



**LTE;
Mission Critical (MC) services over LTE;
Part 7: Mission Critical Data (MCData) User Equipment (UE)
Protocol conformance specification
(3GPP TS 36.579-7 version 16.7.0 Release 16)**



Reference

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Keywords

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Foreword

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

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Version x.y.z

where:

- x the first digit:
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 - 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.

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

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

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

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

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

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

- can** indicates that something is possible
- cannot** indicates that something is impossible

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

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

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

In addition:

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

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

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

Introduction

The present document is part 7 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 [24]: " Mission Critical (MC) services over LTE; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification";

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)";

3GPP TS 36.579-6 [25]: " Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification";

3GPP TS 36.579-7: " Mission Critical (MC) services over LTE; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification" (the present document).

1 Scope

The present document specifies the protocol conformance testing for testing a MCDData Client for compliance to the Mission Critical Data (MCDData) 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 MCDData 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 MCDData data sent or received by the MCDData Client and which are required to be supported by the UE in which the MCDData Client is installed. This is defined in TS 36.523-1 [6].

According to 3GPP drafting rules, the references clause shall list only documents that are explicitly mentioned in the deliverable. This reference is not used within the document and thus shall be removed from references clause.

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 [44] (void)

[45] 3GPP TS 37.579-7 Release 17: "Mission Critical (MC) services; Part 7: Mission Critical Data (MCDData) User Equipment (UE) Protocol conformance specification"

3 Definitions of terms, symbols and abbreviations

Void

4 General

4.1 Test methodology

The requirements of the present document are provided in 3GPP TS 37.579-7 Release 17 [45].

5 to 7 Void

Annex A (normative): Void

Annex B (informative): Change history

Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version
2018-08	RAN5#80	R5-184608	-	-	-	Introduction of TS 36.579-7	0.0.2
2018-08	RAN5#80	R5-185143	-	-	-	Draft TS 36.579-7 v003	0.0.3
2019-03	RAN5#82	R5-192245	-	-	-	Draft TS 36.579-7 v005	0.0.5
2019-09	RAN5#84	R5-196352	-	-	-	Draft TS 36.579-7 v010	0.1.0
2019-11	RAN5#85	R5-198829	-	-	-	Draft TS 36.579-7 v021	0.2.1
2020-05	RAN5#87	R5-202051	-	-	-	Draft TS 36.579-7 v030	0.3.0
2020-07	RAN#88	RP-200718	-	-	-	Draft version for information purposes to the RAN Plenary	1.0.0
2020-08	RAN5#88	R5-203529	-	-	-	draft TS 36.579-7 v1.1.0	1.1.0
2020-09	RAN#89	RP-201797	-	-	-	Draft version for approval to move the spec under revision control to the RAN Plenary	2.0.0
2020-09	RAN#89	-	-	-	-	upgraded to v14.0.0 with small editorial changes	14.0.0
2020-12	RAN#90	R5-206466	0001	1	F	Update of MCDATA TC 6.1.2	14.1.0
2020-12	RAN#90	R5-206467	0002	1	F	Update of MCDATA TC 6.2.1	14.1.0
2021-03	RAN#91	R5-211355	0003	1	F	Editorial for correcting heading styles	14.2.0
2021-06	RAN#92	R5-213420	0004	1	F	Addition of MCDATA Test Case 6.2.13	15.0.0
2021-12	RAN#94	R5-216754	0008	-	F	Correction of MCDATA test case 5.1	15.1.0
2021-12	RAN#94	R5-216755	0009	-	F	Correction of MCDATA Test Case 6.1.1	15.1.0
2021-12	RAN#94	R5-216756	0010	-	F	Correction of MCDATA Test Case 6.1.2	15.1.0
2021-12	RAN#94	R5-216757	0011	-	F	Correction of MCDATA Test Case 6.1.3	15.1.0
2021-12	RAN#94	R5-216758	0012	-	F	Correction of MCDATA Test Case 6.1.4	15.1.0
2021-12	RAN#94	R5-217914	0006	1	F	New Test Case - 6.3.1 MCDATA Enhanced Status CO	15.1.0
2021-12	RAN#94	R5-217915	0007	1	F	New Test Case - 6.3.2 MCDATA Enhanced Status CT	15.1.0
2022-03	RAN#95	R5-220495	0014	-	F	Correction of clause 2 - References	15.2.0
2022-03	RAN#95	R5-220496	0015	-	F	Correction of clause 6.1 - Short Data Service	15.2.0
2022-03	RAN#95	R5-220497	0016	-	F	Correction of clause 6.2 - File Distribution Test Cases	15.2.0
2022-03	RAN#95	R5-220498	0017	-	F	Correction of clause 6.3 - Enhanced Status Test Cases	15.2.0
2022-03	RAN#95	R5-220499	0018	-	F	Correction of MCDATA Test Case 5.2	15.2.0
2022-03	RAN#95	R5-220500	0019	-	F	Correction of MCDATA Test Case 5.3	15.2.0
2022-03	RAN#95	R5-220501	0020	-	F	Correction of MCDATA Test Case 5.4	15.2.0
2022-03	RAN#95	R5-220502	0021	-	F	MCDATA condition clarification	15.2.0
2022-03	RAN#95	R5-221404	0013	1	F	Addition of test files to annex A	15.2.0
2022-04	RAN#95	-	-	-	-	correction of missing changes of R5-220496-7-8	15.2.1
2022-06	RAN#96	R5-222143	0022	-	F	New MCDATA Test Case 7.1.1 Off-network SDS 1-to-1 call CO	15.3.0
2022-06	RAN#96	R5-222144	0023	-	F	New MCDATA Test Case 7.1.2 Off-network SDS 1-to-1 call CT	15.3.0
2022-06	RAN#96	R5-222145	0024	-	F	New MCDATA Test Case 7.1.3 Off-network SDS group call CO	15.3.0
2022-06	RAN#96	R5-222146	0025	-	F	New MCDATA Test Case 7.1.4 Off-network SDS group call CT	15.3.0
2022-06	RAN#96	R5-222147	0026	-	F	New MCDATA Test Case 7.2.1 Off-network Enhanced Status CO	15.3.0
2022-06	RAN#96	R5-222148	0027	-	F	New MCDATA Test Case 7.2.2 Off-network Enhanced Status CT	15.3.0
2022-12	RAN#98	R5-227627	0028	1	F	Correction of clause 6 - On-Network Test Scenarios	15.4.0
2023-03	RAN#99	R5-232005	0029	1	F	Correction of clause 6.1 - Short Data Service	15.5.0
2023-03	RAN#99	R5-232006	0030	1	F	Correction of clause 6.2 - File Distribution	15.5.0
2023-03	RAN#99	R5-232007	0031	1	F	Correction of clause 6.3 - Enhanced Status (ES)	15.5.0
2023-03	RAN#99	R5-232008	0032	1	F	Correction of clause 7 - Off-Network Test Scenarios	15.5.0
2023-06	RAN#100	R5-232594	0034	-	F	Addition of new test case 5.5 for Pre-established Session Configuration	16.0.0
2023-06	RAN#100	R5-232595	0035	-	F	Addition of new test case 5.6 for CSK Download	16.0.0
2023-06	RAN#100	R5-233493	0036	1	F	Addition of new test case 5.7 for Functional Alias	16.0.0
2023-09	RAN#101	R5-233831	0037	-	F	Correction of test case 5.6	16.1.0
2023-09	RAN#101	R5-233832	0038	-	F	Correction of test case 5.7	16.1.0
2023-09	RAN#101	R5-234583	0047	-	F	Addition of new test case 6.1.21 SDS 1-to-1 Signaling Functional Alias	16.1.0
2023-09	RAN#101	R5-235405	0039	1	F	Addition of new test case 6.1.13 Standalone SDS 1-to-1 Pre-established Session CO	16.1.0
2023-09	RAN#101	R5-235406	0040	1	F	Addition of new test case 6.1.14 Standalone SDS 1-to-1 Pre-established Session CT	16.1.0
2023-09	RAN#101	R5-235407	0041	1	F	Addition of new test case 6.1.15 Session SDS 1-to-1 Pre-established Session CO	16.1.0
2023-09	RAN#101	R5-235408	0042	1	F	Addition of new test case 6.1.16 Session SDS 1-to-1 Pre-established Session CT	16.1.0
2023-09	RAN#101	R5-235409	0043	1	F	Addition of new test case 6.1.17 Standalone SDS group Pre-established Session CO	16.1.0
2023-09	RAN#101	R5-235410	0044	1	F	Addition of new test case 6.1.18 Standalone SDS group Pre-established Session CT	16.1.0
2023-09	RAN#101	R5-235411	0045	1	F	Addition of new test case 6.1.19 Session SDS group Pre-established Session CO	16.1.0
2023-09	RAN#101	R5-235412	0046	1	F	Addition of new test case 6.1.20 Session SDS group Pre-established Session CT	16.1.0
2023-09	RAN#101	R5-235413	0048	1	F	Addition of new test case 6.1.22 SDS 1-to-1 Media Functional Alias	16.1.0
2023-12	RAN#102	R5-236299	0049	-	F	Correction of test case 5.5	16.2.0
2023-12	RAN#102	R5-236300	0050	-	F	Correction of test cases 6.1.15, 6.1.16, 6.1.19 and 6.1.20	16.2.0
2023-12	RAN#102	R5-236611	0052	-	F	Addition of new TC 6.2.15 FD Using Media Plane Active Functional Alias	16.2.0

2023-12	RAN#102	R5-237445	0051	1	F	Addition of new TC 6.2.14 FD Using HTTP Active Functional Alias	16.2.0
2024-03	RAN#103	R5-240584	0053	-	F	Corrections of references to 24.282	16.3.0
2024-03	RAN#103	R5-240647	0054	-	F	Editorial correction to the Scope description	16.3.0
2024-03	RAN#103	R5-241593	0055	1	F	Addition of new TC 6.4.1 Emergency Alert CO	16.3.0
2024-03	RAN#103	R5-241594	0056	1	F	Addition of new TC 6.4.2 Emergency Alert CT	16.3.0
2024-06	RAN#104	R5-242359	0058	-	F	Common correction of test cases in clauses 5 and 6	16.4.0
2024-06	RAN#104	R5-243272	0063	-	F	Correction of MCDATA TC 6.4.2 Emergency Alert	16.4.0
2024-06	RAN#104	R5-243570	0059	1	F	Addition of new TC 6.5.1 Location Information Request	16.4.0
2024-06	RAN#104	R5-243571	0060	1	F	Addition of new TC 6.5.2 Location Report triggering	16.4.0
2024-06	RAN#104	R5-243572	0061	1	F	Addition of new TC 5.8 Rules based affiliation status change	16.4.0
2024-06	RAN#104	R5-243573	0062	1	F	Addition of new TC 5.9 Location based functional alias status change	16.4.0
2024-09	RAN#105	R5-244964	0064	-	F	Addition of New Test Case 6.6.1 MBMS	16.5.0
2024-09	RAN#105	R5-244965	0065	-	F	Addition of New Test Case 6.7.1 IP Connectivity CO	16.5.0
2024-09	RAN#105	R5-244966	0066	-	F	Addition of New Test Case 6.7.2 IP Connectivity CT	16.5.0
2024-09	RAN#105	R5-244971	0071	-	F	Addition of New Test Case 7.3.1 Emergency Alert CO	16.5.0
2024-09	RAN#105	R5-244972	0072	-	F	Addition of New Test Case 7.3.2 Emergency Alert CT	16.5.0
2024-09	RAN#105	R5-245675	0067	1	F	Addition of New Test Case 6.8.1 Message Store Function Objects	16.5.0
2024-09	RAN#105	R5-245676	0068	1	F	Addition of New Test Case 6.8.2 Message Store Function Folders	16.5.0
2024-09	RAN#105	R5-245677	0069	1	F	Addition of New Test Case 6.8.3 Message Store Function Subscription	16.5.0
2024-09	RAN#105	R5-245678	0070	1	F	Addition of New Test Case 6.8.4 Message Store Function Synchronization	16.5.0
2024-09	RAN#105	R5-245679	0073	1	F	Addition of new references	16.5.0
2024-12	RAN#106	R5-246646	0074	-	F	Corrections of test case 6.8.1	16.6.0
2025-03	RAN#107	R5-251432	0075	1	F	Removal of technical content in TS 36.579-7 v16.6.0 and substitution with pointer to TS 37.579-7 on the next Release	16.7.0

History

Document history		
V16.0.0	July 2023	Publication
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