



TECHNICAL SPECIFICATION

**Mission Critical (MC) services;
Mission Critical Push To Talk (MCPTT)
Application Server (AS)
Protocol conformance specification for server-to-server
interface including InterWorking Function (IWF) to
non-3GPP systems;
Part 2: Test Applicability and Implementation
Conformance Statement (ICS) pro forma specification**

Reference

DTS/TCCE-00256

Keywords

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee TETRA and Critical Communications Evolution (TCCE).

The present document is based on ETSI TS 136 579-4 [i.6] (3GPP TS 36.579-4) produced by the 3rd Generation Partnership Project (3GPP).

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [5].

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).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Introduction

The ETSI Technical Specification used as the reference document for the present document is part 4 of a multi-part deliverable covering conformance test specification for Mission Critical Services over LTE consisting of:

- ETSI TS 136 579-1 [i.2]: "LTE; Mission Critical (MC) services over LTE; Part 1: Common test environment (3GPP TS 36.579-1)";
- ETSI TS 136 579-2 [i.3]: "LTE; Mission Critical (MC) services over LTE; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-2)";

- ETSI TS 136 579-3 [i.4]: "LTE; Mission Critical (MC) services over LTE; Part 3: Mission Critical Push To Talk (MCPTT) Server Application conformance specification (3GPP TS 36.579-3)";
- **ETSI TS 136 579-4 [i.6]: "LTE; Mission Critical (MC) services over LTE; Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.579-4)";**
- ETSI TS 136 579-5 [1]: "LTE; Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS) (3GPP TS 36.579-5)";
- ETSI TS 136 579-6 [i.7]: "LTE; Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-6)";
- ETSI TS 136 579-7 [i.8]: "LTE; Mission Critical (MC) services over LTE; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-7)";
- 3GPP TS 36.579-8 [i.9]: "Mission Critical (MC) services over LTE; Part 8: Mission Critical Video (MCVideo) Server Application conformance specification";
- 3GPP TS 36.579-9 [i.10]: "Mission Critical (MC) services over LTE; Part 9: Mission Critical Data (MCData) Server Application conformance specification".

1 Scope

The present document provides the Implementation Conformance Statement (ICS) pro forma for testing Server implementations for compliance to the Mission Critical Services over LTE protocol requirements defined by 3GPP, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [2] and ISO/IEC 9646-7 [3].

The present document specifies the recommended applicability statement for the test cases included in ETSI TS 104 148-1 [5]. These applicability statements are based on the features implemented in the Server respectively.

The present document is valid for Mission Critical Push To Talk (MCPTT) Servers and MCPTT IWF implemented according to 3GPP releases starting from Release 14 up to the Release indicated on the cover page of the present document.

The present document does not specify applicability or ICS for protocol conformance testing for the EPS (LTE) bearers which carry the Mission Critical Services data sent or received by the Client and/or the Server. These are defined in ETSI TS 136 523-2 [i.5] (3GPP TS 36.523-2).

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 in the [ETSI docbox](#).

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 136 579-5](#): "LTE; Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS) (3GPP TS 36.579-5)".
- [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 TS 123 379](#): "LTE; Functional architecture and information flows to support Mission Critical Push To Talk (MCPTT); Stage 2 (3GPP TS 23.379)".
- [5] [ETSI TS 104 148-1](#): "Mission Critical (MC) services; Mission Critical Push To Talk (MCPTT) Application Server (AS) Protocol conformance specification for server-to-server interface including InterWorking Function (IWF) to non-3GPP systems; Part 1: Test structure, configurations, conformance requirement and test purposes".
- [6] [ETSI TS 123 283](#): "LTE; Mission Critical Communication Interworking with Land Mobile Radio Systems (3GPP TS 23.283)".
- [7] [ETSI TS 124 380](#): "LTE; Mission Critical Push To Talk (MCPTT) media plane control; Protocol specification (3GPP TS 24.380)".

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.

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The following referenced documents may be useful in implementing an ETSI deliverable or add to the reader's understanding, but are not required for conformance to the present document.

- [i.1] ETSI TR 121 905: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Vocabulary for 3GPP Specifications (3GPP TR 21.905)".
- [i.2] [ETSI TS 136 579-1](#): "LTE; Mission Critical (MC) services over LTE; Part 1: Common test environment (3GPP TS 36.579-1)".
- [i.3] [ETSI TS 136 579-2](#): "LTE; Mission Critical (MC) services over LTE; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-2)".
- [i.4] [ETSI TS 136 579-3](#): "LTE; Mission Critical (MC) services over LTE; Part 3: Mission Critical Push To Talk (MCPTT) Server Application conformance specification (3GPP TS 36.579-3)".
- [i.5] [ETSI TS 136 523-2](#): "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2)".
- [i.6] [ETSI TS 136 579-4](#): "LTE; Mission Critical (MC) services over LTE; Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.579-4)".
- [i.7] [ETSI TS 136 579-6](#): "LTE; Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-6)".
- [i.8] [ETSI TS 136 579-7](#): "LTE; Mission Critical (MC) services over LTE; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-7)".
- [i.9] 3GPP TS 36.579-8: "Mission Critical (MC) services over LTE; Part 8: Mission Critical Video (MCVideo) Server Application conformance specification".
- [i.10] 3GPP TS 36.579-9: "Mission Critical (MC) services over LTE; Part 9: Mission Critical Data (MCData) Server Application conformance specification".

3 Definitions of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI TR 121 905 [i.1] (3GPP TR 21.905) and the following apply.

NOTE 1: A term defined in the present document takes precedence over the definition of the same term, if any, in ETSI TR 121 905 [i.1] (3GPP TR 21.905).

In addition for the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in ISO/IEC 9646-1 [2] and ISO/IEC 9646-7 [3].

NOTE 2: Some terms and abbreviations defined in ISO/IEC 9646-1 [2] and ISO/IEC 9646-7 [3] are explicitly included below with small modification to reflect the terminology used in 3GPP.

ICS pro forma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

Implementation eXtra Information for Testing (IXIT): statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT

IUT containing MCX Client: statement identifying which entity, and associated requirements, from the MCX service architecture is subject of testing

NOTE: Depending on the ETSI TS 136 579-5 [1] (3GPP TS 36.579-5) test model being used, the LTE UE (with the MCX Client installed) is considered as the IUT (MCX EUTRA test model), or, only the MCX Client is considered as the IUT (MCX IPCAN test model). In both cases the SUT is the UE, communicating with the SS over the Uu radio interface.

IXIT pro forma: document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT

Protocol Implementation Conformance Statement (PICS): ICS for an implementation or system claimed to conform to a given protocol specification

Protocol Implementation eXtra Information for Testing (PIXIT): IXIT related to testing for conformance to a given protocol specification

static conformance review: review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s)

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TR 121 905 [i.1] (3GPP TR 21.905) and the following apply.

NOTE: An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in ETSI TR 121 905 [i.1] (3GPP TR 21.905).

ICS	Implementation Conformance Statement
IPCAN	IP Connectivity Access Network
IUT	Implementation Under Test
IWF	Inter-Working Function
IXIT	Implementation eXtra Information for Testing
MC	Mission Critical
MCDATA	Mission Critical Data
MCPTT	Mission Critical Push To Talk
MCVideo	Mission Critical Video
MCX	Mission Critical X

NOTE: With X = PTT or X= Video or X= Data.

SS	System Simulator
SUT	System Under Test
TC	Test Case

4 Recommended Test Case Applicability

The applicability of each individual test is identified in Table 4-1 (MCPTT Server) and Table 4-2 (MCPTT IWF). This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in Table 4-1 have the following meaning:

Clause

The clause column indicates the clause number in ETSI TS 104 148-1 [5] respectively which contains the test body.

Title

The title column describes the name of the test and contains the clause title of the clause in ETSI TS 104 148-1 [5] respectively which contains the test body.

Release

The release column indicates the earliest release from which the test case is applicable. In some specific cases it may indicate the release(s) for which the TC is **only** applicable.

NOTE: Some exceptions to this interpretation may be indicated in Notes in column 'Number of TC Executions'.

Applicability - Condition

The following notations are used for the applicability column:

R	recommended - the test case is recommended
O	optional - the test case is optional
N/A	not applicable - in the given context, the test case is not recommended.
C _i	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

NOTE: The conditions are defined in Table 4-1a (MCPTT Server) and Table 4-2a (MCPTT IWF). To avoid ambiguity for the MCPTT Server testing conditions the notation of C_{Ci} is used.

Applicability - Comments

- This column contains a verbal description of the condition.

Additional Information - Specific ICS

- This column contains the mnemonics of ICS(s) affecting the dynamic behaviour of the TC.

NOTE: ICS items specified in other test specifications can be referred, to avoid redundant definitions.

Additional Information - Specific IXIT

- This column contains the mnemonics of IXIT(s) affecting the dynamic behaviour of the TC. IXITs are defined in ETSI TS 136 579-5 [1] (3GPP TS 36.579-5).

Additional Information - Number of TC Executions

- This column contains, wherever applicable, the recommended for certification purposes number of TC executions. It may contain also other information e.g. exceptions to the release applicable to the test. Clarifying notes when available are listed in dedicated tables with table numbers having the suffix "b".

Table 4-1: Applicability of MCPTT Server tests and additional information for testing

Clause	TC Title	Release	Applicability		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
5	MCPTT Server - MCPTT Server operation						
5.1	Configuration						
5.1.1	MCPTT Server - MCPTT Server / Configuration / Group Affiliation / De-affiliation / Controlling server	Rel-15	CC01	IUT is MCPTT Server			
5.1.2	MCPTT Server - MCPTT Server / Configuration / Group Affiliation / De-affiliation / Implicit Affiliation / Participating server	Rel-15	CC03	IUT is MCPTT Server			
5.1.3	MCPTT Server - MCPTT Server / Group and GMK Subscription / Group Regroup creation / Group Regroup Teardown / GMS owning temporary group	Rel-15	CC05	IUT is MCPTT Server			
5.1.4	MCPTT Server - MCPTT Server / Group and GMK Subscription / Group Regroup creation / Group Regroup Teardown / GMS owning group to be combined	Rel-15	CC05	IUT is MCPTT Server			
5.1.5	MCPTT Server - MCPTT Server / Configuration / Functional Alias / Functional alias status determination / Activate functional alias / Deactivate functional alias / Controlling server	Rel-15	CC01	IUT is MCPTT Server			
5.1.6	MCPTT Server - MCPTT Server / Configuration / Functional Alias / Functional alias status determination / Activate functional alias / Deactivate functional alias / Participating server	Rel-15	CC02	IUT is MCPTT Server			
5.2	Group Calls						
5.2.1	Pre-arranged Group Call						
5.2.1.1	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Automatic Commencement Mode / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group call / Cancel Imminent Peril State / Controlling server	Rel-15	CC01	IUT is MCPTT Server			
5.2.1.2	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Automatic Commencement Mode / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group call / Cancel Imminent Peril State / Originating Participating server	Rel-15	CC03	IUT is MCPTT Server			
5.2.1.3	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Automatic Commencement Mode / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group call / Cancel Imminent Peril State / Terminating Participating server	Rel-15	CC02	IUT is MCPTT Server			

Clause	TC Title	Release	Applicability		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
5.2.1.4	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Temporary Group / Controlling server / Trusted mode	Rel-15	CC01	IUT is MCPTT Server			
5.2.1.5	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Temporary Group / Non-Controlling server / Trusted mode	Rel-15	CC04	IUT is MCPTT Server			
5.2.1.6	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Temporary Group / Participating server / Trusted and Untrusted modes	Rel-15	CC03	IUT is MCPTT Server			
5.2.1.7	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Temporary Group / Controlling server / Untrusted mode	Rel-15	CC01	IUT is MCPTT Server			
5.2.1.8	MCPTT Server - MCPTT Server / Pre-arranged Group Call / Temporary Group / Non-Controlling server / Untrusted mode	Rel-15	CC04	IUT is MCPTT Server			
5.2.2	Chat Group Call						
5.2.2.1	MCPTT Server - MCPTT Server / Chat Group Call / Automatic Commencement Mode / Controlling server	Rel-15	CC01	IUT is MCPTT Server			
5.2.2.2	MCPTT Server - MCPTT Server / Chat Group Call / Automatic Commencement Mode / Originating Participating server	Rel-15	CC03	IUT is MCPTT Server			
5.2.2.3	MCPTT Server - MCPTT Server / Chat Group Call / Temporary Group / Controlling server / Untrusted mode	Rel-15	CC01	IUT is MCPTT Server			
5.2.2.4	MCPTT Server - MCPTT Server / Chat Group Call / Temporary Group / Non-Controlling server / Untrusted mode	Rel-15	CC04	IUT is MCPTT Server			

Table 4-1a: Applicability of tests Conditions MCPTT Server

CC01	IF A.4.1-1/1 THEN R ELSE N/A
CC02	IF A.4.1-1/2 THEN R ELSE N/A
CC03	IF A.4.1-1/3 THEN R ELSE N/A
CC04	IF A.4.1-1/4 THEN R ELSE N/A
CC05	IF A.4.1-1/5 THEN R ELSE N/A

Table 4-2: Applicability of MCPTT IWF tests and additional information for testing

Clause	TC Title	Release	Applicability		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
6	IWF - MCPTT Server operation						
6.1	Group Calls						
6.1.1	Pre-Arranged Group Calls						
6.1.1.1	IWF - MCPTT Server / Pre-arranged Group Call / Automatic Commencement Mode / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group call / Cancel Imminent Peril State / IWF Controlling Role	Rel-15	CC01	IUT is IWF Server			
6.1.1.2	IWF - MCPTT Server / Pre-arranged Group Call / Automatic Commencement Mode / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group call / Cancel Imminent Peril State / IWF Originating Participating Role	Rel-15	CC02	IUT is IWF Server			

Table 4-2a: Applicability of tests Conditions MCPTT IWF

CC01	IF A.4.1-1/6 THEN R ELSE N/A
CC02	IF A.4.1-1/7 THEN R ELSE N/A

Annex A (normative): ICS pro forma for Mission Critical Services

A.0 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 ICS pro forma for Mission Critical Services pro forma in this Annex so that it can be used for its intended purposes and may further publish the completed ICS pro forma for Mission Critical Services.

A.1 Guidance for completing the ICS pro forma

A.1.1 Purposes and structure

The purpose of this ICS 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 standardised manner.

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

- guidance for completing the ICS pro forma;
- identification of the implementation;
- identification of the protocol;
- global statement of conformance;
- ICS pro forma tables (for example: Client implementation, Server implementation, etc.).

A.1.2 Abbreviations and conventions

The ICS 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 ETSI core specifications.

Release column

The release column indicates the earliest release from which the capability or option is relevant.

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS 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. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

A.1.3 Instructions for completing the ICS pro forma

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

A.2 Identification of the IWF/MCPTT Server Equipment

A.2.0 Introduction

Identification of the MCPTT Server or MCPTT IWF 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 ICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 IWF/MCPTT Server under test identification

IWF/MCPTT Server under test name:

.....
.....

Hardware configuration:

.....
.....
.....

Software configuration:

.....
.....
.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 The Organisation responsible for the Product testing

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....
.....

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....

A.3 Identification of the protocol

This ICS pro forma applies to the ETSI standards listed in the normative references clause of the present document.

A.4 ICS pro forma tables

A.4.1 Implementation Types

Table A.4.1-1: Mission Critical Services general functionality

Item	Functionality	Ref.	Release	Mnemonic	Comments
1	MCPTT Server performing Controlling role	ETSI TS 123 379 (3GPP TS 23.379)	Rel-15	pc_MCPTTServer_Controlling	
2	MCPTT Server performing Terminating Participating role	ETSI TS 123 379 (3GPP TS 23.379)	Rel-15	pc_MCPTTServer_TermPart	
3	MCPTT Server performing Originating Participating role	ETSI TS 123 379 (3GPP TS 23.379)	Rel-15	pc_MCPTTServer_OrigPart	
4	MCPTT Server performing Non-Controlling role	ETSI TS 123 379 (3GPP TS 23.379)	Rel-15	pc_MCPTTServer_Non_Controlling	
5	MCPTT Server performing GMS function	ETSI TS 123 379 (3GPP TS 23.379)	Rel-15	pc_MCPTTServer_GMS	
6	IWF performing MCPTT Controlling role	ETSI TS 123 283 (3GPP TS 23.283)	Rel-15	pc_MCPTTIWF_Controlling	
7	IWF performing MCPTT Originating role	ETSI TS 123 283 (3GPP TS 23.283)	Rel-15	pc_MCPTTIWF_Participating	

A.4.2 Additional information

Table A.4.2-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	The IWF/MCPTT Server supports floor request queueing	ETSI TS 124 380 (3GPP TS 24.380)	Rel-14	pc_MCPTT_FloorRequestQueueing	The IWF/MCPTT Server applies Floor Request Queueing

History

Version	Date	Status
V1.1.1	January 2026	Publication