ETSI TS 137 579-4 V17.1.0 (2025-04)



LTE; 5G;

Mission Critical (MC) services;

Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification (3GPP TS 37.579-4 version 17.1.0 Release 17)



Reference RTS/TSGR-0537579-4vh10 Keywords 5G,LTE

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° w061004871

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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 <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

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

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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:

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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 possiblecannot 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.

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

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.

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

(MCData 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		Release MCPTT	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-17
5.2	Configuration / Group Creation / Group Regroup Creation / Group Regroup Teardown	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
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-17
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-17
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-17
5.6	Configuration / Download CSK	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
5.7	Configuration / Subscription to group dynamic data / De-subscribe	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
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-17
5.9	Configuration / Functional Alias / Location based functional alias status change	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
5.10	Configuration / Rules based affiliation status change	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
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-17
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-17

Clause	TC Title	Release MCPTT	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-17
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-17
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-17
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-17
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-17
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-17
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-17
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-17
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-17
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-17
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-17
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-17
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-17
6.1.1.16	On-network / Emergency Alert / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
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-17
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-17

Clause	TC Title	Release Applicability MCPTT			Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	Commencement Mode / Server originated Pre-established Session Release with associated MCPTT session / Client Terminated (CT)							
6.1.1.19	On-network / On-demand Pre-arranged Group Call / Active functional alias / Client Originated (CO)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.1.20	On-network / On-demand Pre-arranged Group Call / Multi Talker	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.1.21	On-network / On-demand Pre-arranged Group Call / No Implicit Floor Control / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2	Chat Group Calls							
6.1.2.1	Void							
6.1.2.2	On-network / Chat Group Call Using Pre- established Session Including Emergency and Imminent Peril Calls / Client Server originated Pre-established Session Release with associated MCPTT session / Client Origination (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.3	Void							
6.1.2.4	Void							
6.1.2.5	Void							
6.1.2.6	Void							
6.1.2.7	On-network / Chat Group Call / Emergency Group Call / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.8	On-network / Chat Group Call / Emergency Group Call / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.9	On-network / Chat Group Call / Imminent Peril Group Call / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.10	On-network / Chat Group Call / Imminent Peril Group Call / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.11	On-network / Chat Group Call / Join Chat Group Session / Upgrade to Emergency / Cancel Emergency / Upgrade to Imminent Peril / Cancel Imminent Peril / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.12	On-network / Chat Group Call / Join Chat Group Session / Upgrade to Emergency / Cancel Emergency / Upgrade to Imminent Peril / Cancel Imminent Peril / Client Originated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.13	On-network / Chat Group Call / Join Chat Group Session / Active functional alias / Client Originated (CO)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.2.14	On-network / Chat Group Call / Chat Group Call Using Pre-established Session	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17

Clause	TC Title	Release MCPTT	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	/ Active functional alias / Client Originated (CO)							
6.1.3	Conference Event Package							
6.1.3.1	On-network / Conference Event Package / Subscription to Conference Event Package / Termination of subscription	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.4	Remote Change of Selected Group							
6.1.4.1	On-network / Remote Change of Selected Group / Selected Group Change of Targeted User / Client Originated (CO)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.4.2	On-network / Remote Change of Selected Group / Selected Group Change of Targeted User / Client Terminated (CT)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.5	Remotely initiated group call							
6.1.5.1	On-network / Remotely initiated group call / Client Originated (CO)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.1.5.2	On-network / Remotely initiated group call / Client Terminated (CT)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2	Private Calls							
6.2.1	On-network / Private Call / On-demand / Automatic Commencement Mode / With Floor Control / Upgrade to Emergency Call / Cancellation of Emergency on User request / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.2	On-network / Private Call / On-demand / Automatic Commencement Mode / With Floor Control / Upgrade to Emergency Call / Cancellation of Emergency on User request / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.3	On-network / Private Call / On-demand / Automatic Commencement Mode / Without Floor Control / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.4	On-network / Private Call / On-demand / Automatic Commencement Mode / Without Floor Control / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.5	On-network / Private Call / Emergency Private Call / On-demand / Automatic Commencement Mode / Force of automatic commencement mode / Without Floor Control / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.6	On-network / Private Call / Emergency Private Call / On-demand / Automatic Commencement Mode / Force of automatic commencement mode / Without Floor Control / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.7	On-network / Private Call / On-demand / Manual Commencement Mode / Without Floor Control / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17

Clause	TC Title	Release MCPTT	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
6.2.8	On-network / Private Call / On-demand / Manual Commencement Mode / Without Floor Control / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.9	On-network / Private Call / Within a pre- established session / Automatic Commencement Mode / Without Floor Control / Client Originated (CO)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.10	On-network / Private Call / Within a pre- established session / Automatic Commencement Mode / Without Floor Control / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.11	On-network / Private Call / Within a pre- established session / Manual Commencement Mode / Without Floor Control / Release of the Call and the pre- established session / Client Terminated (CT)	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.12	On-network / Private Call / Private Call Call-Back Request / Private Call Call-Back Cancel Request / Client Originated (CO) / Private call call-back fulfilment	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.13	On-network / Private Call / Private Call Call-Back Request / Private Call Call-Back Cancel Request / Client Terminated (CT) / Private call call-back fulfilment	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.14	On-network / Private Call / Ambient listening call / Remotely initiated Ambient listening call / Remotely initiated ambient listening call release / Success / Client Originated (CO) / Server initiated ambient call release	Rel-14	C06	IUT containing MCPTT Client and supports ambient listening call				E-UTRA: Rel-12 NR: Rel-17
6.2.15	On-network / Private Call / Ambient listening call / Remotely initiated Ambient listening call / Remotely initiated ambient listening call release / Success / Client Terminated (CT)	Rel-14	C06	IUT containing MCPTT Client and supports ambient listening call				E-UTRA: Rel-12 NR: Rel-17
6.2.16	On-network / Private Call / Ambient listening call / Locally initiated Ambient listening call / Locally initiated ambient listening call release / Success / Client Originated (CO) / Server initiated ambient call release	Rel-14	C06	IUT containing MCPTT Client and supports ambient listening call				E-UTRA: Rel-12 NR: Rel-17
6.2.17	On-network / Private Call / Ambient listening call / Locally initiated Ambient listening call / Locally initiated ambient listening call release / Success / Client Terminated (CT)	Rel-14	C06	IUT containing MCPTT Client and supports ambient listening call				E-UTRA: Rel-12 NR: Rel-17
6.2.18	On-network / Private call / Ambient listening call / Remote initiated ambient	Rel-15	C06	IUT containing MCPTT Client and supports ambient listening call				E-UTRA: Rel-12 NR: Rel-17

Clause		Release MCPTT	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	listening call / Pre-established session / Ambient listening call release / Client Originated (CO)							
6.2.19	On-network / Private call / Ambient listening call / Remote initiated ambient listening call / Pre-established session / Ambient listening call release / Client Terminated (CT)	Rel-15	C06	IUT containing MCPTT Client and supports ambient listening call				E-UTRA: Rel-12 NR: Rel-17
6.2.20	On-network / First-to-answer call / On- demand session / Client Originated (CO)	Rel-15	C04	IUT containing MCPTT Client and the UE uses on-demand sessions for initiating First-to-answer calls				E-UTRA: Rel-12 NR: Rel-17
6.2.21	On-network / First-to-answer call / On- demand session / Client Terminated (CT)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.22	On-network / First-to-answer call / Pre- established session / Client Originated (CO)	Rel-15	C05	IUT containing MCPTT Client and the UE uses pre-established sessions for initiating First-to-answer calls				E-UTRA: Rel-12 NR: Rel-17
6.2.23	On-network / First-to-answer call / Pre- established session / Client Terminated (CT)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.24	On-network / Private call / Remotely initiated private call / Client Originated (CO)	Rel-15	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.2.25	On-network / Private call / Remotely initiated private call / On-demand session / Client Terminated (CT)	Rel-15	C02	IUT containing MCPTT Client and the UE uses on-demand sessions for Remotely initiated Private calls				E-UTRA: Rel-12 NR: Rel-17
6.2.26	On-network / Private call / Remotely initiated private call / Pre-established session / Client Terminated (CT)	Rel-15	C03	IUT containing MCPTT Client and the UE uses pre-established sessions for Remotely initiated Private calls				E-UTRA: Rel-12 NR: Rel-17
6.3	Location							
6.3.1	On-network / Location / Event Triggered Location Information Report	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.3.2	On-network / Location / On-demand Location Information Request	Rel-14	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.4	MBMS							
6.4.1	On-network / MBMS / MBMS Bearer Announcement / MBMS Bearer Listening Status / Transition to MBMS from Unicast / MBMS Floor Control / Transition to Unicast from MBMS	Rel-14	C07	IUT containing MCPTT Client and supports MC services over MBMS				E-UTRA: Rel-12 NR: Rel-17
6.4.2	On-network / MBMS / Multi Talker	Rel-15	C07	IUT containing MCPTT Client and supports MC services over MBMS				E-UTRA: Rel-12 NR: Rel-17
6.5	Group regroup using a preconfigured group							
6.5.1	On-network / Regroup using a preconfigured group / Requesting a group regroup using a preconfigured group / Removing a regroup using preconfigured group / Client Originated (CO)	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17

Clause	TC Title	Release MCPTT	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
6.5.2	On-network / Regroup using a preconfigured group / Receiving a notification of creation of a regroup using preconfigured group / Receiving notification of removal of a regroup using preconfigured group / Client Terminated (CT)	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.5.3	On-network / Regroup using a preconfigured group / Requesting a user regroup using a preconfigured group / Removing a regroup using preconfigured group / Client Originated (CO)	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
6.5.4	On-network / Regroup using a preconfigured group / Creating a user regroup using preconfigured group / Removing a user regroup using preconfigured group / Client Terminated (CT)	Rel-16	C01	IUT containing MCPTT Client				E-UTRA: Rel-12 NR: Rel-17
7	MCPTT Client off-network operation							
7.1	Off network Group Calls							
7.1.1	Off-network / Group Call / Floor Control / Upgrade to Emergency Call / Downgrade from Emergency / Upgrade to Imminent Peril / Downgrade from Imminent Peril / Release Call / Client Originated (CO)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.2	Off-network / Group Call / Floor Control / Upgrade to Emergency Call / Downgrade from Emergency / Upgrade to Imminent Peril / Downgrade from Imminent Peril / Release Call / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.3	Off-network / Group Call / Leave Group Call when GROUP CALL PROBE sent / Initiate Group Call for Released Call / Receive GROUP CALL ACCOUCEMENT for Released call / No GROUP CALL ACCOUCEMENT for Released Call / Receive Response to GROUP CALL PROBE	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.4	Off-network / Group Call / MCPTT User Acknowledgement Required / With Confirm Indication / MCPTT User Reject / MCPTT User Accept / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.5	Off-network / Group Call / MCPTT User Acknowledgement Required / Without Confirm Indication / MCPTT User Reject / MCPTT User Accept / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.6	Off-network / Group Call / Merge Two Calls	Rel-13	C01	IUT containing MCPTT Client NOTE 1				

Clause	TC Title	Release MCPTT	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.1.7	Off-network / Group Call / Emergency Call / Imminent Peril Call / Client Originated (CO)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.8	Off-network / Group Call / Emergency Call / Imminent Peril Call / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.9	Off-network / Group Call / Emergency Alert / Emergency Alert Retransmission / Cancel Emergency Alert / Client Originated (CO)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.10	Off-network / Group Call / Emergency Alert / Emergency Alert Retransmission / Cancel Emergency Alert / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.11	Off-network / Group Call / Broadcast Group Call / Broadcast Group Call Retransmitting / Broadcast Group Call Release / Client Originated (CO)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.12	Off-network / Group Call / Broadcast Group Call / MCPTT User Ack Not Required / Originator Releases Call / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.1.13	Off-network / Group Call / Broadcast Group Call / MCPTT User Ack Required / MCPTT User Reject / MCPTT User Accept / MCPTT User Releases Call / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.2	Off-network Private Calls							
7.2.1	Off-network / Private Call / On-demand / Automatic Commencement Mode / No Response to Private Call Setup Request / Private call setup success / With Floor Control / Upgrade to Emergency Call / Cancellation of Emergency on User request / Client Originated (CO)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.2.2	Off-network / Private Call / On-demand / Automatic Commencement Mode / No Response to Private Call Setup Accept / Private call setup success / With Floor Control / Upgrade to Emergency Call / Cancellation of Emergency on User request / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.2.3	Off-network / Private Call / On-demand / Automatic Commencement Mode / Upgrade to Emergency Call Reject / Downgrade from Emergency Call Failure / Client Originated (CO)	Rel-13	C01	IUT containing MCPTT Client NOTE 1				
7.2.4	Off-network / Private Call / On-demand / Manual Commencement Mode / Call Released before establishment completion	Rel-13	C01	IUT containing MCPTT Client NOTE 1				

Clause	TC Title	Release MCPTT	Applicability	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT	
	/ Call request Rejected / Call establishment successful / Client Originated (CO)								
7.2.5	Off-network / Private Call / On-demand / Manual Commencement Mode / Call Released before establishment completion / User does not answer to Ringing / User Rejects call request / Call establishment successful / Client Terminated (CT)	Rel-13	C01	IUT containing MCPTT Client NOTE 1					

NOTE 1: Due to lack of industry interest in deployment of the feature, RAN5 is not pursuing update of these TCs to comply with Rel-14 and they will not be used for TTCN development as part of the TTCN-3 test suite, which can be used for validating the conformance of MCS Clients compliant with the Rel-14 requirements. These TCs may be considered for update and developed and used in future releases for FFS.

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

C01	IF A.4.1-1/1 THEN R ELSE N/A
C02	IF A.4.1-1/1 AND A.4.2-1/4 THEN R ELSE N/A
C03	IF A.4.1-1/1 AND A.4.2-1/5 THEN R ELSE N/A
C04	IF A.4.1-1/1 AND A.4.2-1/6 THEN R ELSE N/A
C05	IF A.4.1-1/1 AND A.4.2-1/7 THEN R ELSE N/A
C06	IF A.4.1-1/1 AND A.4.2-1/16 THEN R ELSE N/A
C07	IF A.4.1-1/1 AND A.4.2-1/17 THEN R ELSE N/A

Table 4-2: Void

Table 4-2a: Void

Table 4-3: Applicability of MCVideo Client tests and additional information for testing

Clause	TC Title	Release	Applicabilit y		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
5	MCVideo Client Configuration						
5.1	Configuration / Authentication / User Authorization / UE Configuration / User Profile / Key Generation	Rel-14	CV01	IUT is MCVideo Client			
5.2	Configuration / Group Creation / Group ReGroup Creation / Group ReGroup Teardown	Rel-14	CV01	IUT is MCVideo Client			
5.3	Configuration / Group Affiliation / Remote change / De-affiliation / Home MCVideo system	Rel-14	CV01	IUT is MCVideo Client			
5.4	Configuration / Determination of MCVideo Service Settings / Current Active MCVideo Settings / De-subscribe	Rel-14	CV01	IUT is MCVideo Client			
6	On-Network Test Scenarios						
6.1	Group Calls						
6.1.1	Pre-Arranged Group Call	5 1 1 1	0) (0.1	W.T. MOVEL OF			
6.1.1.1	On-network / On-demand Pre-arranged Group Call / Automatic Commencement Mode / Transmission Control / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group Call / Cancel Imminent Peril State / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client			
6.1.1.2	On-network / On-demand Pre-arranged Group Call / Automatic Commencement Mode / Reception Control / Upgrade to Emergency Group Call / Cancel Emergency State / Upgrade to Imminent Peril Group Call / Cancel Imminent Peril State / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client			
6.1.1.3	On-network / On-demand Pre-arranged Group Call / Manual Commencement Mode / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client			
6.1.1.4	On-network / On-demand Pre-arranged Group Call / Manual Commencement Mode / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client			
6.1.1.5	On-network / On-demand Pre-arranged Group Call / Emergency Group Call / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client			
6.1.1.6	On-network / On-demand Pre-arranged Group Call / Emergency Group Call / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client			
6.1.1.7	On-network / On-demand Pre-arranged Group Call / Broadcast Group Call / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client			

Clause	TC Title	Release	Applicabilit y		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	
6.1.1.8	On-network / On-demand Pre-arranged Group Call / Broadcast Group Call / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client			2.000.000	
6.1.1.9	On-network / On-demand Pre-arranged Group Call / Broadcast Group Call with Temporary Group / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.1.1.10	On-network / On-demand Pre-arranged Group Call / Imminent Peril Group Call / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.1.1.11	On-network / On-demand Pre-arranged Group Call / Imminent Peril Group Call / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client				
6.1.1.12	On-network / On-demand Pre-arranged Group Call / Transmission Control State Transitions / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client				
6.1.1.13	On-network / On-demand Pre-arranged Group Call / Reception Control State Transitions / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client				
6.1.1.14	On-network / On-demand Pre-arranged Group Call / Re-join procedure / Client Originated (CO)	Rel-16	CV02	IUT is MCVideo Client				
6.1.2	Chat Group Call							
6.1.2.1	On-network / Chat Group Call / Join Chat Group Session / End Chat Group Call / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.1.2.2	On-network / Chat Group Call / Upgrade to Emergency Chat Group Call / Cancel Emergency Chat Group Call / Upgrade to Imminent Peril Chat Group Call / Cancel Imminent Peril Chat Group Call / Client Origination (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.1.2.3	On-network / Chat Group Call / Upgrade to Emergency Chat Group Call / Cancel Emergency Chat Group Call / Upgrade to Imminent Peril Chat Group Call / Cancel Imminent Peril Chat Group Call / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client				
6.1.2.4	On-network / Chat Group Call / Emergency Call / Imminent Peril Call / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client				
6.1.2.5	On-network / Chat Group Call / Emergency Call / Imminent Peril Call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client				
6.1.3	Subscription to Conference Event Package							

Clause	TC Title	Release	Applicabilit y		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	
6.1.3.1	On-network / Conference Event Package / Subscription to Conference Event Package / Termination of subscription	Rel-15	CV01	IUT is MCVideo Client				
6.1.4	Remote Change of selected Group							
6.1.4.1	On-network / Remote Change of Selected Group / Selected Group Change of Targeted User / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client				
6.1.4.2	On-network / Remote Change of Selected Group / Selected Group Change of Targeted User / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client				
6.2	Private Calls							
6.2.1	On-network / Private Call / On-demand / Automatic Commencement Mode / With Transmission Control / Upgrade to Emergency Call / Cancellation of Emergency on User Request / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.2.2	On-network / Private Call / On-demand / Automatic Commencement Mode / With Transmission Control / Upgrade to Emergency Call / Cancellation of Emergency on User request / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client				
6.2.3	On-network / Private Call / On-demand / Automatic Commencement Mode / Without Transmission Control / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.2.4	On-network / Private Call / On-demand / Automatic Commencement Mode / Without Transmission Control / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client				
6.2.5	On-network / Private Call / Emergency Private Call / On-demand / Automatic Commencement Mode / Force of Automatic Commencement Mode / Without Transmission Control / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.2.6	On-network / Private Call / Emergency Private Call / On-demand / Manual Commencement Mode / Force of automatic commencement mode / Without Transmission Control / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client				
6.2.7	On-network / Private Call / On-demand / Manual Commencement Mode / Without Transmission Control / Client Originated (CO)	Rel-14	CV01	IUT is MCVideo Client				
6.2.8	On-network / Private Call / On-demand / Manual Commencement Mode / Without Transmission Control / Client Terminated (CT)	Rel-14	CV01	IUT is MCVideo Client				
6.3	Emergency Alert							
6.3.1	On-network / Emergency Alert / Cancel Emergency alert / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client				

Clause	TC Title	Release	Applicabilit y		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
6.3.2	On-network / Emergency Alert / Emergency alert origination / Emergency alert cancellation / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client			
6.4	Video Pull						
6.4.1	On-network / Video Pull call / One-to-one video pull call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client			
6.4.2	On-network / Video pull call / One-to-one video pull call / Client Terminated (CT)	Rel-16	CV01	IUT is MCVideo Client			
6.5	Video Push						
6.5.1	On-network / Video push call / One-to-one video push call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client			
6.5.2	On-network / Video push call / One-to-server video push call / Client Originated (CO)	Rel-16	CV01	IUT is MCVideo Client			
6.7	Ambient viewing call						
6.7.1	On-network / On-demand ambient viewing call / Remote initiated ambient viewing call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client			
6.7.2	On-network / On-demand ambient viewing call / Remote initiated ambient viewing call / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client			
6.7.3	On-network / On-demand ambient viewing call / Locally initiated ambient viewing call / Client Originated (CO)	Rel-16	CV01	IUT is MCVideo Client			
6.7.4	On-network / On-demand ambient viewing call / Locally initiated ambient viewing call / Client Terminated (CT)	Rel-16	CV01	IUT is MCVideo Client			
6.8	Use of MBMS transmission						
6.8.1	On-network / MBMS / MBMS Bearer Announcement / MBMS Bearer Listening Status / Transition to MBMS from Unicast / MBMS Transmission Control / Transition to Unicast from MBMS	Rel-15	CV03	IUT is MCVideo Client and supports MC services over MBMS			
6.9	Location						
6.9.1	On-network / Location/ Location Information Request	Rel-16	CV01	IUT is MCVideo Client			
6.9.2	On-network / Location / Report triggering	Rel-16	CV01	IUT is MCVideo Client			
7	Off-network Test Scenarios						
7.1	Group Calls						
7.1.1	Basic Group Calls	D 1 1 =	0) (2)	HIT : MOVEL OF			
7.1.1.1	Off-network / Group Call / Basic Group Call / Transmission Control / Upgrade to Emergency Call / Downgrade from Emergency Call / Upgrade to Imminent Peril Call / Downgrade from Imminent Peril Call / Release call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1			
7.1.1.2	Off-network / Group Call / Transmission Control / Upgrade to Emergency Call / Downgrade from	Rel-15	CV01	IUT is MCVideo Client NOTE 1			

Clause	TC Title	Release	Applicabilit y		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	
	Emergency Call / Upgrade to Imminent Peril Call / Downgrade from Imminent Peril Call / Release call / Client Terminated (CT)							
7.1.1.3	Off-network / Group Call / Emergency Call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.1.1.4	Off-network / Group Call / Emergency Call / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.1.1.5	Off-network / Group Call / Imminent Peril Call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.1.1.6	Off-network / Group Call / Imminent Peril Call / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.1.2	Broadcast Group Calls							
7.1.2.1	Off-network / Group Call / Broadcast Group Call / Broadcast Group Call Retransmitting / Broadcast Group Call Release / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.1.2.2	Off-network / Group Call / Broadcast Group Call / Originator Releases Call / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.2	Private Calls							
7.2.1	Off-network / Private Call / Automatic Commencement Mode / No response to private call setup request / Private call setup request accepted / Release call / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.2.2	Off-network / Private Call / Automatic Commencement Mode / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.2.3	Off-network / Private Call / Manual Commencement Mode / Call Released before establishment completion / Call request rejected / Call establishment successful / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.2.4	Off-network / Private Call / Manual Commencement Mode / Client Terminated (CT)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.3	Emergency Alert							
7.3.1	Off-network / Emergency Alert / Client Originated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				
7.3.2	Off-network / Emergency Alert / Client Terminated (CO)	Rel-15	CV01	IUT is MCVideo Client NOTE 1				

NOTE 1: Due to lack of industry interest in deployment of the feature, these TCs will not be used for TTCN development as part of the TTCN-3 test suite, which can be used for validating the conformance of MCS Clients compliant with the Rel-15 requirements. These TCs may be considered for update and developed and used in future releases for FFS.

Table 4-3a: Applicability of tests Conditions MCVideo Client

CV01	IF A.4.1-1/3 THEN R ELSE N/A
CV02	IF A.4.1-1/3 AND A.4.2-1/15 THEN R ELSE N/A
CV03	IF A.4.1-1/3 AND A.4.2-1/17 THEN R ELSE N/A

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

Clause	TC Title	Release	Applicabilit y		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
5	MCData Client Configuration						
5.1	Configuration / Authentication / User Authorization / UE Configuration / User Profile / Key Generation	Rel-14	CD01	IUT is MCData Client			
5.2	Configuration / Group Creation / Group ReGroup Creation / Group ReGroup Teardown	Rel-14	CD01	IUT is MCData Client			
5.3	Configuration / Group Affiliation / Remote Change / De-affiliation / Home MCData system	Rel-14	CD01	IUT is MCData Client			
5.4	Configuration / Determination of MCData Service Settings / Current Active MCData Settings / De- subscribe	Rel-14	CD01	IUT is MCData Client			
5.5	Configuration / Pre-established Session Establishment / Pre-established Session Release	Rel-16	CD01	IUT is MCData Client			
5.6	Configuration / Download CSK	Rel-16	CD01	IUT is MCData Client			
5.7	Configuration / Functional Alias / Functional alias status determination / Activate functional alias / Deactivate functional alias	Rel-16	CD01	IUT is MCData Client			
5.8	Configuration / Rules based affiliation status change	Rel-16	CD01	IUT is MCData Client			
5.9	Configuration / Functional Alias / Location based functional alias status change	Rel-16	CD01	IUT is MCData Client			
6	On-Network Test Scenarios						
6.1	Short Data Service						
6.1.1	On-network / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / One-to-one Standalone SDS / Client Originated (CO)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.2	On-network / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / One-to-one Standalone SDS / Client Terminated (CT)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.3	On-network / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / Group Standalone SDS / Client Originated (CO)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.4	On-network / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / Group Standalone SDS / Client Terminated (CT)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.5	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / One-to-one Standalone SDS / Client Originated (CO)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.6	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / One-to-one Standalone SDS / Client Terminated (CT)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.7	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / Group Standalone SDS / Client Originated (CO)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			

Clause	TC Title	Release	Applicabilit y		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
6.1.8	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / Group Standalone SDS / Client Terminated (CT)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.9	On-network / Short Data Service (SDS) / SDS Session / One-to-one SDS Session / Client Originated (CO)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.10	On-network / Short Data Service (SDS) / SDS Session / One-to-one SDS Session / Client Terminated (CT)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.11	On-network / Short Data Service (SDS) / SDS Session / Group SDS Session / Client Originated (CO)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.12	On-network / Short Data Service (SDS) / SDS Session / Group SDS Session / Client Terminated (CT)	Rel-14	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.13	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / One-to-one Standalone SDS / Pre-established session / Client Originated (CO)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.14	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / One-to-one Standalone SDS / Pre-established session / Client Terminated (CT)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.15	On-network / Short Data Service (SDS) / SDS Session / One-to-one SDS Session / Pre- established session / Client Originated (CO)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.16	On-network / Short Data Service (SDS) / SDS Session / One-to-one SDS Session / Pre- established session / Client Terminated (CT)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.17	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / Group Standalone SDS / Pre-established session / Client Originated (CO)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.18	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / Group Standalone SDS / Pre-established session / Client Terminated (CT)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.19	On-network / Short Data Service (SDS) / SDS Session / Group SDS Session / Pre-established session / Client Originated (CO)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.20	On-network / Short Data Service (SDS) / SDS Session / Group SDS Session / Pre-established session / Client Terminated (CT)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.1.21	On-network / Short Data Service (SDS) / Standalone SDS using signalling control plane / One-to-one Standalone SDS / Active functional alias / Client Originated (CO)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			

Clause	TC Title	Release	Applicabilit y		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
6.1.22	On-network / Short Data Service (SDS) / Standalone SDS Using Media Plane / One-to-one Standalone SDS / Active functional alias / Client Originated (CO)	Rel-16	CD03	IUT is MCData Client and supports MCData Short Data Service			
6.2	File Distribution						
6.2.1	On-network / File Distribution (FD) / FD Using HTTP / One-to-one Standalone FD / Non- Mandatory Download / FILE DOWNLOAD REQUEST ACCEPTED / FILE DOWNLOAD COMPLETED / FILE DOWNLOAD REQUEST REJECTED / FILE DOWNLOAD DEFERRED / Client Originated (CO)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			
6.2.2	On-network / File Distribution (FD) / FD Using HTTP / One-to-one Standalone FD / Non-Mandatory Download / Before TDU2 Timers Expires / FILE DOWNLOAD REQUEST ACCEPTED / FILE DOWNLOAD COMPLETED / FILE DOWNLOAD REQUEST REJECTED / FILE DOWNLOAD DEFERRED / Client Terminated (CT)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			
6.2.3	On-network / File Distribution (FD) / FD Using HTTP / Group Standalone FD / Non-Mandatory Download / FILE DOWNLOAD REQUEST ACCEPTED / FILE DOWNLOAD COMPLETED / FILE DOWNLOAD REQUEST REJECTED / Client Originated (CO)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			
6.2.4	On-network / File Distribution (FD) / FD Using HTTP / Group Standalone FD / Non-Mandatory Download / After TDU2 Timers Expires / FILE DOWNLOAD REQUEST ACCEPTED / FILE DOWNLOAD COMPLETED / FILE DOWNLOAD REQUEST REJECTED / Client Terminated (CT)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			
6.2.5	On-network / File Distribution (FD) / FD Using HTTP / One-to-one Standalone FD / Mandatory Download / With Disposition Request / Client Originated (CO)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			
6.2.6	On-network / File Distribution (FD) / FD Using HTTP / One-to-one Standalone FD / Mandatory Download / With Disposition Request / Client Terminated (CT)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			
6.2.7	On-network / File Distribution (FD) / FD Using HTTP / Group Standalone FD / Mandatory Download / Without Disposition Request / Client Originated (CO)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			
6.2.8	On-network / File Distribution (FD) / FD Using HTTP / Group Standalone FD / Mandatory Download / Without Disposition Request / Client Terminated (CT)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution			

Clause	TC Title	Release	Release Applicabilit y			Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	
6.2.9	On-network / File Distribution (FD) / FD Using Media Plane / One-to-one Standalone FD / Client Originated (CO)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution				
6.2.10	On-network / File Distribution (FD) / FD Using Media Plane / One-to-one Standalone FD / Client Terminated (CT)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution				
6.2.11	On-network / File Distribution (FD) / FD Using Media Plane / Group Standalone FD / Client Originated (CO)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution				
6.2.12	On-network / File Distribution (FD) / FD Using Media Plane / Group Standalone FD / Client Terminated (CT)	Rel-14	CD04	IUT is MCData Client and supports MCData File Distribution				
6.2.13	On-network / File Distribution (FD) / Accessing list of deferred data group communications / Client Originated (CO)	Rel-15	CD04	IUT is MCData Client and supports MCData File Distribution				
6.2.14	On-network / File Distribution (FD) / FD Using HTTP / One-to-one Standalone FD / Non-Mandatory Download / Active functional alias / Client Originated (CO)	Rel-16	CD02	IUT is MCData Client and supports MCData File Distribution and does not use the procedure for Discovery of the Absolute URI of the media storage function				
6.2.15	On-network / File Distribution (FD) / FD Using Media Plane / One-to-one Standalone FD / Active Functional Alias / Client Originated (CO)	Rel-16	CD02	IUT is MCData Client and supports MCData File Distribution and does not use the procedure for Discovery of the Absolute URI of the media storage function				
6.3	Enhanced Status (ES)							
6.3.1	On-network / Enhanced Status (ES) / Client Originated (CO)	Rel-15	CD01	IUT is MCData Client				
6.3.2	On-network / Enhanced Status (ES) / Client Terminated (CT)	Rel-15	CD01	IUT is MCData Client				
6.4	Emergency Alert							
6.4.1	On-network / Emergency Alert / Cancel Emergency Alert / Client Originated (CO)	Rel-16	CD01	IUT is MCData Client				
6.4.2	On-network / Emergency Alert / Client Terminated (CT)	Rel-16	CD01	IUT is MCData Client				
6.5	Location							
6.5.1	On-network / Location/ Location Information Request	Rel-16	CD01	IUT is MCData Client				
6.5.2	On-network / Location / Report triggering	Rel-16	CD01	IUT is MCData Client				
6.6	MBMS transmission usage							
6.6.1	On-network / MBMS / MBMS Bearer Announcement / MBMS Bearer Listening Status / Transition to MBMS from Unicast	Rel-16	CD05	IUT is MCData Client				
6.7	IP Connectivity							
6.7.1	On-network / IP Connectivity / Client Originated (CO)	Rel-16	CD06	IUT is MCData Client and supports MCData IP connectivity				
6.7.2	On-network / IP Connectivity / Client Terminated (CT)	Rel-16	CD06	IUT is MCData Client and supports MCData IP connectivity				
6.8	MCData Message Store							

Clause	TC Title		Applicabilit y		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
6.8.1	On-network / MCData Message Store / Objects / Object upload / Object search / Update Object / Object retrieval / Delete stored object	Rel-16	CD01	IUT is MCData Client			
6.8.2	On-network / MCData Message Store / Folders / Discover a folder / Create a folder / Object and folder copy / Search a folder / Move a folder / Delete a folder	Rel-16	CD01	IUT is MCData Client			
6.8.3	On-network / MCData Message Store / Subscription / Create a subscription to notifications / Update a subscription to notifications / Delete a subscription to notifications	Rel-16	CD01	IUT is MCData Client			
6.8.4	On-network / MCData Message Store / Synchronization / Synchronization notifications / Search-based synchronization	Rel-16	CD01	IUT is MCData Client			
7	Off-Network Test Scenarios						
7.1	Short Data Service (SDS)	5 1 1 5	0501	W.T. MOD O.			
7.1.1	Off-network / Short Data Service (SDS) / Standalone SDS using signalling control plane / One-to-one SDS message / Client Originated (CO)	Rel-15	CD01	IUT is MCData Client NOTE 1			
7.1.2	Off-network / Short Data Service (SDS) / Standalone SDS using signalling control plane / One-to-one SDS message / Client Terminated (CT)	Rel-15	CD01	IUT is MCData Client NOTE 1			
7.1.3	Off-network / Short Data Service (SDS) / Standalone SDS using signalling control plane / Group SDS message / Client Originated (CO)	Rel-15	CD01	IUT is MCData Client NOTE 1			
7.1.4	Off-network / Short Data Service (SDS) / Standalone SDS using signalling control plane / Group SDS message / Client Terminated (CT)	Rel-15	CD01	IUT is MCData Client NOTE 1			
7.2	Enhanced Status (ES)						
7.2.1	Off-network / Enhanced Status (ES) / Client Originated (CO)	Rel-15	CD01	IUT is MCData Client NOTE 1			
7.2.2	Off-network / Enhanced Status (ES) / Client Terminated (CT)	Rel-15	CD01	IUT is MCData Client NOTE 1			
7.3	Emergency Alert						
7.3.1	Off-network / Emergency Alert / Emergency Alert Retransmission / Cancel Emergency Alert / Client Originated (CO)	Rel-16	CD01	IUT is MCData Client NOTE 1			
7.3.2	Off-network / Emergency Alert / Emergency Alert Retransmission / Cancel Emergency Alert / Client Terminated (CT)	Rel-16	CD01	IUT is MCData Client NOTE 1			

NOTE 1: Due to lack of industry interest in deployment of the feature, these TCs will not be used for TTCN development as part of the TTCN-3 test suite, which can be used for validating the conformance of MCS Clients compliant with the Rel-15 requirements. These TCs may be considered for update and developed and used in future releases for FFS.

Table 4-4a: Applicability of tests Conditions MCData Client

CD01	IF A.4.1-1/4 THEN R ELSE N/A
CD02	IF A.4.1-1/4 AND A.4.2-1/12 AND NOT A.4.2-1/13 THEN R ELSE N/A
CD03	IF A.4.1-1/4 AND A.4.2-1/11 THEN R ELSE N/A
CD04	IF A.4.1-1/4 AND A.4.2-1/12 THEN R ELSE N/A
CD05	IF A.4.1-1/4 AND A.4.2-1/17 THEN R ELSE N/A
CD06	IF A.4.1-1/4 AND A.4.2-1/18 THEN R ELSE N/A

Annex A (normative): ICS proforma for Mission Critical Services Client

Notwithstanding the provisions of the copyright clause related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

The purpose of this ICS proforma 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 proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: Client implementation, additional capabilites, etc).

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [8].

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 3GPP 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 proforma 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 proforma

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

A.2 Identification of the MCX Client Equipment

Identification of the MCX Client 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
	MCX Client under test identification t under test name:
Hardware co	onfiguration:
Software co	nfiguration:
A.2.3 Name:	Product supplier
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
Telephone number:
Facsimile number:

mail address:	
lditional information:	

A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

A.4.1 Implementation Types

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

Item	Functionality	Ref.	Release	Mnemonic	Comments			
1	MCPTT Client	TS 23.179 [9]	Rel-13	pc_MCPTTClient	IUT containing MCPTT Client			
2	Void							
3	MCVideo Client	TS 23.281 [13]	Rel-14	pc_MCVideoClient	IUT containing MCVideo Client			
4	MCData Client	TS 23.282 [14]	Rel-14	pc_MCDataClient	IUT containing MCData Client			
NOTE 1	NOTE 1: TS 23.179 [9] has been superseded from Release 14 by TS 23.379 [15]							

Table A.4.1-2: Mission Critical Services supplementary functionality

Item	Functionality	Ref.	Release	Mnemonic	Comments
1	Void				

A.4.2 Additional information

Table A.4.2-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of KMS request security	TS 33.180 [14]	N/A	pc_MCX_KMS_Re	KMS request security is
		Annex D.2.2		questSecurity	applied
2	The UE is capable of displaying emergency call information to the user	TS 24.379 [15]	N/A	pc_MCX_DisplayInf oEmergencyCall	
3	The UE is capable of letting the user		N/A	pc_MCX_UserInitia	
	change a pre-established session by MMI			tedPreestablishedS essionModification	
4	The UE will use on-demand sessions when it is requested to remotely initiate a private call	TS 24.379 [15]	Rel-15	pc_MCPTT_OnDe manSeRemotePriv Call	NOTE 1
5	The UE will use pre-established sessions when it is requested to remotely initiate a private call	TS 24.379 [15]	Rel-15	pc_MCPTT_PreEst ablishedSeRemote PrivCall	
6	The UE will use on-demand session for initiating a first-to-answer call	TS 24.379 [15]	Rel-15	pc_MCPTT_OnDe manSeFirstToAnsw erCall	NOTE 1
7	The UE will use pre-established session for initiating a first-to-answer call	TS 24.379 [15]	Rel-15	pc_MCPTT_PreEst ablishedSeFirstToA nswerCall	NOTE 1
8	The UE automatically initiates emergency alert for emergency calls		N/A	pc_MCX_Emergen cyIndWithAlertInd	In case of an emergency call in addition to the <emergency-ind> the UE automatically sets the <alert-ind> in the mcptt-info to true</alert-ind></emergency-ind>
9	The UE supports floor request queueing	TS 24.380 [16]	Rel-14	pc_MCPTT_FloorR equestQueueing	The UE applies Floor Request Queueing
10	The UE supports transmission request queueing	TS 24.581 [17]	Rel-14	pc_MCVideo_Tran smissionRequestQ ueueing	The UE applies Transmission Request Queueing
11	Support of MCData Short Data Service (SDS)	TS 23.282 [14]	Rel-14	pc_MCData_SDS	
12	Support of MCData File Distribution (FD)	TS 23.282 [14]		pc_MCData_FD	
13	The UE uses the procedure for Discovery of the Absolute URI of the media storage function	TS 24.282 [18] clause 10.2.1.3.2	Rel-15 and below	pc_MCData_MSFD iscoverySignalling	To be set to true if the UE does not retrieve the absolute URI of the media storage function from the user profile but needs SIP signalling; shall be set to false for Rel-16 and above
	In case of an incoming emergency alert or emergency alert cancellation the UE provides an indication and associated information	TS 24.379 [15] clause 12.1.1.3 TS 24.281 [19] clause 11.2.1.3 TS 24.282 [18] clause 16.2.1.3		pc_MCX_DisplayInf oEmergencyAlert	
15	The UE provides a method to rejoin an ongoing session	TS 24.379 [15] clause 10.1.1.2.4 TS 24.281 [19] clause 9.2.1.2.4	Rel-16	pc_MCX_Rejoin	To be set to true if the UE supports the ability to rejoin an ongoing session after leaving the session and provides a method to rejoin an ongoing session
16	Support of Ambient listening call	TS 24.379 [15]		pc_MCX_AmbientL isteningCall	
17	Support of MC service over MBMS	TS 24.379 [15] TS 24.281 [19] TS 24.282 [18]	Rel-14	pc_MCX_MBMSSu pport	
18	Support of MCData IP connectivity (IPCONN)	TS 23.282 [14]		pc_MCData_IPCO NN	sion then both ICS shall be

NOTE 1: If the UE behaviour will depend on the availability or not of a pre-established session then both ICS shall be set to TRUE. This applies for ICS pairs 4 and 5, 6 and 7.

Annex B (informative): Change history

Change history of TS 36.579-4 up to v16.6.0								
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version	
2017-02	R5#74	R5-171301	-	-	-	Introduction of TS 36.579-4.	0.0.1	
2017-12	R5#77	R5-177038	-	-	-	dding applicability for all Client tests		
2017-12	RAN#78	RP-172184	-	-	-	Praft version for information purposes to the RAN Plenary 1		
2018-03	R5#78	R5-180656	-	-	-	Various updates	1.1.0	
2018-03	RAN#79	RP-180129	-	-	-	raft version for approval to move the spec under revision control to e RAN Plenary		
2018-03	RAN#79	-	-	-	-	Editorial changes and promoted to v13.0.0	13.0.0	
2018-06	RAN#80	R5-182435	0001	-	F	Updates of 36.579-4 for MCPTT APN and more	13.1.0	
2018-09	RAN#81	R5-184693	0002	-	F	Adding applicability for new MCPTT Rel-14 TCs	14.0.0	
2019-09	RAN#85	R5-196356	0003	-	F	Updates to Table 4-1	14.1.0	
2019-12	RAN#86	R5-198129	0005		F	Adding applicability for MCVideo TCs	14.2.0	
2019-12		R5-198130	0006		F	Adding applicability for MCData TCs	14.2.0	
2019-12	RAN#86	R5-198166	0007		F	Removal of px_MCPTT_APN_Default	14.2.0	
2019-12	RAN#86	R5-199058	0004	1	F	Update for MCVideo and MCData Clients test applicability	14.2.0	
2020-06	RAN#88	R5-203112	0009	3	F	Update to applicability	14.3.0	
2020-09	RAN#89	R5-204369	0010	1	F	Corrections to MCVideo and MCData tables	14.4.0	
2020-09	RAN#89	R5-204370	0011	ļ <u>.</u>	F	Update of test case applicability to Rel-14	14.4.0	
2020-09	RAN#89	R5-204370	0011	-	F	corrected wrong values to Rel-14 for 6.1.1.17-18	14.4.1	
2021-03	RAN#91	R5-211254	0013	l_	F	Adding an MCPTT test case to the applicability table	14.5.0	
2021-03	RAN#91	R5-211545	0012	1	F	Addition of missing MCX PICS		
2021-06	RAN#92	R5-213669	0015	1	F	Update to ICS proforma tables 1		
2021-06		R5-212154	0014	i -	F	Addition of applicability for new MCPTT Rel-15 test cases	15.0.0	
2021-09		R5-215492	0017	l -	F	Misc. updates to test case applicability and PICS	15.1.0	
2021-12	RAN#94	R5-216752	0018	-	F	Misc. updates to test case applicability and PICS 1		
2021-12	RAN#94	R5-217975	0020	1	F	Update of Clause 4 Test Applicability 1		
2022-03	RAN#95	R5-221101	0022	i -	F	Misc. updates to MC client test cases		
2022-03	RAN#95	R5-222031	0021	1	F	Addition of PICS	15.3.0	
2022-06	RAN#96	R5-223384	0023	1	F	Update of 36.579-4 Applicability for New MCVideo and MCData Test Cases		
2023-03	RAN#99	R5-230146	0025	-	F	Correction of annex A.4 - ICS proforma tables	15.5.0	
2023-03	RAN#99	R5-230147	0026	-	F	Correction of clause 2 - References	15.5.0	
2023-03	RAN#99	R5-231919	0027	1	F	Addition of applicability for new Rel-16 test cases	16.0.0	
2023-06		R5-232605	0029	-	F	Updates to Applicability	16.1.0	
2023-09		R5-233867	0030	-	F	Correction of clause 4	16.2.0	
2023-09		R5-234573	0031	-	F	Updates to Applicability for new Rel-16 MCData Test Cases	16.2.0	
2023-12		R5-237442	0032	1	F	Addition of applicability for Rel-16 test cases	16.3.0	
2024-03		R5-241685	0033	1	F	Addition of applicability for new Rel-16 test cases	16.4.0	
2024-06		R5-242355	0034	-	F	Misc updates	16.5.0	
2024-09		R5-244419	0035	-	F	Correction to the applicability of MCPTT TC 5.9	16.6.0	
2024-09		R5-245672	0037	1	F	Condition for MBMS test cases	16.6.0	
2024-09		R5-245708	0039	1	F			
2024-09		R5-245724	0036	1	F			
2024-09		R5-245725	0038	2	F	Clarification on applicability of MCData SDS and FD test cases	16.6.0	

NOTE: The table above will not be further updated in the future. It shows all TS 36.579-4 CRs taken over into TS 37.579-4 v0.0.1.

Change history of TS 37.579-4								
Date	Meeting	TDoc	CR	R	Cat	Subject/Comment	New	
		_		ev			version	
2024-11	RAN5#105	R5-247092	-	-	-	TS 36.579-4 v16.6.0 content was transferred into this new TS	0.0.1	
						37.579-4 as by definition 36 series specifications cover LTE only		
						aspects and multi-RAT aspects need to be covered in 37 series specifications.		
						The only changes, compared to TS of TS 36.579-4 up to v16.6.0, are:		
						- "over LTE" has been removed from the TS title as beginning with		
						Rel-17 the present document needs to cover also NR/5GC. "Over		
						LTE" is removed from the Annex A (normative) Heading/Title as well In Scope section, one instance of '3GPP TS 37.579-7 [4]' is		
						replaced with '3GPP TS 37.579-7 [12]' with correct reference		
						number.		
						- every instance of TS 36.579-3 has been either deleted or voided.		
						- every instance of TS 36.579 has been replaced by 37.579, except		
						in the Change history table of TS 36.579-4.		
						- Table 4-2: 'Applicability of MCPTT Server tests and additional		
						information for testing' has been voided as it refers to information		
						from TS 36.579-3. Any reference to Table 4-2 has been deleted.		
						- Table 4-2a: 'Applicability of tests Conditions MCPTT Server' has		
						been voided as it refers to information from TS 36.579-3. Any		
						reference to Table 4-2a has been deleted.		
						- the CR history table of TS 36.579-4 was kept as it is for easier		
						reference of all changes included in TS 37.579-4 from TS 36.579-4		
						v16.6.0, and a new Change history table was added for TS 37.579-		
						4.		
						- the 3GPP TS-TR template version 1.18.1 has been used.		
2024-11	RAN5#105	R5-247097	-	-	-	RAN5 agreed 0.1.0 version	0.1.0	
						R5-246518 Corrections of test case applicabilities (TS 36.579-4 CR		
						0040)		
2024-12	RAN#106	RP-242645	-	<u> </u>	-	For one-step approval at RAN#106	1.0.0	
2024-12	RAN#106	-	_		-	raised to v17.0.0 with no change	17.0.0	
2025-03	RAN#107	R5-251328	0001	1	F	Updates for 5G support	17.1.0	

History

	Document history								
V17.0.0	February 2025	ublication							
V17.1.0	April 2025	Publication							