



**LTE;
Mission Critical (MC) services over LTE;
Part 5: Abstract test suite (ATS)
(3GPP TS 36.579-5 version 17.8.0 Release 17)**



Reference

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Keywords

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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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- 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 conformance test specification for Mission Critical services over LTE consisting of:

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

3GPP TS 36.579-2 [3]: "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 [4]: "Mission Critical (MC) services over LTE; Part 3: Mission Critical Push To Talk (MCPTT) Server Application conformance specification"

3GPP TS 36.579-4 [5]: "Mission Critical (MC) services over LTE; Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification"

3GPP TS 36.579-5: "Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS)" (the present specification)

3GPP TS 36.579-6 [59]: "Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification"

3GPP TS 36.579-7 [60]: "Mission Critical (MC) services over LTE; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification"

1 Scope

The present document specifies the protocol and signalling conformance testing in TTCN-3 for the Mission Critical services over LTE signalling and protocol requirements defined by 3GPP.

The following TTCN test specification and design considerations can be found in the present document:

- the test system architecture;
- the overall test suite structure;
- the test models and ASP definitions;
- the test methods and usage of communication ports definitions;
- the test configurations;
- the design principles and assumptions;
- TTCN styles and conventions;
- the partial Implementation eXtra Information for Testing (IXIT) proforma;
- the test suites.

The Abstract Test Suites designed in the document are based on the test cases specified in 3GPP TS 36.579-2 [3], TS 36.579-6 [59] and TS 36.579-7 [60]. The test cases specified in 3GPP TS 36.579-3 [4] are out of scope of the present document.

The applicability of the individual test cases is specified in the test ICS proforma specification in 3GPP TS 36.579-4 [5]. Where appropriate the Abstract Test Suites belonging to the present specification may refer to other Abstract Test Suites e.g. 3GPP TS 36.523-3 [27] for test requirements related to the EPS (LTE) bearers which carry the Mission Critical services data.

The present document is valid for TTCN development for Mission Critical services clients' conformance tests according to 3GPP Releases starting from Release 14 up to the Release indicated on the cover page of the present document.

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.
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[1] to [71] (void)

[72] 3GPP TS 36.579-5: "Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS)"

3 Definitions, symbols and abbreviations

Void

4 Test system architecture

Void

5 Test models

The requirements of the present document are provided in 3GPP TS 36.579-5 Release 18 [72].

6 to 10 Void

Annex A to E: Void

Annex F (informative): Change history

Change history							
Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version
2017-02	RAN5#74	R5-171302	-	-	-	Introduction of TS 36.579-5.	0.0.1
2018-03	RAN5#78	R5-180687	-	-	-	Implements changes agreed in R5-180618 "MCPTT: Initial Test Model" R5-180657 "Various updates to 36579-5"	0.1.0
2018-03	RAN#79	RP-180130	-	-	-	Draft version for information purposes to the RAN Plenary	1.0.0
2018-05	RAN5#79	R5-182437	-	-	-	Implements changes agreed in R5-183163 R5-183164	2.0.0
2018-06	RAN#80	RP-180655	-	-	-	put under revision control as v13.0.0 with small editorial changes	13.0.0
2018-09	RAN#81	R5-184081	0001	-	F	MCPTT: Test Model updates	13.1.0
2018-12	RAN#82	R5-192380	0002	1	F	Routine maintenance for TS 36.579-5	13.2.0
2019-06	RAN#84	R5-195221	0003	1	F	Routine maintenance for TS 36.579-5	13.3.0
2019-06	RAN#84	R5-195222	0004	1	F	Introduction of MCPTT test model over IP	13.3.0
2019-12	RAN#86	R5-199050	0005	1	F	Routine maintenance for TS 36.579-5	13.4.0
2020-03	RAN#87	R5-201152	0006	1	F	Routine maintenance for TS 36.579-5	13.5.0
2020-06	RAN#88	R5-203077	0007	1	F	Routine maintenance for TS 36.579-5	13.6.0
2020-09	RAN#89	R5-203554	0008	-	F	Routine maintenance for TS 36.579-5	13.7.0
2020-09	RAN#89	R5-204377	0010	-	F	Updates to introduce support for MCVideo and MCData	14.0.0
2020-12	RAN#90	R5-206465	0011	1	F	Routine maintenance for TS 36.579-5	14.1.0
2021-03	RAN#91	R5-210255	0012	-	F	Routine maintenance for TS 36.579-5	14.2.0
2021-06	RAN#92	R5-213670	0017	1	F	Routine maintenance for TS 36.579-5	14.3.0
2021-09	RAN#93	R5-216343	0019	1	F	Routine maintenance for TS 36.579-5	14.4.0
2021-09	RAN#93	R5s210779	0018	-	B	Addition of MCPTT test case 6.1.1.2 to the MCX ATS	14.4.0
2021-09	RAN#93	R5s210897	0013	1	B	Addition of MCPTT test case 5.1 to the MCX ATS	14.4.0
2021-09	RAN#93	R5s210899	0014	1	B	Addition of MCPTT test case 6.1.1.1 to the MCX ATS	14.4.0
2021-09	RAN#93	R5s211178	0020	-	F	Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.579-5 (prose), Annex A	14.4.0
2021-12	RAN#94	R5-216753	0060	-	F	Routine maintenance for TS 36.579-5	14.5.0
2021-12	RAN#94	R5s211359	0046	-	B	Addition of MCPTT test case 6.2.1 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211361	0047	-	B	Addition of MCPTT test case 6.2.2 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211363	0048	-	B	Addition of MCPTT test case 6.2.3 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211365	0049	-	B	Addition of MCPTT test case 6.2.4 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211367	0050	-	B	Addition of MCPTT test case 6.2.5 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211369	0051	-	B	Addition of MCPTT test case 6.2.6 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211371	0052	-	B	Addition of MCPTT test case 6.2.7 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211373	0053	-	B	Addition of MCPTT test case 6.2.8 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211377	0055	-	B	Addition of MCPTT test case 6.2.15 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211381	0057	-	B	Addition of MCPTT test case 6.2.17 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211463	0021	1	B	Addition of MCPTT test case 5.3 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211469	0059	-	F	Configuration of SRTP	14.5.0
2021-12	RAN#94	R5s211617	0023	1	B	Addition of MCPTT test case 6.1.1.4 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211618	0024	1	B	Addition of MCPTT test case 6.1.1.8 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211619	0025	1	B	Addition of MCPTT test case 6.1.1.9 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211620	0026	1	B	Addition of MCPTT test case 6.1.1.11 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211621	0027	1	B	Addition of MCPTT test case 6.1.1.12 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211628	0028	1	B	Addition of MCPTT test case 6.1.1.13 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211629	0029	1	B	Addition of MCPTT test case 6.1.1.14 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211630	0030	1	B	Addition of MCPTT test case 6.1.2.7 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211631	0031	1	B	Addition of MCPTT test case 6.1.2.8 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211632	0032	1	B	Addition of MCPTT test case 6.1.2.9 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211633	0033	1	B	Addition of MCPTT test case 6.1.2.10 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211634	0034	1	B	Addition of MCPTT test case 6.1.2.11 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211635	0035	1	B	Addition of MCPTT test case 6.1.2.12 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211688	0022	1	B	Addition of MCPTT test case 6.1.1.3 to the MCX ATS	14.5.0
2021-12	RAN#94	R5s211695	0061	-	F	Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.579-5 (prose), Annex A	14.5.0
2022-03	RAN#95	R5-220488	0070	-	F	Routine maintenance for TS 36.579-5	14.6.0
2022-03	RAN#95	R5s220129	0062	-	B	Addition of MCPTT test case 5.4 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220131	0063	-	B	Addition of MCPTT test case 6.1.1.5 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220133	0064	-	B	Addition of MCPTT test case 6.1.1.6 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220135	0065	-	B	Addition of MCPTT test case 6.1.1.10 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220137	0066	-	B	Addition of MCPTT test case 6.1.1.16 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220139	0067	-	B	Addition of MCPTT test case 6.1.1.18 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220141	0068	-	B	Addition of MCPTT test case 6.1.1.21 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220143	0069	-	B	Addition of MCPTT test case 6.2.16 to the MCX ATS	14.6.0
2022-03	RAN#95	R5s220344	0071	-	F	Correction of MCPTT ambient listening test cases	14.6.0
2022-03	RAN#95	R5s220346	0072	-	F	Update of function f_URL_Decoding	14.6.0

2022-03	RAN#95	R5s220437	0073	-	F	Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.579-5 (prose), Annex A	14.6.0
2022-06	RAN#96	R5s220559	0074	-	F	Correction of f_MCX_InviteMT_SendINVITE	14.7.0
2022-09	RAN#97	R5-223960	0076	-	F	Routine maintenance for TS 36.579-5	14.8.0
2022-09	RAN#97	R5s220869	0075	-	F	MCX Implementation Issues	14.8.0
2022-09	RAN#97	R5s220992	0077	-	B	Addition of MCPTT test case 5.6 to the MCX ATS	14.8.0
2022-09	RAN#97	R5s220994	0078	-	B	Addition of MCPTT test case 6.1.1.17 to the MCX ATS	14.8.0
2022-09	RAN#97	R5s220996	0079	-	B	Addition of MCPTT test case 6.1.1.20 to the MCX ATS	14.8.0
2022-09	RAN#97	R5s221072	0086	-	F	Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.579-5 (prose), Annex A	15.0.0
2022-12	RAN#98	R5s221283	0082	1	B	Addition of MCDATA test case 5.1 to the MCX ATS	15.1.0
2022-12	RAN#98	R5s221284	0083	1	B	Addition of MCDATA test case 6.1.1 to the MCX ATS	15.1.0
2022-12	RAN#98	R5s221285	0084	1	B	Addition of MCDATA test case 6.1.3 to the MCX ATS	15.1.0
2022-12	RAN#98	R5s221286	0085	1	B	Addition of MCDATA test case 6.1.4 to the MCX ATS	15.1.0
2022-12	RAN#98	R5s221361	0091	-	F	Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.579-5 (prose), Annex A	15.1.0
2022-12	RAN#98	-	-	-	-	upgrade to Rel16 with no change	16.0.0
2022-12	RAN#98	R5s221241	0088	-	F	Rel-17 Sep'22 baseline upgrade for MCX Test Suites	17.0.0
2023-03	RAN#99	R5-230148	0092	-	F	Routine maintenance for TS 36.579-5	17.1.0
2023-03	RAN#99	R5s230192	0090	1	F	Correction of function fl_MCPTT_Info_AmbientListening_RX	17.1.0
2023-06	RAN#100	R5-232221	0093	-	F	Routine maintenance for TS 36.579-5	17.2.0
2023-06	RAN#100	R5-232604	0094	-	F	Update to MCX PIXITs for MCDATA Functional Alias	17.2.0
2023-09	RAN#101	R5-233868	0099	-	F	Routine maintenance for TS 36.579-5	17.3.0
2023-09	RAN#101	R5s230578	0095	1	B	Addition of MCPTT test case 5.8 to the MCX ATS	17.3.0
2023-09	RAN#101	R5s230579	0096	1	B	Addition of MCPTT test case 6.1.1.19 to the MCX ATS	17.3.0
2023-09	RAN#101	R5s230580	0097	1	B	Addition of MCPTT test case 6.1.2.13 to the MCX ATS	17.3.0
2023-09	RAN#101	R5s230581	0098	1	B	Addition of MCPTT test case 6.2.14 to the MCX ATS	17.3.0
2023-09	RAN#101	R5s230672	0100	-	F	Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.579-5 (prose), Annex A	17.3.0
2023-12	RAN#102	R5-237446	0102	1	F	Routine maintenance for TS 36.579-5	17.4.0
2024-03	RAN#103	R5-241686	0105	1	F	Addition of new PIXITs for REL-16 TCs	17.5.0
2024-03	RAN#103	R5s240111	0103	-	F	Correction of MMI in test cases 6.1.1.19 and 6.1.2.13	17.5.0
2024-03	RAN#103	R5s240148	0104	-	F	Correction of f_MCX_IMS_ServiceAuthorization	17.5.0
2024-03	RAN#103	R5s240241	0107	-	F	Update of TTCN type definitions, Annex E	17.5.0
2024-06	RAN#104	R5-242399	0111	-	F	Routine maintenance for TS 36.579-5	17.6.0
2024-06	RAN#104	R5s240279	0108	-	F	Corrections for MCX registration	17.6.0
2024-06	RAN#104	R5s240332	0106	1	F	Misc corrections for MCX	17.6.0
2024-06	RAN#104	R5s240360	0112	-	F	Correction CSK upload	17.6.0
2024-06	RAN#104	R5s240420	0114	-	F	Update of TTCN type definitions, Annex E	17.6.0
2024-09	RAN#105	R5-245598	0120	-	F	Routine maintenance for TS 36.579-5	17.7.0
2024-09	RAN#105	R5-245674	0119	1	F	Addition of MCDATA Message Store Function terminology	17.7.0
2024-09	RAN#105	R5s240492	0115	1	F	Correction to the request URI template	17.7.0
2025-06	RAN#108	R5-253029	0127	-	F	Removal of technical content in TS 36.579-5 v17.7.0 and substitution with pointer to the next Release	17.8.0

History

Document history		
V17.0.0	January 2023	Publication
V17.1.0	April 2023	Publication
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