

ETSI TS 136 579-2 V13.3.0 (2020-04)



LTE;
Mission Critical (MC) services over LTE;
Part 2: Mission Critical Push To Talk (MCPTT) User Equipment
(UE) Protocol conformance specification
(3GPP TS 36.579-2 version 13.3.0 Release 13)



Reference

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Keywords

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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 - NAF 742 C
Association à but non lucratif enregistrée à la
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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 over LTE consisting of:

3GPP TS 36.579-1 [2]: "Mission Critical (MC) services over LTE protocol conformance testing; Part 1: Common test environment"

3GPP TS 36.579-2: " Mission Critical (MC) services over LTE; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification" (the present document);

3GPP TS 36.579-3 [3]: " Mission Critical (MC) services over LTE; Part 3: Mission Critical Push To Talk (MCPTT) Server Application test specification";

3GPP TS 36.579-4 [4]: " Mission Critical (MC) services over LTE; Part 4: Test Applicability and Implementation Conformance Statement (ICS)";

3GPP TS 36.579-5 [5]: " Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS)".

1 Scope

The present document specifies the protocol conformance testing for testing a MCPTT Client for compliance to the Mission Critical Push To Talk (MCPTT) over LTE protocol requirements defined by 3GPP.

In particular the present document contains:

- the overall test structure;
- the test configurations;
- the conformance requirement and reference to the core specifications;
- the test purposes; and
- a brief description of the test procedure, the specific test requirements and short message exchange table.

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

The following information relevant to testing specified in the present document could be found in accompanying specifications:

- default setting of the test parameters TS 36.579-1 [2];
- Implementation Conformance Statement (ICS) TS 36.579-4 [4] and Implementation eXtra Information for Testing (IXIT) TS 36.579-5 [5];
- the applicability of each test case TS 36.579-4 [4].

The test cases are expected to be executed through the 3GPP radio interface. The present document does not specify the protocol conformance testing for the EPS (LTE) bearers which carry the MCPTT data sent or received by the MCPTT Client and which are required to be supported by the UE in which the MCPTT Client is installed. This is defined in TS 36.523-1 [6].

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] to [32] (void)

[33] 3GPP TS 36.579-2 Release 14: "Mission Critical (MC) services over LTE; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification"

3 Definitions, symbols and abbreviations

Void

4 General

4.1 Test methodology

The requirements of the present document are provided in 3GPP TS 36.579-2 Release 14 [33].

5 to 7 Void

Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2017-02	RAN5#74	R5-171299	-	-	-	Introduction of TS 36.579-2.	0.0.1
2017-05	RAN5#75	R5-172101	-	-	-	Introduced pCR from R5-172080 New MCPTT TC 6.2.1 CO Private Call automatic floor control emergency upgrade R5-172081 New MCPTT TC 6.2.2 CT Private Call automatic floor control emergency upgrade R5-172082 New MCPTT TC 6.2.3 CO Private Call automatic no floor control R5-172083 New MCPTT TC 6.2.4 CT Private Call automatic no floor control R5-172084 New MCPTT TC 6.2.5 CO Private Emergency Call Automatic R5-172085 New MCPTT TC 6.2.6 CT Private Emergency Call Force of automatic commencement R5-172086 New MCPTT TC 6.2.7 CO Private Call Manual R5-172087 New MCPTT TC 6.2.8 CT Private Call Manual R5-172970 New MCPTT TC 5.3 Group Affiliation and De-affiliation R5-172971 New MCPTT TC 5.4 Pre-established Session Establishment Modification and Release R5-172972 New MCPTT TC 6.1.1.1 CO On-Demand Pre-arranged Group Call with Floor Control and Upgrades and Automatic Commencement Mode R5-172973 New MCPTT TC 6.1.1.4 CT On-demand Pre-arranged Group Call with Manual Commencement Mode R5-172974 New MCPTT TC 6.1.2.3 On-network / One MCPTT System / Chat Group Call Using Pre-established Session / Client originated Pre-established Session Release with associated MCPTT session / Client Origination (CO) R5-172975 MCPTT Testing: Introduction of test case 5.1 in 36.579-2 R5-172976 MCPTT Testing: Introduction of test case 5.2 in 36.579-2 R5-172977 MCPTT Testing: Introduction of test case 6.1.2.1 in 36.579-2	0.0.2
2017-06	RAN5#75	-	-	-	-	lifted to v0.1.0 with small editorial changes, because of technical contents	0.1.0
2017-09	RAN5#76	R5-173767	-	-	-	Introduced pCR from R5-173708 Editorial updates of MCPTT TS 36579-2 R5-173709 Update of MCPTT TC 6.2.1 R5-174601 Update of MCPTT TC 6.2.2 R5-173711 Update of MCPTT TC 6.2.3 R5-173712 Update of MCPTT TC 6.2.4 R5-173713 Update of MCPTT TC 6.2.5 R5-173714 Update of MCPTT TC 6.2.6 R5-173715 Update of MCPTT TC 6.2.7 R5-173716 Update of MCPTT TC 6.2.8 R5-173717 New MCPTT TC 6.2.9 Private call pre-established session automatic CO R5-173718 New MCPTT TC 6.2.10 Private call pre-established session automatic CT R5-173719 New MCPTT TC 6.2.11 Private call pre-established session manual CT R5-173720 New MCPTT TC 7.1.2.1 Private call off-network R5-173721 New MCPTT TC 7.1.2.2 Private call off-network R5-173722 New MCPTT TC 7.1.2.3 Private call off-network R5-173723 New MCPTT TC 7.1.2.4 Private call off-network R5-173724 New MCPTT TC 7.1.2.5 Private call off-network R5-174602 Update of MCPTT TC 6.1.2.2 R5-174603 New MCPTT TC 6.1.2.3 On-network / One MCPTT System / Chat Group Call / Late Entry R5-174604 New MCPTT TC 6.1.2.4 On-network / One MCPTT System / Chat Group Call / Rejection Upon Join Attempt / Join Attempt Successful / De-affiliation R5-174605 Update of MCPTT TC 5.3 R5-174606 Update of MCPTT TC 5.4 R5-174607 Update of MCPTT TC 6.1.1.1 R5-174608 Update of MCPTT TC 6.1.1.4	0.2.0

					<p>R5-174609 New MCPTT TC 6.1.1.2 Group Call Client Terminated with Floor Control</p> <p>R5-174610 New MCPTT TC 6.1.1.3 Group Call CO Manual Commencement</p> <p>R5-174611 New MCPTT TC 6.1.1.5 Group Call CO pre-established session</p> <p>R5-174612 New MCPTT TC 6.1.1.6 Group Call CT pre-established session with auto</p> <p>R5-174613 New MCPTT TC 6.1.1.7 Group Call CT pre-established session with manual</p> <p>R5-174614 New MCPTT TC 6.1.1.15 Group Call CO Emergency Alerts</p> <p>R5-174615 New MCPTT TC 6.1.1.16 Group Call CT Emergency Alerts</p> <p>R5-174616 New MCPTT TC 7.1.1.1 Off-Network Group Call - basic call with upgrades and downgrades</p> <p>R5-174617 MCPTT Testing: Additions for test case 5.1 in 36.579-2</p> <p>R5-174043 MCPTT Testing: Additions for test case 6.1.2.1 in 36.579-2</p> <p>R5-174618 New MCPTT TC 6.1.1.8 On-network / One MCPTT System / Pre-arranged Broadcast Group Call / Client Originated (CO)</p> <p>R5-174619 New MCPTT TC 6.1.1.9 On-network / One MCPTT System / Pre-arranged Broadcast Group Call / Client Terminated (CT)</p> <p>R5-174620 New MCPTT TC 6.1.1.10 On-network / One MCPTT System / Broadcast Group Call with Temporary Group / Client Originated (CO)</p> <p>R5-174621 New MCPTT TC 6.1.1.11 On-network / One MCPTT System / Pre-arranged Emergency Group Call / Client Originated (CO)</p> <p>R5-174622 New MCPTT TC 6.1.1.12 On-network / One MCPTT System / Pre-arranged Emergency Group Call / Client Terminated (CT)</p> <p>R5-174623 New MCPTT TC 6.1.2.5 On-network / One MCPTT System / Chat Group Group-broadcast Broadcast Group Call / Client Originated (CO)</p> <p>R5-174624 New MCPTT TC 6.1.2.6 On-network / One MCPTT System / Chat Group Broadcast Group Call / Client Terminated (CT)</p> <p>R5-174625 New MCPTT TC 6.1.2.7 On-network / One MCPTT System / Chat Group Emergency Group Call / Client Originated (CO)</p> <p>R5-174626 New MCPTT TC 6.1.2.8 On-network / One MCPTT System / Chat Group Emergency Group Call / Client Terminated (CT)</p>		
2017-11	RAN5#77	R5-176836	-	-	-	<p>Updated wit pCR</p> <p>R5-177003, R5-177004, R5-177005, R5-177006, R5-177007, R5-177008, R5-177009, R5-176270, R5-176271, R5-176272, R5-176273, R5-176274, R5-176275, R5-176276, R5-176277, R5-176278, R5-176279, R5-176280, R5-176281, R5-177010, R5-177011, R5-177012, R5-177013, R5-177014, R5-177015, R5-177016, R5-177017, R5-177018, R5-177019, R5-177020, R5-177021, R5-177022, R5-177023, R5-177024, R5-177025, R5-177026, R5-177027, R5-177028, R5-177029, R5-177030, R5-177031, R5-177032, R5-177033, R5-177034, R5-177035, R5-177036, R5-177037</p> <p>Editor's alignments: sections numbering and adding FFS.</p>	0.3.0
2017-12	RAN#78	RP-172183	-	-	-	<p>Draft version for information purposes to the RAN Plenary</p>	1.0.0
2018-03	RAN5#78	R5-180685	-	-	-	<p>Updated with pCR</p> <p>R5-181242, R5-181243, R5-181244, R5-181245, R5-181246, R5-181247, R5-181248, R5-181249, R5-181250, R5-181251, R5-181252, R5-181253, R5-181254, R5-181255, R5-181256, R5-181257, R5-181258, R5-181259, R5-181260, R5-180519, R5-180520, R5-180521, R5-180522, R5-180523, R5-180524, R5-180525, R5-180526, R5-180527, R5-180528, R5-180529, R5-180530, R5-180531, R5-180532, R5-180533, R5-181261, R5-181262, R5-181263, R5-181264, R5-180640, R5-181265, R5-180642, R5-181266, R5-180644, R5-181267, R5-180646, R5-180647, R5-180648, R5-180649, R5-180650, R5-180651, R5-180652, R5-180653, R5-180654, R5-180655, R5-181268</p>	1.1.0

2018-03	RAN#79	RP-180127	-	-	-	Draft version for approval to move the spec under revision control to the RAN Plenary	2.0.0
2018-03	RAN#79	-	-	-	-	Editorial changes and promoted to v13.0.0	13.0.0
2018-06	RAN#80	R5-182418	0001	-	F	Addition and correction of GNSS information	13.1.0
2018-06	RAN#80	R5-182419	0002	-	F	Editorial correction of typos and incorrect references	13.1.0
2018-06	RAN#80	R5-182430	0003	-	F	Editorial Update of 36.579-2 for style H6	13.1.0
2018-06	RAN#80	R5-182431	0004	-	F	Update of TC 5.1 for MCPTT APN	13.1.0
2018-06	RAN#80	R5-182432	0005	-	F	Updates of Location information messages in 36.579-2	13.1.0
2018-06	RAN#80	R5-182489	0008	-	F	Update of MCPTT TC 6.1.1.1	13.1.0
2018-06	RAN#80	R5-182510	0009	-	F	Correction to MCPTT TC of 6.1.1.8, 6.1.1.11, 6.1.2.5 and 6.1.2.7	13.1.0
2018-06	RAN#80	R5-183167	0006	1	F	Updates of TC 6.3.1	13.1.0
2018-06	RAN#80	R5-183168	0007	1	F	Updates of TC 6.3.2	13.1.0
2018-09	RAN#81	R5-184692	0016	-	F	Editorial updates to 36.579-2 Rel-13 TCs	13.2.0
2020-03	RAN#87	R5-200070	0077	-	F	Removal of technical content in 36.579-2 v13.2.0 and substitution with pointer to the next Release	13.3.0

History

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V13.0.0	May 2018	Publication
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