



TECHNICAL SPECIFICATION

LTE;
5G;
Mission Critical (MC) services;
**Part 4: Test Applicability and Implementation Conformance
Statement (ICS) proforma specification
(3GPP TS 37.579-4 version 17.5.0 Release 17)**



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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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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

- 1 presented to TSG for information;
- 2 presented to TSG for approval;
- 3 or greater indicates TSG approved document under change control.

y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

The present document is part 1 of a multi-part deliverable covering conformance test specification for Mission Critical Services consisting of:

3GPP TS 37.579-1 [2]: "Mission Critical (MC) services protocol conformance testing; Part 1: Common test environment"

3GPP TS 37.579-2 [3]: "Mission Critical (MC) services conformance testing; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification"

3GPP TS 37.579-4: "Mission Critical (MC) services conformance testing; Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification" (the present document)

3GPP TS 37.579-5 [5]: "Mission Critical (MC) services conformance testing; Part 5: Abstract test suite (ATS)"

3GPP TS 37.579-6 [11]: "Mission Critical (MC) services; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification".

3GPP TS 37.579-7 [12]: "Mission Critical (MC) services; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification".

In the present document, modal verbs have the following meanings:

- | | |
|------------------|---|
| shall | indicates a mandatory requirement to do something |
| shall not | indicates an interdiction (prohibition) to do something |

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

- | | |
|-------------------|--|
| should | indicates a recommendation to do something |
| should not | indicates a recommendation not to do something |
| may | indicates permission to do something |
| need not | indicates permission not to do something |

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

can indicates that something is possible

cannot indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

will indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

will not indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

might indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

might not indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

is (or any other verb in the indicative mood) indicates a statement of fact

is not (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

Sample Document

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1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for testing Client implementations for compliance to the Mission Critical Services protocol requirements defined by 3GPP, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [7] and ISO/IEC 9646-7 [8].

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 37.579-2 [3], as well as, TS 37.579-6 [3] and 3GPP TS 37.579-7 [12]. These applicability statements are based on the features implemented in the Client.

The present document is valid for Mission Critical Services Clients implemented according to 3GPP releases starting from Release 13 up to the Release indicated on the cover page of the present document.

The present document is valid for Mission Critical Video (MCVideo) and Mission Critical Data (MCData) Clients 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 3GPP bearers which carry the Mission Critical Services data sent or received by the Client. These are defined in TS 36.523-2 [6] for EPS (LTE) or TS 38.523-2 [20] for NR/5GC.

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*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 37.579-1: "Mission Critical (MC) services; Part 1: Common test environment".
- [3] 3GPP TS 37.579-2: "Mission Critical (MC) services; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification".
- [4] void
- [5] 3GPP TS 37.579-5: "Mission Critical (MC) services; Part 5: Abstract test suite (ATS)".
- [6] 3GPP TS 36.523-2: "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".
- [7] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [8] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [9] 3GPP TS 23.179: "Functional architecture and information flows to support mission critical communication services; Stage 2".
- [10] 3GPP TS 23.401: "3GPP System Architecture Evolution; GPRS enhancements for E-UTRAN access".

- [11] 3GPP TS 37.579-6: "Mission Critical (MC) services; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification".
- [12] 3GPP TS 37.579-7: "Mission Critical (MC) services; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification".
- [13] 3GPP TS 23.379: "Functional architecture and information flows to support Mission Critical Push To Talk (MCPTT); Stage 2".
- [14] 3GPP TS 33.180: "Security of the mission critical service".
- [15] 3GPP TS 24.379: "Mission Critical Push To Talk (MCPTT) call control; Protocol specification".
- [16] 3GPP TS 24.380: "Mission Critical Push To Talk (MCPTT) floor control; Protocol specification".
- [17] 3GPP TS 24.581: "Mission Critical Video (MCVideo) media plane control; Protocol specification".
- [18] 3GPP TS 24.282: "Mission Critical Data (MCData) signalling control; Protocol specification".
- [19] 3GPP TS 24.281: "Mission Critical Video (MCVideo) signalling control; Protocol specification".
- [20] 3GPP TS 38.523-2: "5GS; User Equipment (UE) conformance specification; Part 2: Applicability of protocol test cases".

3 Definitions of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

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

- such given in ISO/IEC 9646-1 [7] and ISO/IEC 9646-7 [8].

NOTE: Some terms and abbreviations defined in [7] and [8] are explicitly included below with small modification to reflect the terminology used in 3GPP.

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

ICS proforma: A document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

Implementation eXtra Information for Testing (IXIT): A 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: A statement identifying which entity, and associated requirements, from the MCX service architecture is subject of testing. Depending on the TS 37.579-5[5] test model being used, the LTE UE (with the MCX Client installed) is considered as the IUT (MCX EUTRA test model), the 5GS UE (with the MCX Client installed) is considered as the IUT (MCX NR/5GC test model), or, only the MCX Client is considered as the IUT (MCX IPCAN test model). In all cases the SUT is the UE, communicating with the SS over the Uu radio interface.

IXIT proforma: A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT.

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

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

static conformance review: A 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 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

FFS	For Further Study
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
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, with X = PTT or X= Video or X= Data
SCS	System Conformance Statement
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 Client), Table 4-3 (MCVideo Client), Table 4-4 (MCDATA Client). 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, Table 4-3, Table 4-4 have the following meaning:

Clause

The clause column indicates the clause number in TS 37.579-2 [3] or TS 37.579-6 [11] or TS 37.579-7 [12] 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 TS 37.579-2 [3] or TS 37.579-6 [11] or TS 37.579-7 [12] respectively which contains the test body.

Release MCX

The Release MCX column indicates the earliest release (release of the MC functionality) 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.
Ci	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 Client), Table 4-3a (MCVideo Client), Table 4-4a (MCDData Client) respectively.

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 TS 37.579-5 [6]

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" e.g. Table 4-1b (MCPTT Client).

Release RAT

The Release RAT column indicates the earliest release of the RAT bearer over which the test should be conducted. In the present specification the RAT is either E-UTRA or NR. Note that the release of the MC functionality does not have to align with that of the E-UTRA or NR bearer. In case the Release RAT column is empty, the release version specified in the Release column (release of the MC functionality) applies.

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

Clause	TC Title	Release MCX	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
5	MCPTT Client Configuration							
5.1	Configuration / Authentication / User Authorisation / UE Configuration / User Profile / Key Generation	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.2	Configuration / Group Creation / Group Regroup Creation / Group Regroup Teardown	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.3	Configuration / Group Affiliation / Remote change / De-affiliation / Home MCPTT system	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.4	Configuration / Pre-established Session Establishment / Pre-established Session Modification / Pre-established Session Release	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.5	Configuration / Determination of MCPTT Service Settings / Current Active MCPTT Settings / De-subscribe	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.6	Configuration / Download CSK	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.7	Configuration / Subscription to group dynamic data / De-subscribe	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.8	Configuration / Functional Alias / Functional alias status determination / Activate functional alias / Deactivate functional alias	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.9	Configuration / Functional Alias / Location based functional alias status change	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
5.10	Configuration / Rules based affiliation status change	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6	MCPTT Client on-network operation							
6.1	Group Calls							
6.1.1	Pre-arranged Group Call							
6.1.1.1	On-network / On-demand Pre-arranged Group Call / Automatic Commencement Mode / End-to-end communication security / Floor Control / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group Call / Cancel Imminent Peril State / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.2	On-network / On-demand Pre-arranged Group Call / Automatic Commencement Mode / Floor Control / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15

Clause	TC Title	Release MCX	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	Peril Group Call / Cancel Imminent Peril State / Client Terminated (CT)							
6.1.1.3	On-network / On-demand Pre-arranged Group Call / Manual Commencement Mode / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.4	On-network / On-demand Pre-arranged Group Call / Manual Commencement Mode / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.5	On-network / Pre-arranged Group Call using pre-established session / Client originated Pre-established Session Release with associated MCPTT session / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.6	On-network / Pre-arranged Group Call using pre-established session / Automatic Commencement Mode / Server originated Pre-established Session Release with associated MCPTT session / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.7	On-network / Pre-arranged Group Call using pre-established session / Manual Commencement Mode / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.8	On-network / Pre-arranged Broadcast Group Call / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.9	On-network / Pre-arranged Broadcast Group Call / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.10	On-network / Broadcast Group Call with Temporary Group / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.11	On-network / Pre-arranged Emergency Group Call / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.12	On-network / Pre-arranged Emergency Group Call / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.13	On-network / Pre-Arranged Imminent Peril Group Call / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.14	On-network / Pre-Arranged Imminent Peril Group Call / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.15	On-network / Emergency Alert / Cancel Emergency Alert / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.16	On-network / Emergency Alert / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.17	On-network / Broadcast Group Call using pre-established session / Client originated Pre-established Session Release with associated MCPTT session / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15
6.1.1.18	On-network / Broadcast Group Call using pre-established session / Automatic	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-15