
ReferenceRTS/TSGR-0536579-2vd30

KeywordsLTE

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 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from:

<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format at www.etsi.org/deliver.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:

<https://portal.etsi.org/People/CommiteeSupportStaff.aspx>

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2020.

All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members.

3GPP™ and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

oneM2M™ logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners.

GSM® and the GSM logo are trademarks registered and owned by the GSM Association.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

Legal Notice

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

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found under <http://webapp.etsi.org/key/queryform.asp>.

Modal verbs terminology

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

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

Contents

Intellectual Property Rights	2
Legal Notice	2
Modal verbs terminology.....	2
Foreword.....	4
1 Scope	5
2 References	5
3 Definitions, symbols and abbreviations	5
4 General	6
4.1 Test methodology	6
5 to 7 Void.....	6
Annex A (informative): Change history	7
History	11

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Full standard:
<https://standards.iteh.ai/catalog/standards/sist/01ea86ba-6dc9-4983-b3fa-42636ee27f01/etsi-ts-136-579-2-v13.3.0-2020-04>

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)
Full standard:
<https://standards.iteh.ai/catalog/standards/sist/01ea86ba-6dc9-4983-b3fa-42636ee27f01/etsi-ts-136-579-2-v13.3.0-2020-04>

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