3.28	12.0.0	12.1.0

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2015-03	RAN#67	R5s141389	2575	-	Corrections to coordinate XID and IPv6 procedures	12.0.0	12.1.0
2015-03	RAN#67	R5s141393	2576	-	Correction to multilayer bSRVCC test case 13.4.3.21	12.0.0	12.1.0
2015-03	RAN#67	R5s141394	2577	-	Correction to EUTRA RRC Inter-mode test case 8.2.4.15a	12.0.0	12.1.0
2015-03	RAN#67	R5s141395	2578	-	Addition of Rel-11 LTE-A CA MAC test case 7.1.3.11.3	12.0.0	12.1.0
2015-03	RAN#67	R5s141397	2579	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.8.5	12.0.0	12.1.0
2015-03	RAN#67	R5s141399	2580	-	Corrections to IMS emergency call test case 11.2.5	12.0.0	12.1.0
2015-03	RAN#67	R5s141400	2581	-	Correction to GCF WI-082 SMS over SGs test cases 11.1.3, 11.1.4, 11.1.5, 11.1.6	12.0.0	12.1.0
2015-03	RAN#67	R5s150001	2582	-	Updates to multi-PDNs implementation for CDMA2000-related procedures	12.0.0	12.1.0
2015-03	RAN#67	R5s150003	2583	-	Addition of Rel-8 EUTRA Idle Mode LTE<>GERAN test case 6.2.3.26	12.0.0	12.1.0
2015-03	RAN#67	R5s150005	2584	-	Addition of EMM test case 9.2.1.1.29	12.0.0	12.1.0
2015-03	RAN#67	R5s150007	2585	-	LTE_TDD: Addition of LTE-A Carrier Aggregation MAC test case 7.1.9.1.2	12.0.0	12.1.0
2015-03	RAN#67	R5s150009	2586	-	Correction to GCF WI-086 EMM test case 9.2.3.3.1	12.0.0	12.1.0
2015-03	RAN#67	R5s150010	2587	-	Correction to GCF WI-081 Idle mode test cases 6.1.1.4, 6.1.1.6 and 6.1.1.6a.	12.0.0	12.1.0
2015-03	RAN#67	R5s150019	2588	-	Correction to LTE-GERAN test case 6.2.3.1a	12.0.0	12.1.0
2015-03	RAN#67	R5s150026	2589	-	Correction of GCF WI-178 LTE-A eMBMS-SC test case 17.4.1,	12.0.0	12.1.0
2015-03	RAN#67	R5s150031	2590	-	17.4.1a, 17.4.3, 17.4.3a 17.4.4  Corrections for LTE test case execution with IMS-enabled device	12.0.0	12.1.0
2015-03	RAN#67	R5s150034	2591	-	Correction to EUTRA test cases 8.2.4.14a and 8.2.4.15	12.0.0	12.1.0
2015-03	RAN#67	R5s150036	2592	-	Corrections for eMDT test case 8.6.2.3a and 8.6.2.10	12.0.0	12.1.0
2015-03	RAN#67	R5s150037	2593	-	Correction to LTE-A Carrier Aggregation Enhancement test cases	12.0.0	12.1.0
2015-03	RAN#67	R5s150038	2594	-	Implementation of Prose CR R5-145793	12.0.0	12.1.0
2015-03	RAN#67	R5s150053	2595	-	Corrections to IMS emergency call test case 11.2.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150057	2596	-	Corrections to EUTRA Testcases with IMS enabled UE	12.0.0	12.1.0
2015-03	RAN#67	R5s150062	2597	-	Addition of EUTRA DRX Testcase 7.1.6.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150066	2598	-	LTE_TDD:Addition of EUTRA DRX Testcase 7.1.6.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150070	2599	-	Correction to GCF WI-162 LTE-A CA test cases 7.1.9.1.x	12.0.0	12.1.0
2015-03	RAN#67	R5s150071	2600	-	Correction to GCF WI-087 EUTRA EMM test case 9.2.1.2.1b	12.0.0	12.1.0
2015-03	RAN#67	R5s150074	2601	-	Correction for IP_PTC for IMS-enabled UEs	12.0.0	12.1.0
2015-03	RAN#67	R5s150076	2602	-	Addition of Rel-11 LTE-A eMDT test case 8.6.4.10	12.0.0	12.1.0
2015-03	RAN#67	R5s150078	2603	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.4.10	12.0.0	12.1.0
2015-03	RAN#67	R5s150081	2604	-	Correction to GCF WI-159 LTE<> 1xRTT testcase 13.4.4.1	12.0.0	12.1.0
2015-03	RAN#67	R5s150082	2605	-	Multi-PDN related correction to EUTRA RRC test case 8.1.2.8	12.0.0	12.1.0
2015-03	RAN#67	R5s150089	2606	-	Correction of GCF WI-178 LTE Advanced eMBMS-SC test case	12.0.0	12.1.0
2015-03	RAN#67	R5s150090	2607	-	17.4.2 & 17.4.2a  Correction of GCF WI-178 LTE Advanced eMBMS-SC test case	12.0.0	12.1.0
2015-03	RAN#67	R5s150092	2608	-	Addition of RFT-117 EUTRA MFBI Testcase 6.2.3.35	12.0.0	12.1.0
2015-03	RAN#67	R5s150096	2609	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case	12.0.0	12.1.0
2015-03	RAN#67	R5s150098	2610	-	8.2.2.4.3 LTE_TDD: Addition of LTE-A Carrier Aggregation test case	12.0.0	12.1.0
2015-03	RAN#67	R5s150100	2611	-	8.2.2.5.3 LTE_TDD:Addition of LTE-A Carrier Aggregation test case	12.0.0	12.1.0
	1				8.2.4.18.3		

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2015-03	RAN#67	R5s150102	2612	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.3.1.17.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150104	2613	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.3.1.18.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150106	2614	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.3.1.22.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150108	2615	-	LTE_TDD:Addition of LTE-A Carrier Aggregation test case 8.5.1.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150113	2616	-	LTE_TDD: Addition of LTE-A Carrier Aggregation MAC test case 7.1.9.1.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150118	2617	-	Further correction for LTE TC execution with IMS-enabled devices	12.0.0	12.1.0
2015-03	RAN#67	R5s150119	2618	-	LTE_TDD: Addition of Rel-11 LTE_CA_enh test case 8.4.2.7.3	12.0.0	12.1.0
2015-03	RAN#67	R5s150121	2619	-	Addition of GEA4 and A5/4 ciphering algorithms	12.0.0	12.1.0
2015-03	RAN#67	R5s150122	2620	-	Correction of GCF WI-87 EUTRA<>GERAN Testcase 6.2.3.28	12.0.0	12.1.0
2015-03	RAN#67	R5s150123	2621	-	Correction of GCF WI-87 EUTRA<>GERAN Testcase 6.2.3.29	12.0.0	12.1.0
2015-03	RAN#67	R5s150133	2622	-	LTE_TDD:Addition of GCF WI-172 TD_LTE<>TDSCDMA Testcase 13.4.3.9	12.0.0	12.1.0
2015-03	RAN#67	R5s150135	2623	-	LTE_TDD:Addition of GCF WI-172 TD_LTE<>TDSCDMA Testcase 13.4.3.11	12.0.0	12.1.0
2015-03	RAN#67	R5s150137	2624	-	LTE_TDD:Addition of GCF WI-172 TD_LTE<>TDSCDMA Testcase 13.4.3.13	12.0.0	12.1.0
2015-06	RAN#68	R5-151103	2627	-	Band 32 - Guidance on LTE test execution	12.1.0	12.2.0
2015-06	RAN#68	R5-151150	2628	-	Update execution guidelines for MFBI test case 6.1.2.20	12.1.0	12.2.0
2015-06	RAN#68	R5-151677	2629	-	Update execution guidelines for CA test case 8.2.4.21.2	12.1.0	12.2.0
2015-06	RAN#68	R5-151792	2626	1	Routine maintenance for TS 36.523-3	12.1.0	12.2.0
2015-06	RAN#68	-	2631	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	12.1.0	12.2.0
2015-06	RAN#68	R5s150064	2632	-	Addition of EUTRA DRX Testcase 7.1.6.4	12.1.0	12.2.0
2015-06	RAN#68	R5s150068	2633	-	LTE_TDD:Addition of EUTRA DRX Testcase 7.1.6.4	12.1.0	12.2.0
2015-06	RAN#68	R5s150072	2634	-	Addition of PTCRB RFT-119 EUTRA Idle Mode test case 6.1.1.8	12.1.0	12.2.0
2015-06	RAN#68	R5s150075	2635	-	Corrections for eMBMS_SC test case 17.4.7	12.1.0	12.2.0
2015-06	RAN#68	R5s150094	2636	-	Addition of PTCRB RFT-119 EUTRA Idle Mode test case 6.1.1.9	12.1.0	12.2.0
2015-06	RAN#68	R5s150124	2637	-	LTE_TDD: Addition of Rel-11 LTE_CA_enh test case 8.2.4.21.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150124	2637	-	LTE_TDD: Addition of Rel-11 LTE_CA_enh test case 8.2.4.21.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150126	2638	-	LTE_TDD: Addition of Rel-11 LTE_CA_enh test case 8.2.4.23.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150126	2638	-	LTE_TDD: Addition of Rel-11 LTE_CA_enh test case 8.2.4.23.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150128	2639	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.2.2.3.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150128	2639	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 8.2.2.3.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150130	2640	-	LTE_TDD: Addition of EUTRA PLMN Selection Testcase 6.1.1.8	12.1.0	12.2.0
2015-06	RAN#68	R5s150130	2640	-	LTE_TDD: Addition of EUTRA PLMN Selection Testcase 6.1.1.8	12.1.0	12.2.0
2015-06	RAN#68	R5s150139	2641	_	Correction of Rel-8 EUTRA Idle Mode LTE<>GERAN test cases 6.2.3.26, 6.2.3.28 and 6.2.3.29	12.1.0	12.2.0
2015-06	RAN#68	R5s150140	2642	-	LTE_TDD : Addition of GCF WI-097 LTE-GERAN test case 6.2.3.26	12.1.0	12.2.0
2015-06	RAN#68	R5s150142	2643	-	Correction to IMS Emergency Call test cases 11.2.2, 11.2.3 and 8.1.2.12	12.1.0	12.2.0
2015-06	RAN#68	R5s150143	2644	-	LTE_TDD : Addition of GCF WI-097 LTE-GERAN test case 6.2.3.28	12.1.0	12.2.0
2015-06	RAN#68	R5s150145	2645	-	LTE_TDD : Addition of GCF WI-097 LTE-GERAN test case 6.2.3.29	12.1.0	12.2.0
2015-06	RAN#68	R5s150149	2646	-	LTE_TDD: Addition of EUTRA RRC Connection Establishment of	12.1.0	12.2.0
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2015-06	RAN#68	R5s150151	2647	-	Emergency Call test case 8.1.2.11 LTE_TDD: Addition of EUTRA RRC Connection Establishment of	12.1.0	12.2.0
2015-06	RAN#68	R5s150159	2648	-	Emergency Call test case 8.1.2.12  Correction to WI 082 EUTRA Testcase 9.1.2.4 and 9.1.2.5 with	12.1.0	12.2.0
2015-06	RAN#68	R5s150162	2649	L	IMS enabled  Correction for GCF WI-086 EMM test cases 9.2.3.3.1 and 9.2.3.3.4	12.1.0	12.2.0
2015-06	RAN#68	R5s150164		_	Correction of function f_UT_GetEmergencyNumbers		12.2.0
2015-06	RAN#68	R5s150166			Correction to EUTRA EMM Testcases with IMS enabled	12.1.0	
				-			
2015-06	RAN#68	R5s150169		-	Correction to GCF WI-086 EUTRA EPC Testcase 9.2.1.2.1c with lpv6		12.2.0
2015-06	RAN#68	R5s150170		-	Correction of GCF WI-086 EUTRA EMM Testcase 9.2.1.2.1b with lpv6		12.2.0
2015-06	RAN#68	R5s150171	2654	-	Correction of LTE-A EUTRA eMDT Testcases 8.6.4.10	12.1.0	12.2.0
2015-06	RAN#68	R5s150172	2655	-	Correction of GCF WI-103 EUTRA EMM test case 10.4.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150173	2656	-	Addition of Rel-11 LTE_CA_enh test case 8.2.4.19.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150176	2657	-	Correction for GCF WI-082 EMM test case 9.3.1.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150177	2658	-	Addition of GCF WI-154 IMS Emergency Call test case 11.2.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150182	2659	-	LTE_TDD: Addition of EUTRA Idle Mode RPLMN Selection Testcase 6.1.1.9	12.1.0	12.2.0
2015-06	RAN#68	R5s150185	2660	-	Corrections to GCF WI-164 eMBMS test case 17.2.4	12.1.0	12.2.0
2015-06	RAN#68	R5s150186	2661	-	Correction to GCF WI-091 EUTRA MAC Testcase 7.1.3.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150187	2662	-	Correction to GCF WI-092 EUTRA MAC Testcase 7.1.4.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150188	2663	-	Correction of LTE-A Carrier Aggregation test cases 8.2.4.23.x	12.1.0	12.2.0
2015-06	RAN#68	R5s150189	2664	-	Correction to GCF WI-082 EUTRA EMM test case 9.2.3.1.9a	12.1.0	12.2.0
2015-06	RAN#68	R5s150190	2665	-	Correction to GCF WI-082 EUTRA EMM test case 9.2.2.1.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150191	2666	-	Correction to RFT-119 EUTRA Idle Mode test case 6.1.1.8	12.1.0	12.2.0
2015-06	RAN#68	R5s150192	2667	-	Correction to EUTRA Idle Mode test case 6.1.1.9	12.1.0	12.2.0
2015-06	RAN#68	R5s150194	2668	-	Correction to GCF WI-081 EUTRA RRC Testcase 8.5.4.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150198	2669	-	Addition of Rel-11 LTE-A eMDT test case 8.6.9.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150200	2670	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.9.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150204	2671	-	Correction for multilayer GCF WI-087 SRVCC test cases 13.4.3.4, 13.4.3.5 and 13.4.3.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150206	2672	-	Correction of GCF WI-87 EUTRA<>GERAN Testcase 6.2.3.24	12.1.0	12.2.0
2015-06	RAN#68	R5s150207	2673	-	Correction of GCF WI-87 EUTRA<>GERAN Testcase 6.2.3.29	12.1.0	12.2.0
2015-06	RAN#68	R5s150209	2674	-	Correction for GCF WI-086 EMM test case 9.2.1.2.9	12.1.0	12.2.0
2015-06	RAN#68	R5s150210	2675	-	Correction for GCF WI-086 Multi-layer test case 13.1.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150211	2676	-	Correction for GCF WI-086 EMM test case 9.2.3.2.11	12.1.0	12.2.0
2015-06	RAN#68	R5s150212	2677	-	Correction for GCF WI-082 EMM test case 9.2.3.1.15	12.1.0	12.2.0
2015-06	RAN#68	R5s150214	2678	-	Correction for multilayer Rel-12 bSRVCC test case 13.4.3.20	12.1.0	12.2.0
2015-06	RAN#68	R5s150215	2679	-	Correction of LTE-A Carrier Aggregation test case 8.2.4.18.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150216	2680	-	Correction to EUTRA EMM Testcases with IMS enabled	12.1.0	12.2.0
2015-06	RAN#68	R5s150217	2681	-	Correction to GCF WI-081 EUTRA UE Capability Audit Testcase	12.1.0	12.2.0
2015-06	RAN#68	R5s150219	2682	-	8.5.4.1 Correction in selection expression for test case 8.3.4.1, 8.3.4.2 and	12.1.0	12.2.0
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2015-06	RAN#68	R5s150220	2683	-	Correction to IMS Emergency Call test case 11.2.8	12.1.0	12.2.0
2015-06	RAN#68	R5s150221	2684	-	Correction for GCF WI-087 LTE IRAT PLMN selection test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150223	2685	-	6.2.1.4 Addition of LTE-GERAN SRVCC test case 13.4.3.41	12.1.0	12.2.0
2015-06	RAN#68	R5s150225	2686	-	LTE-TDD : Addition of LTE-GERAN SRVCC test case 13.4.3.41	12.1.0	12.2.0
2015-06	RAN#68	R5s150227	2687	-	Correction to function f_ESM_EvaluateAPN	12.1.0	12.2.0
2015-06	RAN#68	R5s150229	2688	-	Correction of f_EUTRA_508RRC_AddModRel_Scell_Common	12.1.0	12.2.0
2015-06	RAN#68	R5s150230	2689	-	Correction to GCF WI-178 LTE-A eMBMS-SC test case 17.4.3a	12.1.0	12.2.0
2015-06	RAN#68	R5s150231	2690	-	Correction to EUTRA EMM Testcases 9.2.1.1.25, 9.2.1.2.2 with	12.1.0	12.2.0
2015-06	RAN#68	R5s150232	2691	-	IMS enabled Correction to MDT test case 8.6.6.4	12.1.0	12.2.0
2015-06	RAN#68	R5s150233	2692	-	Correction to the test execution guidelines for Rel-10 LTE-A CA test	12.1.0	12.2.0
2015-06	RAN#68	R5s150234	2693	-	case 8.2.4.19.2 Corrections for Rel-11 eMDT test cases	12.1.0	12.2.0
2015-06	RAN#68	R5s150235	2694	-	Corrections for Rel-11 eMDT test case 8.6.6.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150238	2695	-	Correction to IMS Emergency call test case 11.2.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150239	2696	-	Correction to IMS Emergency call test case 11.2.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150249	2697	-	Correction for LTE<>GERAN SRVCC test cases 13.4.3.3,	12.1.0	12.2.0
2015-06	RAN#68	R5s150251	2698	-	13.4.3.21, 13.4.3.24, 13.4.3.25 and 13.4.3.27  Correction to cs_108_UE_CapabilityEnq_TDD	12.1.0	12.2.0
2015-06	RAN#68	R5s150252	2699	-	LTE_TDD: Addition of GCF WI-191 LTE-A SSC-TDD test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150254	2700	-	7.1.3.12a   LTE_TDD: Addition of GCF WI-191 LTE-A SSC-TDD test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150256	2701	-	7.1.3.13a  Correction to EUTRA EMM Testcases 9.3.1.12a, 9.2.3.1.13,	12.1.0	12.2.0
2015-06	RAN#68	R5s150257	2702	-	9.2.3.1.14, 9.2.3.2.10, 9.3.1.7 and 9.3.1.7a with IMS enabled Correction to ESM test case 10.4.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150261	2703	-	Correction to GCF WI-81 EUTRA RRC test case 8.5.4.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150262	2704	-	Corrections to EUTRAN<>GERAN Idle Mode test case 6.2.3.28	12.1.0	12.2.0
2015-06	RAN#68	R5s150263	2705	-	Correction for LTE-A CA test cases 8.2.4.16.x	12.1.0	12.2.0
2015-06	RAN#68	R5s150268	2706	-	Corrections for GCF WI-154 IMS Emergency Call test case 11.2.4	12.1.0	12.2.0
2015-06	RAN#68	R5s150272	2707	-	Correction for GCF WI-087 EMM test case 9.2.3.1.6 in	12.1.0	12.2.0
2015-06	RAN#68	R5s150277	2708	-	EUTRA<>GERAN path Correction to IMS Emergency Call test case 11.2.5	12.1.0	12.2.0
2015-06	RAN#68	R5s150278	2709	-	Correction to EUTRA RRC test case 8.5.4.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150285	2710	-	Addition of LTE-A eMBMS-SC-CA test case 17.4.10.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150287	2711	-	Addition of LTE-A eMBMS-SC-CA test case 17.4.10.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150291	2712	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150293	2713	-	8.2.4.20.3  Correction to GCF WI-151 LTE Interband test cases against IMS	12.1.0	12.2.0
2015-06	RAN#68	R5s150294	2714	-	Correction to GCF WI-154 LTE Emergency call test case 11.2.5	12.1.0	12.2.0
2015-06	RAN#68	R5s150297	2715	-	LTE_TDD: Addition of Rel-11 LTE_CA_enh test case 8.2.4.17.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150300	2716	-	Addition of GCF WI-209 LTE-UTRA FE-FACH test case 6.2.4.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150302	2717	-	Addition of GCF WI-209 LTE-UTRA FE-FACH test case 6.2.4.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150304	2718	-	Addition of GCF WI-209 LTE-UTRA FE-FACH test case 6.2.4.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150306	2719	-	Addition of GCF WI-209 LTE-UTRA FE-FACH test case 6.2.4.4	12.1.0	12.2.0

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2015-06	RAN#68	R5s150310	2720	-	LTE_TDD: Addition of Rel-10 CA test case 7.1.3.11.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150312	2721	-	LTE_TDD: Addition of Rel-11 CA test case 8.2.4.19.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150314	2722	-	Addition of Rel-11 eMBMS_SC_CA test case 17.4.9.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150315	2723	-	LTE_TDD: Addition of Rel-10 CA test case 8.2.4.23.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150319	2724	-	Addition of Rel-11 eMBMS_SC_CA test case 17.4.9.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150320	2725	-	Corrections to Switch-Off/Detach procedures in context of IMS-	12.1.0	12.2.0
2015-06	RAN#68	R5s150322	2726	-	enabled UE Correction to EUTRA test case 7.1.4.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150324	2727	-	Addition of GCF WI-180 EUTRA<>C2K Inter-RAT test Case 8.6.7.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150326	2728	-	Correction of GCF WI-87 EUTRA<>GERAN Testcase 6.2.3.26	12.1.0	12.2.0
2015-06	RAN#68	R5s150329	2729	-	Rel-12 baseline upgrade for LTE Test Suites	12.1.0	12.2.0
2015-06	RAN#68	R5s150332	2730	-	Addition of GCF WI-209 LTE-UTRA FE-FACH test case 6.2.4.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150334	2731	-	Addition of GCF WI-209 LTE-UTRA FE-FACH test case 6.2.4.5	12.1.0	12.2.0
2015-06	RAN#68	R5s150338	2732	-	Dynamic DRB configuration at the SS	12.1.0	12.2.0
2015-06	RAN#68	R5s150340	2733	-	Correction of GCF WI-154 IMS Emergency call Testcase 11.2.4	12.1.0	12.2.0
2015-06	RAN#68	R5s150347	2734	-	Addition of LTE-A eMBMS-SC-CA test case 17.4.11.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150349	2735	-	Addition of LTE-A eMBMS-SC-CA test case 17.4.11.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150351	2736	-	Correction of GCF WI-177 Test Case 8.6.6.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150354	2737	-	Correction of Test Cases 8.2.2.3.X	12.1.0	12.2.0
2015-06	RAN#68	R5s150355	2738	-	Correction of Test Cases 7.1.3.11.X	12.1.0	12.2.0
2015-06	RAN#68	R5s150356	2739	-	Correction of Test Cases 8.2.4.17.x	12.1.0	12.2.0
2015-06	RAN#68	R5s150362	2740	-	Addition of LTE-A (Rel-11) CoMP test case 7.1.10.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150364	2741	-	Addition of LTE-A (Rel-11) CoMP test case 7.1.10.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150369	2742	-	Correction to GCF WI-086 EUTRA Idle mode test case 6.3.7	12.1.0	12.2.0
2015-06	RAN#68	R5s150370	2743	-	Correction to GCF WI-082 EMM test case 9.3.1.18	12.1.0	12.2.0
2015-06	RAN#68	R5s150375	2744	-	Correction to DRB configuration handling in ATS_15wk18	12.1.0	12.2.0
2015-06	RAN#68	R5s150377	2745	-	LTE_TDD : Addition of GCF WI-183 LTE-UTRA MDT test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150381	2746	-	8.6.5.1  Correction of GCF WI-162 EUTRA CA Testcase 7.1.3.11.x	12.1.0	12.2.0
2015-06	RAN#68	R5s150384	2747	-	Correction to GCF WI-159 Pre-registration at 1xRTT testcase	12.1.0	12.2.0
2015-06	RAN#68	R5s150385	2748	-	13.4.4.2   LTE_TDD: Addition of LTE-TDD / UTRA-FDD FE-FACH test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150387	2749	-	6.2.4.1 LTE_TDD: Addition of LTE-TDD / UTRA-FDD FE-FACH test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150389	2750	-	6.2.4.2 LTE_TDD: Addition of LTE-TDD / UTRA-FDD FE-FACH test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150391	2751	-	6.2.4.3 LTE_TDD: Addition of LTE-TDD / UTRA-FDD FE-FACH test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150393	2752	-	6.2.4.4 LTE_TDD: Addition of LTE-TDD / UTRA-FDD FE-FACH test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150395	2753	-	6.2.4.5 LTE_TDD: Addition of LTE-TDD / UTRA-FDD FE-FACH test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150397	2754	-	6.2.4.6 Corrrection to EUTRA MAC test case 7.1.2.6	12.1.0	12.2.0
2015-06	RAN#68	R5s150398	2755	-	Correction to GCF WI-081 RRC test case 8.5.4.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150399	2756	-	Update Guard timer for EMM Test cases 9.2.1.2.9, 9.2.3.2.11,	12.1.0	12.2.0
					9.2.3.1.15 and 9.2.3.1.15a		

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2015-06	RAN#68	R5s150400	2757	-	Correction to EUTRA EMM test case 9.1.3.3	12.1.0	12.2.0
2015-06	RAN#68	R5s150401	2758	-	Correction to GCF WI-082 EUTRA ESM Test cases 10.4.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150402	2759	-	Correction to GCF WI-082 EUTRA EMM test case 9.2.1.1.21	12.1.0	12.2.0
2015-06	RAN#68	R5s150403	2760	-	Correction to GCF Wi-082 EUTRA EMM test case 9.2.1.1.22	12.1.0	12.2.0
2015-06	RAN#68	R5s150406	2761	-	Correction to LTE-A CA test cases 8.2.4.16.x	12.1.0	12.2.0
2015-06	RAN#68	R5s150407	2762	-	Correction of GCF WI 81 EUTRA MAC test case 7.1.2.8	12.1.0	12.2.0
2015-06	RAN#68	R5s150408	2763	-	Correction to GCF WI-086 EUTRA EMM Test Case 9.2.3.3.5a	12.1.0	12.2.0
2015-06	RAN#68	R5s150409	2764	-	Correction to GCF WI-082 Test cases 9.2.1.1.1a and 9.2.1.1.1b	12.1.0	12.2.0
2015-06	RAN#68	R5s150410	2765	-	Correction to GCF WI-154 EUTRA Emergency testcase 8.1.2.11	12.1.0	12.2.0
2015-06	RAN#68	R5s150411	2766	-	Correction to LTE with Pre-registration on 1xRTT test cases	12.1.0	12.2.0
2015-06	RAN#68	R5s150413	2767	-	13.4.4.1 and 13.4.4.2  Correction of GCF WI 81 EUTRA MAC test case 7.1.3.9	12.1.0	12.2.0
2015-06	RAN#68	R5s150415	2768	-	Correction of GCF WI-87 EUTRA<>GERAN Testcases 6.2.3.23,	12.1.0	12.2.0
2015-06	RAN#68	R5s150416	2769	-	6.2.3.24, 6.2.3.27,6.2.3.29  Correction of GCF WI-172 EUTRA<>GERAN aSRVCC test case	12.1.0	12.2.0
2015-06	RAN#68	R5s150417	2770	-	13.4.3.30 Correction to GCF WI-082 EUTRA Testcase 9.1.5.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150422	2771	-	Correction of EUTRA-GERAN GCF WI-087 test cases 13.1.7,	12.1.0	12.2.0
2015-06	RAN#68	R5s150423	2772	-	13.1.10, 6.2.3.19 LTE_TDD: Addition of LTE-A (Rel-11) CoMP test case 7.1.10.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150425	2773	-	LTE_TDD: Addition of LTE-A (Rel-11) CoMP test case 7.1.10.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150427	2774	-	Correction of GCF WI-082 EUTRA EMM test case 9.3.1.16	12.1.0	12.2.0
2015-06	RAN#68	R5s150429	2775	-	Correction of EUTRA test cases 9.2.1.1.20, 9.2.3.2.17, 9.2.3.1.25	12.1.0	12.2.0
2015-06	RAN#68	R5s150430	2776	-	Correction to Multiple PDN for handling non-IMS APN	12.1.0	12.2.0
2015-06	RAN#68	R5s150431	2777	-	LTE_TDD: Addition of LTE-A eMBMS-SC-CA test case 17.4.11.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150433	2778	-	LTE_TDD: Addition of LTE-A eMBMS-SC-CA test case 17.4.11.2	12.1.0	12.2.0
2015-06	RAN#68	R5s150436	2779	-	Correction to GCF WI-082 EMM test cases 9.2.1.1.20, 9.2.3.1.25 and 9.2.3.2.17	12.1.0	12.2.0
2015-06	RAN#68	R5s150438	2780	-	Correction to Bandwidth initialisation of CA Testcases	12.1.0	12.2.0
2015-06	RAN#68	R5s150442	2781	-	LTE_TDD: Addition of LTE-A eMBMS-SC-CA test case 17.4.10.1	12.1.0	12.2.0
2015-06	RAN#68	R5s150444	2782	-	LTE_TDD: Addition of LTE-A eMBMS-SC-CA test case 17.4.10.2	12.1.0	12.2.0
2015-09	RAN#69	R5-153142	2784	-	Low-cost MTC: Introduction of Test Model	12.2.0	12.3.0
2015-09	RAN#69	R5-153143	2785	-	FDD-TDD CA: Introduction of Test Model	12.2.0	12.3.0
2015-09	RAN#69	R5-153746	2783	1	Routine maintenance for TS 36.523-3	12.2.0	12.3.0
2015-09	RAN#69	RP-151418	2786	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	12.2.0	12.3.0
2015-09	RAN#69	R5s150179	2788	-	Correction to ESM test case 10.2.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150352	2789	-	Correction to GCF WI-087 EUTRA EMM Testcase 9.2.2.1.3	12.2.0	12.3.0
2015-09	RAN#69	R5s150440	2790	-	Correction to function f_UTRAN_SRVCC_WithHandover	12.2.0	12.3.0
2015-09	RAN#69	R5s150447	2791	-	Correction to LTE-A CA Handover Testcases for Rel11 UEs	12.2.0	12.3.0
2015-09	RAN#69	R5s150448	2792	-	Addition of Rel-11 LTE-A eMDT test case 8.6.9.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150450	2865	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.9.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150452	2793	-	Addition of Rel-11 LTE-A eMDT test case 8.6.9.3	12.2.0	12.3.0

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2015-09	RAN#69	R5s150454	2866	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.9.3	12.2.0	12.3.0
2015-09	RAN#69	R5s150456	2867	-	LTE_TDD: Addition of GCF WI-223 EUTRA-HRPD test case	12.2.0	12.3.0
2015-09	RAN#69	R5s150458	2868	-	6.2.2.3 LTE_TDD: Addition of GCF WI-223 EUTRA-HRPD test case	12.2.0	12.3.0
2015-09	RAN#69	R5s150460	2869	-	6.2.3.7 LTE_TDD: Addition of GCF WI-224 EUTRA-HRPD test case	12.2.0	12.3.0
2015-09	RAN#69	R5s150462	2870	-	6.2.3.7a LTE_TDD: Addition of GCF WI-223 EUTRA-HRPD test case	12.2.0	12.3.0
2015-09	RAN#69	R5s150464	2871	_	6.2.3.8  LTE TDD: Addition of GCF WI-224 EUTRA-HRPD test case	12.2.0	
2015-09		R5s150466			6.2.3.8a  LTE_TDD: Addition of GCF WI-223 EUTRA-HRPD test case		12.3.0
				_	8.1.3.9		
2015-09		R5s150468		-	LTE_TDD: Addition of GCF WI-223 EUTRA-HRPD test case 8.3.2.7	12.2.0	
2015-09	RAN#69	R5s150470	2874	-	LTE_TDD: Addition of GCF WI-223 EUTRA-HRPD test case 8.3.2.8	12.2.0	12.3.0
2015-09	RAN#69	R5s150472	2875	-	LTE_TDD: Addition of GCF WI-223 EUTRA-HRPD test case 8.3.3.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150474	2876	-	LTE_TDD: Addition of EUTRA-1xRTT test case 6.2.2.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150476	2877	-	LTE_TDD: Addition of EUTRA-1xRTT test case 6.2.3.9	12.2.0	12.3.0
2015-09	RAN#69	R5s150478	2878	-	LTE_TDD: Addition of EUTRA-1xRTT test case 6.2.3.9a	12.2.0	12.3.0
2015-09	RAN#69	R5s150480	2879	-	LTE_TDD: Addition of EUTRA-1xRTT test case 6.2.3.10	12.2.0	12.3.0
2015-09	RAN#69	R5s150482	2880	-	LTE_TDD: Addition of EUTRA-1xRTT test case 6.2.3.10a	12.2.0	12.3.0
2015-09	RAN#69	R5s150484	2881	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.1.3.10	12.2.0	12.3.0
2015-09	RAN#69	R5s150486	2882	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.3.2.9	12.2.0	12.3.0
2015-09	RAN#69	R5s150488	2883	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.3.2.10	12.2.0	12.3.0
2015-09	RAN#69	R5s150490	2884	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.4.7.3	12.2.0	12.3.0
2015-09	RAN#69	R5s150492	2794	-	Correction to EUTRA MDT test case 8.6.4.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150493	2795	-	Correction to CA NonContiguous band combination 3A-3A	12.2.0	12.3.0
2015-09	RAN#69	R5s150494	2796	-	Correction to LTE-A CA Testcases 8.2.2.3.x and 8.3.1.17.x	12.2.0	12.3.0
2015-09	RAN#69	R5s150495	2797	-	Correction to Geran MO call procedure for LTE<>GERAN Testcases	12.2.0	12.3.0
2015-09	RAN#69	R5s150496	2798	-	Correction to GCF WI-086 EMM test cases 9.2.3.3.2	12.2.0	12.3.0
2015-09	RAN#69	R5s150497	2799	-	Correction to common function f_IMS_SIP_DecodeMatchAndCheckSDP()	12.2.0	12.3.0
2015-09	RAN#69	R5s150498	2885	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.4.7.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150500	2886	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.4.7.6	12.2.0	12.3.0
2015-09	RAN#69	R5s150502	2887	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.4.7.9	12.2.0	12.3.0
2015-09	RAN#69	R5s150504	2888	-	LTE_TDD: Addition of EUTRA-1xRTT test case 13.4.4.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150506	2889	-	LTE_TDD: Addition of EUTRA-1xRTT test case 13.4.4.5	12.2.0	12.3.0
2015-09	RAN#69	R5s150508	2890	-	LTE_TDD: Addition of EUTRA-1xRTT test case 13.1.17	12.2.0	12.3.0
2015-09	RAN#69	R5s150510	2800	-	Correction to GCF WI-154 IMS Emergency call test case 11.2.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150511	2801	-	Addition of GCF WI-227 EUTRA eMDT test case 8.6.1.2	12.2.0	12.3.0
2015-09	RAN#69	R5s150513	2802	-	Addition of Rel-11 LTE-A eMDT test case 8.6.3.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150515	2891	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.3.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150517	2803	-	Addition of Rel-11 LTE-A eMDT test case 8.6.5.1a	12.2.0	12.3.0
2015-09	RAN#69	R5s150519	2892	-	LTE_TDD: Addition of Rel-11 LTE-A eMDT test case 8.6.5.1a	12.2.0	12.3.0

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2015-09	RAN#69	R5s150521	2804	-	Correction to GCF WI-081 EUTRA RRC Test Case 8.5.4.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150523	2805	-	Correction of GCF WI-082 EUTRA IdleMode test case 6.1.2.6	12.2.0	12.3.0
2015-09	RAN#69	R5s150524	2806	-	Correction of GCF WI-151 EUTRA FDD-TDD Testcase 8.3.1.13a	12.2.0	12.3.0
2015-09	RAN#69	R5s150525	2807	-	Correction to GCF WI-154 IMS Emergency Call Testcase 11.2.8	12.2.0	12.3.0
2015-09	RAN#69	R5s150526	2808	-	Correction to GCF WI-081 EUTRA RRC Test Case 8.5.4.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150527	2809	-	Correction to test cases 13.4.3.1. 13.4.3.6, 13.4.3.14, 13.4.3.16	12.2.0	12.3.0
2015-09	RAN#69	R5s150528	2810	-	Correction to DRB release in multi-PDN test cases	12.2.0	12.3.0
2015-09	RAN#69	R5s150529	2811	-	Correction of LTE-A EUTRA eMDT Testcase 8.6.11.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150536	2812	-	Correction of Postamble procedure for LTE<>1xRTT Pre-	12.2.0	12.3.0
2015-09	RAN#69	R5s150588	2813	-	registration TCs Correction of Rel-11 LTE-A eMDT test case 8.6.2.11	12.2.0	12.3.0
2015-09	RAN#69	R5s150619	2893	-	LTE_TDD: Addition of GCF WI-162 Rel-10 LTE-A CA test case	12.2.0	12.3.0
2015-09	RAN#69	R5s150623	2814	-	8.2.4.16.1 Addition of GCF WI-159 LTE<>1xRTT testcase 13.1.18	12.2.0	12.3.0
2015-09	RAN#69	R5s150627	2815	-	Correction to IMS Emergency Call test case 11.2.3	12.2.0	12.3.0
2015-09	RAN#69	R5s150632	2816	-	Correction of CF WI-082 EUTRA Idle Mode test case 6.1.2.6	12.2.0	12.3.0
2015-09	RAN#69	R5s150634	2817	-	Correction to EUTRA Idle Mode test case 6.1.1.8 and 6.1.1.9	12.2.0	12.3.0
2015-09	RAN#69	R5s150635	2818	-	Correction to EUTRA MFBI test case 6.2.3.35	12.2.0	12.3.0
2015-09	RAN#69	R5s150636	2819	-	Correction of GCF WI-209 EUTRA FE-FACH test case 6.2.4.3	12.2.0	12.3.0
2015-09	RAN#69	R5s150637	2820	-	Correction to function fl_EUTRA_CheckRel10_FGIs()	12.2.0	12.3.0
2015-09	RAN#69	R5s150638	2821	-	Correction to EUTRA MDT test case 8.6.4.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150639	2822	-	Correction to EUTRA CA test cases 8.2.4.17.x	12.2.0	12.3.0
2015-09	RAN#69	R5s150640	2894	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.4.7.7	12.2.0	12.3.0
2015-09	RAN#69	R5s150642	2895	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.4.7.8	12.2.0	12.3.0
2015-09	RAN#69	R5s150644	2896	-	LTE_TDD: Addition of EUTRA-1xRTT test case 8.4.7.10	12.2.0	12.3.0
2015-09	RAN#69	R5s150648	2823	-	PDN handling at IP PTC	12.2.0	12.3.0
2015-09	RAN#69	R5s150650	2824	-	Correction to WI-162 Inter-RAT handover UTRA to EUTRA test	12.2.0	12.3.0
2015-09	RAN#69	R5s150651	2825	-	8.4.2.7.x  Correction for GCF WI-103 EMM test case 9.2.1.1.28	12.2.0	12.3.0
2015-09	RAN#69	R5s150652	2826	-	Correction to EUTRA eMDT test case 8.6.3.4	12.2.0	12.3.0
2015-09	RAN#69	R5s150653	2827	-	Correction of GCF WI-091 EUTRA RLC test case 7.2.2.10	12.2.0	12.3.0
2015-09	RAN#69	R5s150654	2828	-	Addition of GCF WI-209 LTE-UTRA FE-FACH test case 6.2.4.7	12.2.0	12.3.0
2015-09	RAN#69	R5s150656	2897	-	LTE_TDD: Addition of GCF WI-209 LTE-UTRA FE-FACH test case	12.2.0	12.3.0
2015-09	RAN#69	R5s150658	2829	-	Re-verification of GCF WI-200 LTE-A elCIC test case 8.3.1.21 (new	12.2.0	12.3.0
2015-09	RAN#69	R5s150660	2830	-	test model with OCNG simulation in non-ABS subframes)  Correction to EUTRA eMBMS_SC_CA test cases 17.4.11.1 and	12.2.0	12.3.0
2015-09	RAN#69	R5s150661	2831	-	17.4.11.2 Correction for LTE-A CA test case 8.2.4.20.2	12.2.0	12.3.0
2015-09	RAN#69	R5s150662	2832	-	Correction of LTE_A MDT/eMDT test cases 8.6.4.5, 8.6.4.9, 8.6.5.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150663	2833	-	and 8.6.2.12 Correction to common function f_EUTRA_CA_SetDIUlBandwidth()	12.2.0	12.3.0
2015-09	RAN#69	R5s150664	2834	-	Correction of LTE_A MDT/eMDT test cases	12.2.0	12.3.0
2015-09	RAN#69	R5s150669	2835	-	Addition of Rel-10 LTE-CA Inter band test case 8.2.2.3.2 in FDD+TDD band combination	12.2.0	12.3.0

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2015-09	RAN#69	R5s150671	2836	-	Addition of Rel-10 LTE-CA Inter band test case 8.5.1.7.2 in FDD+TDD band combination	12.2.0	12.3.0
2015-09	RAN#69	R5s150673	2837	-	Correction to APN name for IMS PDN in MultiPDN testing	12.2.0	12.3.0
2015-09	RAN#69	R5s150689	2838	-	Correction to UTRAN postamble function for IMS emergency call test cases	12.2.0	12.3.0
2015-09	RAN#69	R5s150696	2839	-	Addition of GCF WI-200 LTE-A elCIC test case 8.3.1.28 (new test model with OCNG simulation in non-ABS subframes)	12.2.0	12.3.0
2015-09	RAN#69	R5s150698	2898	-		12.2.0	12.3.0
2015-09	RAN#69	R5s150701	2840	-	Correction to test case 10.3.1 and 10.9.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150703	2841	-	Correction to GCF WI-151 Measurement configuration control and reporting test 8.3.1.16a	12.2.0	12.3.0
2015-09	RAN#69	R5s150719	2899	-	LTE_TDD: Addition of Rel-10 LTE-A CA test case 8.2.4.16.2	12.2.0	12.3.0
2015-09	RAN#69	R5s150722	2842	-	Correction to GCF WI-156 Measurement configuration control and reporting test 8.3.1.16	12.2.0	12.3.0
2015-09	RAN#69	R5s150723	2843	-	Correction to eMBMS test cases 17.3.x	12.2.0	12.3.0
2015-09	RAN#69	R5s150724	2844	-	Correction to eMBMS test case 17.1.3	12.2.0	12.3.0
2015-09	RAN#69	R5s150727	2900	-	LTE_TDD: Addition of LTE<>1xRTT testcase 13.1.18	12.2.0	12.3.0
2015-09	RAN#69	R5s150729	2845	-	Corrections of GCF WI-087 and WI-097 test cases 13.1.9 and 13.1.10	12.2.0	12.3.0
2015-09	RAN#69	R5s150730	2846	-	Addition of GCF WI-227 Inter-RAT eMDT test case 8.6.10.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150732	2901	-	LTE_TDD: Addition of GCF WI-227 Inter-RAT eMDT test case 8.6.10.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150734	2847	-	Correction to GCF WI-81 RRC test cases 8.2.1.5 and 8.2.1.6	12.2.0	12.3.0
2015-09	RAN#69	R5s150736	2848	-	Correction to LTE<>IRAT Testcases with IMS enabled	12.2.0	12.3.0
2015-09	RAN#69	R5s150737	2849	-	Correction of test case 13.3.2.2	12.2.0	12.3.0
2015-09	RAN#69	R5s150738	2850	-	Correction to bandwidth initialization of LTE-A CA test cases	12.2.0	12.3.0
2015-09	RAN#69	R5s150740	2851	-	Correction to GCF WI-103 ESM test case 10.4.2	12.2.0	12.3.0
2015-09	RAN#69	R5s150742	2852	-	Correction to IMS emergency call test cases	12.2.0	12.3.0
2015-09	RAN#69	R5s150743	2853	-	Addition of Rel-11 LTE-A SIMTC test case 9.2.1.1.27a	12.2.0	12.3.0
2015-09	RAN#69	R5s150745	2854	-	Addition of Rel-11 LTE-A SIMTC test case 10.5.1a	12.2.0	12.3.0
2015-09	RAN#69	R5s150747	2855	-	Addition of GCF WI-210 LTE-A SIMTC test case 9.2.1.2.4a	12.2.0	12.3.0
2015-09	RAN#69	R5s150749	2856	-	Addition of GCF WI-210 LTE-A SIMTC test case 9.2.3.2.4a	12.2.0	12.3.0
2015-09	RAN#69	R5s150753	2857	-	Addition of TC 8.7.1 - Inter-RAT / UTRAN ANR measurement, logging and reporting / E-UTRAN cell.	12.2.0	12.3.0
2015-09	RAN#69	R5s150756	2858	-	Addition of Rel-11 LTE-A SIMTC test case 8.1.1.7	12.2.0	12.3.0
2015-09	RAN#69	R5s150759	2902	-	LTE_TDD: Addition of Rel-11 LTE-A SIMTC test case 8.1.1.7	12.2.0	12.3.0
2015-09	RAN#69	R5s150761	2859	-	Addition of EUTRA-GERAN IMS Emergency Call test case 11.2.12	12.2.0	12.3.0
2015-09	RAN#69	R5s150763	2860	-	Correction to GCF WI-081 Idle mode test cases 6.1.1.4, 6.1.1.6, 6.1.1.6a	12.2.0	12.3.0
2015-09	RAN#69	R5s150764	2861	-	Correction to GCF WI-178 Rel-11 eMBMS test case 17.4.5	12.2.0	12.3.0
2015-09	RAN#69	R5s150765	2862	-	Correction to LTE-A MAC CA test cases 7.1.3.11.1,7.1.3.11.2 and 7.1.3.11.3	12.2.0	12.3.0
2015-09	RAN#69	R5s150766	2863	-	Addition of LTE-A Rel-11 Carrier Aggregation test case 8.2.2.7.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150768	2903	-	LTE_TDD: Addition of LTE-A Rel-11 Carrier Aggregation test case 8.2.2.7.1	12.2.0	12.3.0
2015-09	RAN#69	R5s150770	2864	-	Correction to GCF WI-082 EMM test cases 9.3.1.7, 9.3.1.7a, 9.2.3.2.10, 9.2.3.1.13, 9.2.3.1.14.	12.2.0	12.3.0
2015-09	RAN#69	-	-	-	update of the "non-specific references" in section 2 according to the	12.2.0	12.3.0
2015-12	RAN#70	R5-155055	2906	-	approved R5-153582 and an action point on ETSI MCC Low-cost MTC: Test Model enhancement for half-duplex FDD Cat.0 UEs	12.3.0	12.4.0

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2015-12	RAN#70	R5-155057	2907	-	3GPP / WLAN Radio Interworking: Introduction of Test Model	12.3.0	12.4.0
2015-12	RAN#70	R5-155058	2908	-	D2D ProSe: Introduction of Test Model	12.3.0	12.4.0
2015-12	RAN#70	R5-155909	2909	1	Editorial update of Guidelines of EUTRA MFBI test cases	12.3.0	12.4.0
2015-12	RAN#70	R5-156151	2911	1	Routine maintenance for TS 36.523-3	12.3.0	12.4.0
2015-12	RAN#70	R5s150694	2912	-	LTE_TDD: Addition of GCF WI-201 LTE-A elCIC test case 8.3.1.21 ( new test model with OCNG simulation in non-ABS subframes)	12.3.0	12.4.0
2015-12	RAN#70	R5s150704	2913	-	Addition of Rel-11 EUTRA<>UTRA rSRVCC test case 13.4.3.32	12.3.0	12.4.0
2015-12	RAN#70	R5s150741	2914	-	Correction to IMS SIP De-registration procedure for xSRVCC test	12.3.0	12.4.0
2015-12	RAN#70	R5s150751	2915	-	Addition of Rel-11 EUTRA<>UTRA rSRVCC test case 13.4.3.34	12.3.0	12.4.0
2015-12	RAN#70	R5s150771	2916	-	Correction of Cell reselection test case 6.1.2.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150772	2917	-	Correction of Intra E-UTRAN measurement test case 8.3.1.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150774	2918	-	Correction to GCF WI-0150 EUTRA RRC test case 8.5.1.6	12.3.0	12.4.0
2015-12	RAN#70	R5s150777	2919	-	Correction to GCF WI-082 SMS over SGs test cases 11.1.3, 11.1.4, 11.1.5, 11.1.6	12.3.0	12.4.0
2015-12	RAN#70	R5s150778	2920	-	Addition of Rel-11 LTE-A SIMTC test case 10.5.1b	12.3.0	12.4.0
2015-12	RAN#70	R5s150782	2921	-	Addition of LTE-A 2x UL Carrier Aggregation test case 8.2.2.7.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150784	2922	-	LTE_TDD: Addition of LTE-A 2x UL Carrier Aggregation test case 8.2.2.7.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150787	2923	-	Addition of LTE-A 2UL Carrier Aggregation MAC test case 7.1.4.19.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150789	2924	-	LTE_TDD: Addition of LTE-A 2UL Carrier Aggregation MAC test	12.3.0	12.4.0
2015-12	RAN#70	R5s150790	2925	-	case 7.1.4.19.2 LTE_TDD: Addition of LTE-A 2x UL Carrier Aggregation test case 8.2.2.7.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150793	2926	-	Correction to LTE-A RRC CA test cases 8.3.1.18.1, 8.3.1.18.2 and 8.3.1.18.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150794	2927	-	Correction to GCF WI-082 EMM test case 9.2.1.2.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150796	2928	-	Correction to GEA4 and A5/4 Ciphering Algorithm Implementation	12.3.0	12.4.0
2015-12	RAN#70	R5s150797	2929	-	Addition of LTE-A 2UL Carrier Aggregation RACH on SCell test case 7.1.2.10.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150799	2930	-		12.3.0	12.4.0
2015-12	RAN#70	R5s150801	2931	-	Correction to EUTRA Idle-mode test case 6.1.2.3a	12.3.0	12.4.0
2015-12	RAN#70	R5s150802	2932	-	Correction to GCF WI-081 EUTRA Idle Mode test case 6.1.1.1b	12.3.0	12.4.0
2015-12	RAN#70	R5s150803	2933	-	Correction to LTE UTRA CSG test case 6.3.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150804	2934	-	Correction to LTE-UTRA CSG test case 6.3.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150806	2935	-	Correction to GCF WI-082 ESM test case 10.2.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150807	2936	-	Correction to LTE-A (Rel-11) rSRVCC test case 13.4.3.34	12.3.0	12.4.0
2015-12	RAN#70	R5s150808	2937	-	Correction of 7.1.7.1.x and 7.1.7.2.1 test cases	12.3.0	12.4.0
2015-12	RAN#70	R5s150810	2938	-	Addition of Rel-11 LTE-A SIMTC test case 9.2.3.1.8a	12.3.0	12.4.0
2015-12	RAN#70	R5s150812	2939	-	Correction to GCF WI-087 EUTRA RRC Test case 8.4.3.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150815	2940	-	Correction to GCF WI-087 EUTRA Idle mode Testcases 6.2.3.28, 6.2.3.30	12.3.0	12.4.0
2015-12	RAN#70	R5s150816	2941	-	Correction to GCF WI-179 LTE-NIMTC testcase 9.2.1.1.2a	12.3.0	12.4.0
2015-12	RAN#70	R5s150819	2942	-	Correction to LTE-A MAC test case 7.1.3.11.x	12.3.0	12.4.0
2015-12	RAN#70	R5s150820	2943	-	Correction to LTE-A RRC CA test cases 8.2.4.16.1,8.2.4.16.2 and 8.2.4.16.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150821	2944	-	Addition of Rel-11 LTE-A SIMTC test case 9.2.3.1.8b	12.3.0	12.4.0

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2015-12	RAN#70	R5s150824	2945	-	Correction to GCF WI-087 Multi-layer testcase 13.3.2.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150828	2946	-	Correction to GCF WI-162 CA IRAT test case 8.4.2.7.1, 8.4.2.7.2 and 8.4.2.7.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150833	2947	-	Addition of GCF WI-227 Inter-RAT eMDT test case 8.6.7.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150836	2948	-	Correction to TestCases 6.2.2.2, 6.2.3.1, 6.2.3.1a	12.3.0	12.4.0
2015-12	RAN#70	R5s150837	2949	-	Correction to configuration of DRX	12.3.0	12.4.0
2015-12	RAN#70	R5s150838	2950	-	Correction to UTRAN function f_UTRAN_GMM_ServReq	12.3.0	12.4.0
2015-12	RAN#70	R5s150839	2951	-	Correction of GCF WI-081 Testcases 12.2.x and 12.3.x	12.3.0	12.4.0
2015-12	RAN#70	R5s150840	2952	-	Correction of GCF WI-082 EPC test case 9.3.2.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150842	2953	-	Correction of GCF WI 82 EPC test case 9.1.2.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150844	2954	-	Correction to Rel-9 eMBMS test case 17.2.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150845	2955	-	Correction to SS configuration for UTRAN	12.3.0	12.4.0
2015-12	RAN#70	R5s150847	2956	-	Correction to GCF WI-162 CA testcases 8.4.2.7.x	12.3.0	12.4.0
2015-12	RAN#70	R5s150848	2957	-	Correction to GCF WI-162 TestCase 7.1.3.11.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150849	2958	-	Correction to IMSs emergency call TestCases 11.2.1, 11.2.2 and	12.3.0	12.4.0
2015-12	RAN#70	R5s150852	2959	-	11.2.5 Correction of GCF WI-162-Inter test cases 8.2.2.3.x	12.3.0	12.4.0
2015-12	RAN#70	R5s150853	2960	-	Correction to GCF WI-086 SRVCC Testcases 13.4.3.x	12.3.0	12.4.0
2015-12	RAN#70	R5s150855	2961	-	Correction to IMS emergency call TestCases 11.2.6	12.3.0	12.4.0
2015-12	RAN#70	R5s150856	2962	-	Correction to Rel-11 rSRVCC test case 13.4.3.32	12.3.0	12.4.0
2015-12	RAN#70	R5s150857	2963	-	Correction of function	12.3.0	12.4.0
2015-12	RAN#70	R5s150858	2964	-	f_EUTRA_508Check_TrackingAreaUpdating_AfterHO_Steps7to8 Correction to GCF WI-087 EUTRA EMM testcase 9.2.3.3.5	12.3.0	12.4.0
2015-12	RAN#70	R5s150859	2965	-	Correction to GCF WI-081 testcase 7.2.3.5	12.3.0	12.4.0
2015-12	RAN#70	R5s150860	2966	-	Correction to GCF WI-082 EUTRA EMM test case 9.2.1.1.22	12.3.0	12.4.0
2015-12	RAN#70	R5s150861	2967	-	Correction to eMBMS-SC test cases 17.4.x	12.3.0	12.4.0
2015-12	RAN#70	R5s150862	2968	-	Correction to Bandwidth in MIB in initialisation of CA Testcases	12.3.0	12.4.0
2015-12	RAN#70	R5s150863	2969	-	Correction to EMM test case 9.2.2.1.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150867	2970	-	Correction to Rel-8 LTE<>GERAN test cases	12.3.0	12.4.0
2015-12	RAN#70	R5s150869	2971	-	Correction to ESM test case 10.2.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150870	2972	-	Correction to Rel-10 MDT test case 8.6.4.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150871	2973	-	Addition of LTE-A Rel-11 test case 8.5.4.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150874	2974	-	Correction to Rel-11 SIMTC test case 10.5.1b	12.3.0	12.4.0
2015-12	RAN#70	R5s150875	2975	-	Correction of GCF WI-227-Handover failure logging test case	12.3.0	12.4.0
2015-12	RAN#70	R5s150876	2976	-	8.6.6.6 Correction of GCF WI-227 RLF logging test case 8.6.4.9	12.3.0	12.4.0
2015-12	RAN#70	R5s150877	2977	-	Correction to EMM test case 9.2.1.1.30	12.3.0	12.4.0
2015-12	RAN#70	R5s150882	2978	  -	LTE_TDD: Addition of LTE-A Rel-11 test case 8.5.4.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150884	2979	-	Correction of Postamble procedure for LTE<>1xRTT Pre-	12.3.0	12.4.0
2015-12	RAN#70	R5s150887	2980	-	registration TCs Correction to IMS Emergency Call test case 11.2.10	12.3.0	12.4.0
2015-12	RAN#70	R5s150899	2981	-	Correction to UTRAN postamble function for IMS emergency call	12.3.0	12.4.0
					test cases		

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2015-12	RAN#70	R5s150901	2982	-	Correction to GCF WI-172 EUTRA<>GERAN aSRVCC testcases 13.4.3.26 and 13.4.3.28	12.3.0	12.4.0
2015-12	RAN#70	R5s150902	2983	-	Correction to test case 9.2.3.2.12 with IMS enabled	12.3.0	12.4.0
2015-12	RAN#70	R5s150903	2984	-	Correction to GCF WI-179 NiMTC test case 6.1.1.7	12.3.0	12.4.0
2015-12	RAN#70	R5s150904	2985	-	Correction to MAC layer CA test cases 7.1.4.19.x	12.3.0	12.4.0
2015-12	RAN#70	R5s150905	2986	-	Correction to LTE<>GERAN test cases 6.2.3.23, 6.2.3.24, 6.2.3.29	12.3.0	12.4.0
2015-12	RAN#70	R5s150906	2987	-	LTE_TDD: Addition of Rel-10 LTE-A NIMTC test case 6.1.1.7	12.3.0	12.4.0
2015-12	RAN#70	R5s150912	2988	-	Correction to EUTRA eMDT test case 8.6.11.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150913	2989	-	Correction to TestCases 6.2.2.2, 6.2.3.1, 6.2.3.1a with IMS enabled	12.3.0	12.4.0
2015-12	RAN#70	R5s150914	2990	-	Correction to UL EARFCN for CA_4A-30A	12.3.0	12.4.0
2015-12	RAN#70	R5s150917	2991	-	Correction to SS configuration for UTRAN	12.3.0	12.4.0
2015-12	RAN#70	R5s150920	2992	-	LTE_TDD: Addition of Rel-10 LTE-A NIMTC test case 6.1.1.7a	12.3.0	12.4.0
2015-12	RAN#70	R5s150922	2993	-	Correction to LTE MAC test cases (( IMS enabled UE / Multi-PDN)	12.3.0	12.4.0
2015-12	RAN#70	R5s150923	2994	-	Correction to MDT test cases 8.6.6.1,8.6.6.2 and 8.6.6.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150924	2995	-	Addition of EUTRA eMDT test case 8.6.8.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150926	2996	-	LTE-TDD : Addition of EUTRA eMDT test case 8.6.8.4	12.3.0	12.4.0
2015-12	RAN#70	R5s150928	2997	-	Addition of SSAC test case 13.5.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150930	2998	-	Addition of SSAC test case 13.5.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150932	2999	-	Addition of SSAC test case 13.5.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150935	3000	-	LTE_TDD : Addition of SSAC test case 13.5.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150937	3001	-	LTE_TDD : Addition of SSAC test case 13.5.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150939	3002	-	LTE_TDD : Addition of SSAC test case 13.5.3	12.3.0	12.4.0
2015-12	RAN#70	R5s150941	3003	-	Addition of 6.2.3.27 - InterRAT GCF WI-87 EUTRA<>GERAN Test case	12.3.0	12.4.0
2015-12	RAN#70	R5s150943	3004	-		12.3.0	12.4.0
2015-12	RAN#70	R5s150944	3005	-	Correction to test case 9.2.3.2.2 with IMS enabled	12.3.0	12.4.0
2015-12	RAN#70	R5s150947	3006	-	Correction for LTE test cases requiring IMS registration	12.3.0	12.4.0
2015-12	RAN#70	R5s150948	3007	-	Correction to eMBMS_SC_CA test cases 17.4.11.1 and 17.4.11.2	12.3.0	12.4.0
2015-12	RAN#70	R5s150954	3008	-	Addition of EUTRA Rel-11 eDDA test case 8.2.2.6.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150957	3009	-	LTE-TDD : Addition of EUTRA Rel-11 eDDA test case 8.2.2.6.1	12.3.0	12.4.0
2015-12	RAN#70	R5s150960	3010	-	Correction to EUTRA RRC test case 8.2.4.1 (( IMS enabled UE / Multi-PDN)	12.3.0	12.4.0
2015-12	RAN#70	R5s150961	3011	-	Correction to EMM test case 9.2.2.2.1 (( IMS enabled UE / Multi-PDN)	12.3.0	12.4.0
2015-12	RAN#70	R5s150963	3012	-	Correction to EMM test cases for IMS-enabled UEs	12.3.0	12.4.0
2015-12	RAN#70	R5s150964	3013	-	Correction of	12.3.0	12.4.0
2015-12	RAN#70	R5s150966	3014	-	f_EUTRA_508_IMSEmergencyCallLimitedService_Steps5a1_15 Correction to function f_TC_8_4_2_7_Common_UTRAN	12.3.0	12.4.0
2015-12	RAN#70	R5s150969	3015	-	Correction to GCF WI-082 EMM test case 9.3.1.18	12.3.0	12.4.0
2015-12	RAN#70	R5s150971	3016	-	Correction to function f_IMS_InviteRequest_MessageHeaderRX() for SRVCC test cases	12.3.0	12.4.0
2015-12	RAN#70	RP-151694	3017	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test	12.3.0	12.4.0
2016-03	RAN#71	R5-160083	3076	-	cases in the TC lists in 36.523-3 (prose), Annex A WLAN/3GPP Radio Interworking: Test Model updates	12.4.0	12.5.0

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2016-03	RAN#71	R5-160637	3098	-	IXIT parameters required for ProSe TCs	12.4.0	12.5.0
2016-03	RAN#71	R5-160764	3097	1	Guideline update for 6.2.3.34	12.4.0	12.5.0
2016-03	RAN#71	R5-160779	3077	1	D2D ProSe: Test Model updates	12.4.0	12.5.0
2016-03	RAN#71	R5-160961	3088	1	Dual Connectivity: Introduction of Test Model	12.4.0	12.5.0
2016-03	RAN#71	R5-160981	3075	1	Routine maintenance for TS 36.523-3	12.4.0	12.5.0
2016-03	RAN#71	R5s150866	3122	-	Correction of GCF WI-082 test case 9.1.5.1	12.4.0	12.5.0
2016-03	RAN#71	R5s150962	3123	-	Correction to LTE-InterRAT ANR test case 8.7.1	12.4.0	12.5.0
2016-03	RAN#71	R5s150973	3124	-	LTE_TDD: Addition of EUTRA eMBMS test case 17.3.1	12.4.0	12.5.0
2016-03	RAN#71	R5s150977	3125	-	E-UTRA RRC asn.1 baseline upgrade to Rel-12 Sep-2015	12.4.0	12.5.0
2016-03	RAN#71	R5s150978	3126	-	Addition of GCF WI-103 EUTRA EMM test case 9.2.1.1.28a	12.4.0	12.5.0
2016-03	RAN#71	R5s150982	3127	-	Correction to LTE-IRAT CSG testcase 6.3.7	12.4.0	12.5.0
2016-03	RAN#71	R5s150983	3128	-	Correction to LTE CSG testcase 6.3.1	12.4.0	12.5.0
2016-03	RAN#71	R5s150984	3129	-	Correction to LTE testcase 6.3.5	12.4.0	12.5.0
2016-03	RAN#71	R5s150985	3130	-	Correction to LTE CSG testcase 6.4.1	12.4.0	12.5.0
2016-03	RAN#71	R5s150986	3131	-	Correction to LTE CSG testcase 6.4.2	12.4.0	12.5.0
2016-03	RAN#71	R5s150987	3132	-	Correction to LTE-IRAT CSG testcase 6.4.3	12.4.0	12.5.0
2016-03	RAN#71	R5s150988	3133	-	Correction to LTE-IRAT CSG testcase 6.4.4	12.4.0	12.5.0
2016-03	RAN#71	R5s150989	3134	-	Correction to LTE-IRAT CSG testcase 6.4.5	12.4.0	12.5.0
2016-03	RAN#71	R5s150990	3135	-	Correction to LTE CSG testcase 6.4.6	12.4.0	12.5.0
2016-03	RAN#71	R5s150991	3136	-	Correction to LTE CSG testcase 8.3.4.1	12.4.0	12.5.0
2016-03	RAN#71	R5s150992	3137	-	Correction to LTE CSG testcase 8.3.4.2	12.4.0	12.5.0
2016-03	RAN#71	R5s150993	3138	-	Correction to LTE CSG testcase 8.3.4.3	12.4.0	12.5.0
2016-03	RAN#71	R5s150994	3139	-	Correction to LTE CSG testcase 9.2.1.1.18	12.4.0	12.5.0
2016-03	RAN#71	R5s150995	3140	-	Correction to LTE CSG testcase 9.2.1.2.14	12.4.0	12.5.0
2016-03	RAN#71	R5s150996	3141	-	Correction to LTE CSG testcase 9.2.3.1.9	12.4.0	12.5.0
2016-03	RAN#71	R5s150997	3142	-	Correction to LTE CSG testcase 9.2.3.1.20	12.4.0	12.5.0
2016-03	RAN#71	R5s150998	3143	-	Correction to LTE CSG testcase 9.2.3.2.16	12.4.0	12.5.0
2016-03	RAN#71	R5s150999	3144	-	Correction to LTE CSG testcase 9.3.1.18	12.4.0	12.5.0
2016-03	RAN#71	R5s151000	3145	-	Correction to GCF WI-081 TestCase 7.1.4.4	12.4.0	12.5.0
2016-03	RAN#71	R5s151002	3146	-	Correction to LTE CSG testcase 8.3.4.4	12.4.0	12.5.0
2016-03	RAN#71	R5s151007	3147	-	Correction to EUTRA RRC MDT test case 8.6.6.2	12.4.0	12.5.0
2016-03	RAN#71	R5s151008	3148	-	Correction to EUTRA SSAC Emergency call testcase 13.5.3	12.4.0	12.5.0
2016-03	RAN#71	R5s151011	3149	-	Correction to IMS Emergency Call Limited Service Functionality	12.4.0	12.5.0
2016-03	RAN#71	R5s151012	3150	-	TTCN-3 Test Suites re-structuring	12.4.0	12.5.0
2016-03	RAN#71	R5s151013	3151	-	Correction to common function in ATS_15wk38	12.4.0	12.5.0
2016-03	RAN#71	R5s151015	3152	-	Correction to GCF WI-178 test case 9.2.3.4.1	12.4.0	12.5.0
2016-03	RAN#71	R5s151017	3153	-	Correction to SRVCC/aSRVCC/bSRVCC test cases	12.4.0	12.5.0

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2016-03	RAN#71	R5s151018	3154	-	LTE_TDD: Addition of Rel-11 LTE-A CA test case 8.2.4.16.3	12.4.0	12.5.0
2016-03	RAN#71	R5s151020	3155	-	Addition of EUTRA Rel-11 eDDA test case 8.2.2.6.3	12.4.0	12.5.0
2016-03	RAN#71	R5s151022	3156	_	LTE-TDD : Addition of EUTRA Rel-11 eDDA test case 8.2.2.6.3	12.4.0	12.5.0
2016-03	RAN#71	R5s151032	3157	-	Correction to TestCase 6.1.2.17	12.4.0	12.5.0
2016-03	RAN#71	R5s151033	3158	-	Correction to TestCase 9.2.3.2.2	12.4.0	12.5.0
2016-03	RAN#71	R5s151035	3159	-	Correction to TestCase 9.3.1.16	12.4.0	12.5.0
2016-03	RAN#71	R5s151036	3160	-	Correction to MBMS Test cases	12.4.0	12.5.0
2016-03	RAN#71	R5s151037	3161	-	Correction to SS configuration for UTRAN	12.4.0	12.5.0
2016-03	RAN#71	R5s151039	3162	-	Correction to Inter-Band EUTRAN Handover TCs 8.2.4.13a,	12.4.0	12.5.0
2016-03	RAN#71	R5s151040	3163	-	8.2.4.15a, 8.3.1.12a, 8.3.1.13a, 8.3.1.14a, 8.3.1.15a  Correction to GCF WI-82 TC 9.2.2.1.9	12.4.0	12.5.0
2016-03	RAN#71	R5s151041	3164	-	Correction to GCF WI-082 EUTRA EMM test case 9.2.1.1.22	12.4.0	12.5.0
2016-03	RAN#71	R5s151042	3165	-	Correction to TestCases 8.2.4.15a	12.4.0	12.5.0
2016-03	RAN#71	R5s151043	3166	-	Correction to TestCase 7.2.3.15	12.4.0	12.5.0
2016-03	RAN#71	R5s151044	3167	-	Correction to ESM test case 10.4.2	12.4.0	12.5.0
2016-03	RAN#71	R5s151045	3168	-	Correction to LTE-A CA test cases 8.2.4.18.x	12.4.0	12.5.0
2016-03	RAN#71	R5s151046	3169	-	Correction to EUTRA Inter-mode measurement test case 8.3.1.14a	12.4.0	12.5.0
2016-03	RAN#71	R5s160001	3018	-	Correction to GCF WI-086 EUTRA RRC test case 8.5.2.1	12.4.0	12.5.0
2016-03	RAN#71	R5s160002	3019	-	Correction to function f_CalculateStartValue_ConnectedMode	12.4.0	12.5.0
2016-03	RAN#71	R5s160003	3020	-	Addition of EUTRA MFBI test case 6.1.2.22	12.4.0	12.5.0
2016-03	RAN#71	R5s160005	3021	-	Correction of GCF WI-082 test case 9.1.5.1	12.4.0	12.5.0
2016-03	RAN#71	R5s160007	3022	-	Correction to f_EUTRA_SendUE_LocationInfromation	12.4.0	12.5.0
2016-03	RAN#71	R5s160008	3023	-	Correction to LTE CSG testcase 6.3.1	12.4.0	12.5.0
2016-03	RAN#71	R5s160009	3024	-	Correction to LTE CSG testcase 8.3.4.4	12.4.0	12.5.0
2016-03	RAN#71	R5s160010	3025	-	Correction of GCF WI-227 eMDT test cases 8.6.8.x and 8.6.9.x	12.4.0	12.5.0
2016-03	RAN#71	R5s160012	3026	-	Corrections to EMM test case 9.2.1.1.28a	12.4.0	12.5.0
2016-03	RAN#71	R5s160016	3027	-	Correction to postamble of LTE test case 9.2.1.1.28a	12.4.0	12.5.0
2016-03	RAN#71	R5s160017	3028	-	Correction to ESM test case 10.5.3	12.4.0	12.5.0
2016-03	RAN#71	R5s160020	3029	-	Correction to EUTRA RRC Test case 8.1.1.3	12.4.0	12.5.0
2016-03	RAN#71	R5s160021	3030	-	Addition of LTE Inter-RAT IMS Emergency Call test case 13.1.19	12.4.0	12.5.0
2016-03	RAN#71	R5s160023	3031	-	Addition of LTE Inter-RAT IMS Emergency Call test case 13.1.20	12.4.0	12.5.0
2016-03	RAN#71	R5s160025	3032	-	LTE_TDD: Addition of LTE Inter-RAT IMS Emergency Call test case 13.1.19	12.4.0	12.5.0
2016-03	RAN#71	R5s160027	3033	-	LTE_TDD: Addition of LTE Inter-RAT IMS Emergency Call test case 13.1.20	12.4.0	12.5.0
2016-03	RAN#71	R5s160033	3034	-	Corrections to LTE Emergency Call Limited Service Functionality	12.4.0	12.5.0
2016-03	RAN#71	R5s160034	3035	-	Correction to LTE CSG testcase 6.4.5	12.4.0	12.5.0
2016-03	RAN#71	R5s160035	3036	-	Correction to EUTRA RRC CA test cases 8.2.2.3.1 & 8.2.2.3.2	12.4.0	12.5.0
2016-03	RAN#71	R5s160037	3037	-	Addition of EUTRA Rel-11 eDDA test case 8.2.2.6.2	12.4.0	12.5.0
2016-03	RAN#71	R5s160039	3038	-	LTE-TDD : Addition of EUTRA Rel-11 eDDA test case 8.2.2.6.2	12.4.0	12.5.0

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2016-03	RAN#71	R5s160042	3040	-	Correction to UL CA inter-band test cases	12.4.0	12.5.0
2016-03	RAN#71	R5s160044	3041	-	Corrections to ESM test case 10.4.2	12.4.0	12.5.0
2016-03	RAN#71	R5s160047	3042	-	Correction to EUTRA MAC test case 7.1.4.4	12.4.0	12.5.0
2016-03	RAN#71	R5s160048	3043	-	Corrections to XID/ IPv6 handling in LTE-GERAN test cases	12.4.0	12.5.0
2016-03	RAN#71	R5s160049	3044	-	Correction to EUTRA EMM test case 9.2.3.1.6	12.4.0	12.5.0
2016-03	RAN#71	R5s160050	3045	-	Correction to EUTRA RRC test case 8.5.4.1 for multi-PDN operation	12.4.0	12.5.0
2016-03	RAN#71	R5s160051	3046	-	Correction to EUTRA RRC test case 8.5.4.1 for IMS enabled UE (Multi PDN support)	12.4.0	12.5.0
2016-03	RAN#71	R5s160053	3048	-	Correction to LTE SSAC test case 13.5.3	12.4.0	12.5.0
2016-03	RAN#71	R5s160056	3050	-	Correction to EUTRA RRC InterRAT measurement on 1xRTT test case 8.3.2.10	12.4.0	12.5.0
2016-03	RAN#71	R5s160057	3051	-	Correction to test case 9.3.1.16	12.4.0	12.5.0
2016-03	RAN#71	R5s160059	3052	-	Correction to TestCase 7.1.4.7a	12.4.0	12.5.0
2016-03	RAN#71	R5s160063	3054	-	Correction to EMM test case 9.3.1.17 for IMS-enabled UEs	12.4.0	12.5.0
2016-03	RAN#71	R5s160064	3055	-	Corrections to eMBMS_SC test case 17.4.10.1 and 17.4.10.2	12.4.0	12.5.0
2016-03	RAN#71	R5s160065	3056	-	Correction to IMS emergency test cases 13.1.19 and 13.1.20	12.4.0	12.5.0
2016-03	RAN#71	R5s160066	3057	-	Correction to EUTRA Idle Mode CSG test case 6.3.4	12.4.0	12.5.0
2016-03	RAN#71	R5s160067	3058	-	Correction to EUTRA Idle mode HeNB test case 6.4.6	12.4.0	12.5.0
2016-03	RAN#71	R5s160068	3059	-	Correction for EMM test case 9.2.2.1.3	12.4.0	12.5.0
2016-03	RAN#71	R5s160079	3062	-	Correction to test case 9.2.3.1.16 with IMS enabled	12.4.0	12.5.0
2016-03	RAN#71	R5s160080	3063	-	Correction to test case 9.2.3.1.18 with IMS enabled	12.4.0	12.5.0
2016-03	RAN#71	R5s160081	3064	-	Correction to test case 9.2.3.1.18a with IMS enabled	12.4.0	12.5.0
2016-03	RAN#71	R5s160083	3066	-	LTE_TDD: Addition of LTE-A Carrier Aggregation test case 7.1.4.19.1	12.4.0	12.5.0
2016-03	RAN#71	R5s160084	3067	-	Addition of LTE-A Carrier Aggregation test case 7.1.4.19.1	12.4.0	12.5.0
2016-03	RAN#71	R5s160091	3068	-	Correction to LTE IRAT testcase 6.3.3	12.4.0	12.5.0
2016-03	RAN#71	R5s160093	3070	-	Addition of LTE-CA Inter band test case 8.5.1.7.2 in Rel-12 FDD+TDD band combination	12.4.0	12.5.0
2016-03	RAN#71	R5s160094	3071	-	Correction to LTE IRAT testcase 6.3.4	12.4.0	12.5.0
2016-03	RAN#71	R5s160095	3072	-	Correction to LTE IRAT testcase 6.4.6	12.4.0	12.5.0
2016-03	RAN#71	R5s160097	3073	-	Correction to EUTRA EMM test cases 9.4.x on multi-PDN UE	12.4.0	12.5.0
2016-03	RAN#71	R5s160098	3074	-	Correction to EUTRA band 25 – CDMA BC 1 band combination	12.4.0	12.5.0
2016-03	RAN#71	R5s160103	3079	-	Addition of Rel-12 SSAC test case 13.5.1a	12.4.0	12.5.0
2016-03	RAN#71	R5s160104	3080	-	LTE_TDD : Addition of Rel-12 SSAC test case 13.5.1a	12.4.0	12.5.0
2016-03	RAN#71	R5s160110	3082	-	Addition of Rel-12 SSAC test case 13.5.2a	12.4.0	12.5.0
2016-03	RAN#71	R5s160112	3083	-	LTE_TDD : Addition of Rel-12 SSAC test case 13.5.2a	12.4.0	12.5.0
2016-03	RAN#71	R5s160118	3086	-	Addition of Rel-12 SSAC test case 13.5.3a	12.4.0	12.5.0
2016-03	RAN#71	R5s160120	3087	-	LTE_TDD : Addition of Rel-12 SSAC test case 13.5.3a	12.4.0	12.5.0
2016-03	RAN#71	R5s160123	3089	-	Correction to LTE IRAT MFBI test case 6.2.3.35	12.4.0	12.5.0
2016-03	RAN#71	R5s160124	3090	-	Correction to EUTRA RRC Handover test cases 8.2.4.13a, 8.3.1.12a and 8.3.1.13a	12.4.0	12.5.0
2016-03	RAN#71	R5s160126	3091	-	Correction to Cell-FACH RB setup procedure.	12.4.0	12.5.0

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2016-03	RAN#71	R5s160133	3093	-	Facilitating support for IMS registration over UTRAN for Inter-RAT test cases starting in UTRAN	12.4.0	12.5.0
2016-03	RAN#71	R5s160134	3094	-	Addition of LTE-CA Inter band test case 8.2.4.19.2 in Rel-12 FDD+TDD band combination	12.4.0	12.5.0
2016-03	RAN#71	R5s160137	3095	-	Correction to RPLMN test case 6.1.1.8	12.4.0	12.5.0
2016-03	RAN#71	R5s160138	3096	-	Correction to RPLMN test case 6.1.1.9.	12.4.0	12.5.0
2016-03	RAN#71	R5s160140	3099	-	Correction to eDDA Testcase 8.2.2.6.3	12.4.0	12.5.0
2016-03	RAN#71	R5s160141	3100	-	Correction to eMDT Testcase 8.6.7.4	12.4.0	12.5.0
2016-03	RAN#71	R5s160142	3101	-	Correction to eMDT testcase 8.6.7.1	12.4.0	12.5.0
2016-03	RAN#71	R5s160144	3102	-	Correction to function f_IMS_MessageRequest_MessageHeaderRX_RSRVCC	12.4.0	12.5.0
2016-03	RAN#71	R5s160145	3103	-	Correction to LTE-A eMBMS-SC-CA test case 17.4.9.1 and 17.4.9.2	12.4.0	12.5.0
2016-03	RAN#71	R5s160146	3104	-	Correction to encoding of IMS APN name (IMS enabled UE / Multi-PDN)	12.4.0	12.5.0
2016-03	RAN#71	R5s160147	3105	-	Correction to test case 8.2.4.14a, function f_TC_8_2_4_14a_EUTRA() in RRC_Handover.ttcn	12.4.0	12.5.0
2016-03	RAN#71	R5s160154	3106	-	Correction to LTE IRAT test case 9.2.3.3.1	12.4.0	12.5.0
2016-03	RAN#71	R5s160155	3107	-	Addition of GCF WI-227 Inter-RAT eMDT test case 8.6.5.4	12.4.0	12.5.0
2016-03	RAN#71	R5s160159	3109	-	LTE_TDD - Addition of 6.2.3.27 - InterRAT GCF WI-97 EUTRA<>GERAN Test case	12.4.0	12.5.0
2016-03	RAN#71	R5s160160	3110	-	Correction for SysInfo Configuration c14	12.4.0	12.5.0
2016-03	RAN#71	R5s160163	3113	-	LTE_TDD : Addition of EUTRA Rel-11 eMDT test case 8.6.5.4	12.4.0	12.5.0
2016-03	RAN#71	R5s160172	3117	-	Correction to applicability for EUTRA MFBI test case 6.1.2.22	12.4.0	12.5.0
2016-03	RAN#71	R5s160253	3174	-	Corrections to IMS emergency call test cases	12.4.0	12.5.0
2016-03	RAN#71	RP-160124	3121	-	CR to 36.523-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	12.4.0	12.5.0
2016-06	RAN#72	R5-162026	3249	-	D2D ProSe: Test Model updates	12.5.0	12.6.0
2016-06	RAN#72	R5-163035	3281	1	Dual Connectivity: Test Model updates	12.5.0	12.6.0
2016-06	RAN#72	R5-163084	3288	1	Addition of PIXIT parameter required for MFBI ehancement test case	12.5.0	12.6.0
2016-06	RAN#72	R5-163085	3248	1	Routine maintenance for TS 36.523-3	12.5.0	12.6.0
2016-06	RAN#72	R5s160296	3201	-	Correction to IMS Emergency Call test case 11.2.6	12.5.0	12.6.0
2016-06	RAN#72	R5s160298	3202	-	Addition of Rel-11 EUTRA MAC test case 7.1.2.10.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160301	3204	-	Addition of Rel-11 EUTRA MAC test case 7.1.2.10.3	12.5.0	12.6.0
2016-06	RAN#72	R5s160303	3205	-	Addition of LTE-CA Inter band test case 8.2.2.3.2 in Rel-12	12.5.0	12.6.0
2016-06	RAN#72	R5s160305	3206	-	Correction to Rel-10 EUTRA MAC test cases 7.1.4.18 and 7.1.4.21	12.5.0	12.6.0
2016-06	RAN#72	R5s160306	3207	-	Correction to EMM test case 9.1.3.1 for IMS-enabled UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160308	3209	-	Correction to EMM test case 9.1.2.5 (Multi-PDN / IMS enabled UE)	12.5.0	12.6.0
2016-06	RAN#72	R5s160309	3210	-	Correction to EMM test case 9.1.2.7 (Multi-PDN / IMS enabled UE)	12.5.0	12.6.0
2016-06	RAN#72	R5s160315	3213	-	Addition of LTE-A CA 2UL test case 7.1.2.11.2	12.5.0	12.6.0
2016-06	RAN#72	R5s160317	3214	-	LTE_TDD: Addition of LTE-A CA 2UL test case 7.1.2.11.2	12.5.0	12.6.0
2016-06	RAN#72	R5s160319	3215	-	Correction to function f_Get_508_EPSBearerTI	12.5.0	12.6.0
2016-06	RAN#72	R5s160320	3216	-	Correction to EUTRA RRC test case 8.5.4.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160321	3217	-	Correction to EMM test case 9.2.3.1.25	12.5.0	12.6.0
2016-06	RAN#72	R5s160322	3218	-	Addition of Rel-11 LTE-A CA test case 8.2.2.7.3	12.5.0	12.6.0
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2016-06	RAN#72	R5s160326	3219	-	Correction to testcase 7.3.5.5	12.5.0	12.6.0
2016-06	RAN#72	R5s160327	3220	-	Correction to IMS Emergency Call test case 11.2.6	12.5.0	12.6.0
2016-06	RAN#72	R5s160329	3222	-	Correction to Cell-FACH RB setup procedure	12.5.0	12.6.0
2016-06	RAN#72	R5s160330	3223	-	Correction to (x)SRVCC test cases 13.4.3.2, 13.4.3.15 and 13.4.3.18	12.5.0	12.6.0
2016-06	RAN#72	R5s160331	3224	-	Corrections to EMM test case 9.2.1.1.29	12.5.0	12.6.0
2016-06	RAN#72	R5s160333	3226	-	Correction to test case 9.2.3.2.14 with IMS enabled	12.5.0	12.6.0
2016-06	RAN#72	R5s160334	3227	-	Corrections to EMM test cases 9.2.1.1.1a and 9.2.1.1.1b for Multi-PDN UEs	12.5.0	12.6.0
2016-06	RAN#72	R5s160335	3228	-	Correction to EMM test case 9.2.3.1.16 for IMS-enabled UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160336	3229	-	Corrections to Rel-12 SSAC test cases	12.5.0	12.6.0
2016-06	RAN#72	R5s160337	3230	-	Correction to EUTRA LTE-A<>IRAT TestCase 8.6.5.4	12.5.0	12.6.0
2016-06	RAN#72	R5s160340	3231	-	Correction to EMM test case 9.2.2.2.14 (IMS enabled UE / Multi-PDN)	12.5.0	12.6.0
2016-06	RAN#72	R5s160341	3232	-	Correction to usage of function f_EUTRA_RRC_ActivateSecurity	12.5.0	12.6.0
2016-06	RAN#72	R5s160342	3233	-	Correction to function f_EUTRA_MobileInfo_GetUECapability_UECategoryExtn	12.5.0	12.6.0
2016-06	RAN#72	R5s160343	3234	-	Corrections to GCF WI-086 CSG test case 6.3.4	12.5.0	12.6.0
2016-06	RAN#72	R5s160344	3235	-	Corrections to CSG test case 6.4.6	12.5.0	12.6.0
2016-06	RAN#72	R5s160346	3237	-	Correction to function f_EUTRA_508RRC_IntraLTE_HO_InterCell_Common_Steps1_12	12.5.0	12.6.0
2016-06	RAN#72	R5s160347	3238	-	Correction to Emergency Call test case 11.2.3	12.5.0	12.6.0
2016-06	RAN#72	R5s160348	3239	-	Correction to GCF WI-082 test case 9.2.3.1.18 with IMS enabled	12.5.0	12.6.0
2016-06	RAN#72	R5s160350	3241	-	Correction of GCF WI-082 EMM test case 9.1.5.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160351	3242	-	Correction to LTE-A eMBMS-SC-CA test case 17.4.9.1 and 17.4.9.2.	12.5.0	12.6.0
2016-06	RAN#72	R5s160354	3244	-	Addition of LTE-A UL CA test case 7.1.4.20.3	12.5.0	12.6.0
2016-06	RAN#72	R5s160359	3245	-	Corrections to EMM test case 9.2.1.2.1 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160360	3246	-	Corrections to EMM test case 9.2.1.1.19 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160361	3247	-	Corrections to EMM test case 9.2.1.1.24 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160362	3250	-	Corrections to EMM test case 9.2.1.1.1 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160363	3251	-	Corrections to EMM test case 9.2.1.2.1d for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160365	3253	-	Correction to EUTRA LTE<>IRAT TestCase 6.2.1.2 and 6.2.1.3	12.5.0	12.6.0
2016-06	RAN#72	R5s160367	3254	-	Correction to IMS MO video call SSAC test case 13.5.2a	12.5.0	12.6.0
2016-06	RAN#72	R5s160368	3255	-	Corrections to EMM test case 9.2.1.1.18 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160369	3256	-	Corrections to EMM test case 9.2.1.2.4a for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160370	3257	-	Corrections to EMM test case 9.2.1.1.26 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160376	3259	-	Corrections to EUTRA Idle Mode test case 6.1.1.4 for Multi-PDN IUE	12.5.0	12.6.0
2016-06	RAN#72	R5s160383	3260	-	Corrections to EUTRA MAC test cases 7.1.2.8 and 7.1.3.9	12.5.0	12.6.0
2016-06	RAN#72	R5s160384	3261	-	LTE_TDD: Correction to EUTRA eMDT test case 8.6.8.5	12.5.0	12.6.0
2016-06	RAN#72	R5s160385	3262	-	Correction to UTRAN Registration procedure with IMS enabled for LTE-IRAT test cases	12.5.0	12.6.0
2016-06	RAN#72	R5s160386	3263	-	Corrections to EMM test case 9.2.1.1.2 for IMS-enabled UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160387	3264	-	Corrections to EMM test case 9.2.2.1.2 for IMS-enabled UE	12.5.0	12.6.0

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2016-06	RAN#72	R5s160388	3265	-	Correction to IMS Emergency Call test case 11.2.3 for Multi-PDN UEs	12.5.0	12.6.0
2016-06	RAN#72	R5s160391	3266	-	Correction to GERAN ciphering setup for InterRAT test cases with IIMS relation	12.5.0	12.6.0
2016-06	RAN#72	R5s160393	3267	-	Correction to test cases 9.2.3.1.15, 9.2.3.1.15a and 9.2.3.1.18a with MultiPDN configuration	12.5.0	12.6.0
2016-06	RAN#72	R5s160394	3268	-	Correction to LTE-IRAT test cases 6.2.3.13 & 6.2.3.4 for IMS over UTRA enabled UEs	12.5.0	12.6.0
2016-06	RAN#72	R5s160395	3269	-	Correction to LTE-A eMBMS-SC-CA test case 17.4.9.1 and	12.5.0	12.6.0
2016-06	RAN#72	R5s160396	3270	-	17.4.9.2  Correction to CA / RRC connection reconfiguration test cases	12.5.0	12.6.0
2016-06	RAN#72	R5s160397	3271	-	8.2.4.17.x  Correction to f_EUTRA_508RRC_IntraLTE_CA_HO_InterCell	12.5.0	12.6.0
2016-06	RAN#72	R5s160398	3272	-	Correction to test case 7.1.4.12	12.5.0	12.6.0
2016-06	RAN#72	R5s160399	3273	-	Corrections to EMM test case 9.2.1.2.2 for IMS-enabled UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160400	3274	-	Addition of PTCRB RFT-111 EUTRA Hybrid Cell TestCase 6.4.7	12.5.0	12.6.0
2016-06	RAN#72	R5s160402	3276	-	Corrections to EMM test case 9.2.1.2.3 for IMS-enabled UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160404	3278	-	Corrections to EMM test case 9.2.1.2.4 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160405	3279	-	Corrections to testcase 11.2.8	12.5.0	12.6.0
2016-06	RAN#72	R5s160407	3280	-	Correction to NIMTC test case 10.5.4	12.5.0	12.6.0
2016-06	RAN#72	R5s160408	3282	-	Corrections to EMM test case 9.2.3.2.11 for IMS-enabled UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160412	3284	-	Correction to GCF WI-227 Inter-RAT eMDT test case 8.6.7.4	12.5.0	12.6.0
2016-06	RAN#72	R5s160414	3287	-	Corrections to EMM test case 9.2.2.2.1 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160415	3289	-	Corrections to EMM test case 9.2.3.1.5 for Multi-PDN UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160416	3290	-	Corrections to EMM test case 9.2.3.2.2 for IMS-enabled UE	12.5.0	12.6.0
2016-06	RAN#72	R5s160417	3291	-	Correction to EMM test case 9.2.1.1.30	12.5.0	12.6.0
2016-06	RAN#72	R5s160418	3292	-	Correction to CMAS test case 18.1.3 for IMS enabled UE with Multi-PDN configuration	12.5.0	12.6.0
2016-06	RAN#72	R5s160422	3294	-	Correction to LTE-A eMBMS-SC-CA test cases	12.5.0	12.6.0
2016-06	RAN#72	R5s160423	3295	-	Corrections to testcases 13.1.19 and 13.1.20	12.5.0	12.6.0
2016-06	RAN#72	R5s160424	3296	-	LTE_TDD: Addition of Rel-11 LTE-A CA Enhancements test case 7.1.2.10.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160426	3297	-	Correction to EMM test case 9.2.2.1.8 for IMS enabled UEs	12.5.0	12.6.0
2016-06	RAN#72	R5s160429	3298	-	Corrections to EMM test cases 9.2.2.1.6 and 9.2.2.1.7	12.5.0	12.6.0
2016-06	RAN#72	R5s160430	3299	-	Corrections for EMM test cases 9.2.1.1.13 and 9.2.1.2.12	12.5.0	12.6.0
2016-06	RAN#72	R5s160434	3300	-	Correction to LTE-IRAT test case 6.2.2.8 for "IMS over UTRA" enabled UEs	12.5.0	12.6.0
2016-06	RAN#72	R5s160437	3303	-	Correction to LTE-IRAT test case 6.2.3.31 for "IMS over UTRA" enabled UEs	12.5.0	12.6.0
2016-06	RAN#72	R5s160449	3312	-	Correction for EPS transaction Identifier IE	12.5.0	12.6.0
2016-06	RAN#72	R5s160452	3314	-	Correction to EMM test case 9.2.3.1.5 for Multi-PDN UEs	12.5.0	12.6.0
2016-06	RAN#72	RP-160852	3316	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A	12.5.0	12.6.0
2016-06	RAN#72	R5s160459	3060	1	Correction to EUTRA Idle Mode PLMN Selection test case 6.1.1.9	12.5.0	12.6.0
2016-06	RAN#72	R5s160464	3111	1	Correction to WI-82 EMM Information procedure Testcase 9.1.5.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160465	3112	1	Addition of LTE-A UL CA test case 7.1.4.20.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160466	3114	1	LTE_TDD: Addition of LTE-A UL CA test case 7.1.4.20.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160467	3115	1	Addition of LTE-A CA 2UL test case 7.1.4.20.2	12.5.0	12.6.0
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2016-06	RAN#72	R5s160468	3116	1	LTE_TDD: Addition of LTE-A CA 2UL test case 7.1.4.20.2	12.5.0	12.6.0
2016-06	RAN#72	R5s160469	3118	1	Correction to test condition C179	12.5.0	12.6.0
2016-06	RAN#72	R5s160470	3119	1	Corrections for Inter-RAT PLMN selection test case 6.2.1.2 and 6.2.1.3	12.5.0	12.6.0
2016-06	RAN#72	R5s160471	3170	1	Correction to eMDT Testcase 8.6.9.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160473	3171	1	Correction to testcase 8.2.4.14	12.5.0	12.6.0
2016-06	RAN#72	R5s160474	3172	1	Correction to template cr_RRCConnectionsetupComplete_r11	12.5.0	12.6.0
2016-06	RAN#72	R5s160476	3173	1	Correction to EMM test case 9.2.1.1.30	12.5.0	12.6.0
2016-06	RAN#72	R5s160477	3175	1	Correction to RRC CA test cases 8.2.4.16.x	12.5.0	12.6.0
2016-06	RAN#72	R5s160481	3176	1	Correction to eMDT Testcase 8.6.5.1a	12.5.0	12.6.0
2016-06	RAN#72	R5s160482	3177	1	Improved handling of system interface	12.5.0	12.6.0
2016-06	RAN#72	R5s160483	3178	1	Corrections for EMM test cases 9.2.2.1.6 and 9.2.2.1.7 on IMS- lenabled UEs	12.5.0	12.6.0
2016-06	RAN#72	R5s160484	3179	1	Corrections to UTRAN cell initialization functions	12.5.0	12.6.0
2016-06	RAN#72	R5s160485	3180	1	Corrections to Delay for IMS signalling	12.5.0	12.6.0
2016-06	RAN#72	R5s160486	3181	1	Correction to EMM testcase 9.1.3.1	12.5.0	12.6.0
2016-06	RAN#72	R5s160487	3182	1	Correction to EMM testcase 9.1.3.2	12.5.0	12.6.0
2016-06	RAN#72	R5s160488	3183	1	Correction to function f_EUTRA_ConnectedMode_TAU	12.5.0	12.6.0
2016-06	RAN#72	R5s160489	3184	1	Corrections to testcases 9.2.1.1.1a and 9.2.1.1.1b	12.5.0	12.6.0
2016-06	RAN#72	R5s160491	3185	1	Correction to testcase 9.2.3.2.12	12.5.0	12.6.0
2016-06	RAN#72	R5s160493	3186	1	Correction to testcase 9.2.1.2.4	12.5.0	12.6.0
2016-06	RAN#72	R5s160494	3187	1	Corrections to testcases 9.2.1.1.7 and 9.2.1.1.7a	12.5.0	12.6.0
2016-06	RAN#72	R5s160495	3188	1	Correction to GCF WI-177 TC 8.6.4.3	12.5.0	12.6.0
2016-06	RAN#72	R5s160496	3189	1	Correction to GCF WI-081 TC 8.5.1.2	12.5.0	12.6.0
2016-06	RAN#72	R5s160497	3190	1	Correction to testcase 7.1.4.7a	12.5.0	12.6.0
2016-06	RAN#72	R5s160498	3191	1	Correction to testcases 8.2.4.16.x	12.5.0	12.6.0
2016-06	RAN#72	R5s160499	3192	1	Correction to testcase 9.2.1.1.20	12.5.0	12.6.0
2016-06	RAN#72	R5s160500	3193	1	Correction to testcase 9.2.3.1.16	12.5.0	12.6.0
2016-06	RAN#72	R5s160501	3194	1	Correction to testcase 9.2.3.1.18	12.5.0	12.6.0
2016-06	RAN#72	R5s160504	3196	1	Correction to GCF WI-178 eMBMS-SC TC 17.4.5	12.5.0	12.6.0
2016-06	RAN#72	R5s160505	3197	1	Correction to GCF WI-178 eMBMS-SC TC 17.4.6	12.5.0	12.6.0
2016-06	RAN#72	R5s160506	3198	1	Correction to SSAC test case 13.5.3	12.5.0	12.6.0
2016-06	RAN#72	R5s160508	3199	1	Correction to GCF WI-227 eMDT test case 8.6.7.4	12.5.0	12.6.0
2016-06	RAN#72	R5s160509	3200	1	Correction to UE Location information procedure	12.5.0	12.6.0
2016-06	RAN#72	R5s160517	3195	1	Correction to testcase 13.5.3a	12.5.0	12.6.0

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