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TECHNICAL SPECIFICATION

Core Network and Interoperability Testing (INT);
S1AP Conformance Testing for the S1-MME interface;
(3GPP™ Release 13);
Part 1: Protocol Implementation
Conformance Statement (PICS)

Reference

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Core Network and Interoperability Testing (INT).

The present document is part 1 of a multi-part deliverable covering the test specifications for the S1AP protocol on the S1-MME interface, as identified below:

> **Part 1:** **"Protocol Implementation Conformance Statement (PICS)";**
>
> Part 2: "Test Suite Structure (TSS) and Test Purposes (TP)";
>
> Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) pro forma specification".

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

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Introduction

To evaluate protocol conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) pro forma for the test specification for the S1AP protocol on the S1-MME interface as specified in ETSI TS 136 413 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3] and ETSI ETS 300 406 [4].

The supplier of a protocol implementation which is claimed to conform to ETSI TS 136 413 [1] is required to complete a copy of the PICS pro forma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at https://docbox.etsi.org/Reference/.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

[1] ETSI TS 136 413 (V13.4.0): "LTE; Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 Application Protocol (S1AP) (3GPP TS 36.413 version 13.4.0 Release 13)".

[2] ISO/IEC 9646-1: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts".

[3] ISO/IEC 9646-7: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 7: Implementation Conformance Statements".

[4] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3   Definitions and abbreviations

3.1   Definitions

For the purposes of the present document, the terms and definitions given in ETSI TS 136 413 [1] and the following apply:

PICS pro forma: document, in the form of a questionnaire, designed by the protocol specifier or conformance test suite specifier, which, when completed for an OSI implementation or system, becomes the PICS

> NOTE: See ISO/IEC 9646-1 [2].

Protocol Implementation Conformance Statement (PICS): statement made by the supplier of an Open Systems Interconnection (OSI) implementation or system, stating which capabilities have been implemented for a given OSI protocol

> NOTE: See ISO/IEC 9646-1 [2].

static conformance review: review of the extent to which the static conformance requirements are met by the IUT, accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s)

> NOTE: See ISO/IEC 9646-1 [2].

3.2   Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 136 413 [1] apply.

4   Conformance

A PICS pro forma which conforms to this PICS pro forma specification shall be technically equivalent to annex A, and shall preserve the numbering and ordering of the items in annex A.

A PICS which conforms to this PICS pro forma specification shall:

    a)   describe an implementation which claims to conform to ETSI TS 136 413 [1];

    b)   be a conforming ICS pro forma which has been completed in accordance with the instructions for completion given in clause A.1;

    c)   include the information necessary to uniquely identify both the supplier and the implementation.

Annex A (normative):
PICS pro forma

A.1   The right to copy

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS pro forma in this annex so that it can be used for its intended purposes and may further publish the completed PICS pro forma.

A.2   Guidance for completing the ICS pro forma

A.2.1   Purposes and structure

The purpose of this PICS pro forma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardized manner.

The PICS pro forma is subdivided into clauses for the following categories of information:

- instructions for completing the PICS pro forma;

- identification of the implementation;

- identification of the protocol;

- PICS pro forma tables (for example: Major capabilities, etc.).

A.2.2   Abbreviations and conventions

This annex does not reflect dynamic conformance requirements but static ones. In particular, a condition for support of a PDU parameter does not reflect requirements about the syntax of the PDU (i.e. the presence of a parameter) but the capability of the implementation to support the parameter.

In the sending direction, the support of a parameter means that the implementation is able to send this parameter (but it does not mean that the implementation always sends it).

In the receiving direction, it means that the implementation supports the whole semantic of the parameter that is described in the related protocol specification.

As a consequence, PDU parameter tables in this annex are not the same as the tables describing the syntax of a PDU in the reference specification.

The PICS pro forma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [3].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column gives reference to the relevant sections in core specifications.

Status column

The various status used in this annex are in accordance with the rules in table A.1.

Table A.1: Key to status codes

Status code	Status name	Meaning
m	mandatory	The capability shall be supported. It is a static view of the fact that the conformance requirements related to the capability in the reference specification are mandatory requirements. This does not mean that a given behaviour shall always be observed (this would be a dynamic view), but that it shall be observed when the implementation is placed in conditions where the conformance requirements from the reference specification compel it to do so. For instance, if the support for a parameter in a sent PDU is mandatory, it does not mean that it shall always be present, but that it shall be present according to the description of the behaviour in the reference specification (dynamic conformance requirement).
o	optional	The capability may or may not be supported. It is an implementation choice.
n/a	not applicable	It is impossible to use the capability. No answer in the support column is required.
c.<integer>	conditional	The requirement on the capability ("m", "o", "n/a") depends on the support of other optional or conditional items. <integer> is the identifier of the conditional expression.
o.<integer>	qualified optional	For mutually exclusive or selectable options from a set. <integer> is the identifier of the group of options, and the logic of selection of the options.

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [3], are used for the support column:

Y or y   supported by the implementation.

N or n   not supported by the implementation.

N/A, n/a or -   no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status).

References to items

For each possible item answer (answer in the support column) within the PICS pro forma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table.

EXAMPLE: A.5/4 is the reference to the answer of item 4 in table A.5.

A.2.3 Instructions for completing the PICS pro forma

The supplier of the implementation may complete the PICS pro forma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the PICS pro forma.

A.3   Identification of the Network Equipment

A.3.1   Introduction

Identification of the Network Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

A.3.2   Date of the statement

....

A.3.3   Network Equipment Under Test identification

Name:

....

....

Hardware configuration:

....

....

....

Software configuration:

....

....

....

A.3.4   Product supplier

Name:

....

Address:

....

....

....

Telephone number:

....

Facsimile number:

....

E-mail address:

....

Additional information:

....

....

....

A.3.5   Client

Name:

....

Address:

....

....

....

Telephone number:

....

Facsimile number:

....

E-mail address:

....

Additional information:

....

....

....

A.3.6   PICS contact person

Name:

....

Telephone number:

....

Facsimile number:

....

E-mail address:

....

Additional information:

....

....

A.4   Identification of the protocol

This PICS pro forma applies to the following specification:

- ETSI TS 136 413 [1].

A.5   Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard?

[ ] **Yes**

[ ] **No**

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached pages.

In the tabulations which follow, all references are to ETSI TS 136 413 [1] unless another numbered reference is explicitly indicated.

A.6   PICS pro forma tables for the S1-MME interface

A.6.1   Roles

Table A.2: Roles for the S1AP interface

Item	Roles	Reference	Status	Support
1	eNB		o.1	
2	MME		o.1	
o.1:	At least one of these roles shall be supported.			

A.6.2   PICS Items for eNB

A.6.2.1   System Capabilities for eNB

Table A.3 need only to be completed for eNB implementations, where item A.2/1 above is supported.

Table A.3: System Capabilities for eNB

Item	Does the IUT support ...	Reference	Status	Support
1	E-RAB Management procedures?	8.2	m	
1.1	procedures on receipt of E-RAB SETUP messages?	8.2.1	m	
1.1.1	the interruption of the E-RAB Setup procedure, if handover becomes necessary?	8.2.1.2	o	
1.2	procedures on receipt of E-RAB MODIFY messages?	8.2.2	m	
1.2.1	the interruption of the E-RAB modify, if handover becomes necessary?	8.2.2.2	o	
1.3	procedures on receipt of E-RAB RELEASE messages?	8.2.3.2.1	m	
1.3.1	inclusion of location information of the UE in the *User Location Information* IE in the E-RAB RELEASE RESPONSE message?	8.2.3.2.1	o	
1.4	procedures for sending E-RAB RELEASE INDICATION messages?	7, 8.2.3.2.2	o	
1.4.1	inclusion of location information of the UE in the *User Location Information* IE in the E-RAB RELEASE RESPONSE message?	8.2.3.2.2	o.2	
1.5	procedures for sending E-RAB MODIFICATION INDICATION messages?	7, 8.2.4	o	
2	Context Management procedures?	8.3	m	
2.1	procedures on receipt of INITIAL CONTEXT SETUP REQUEST messages?	8.3.1	m	
2.2	procedures for sending of UE CONTEXT RELEASE REQUEST messages?	8.3.2	m	
2.3	procedures on receipt of UE CONTEXT RELEASE COMMAND messages?	8.3.3	m	
2.3.1	inclusion of location information of the UE in the *User Location Information* IE in the UE CONTEXT RELEASE COMPLETE message?	8.3.3.2	o	
2.4	procedures on receipt of UE CONTEXT MODIFICATION REQUEST messages?	8.3.4	m	
2.5	procedures on receipt of UE RADIO CAPABILITY MATCH REQUEST messages?	8.3.5	m	
2.6	procedures for sending of UE CONTEXT MODIFICATION INDICATION messages?	8.3.6	m	
2.7	procedures for sending of UE CONTEXT SUSPEND REQUEST messages?	8.3.7	m	
2.8	procedures for sending of UE CONTEXT RESUME REQUEST messages?	8.3.8	m	
2.9	procedures on receipt of CONNECTION ESTABLISHMENT INDICATION messages?	8.3.9	m	
3	Handover Signalling?	8.4	m	
3.1	procedures for sending of HANDOVER REQUIRED messages?	8.4.1	m	
3.1.1	inclusion of the *HO Cause Value* IE in the *UE History Information* IE of the HANDOVER REQUIRED message in case of inter-system handover from E-UTRAN to UTRAN?	8.4.1.2	o	
3.1.2	initiation of the Handover Cancel procedure on the expiry of timer $TS1_{RELOCprep}$	8.4.1.3	o	
3.2	procedures on receipt of HANDOVER REQUEST messages?	8.4.2	m	
3.2.1	initiation of a Location Reporting procedure if a *Request Type* IE is received in the HANDOVER REQUEST?	8.4.2.2	o	
3.3	procedures for sending of HANDOVER NOTIFY messages?	8.4.3	m	
3.4	procedures for sending of PATH SWITCH REQUEST messages?	8.4.4	m	
3.5	procedures for sending of HANDOVER CANCEL messages?	8.4.5	m	
3.6	procedures for sending of eNB STATUS TRANSFER messages?	8.4.6	m	
3.7	procedures on receipt of MME STATUS TRANSFER messages?	8.4.7	m	
4	procedures on receipt of PAGING messages?	8.5	m	

Item	Does the IUT support ...	Reference	Status	Support
5	NAS transport?	8.6	m	
5.1	procedures for sending of INITIAL UE MESSAGE messages?	8.6.2.1	m	
5.2	procedures on receipt of DOWNLINK NAS TRANSPORT messages?	8.6.2.2	m	
5.3	procedures for sending of UPLINK NAS TRANSPORT messages?	8.6.2.3	m	
5.4	procedures for sending of NAS NON DELIVERY INDICATION messages?	8.6.2.4	m	
5.5	procedures on receipt of REROUTE NAS REQUEST messages?	8.6.2.5	m	
6	Management procedures?	8.7	m	
6.1.1	procedures on receipt of RESET messages?	8.7.1.2.1	m	
6.1.2	procedures for sending of RESET messages?	8.7.1.2.2	m	
6.2.1	procedures on receipt of ERROR INDICATION messages?	8.7.2.2 Figure 8.7.2.2-1	m	
6.2.2	procedures for sending of ERROR INDICATION messages?	8.7.2.2 Figure 8.7.2.2-2	m	
6.3	procedures for sending of S1 SETUP REQUEST messages?	8.7.3	m	
6.4	procedures for sending of eNB CONFIGURATION UPDATE messages?	8.7.4	m	
6.4.1	repetition of the sending of eNB CONFIGURATION UPDATE messages in case of no reply?	8.7.4.4	o	
6.5	procedures on receipt of MME CONFIGURATION UPDATE messages?	8.7.5	m	
6.6	procedures on receipt of OVERLOAD START messages?	8.7.6	m	
6.7	procedures on receipt of OVERLOAD STOP messages?	8.7.7	m	
7	S1 CDMA2000 Tunnelling Procedures?	8.8	m	
7.1	procedures on receipt of DOWNLINK S1 CDMA2000 TUNNELING messages?	8.8.2.1	m	
7.2	procedures for sending of UPLINK S1 CDMA2000 TUNNELING messages?	8.8.2.2	m	
8	procedures for sending UE CAPABILITY INFO INDICATION messages?	8.9	m	
9	Trace Procedures?	8.10	m	
9.1	procedures on receipt of TRACE START messages?	8.10.1	m	
9.2	procedures for sending TRACE FAILURE INDICATION messages?	8.10.2	m	
9.3	procedures on receipt of DEACTIVATE TRACE messages?	8.10.3	m	
9.4	procedures for sending CELL TRAFFIC TRACE messages?	8.10.4	m	
10	Location Reporting Procedures?	8.11	m	
10.1	procedures on receipt of LOCATION REPORTING CONTROL messages?	8.11.1	m	
10.2	procedures for sending LOCATION REPORT FAILURE INDICATION messages?	8.11.2	m	
10.3	procedures for sending LOCATION REPORT messages?	8.11.3	m	
11	Warning Message Transmission Procedures?	8.12	m	
11.1	procedures on receipt of WRITE-REPLACE WARNING REQUEST messages?	8.12.1	m	
11.2	procedures on receipt of KILL REQUEST messages?	8.12.2	m	
11.3	procedures for sending PWS RESTART INDICATION messages?	8.12.3	m	
11.4	procedures for sending PWS FAILURE INDICATION messages?	8.12.4	m	
12	procedures for sending eNB DIRECT INFORMATION TRANSFER messages?	8.13	m	
13	procedures on receipt of MME DIRECT INFORMATION TRANSFER messages??	8.14	m	
14	procedures for sending eNB CONFIGURATION TRANSFER messages?	8.15	m	
15	procedures on receipt of MME CONFIGURATION TRANSFER messages??	8.16	m	

Item	Does the IUT support ...	Reference	Status	Support
16	LPPa transport?	8.17	m	
16.1	procedures on receipt of DOWNLINK UE ASSOCIATED LPPA TRANSPORT messages??	8.17.2.1	m	
16.2	procedures for sending UPLINK UE ASSOCIATED LPPA TRANSPORT messages?	8.17.2.2	m	
16.3	procedures on receipt of DOWNLINK NON UE ASSOCIATED LPPA TRANSPORT messages??	8.17.2.3	m	
16.4	procedures for sending UPLINK NON UE ASSOCIATED LPPA TRANSPORT messages?	8.17.2.4	m	
17	handling of Unknown, Unforeseen and Erroneous Protocol Data?	10	m	
17.1	initiation of the Error Indication procedure when a transfer syntax error is detected?	10.2	o	
17.2	initiation of the Error Indication procedure when an abstract syntax error is detected?	10.3	o	
17.3	initiation of the Error Indication procedure when a logical error is detected?	10.4	o	
o.2:	o, if A3/1.4 is supported, else N/A.			

A.6.3   PICS Items for MME

A.6.3.1   System Capabilities for MME

Table A.4 need only to be completed for MME implementations, where item A.2/2 above is supported.

Table A.4: System Capabilities for MME

Item	Does the IUT support ...	Reference	Status	Support
1	E-RAB Management procedures?	8.2	m	
1.1	procedures for sending E-RAB SETUP messages?	8.2.1	m	
1.2	procedures for sending E-RAB MODIFY messages?	8.2.2	m	
1.3	procedures for sending E-RAB RELEASE messages?	8.2.3.2.1	m	
1.4	procedures on receipt of E-RAB RELEASE INDICATION messages?	8.2.3.2.2	m	
1.5	procedures on receipt of E-RAB MODIFICATION INDICATION messages?	8.2.4	m	
2	Context Management procedures?	8.3	m	
2.1	procedures for sending INITIAL CONTEXT SETUP REQUEST messages?	8.3.1	m	
2.2	procedures on receipt of UE CONTEXT RELEASE REQUEST messages?	8.3.2	m	
2.3	procedures for sending UE CONTEXT RELEASE COMMAND messages?	8.3.3	m	
2.4	procedures for sending UE CONTEXT MODIFICATION REQUEST messages?	8.3.4	m	
2.5	procedures for sending UE RADIO CAPABILITY MATCH REQUEST messages?	8.3.5	m	
2.6	procedures on receipt of UE CONTEXT MODIFICATION INDICATION messages?	8.3.6	m	
2.7	procedures on receipt of UE CONTEXT SUSPEND REQUEST messages?	8.3.7	m	
2.8	procedures on receipt of UE CONTEXT RESUME REQUEST messages?	8.3.8	m	
2.9	procedures for sending CONNECTION ESTABLISHMENT INDICATION messages?	8.3.9	m	
3	Handover Signalling?	8.4	m	
3.1	procedures on receipt of HANDOVER REQUIRED messages?	8.4.1	m	
3.2	procedures for sending HANDOVER REQUEST messages?	8.4.2	m	
3.3	procedures on receipt of HANDOVER NOTIFY messages?	8.4.3	m	

Item	Does the IUT support ...	Reference	Status	Support
3.4	procedures on receipt of PATH SWITCH REQUEST messages?	8.4.4	m	
3.5	procedures on receipt of HANDOVER CANCEL messages?	8.4.5	m	
3.6	procedures on receipt of eNB STATUS TRANSFER messages?	8.4.6	m	
3.7	procedures for sending MME STATUS TRANSFER messages?	8.4.7	m	
4	procedures for sending PAGING messages?	8.5	m	
5	NAS transport?	8.6	m	
5.1	procedures on receipt of INITIAL UE MESSAGE messages?	8.6.2.1	m	
5.2	procedures for sending DOWNLINK NAS TRANSPORT messages?	8.6.2.2	m	
5.3	procedures on receipt of UPLINK NAS TRANSPORT messages?	8.6.2.3	m	
5.4	procedures on receipt of NAS NON DELIVERY INDICATION messages?	8.6.2.4	m	
5.5	procedures for sending REROUTE NAS REQUEST messages?	8.6.2.5	m	
6	Management procedures?	8.7	m	
6.1.1	procedures for sending RESET messages?	8.7.1.2.1	m	
6.1.2	procedures on receipt of RESET messages?	8.7.1.2.2	m	
6.2.1	procedures for sending ERROR INDICATION messages?	8.7.2.2 Figure 8.7.2.2-1	m	
6.2.2	procedures on receipt of ERROR INDICATION messages?	8.7.2.2 Figure 8.7.2.2-2	m	
6.3	procedures on receipt of S1 SETUP REQUEST messages?	8.7.3	m	
6.3.1	sending of S1 SETUP FAILURE messages in response to inacceptable S1 SETUP REQUEST messages?	8.7.3.3	o	
6.4	procedures on receipt of eNB CONFIGURATION UPDATE messages?	8.7.4	m	
6.5	procedures for sending MME CONFIGURATION UPDATE messages?	8.7.5	m	
6.5.1	repetition of the sending of MME CONFIGURATION UPDATE messages in case of no reply?	8.7.5.4	o	
6.6	procedures for sending OVERLOAD START messages?	8.7.6	m	
6.7	procedures for sending OVERLOAD STOP messages?	8.7.7	m	
7	S1 CDMA2000 Tunnelling Procedures?	8.8	m	
7.1	procedures for sending DOWNLINK S1 CDMA2000 TUNNELING messages?	8.8.2.1	o	
7.1.1	inclusion of the handover status information in the *CDMA2000 HO Status* IE in the DOWNLINK S1 CDMA2000 TUNNELLING message?	8.8.2.1	o.3	
7.2	procedures on receipt of UPLINK S1 CDMA2000 TUNNELING messages?	8.8.2.2	m	
8	procedures on receipt of UE CAPABILITY INFO INDICATION messages?	8.9	m	
9	Trace Procedures?	8.10	m	
9.1	procedures for sending TRACE START messages?	8.10.1	m	
9.2	procedures on receipt of TRACE FAILURE INDICATION messages?	8.10.2	m	
9.3	procedures for sending DEACTIVATE TRACE messages?	8.10.3	m	
9.4	procedures on receipt of CELL TRAFFIC TRACE messages?	8.10.4	m	
10	Location Reporting Procedures?	8.11	m	
10.1	procedures for sending LOCATION REPORTING CONTROL messages?	8.11.1	m	
10.2	procedures on receipt of LOCATION REPORT FAILURE INDICATION messages?	8.11.2	m	
10.3	procedures on receipt of LOCATION REPORT messages?	8.11.3	m	
11	Warning Message Transmission Procedures?	8.12	m	
11.1	procedures for sending WRITE-REPLACE WARNING REQUEST messages?	8.12.1	m	
11.2	procedures for sending KILL REQUEST messages?	8.12.2	m	

Item	Does the IUT support ...	Reference	Status	Support
11.3	procedures on receipt of PWS RESTART INDICATION messages?	8.12.3	m	
11.4	procedures on receipt of PWS FAILURE INDICATION messages?	8.12.4	m	
12	procedures on receipt of eNB DIRECT INFORMATION TRANSFER messages?	8.13	m	
13	procedures for sending MME DIRECT INFORMATION TRANSFER messages??	8.14	m	
14	procedures on receipt of eNB CONFIGURATION TRANSFER messages?	8.15	m	
15	procedures for sending MME CONFIGURATION TRANSFER messages??	8.16	m	
16	LPPa transport?	8.17	m	
16.1	procedures for sending DOWNLINK UE ASSOCIATED LPPA TRANSPORT messages??	8.17.2.1	m	
16.2	procedures on receipt of UPLINK UE ASSOCIATED LPPA TRANSPORT messages?	8.17.2.2	m	
16.3	procedures for sending DOWNLINK NON UE ASSOCIATED LPPA TRANSPORT messages??	8.17.2.3	m	
16.4	procedures on receipt of UPLINK NON UE ASSOCIATED LPPA TRANSPORT messages?	8.17.2.4	m	
17	handling of Unknown, Unforeseen and Erroneous Protocol Data?	10	m	
17.1	initiation of the Error Indication procedure when a transfer syntax error is detected?	10.2	o	
17.2	initiation of the Error Indication procedure when an abstract syntax error is detected?	10.3	o	
17.3	initiation of the Error Indication procedure when a logical error is detected?	10.4	o	
o.3:	o, if A4/7.1 is supported, else N/A.			

History

Document history		
V1.1.1	July 2017	Publication