

ETSI TS 136 579-6 V15.7.0 (2023-07)



LTE;
Mission Critical (MC) services over LTE;
Part 6: Mission Critical Video (MCVideo) User Equipment (UE)
Protocol conformance specification
(3GPP TS 36.579-6 version 15.7.0 Release 15)



Reference

RTS/TSGR-0536579-6vf70

Keywords

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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 [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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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.

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 6 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: "Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification" (the present document);

3GPP TS 36.579-7 [25]: "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 conformance testing for testing a MCVideo Client for compliance to the Mission Critical Video (MCVideo) 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 MCVideo 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 MCVideo data sent or received by the MCVideo Client and which are required to be supported by the UE in which the MCVideo 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 [30] (void)

[31] 3GPP TS 36.579-6 Release 16: "Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification"

3 Definitions of terms, symbols and abbreviations

Void

4 General

The requirements of the present document are provided in 3GPP TS 36.579-6 Release 16 [31].

5 to 7 Void

Annex A (informative): Change history

Date	Meeting	TDoc	CR	R ev	Cat	Subject/Comment	New version
2018-08	RAN5#80	R5-184607	-	-	-	Introduction of TS 36.579-6	0.0.2
2018-08	RAN5#80	R5-184990	-	-	-	New Test Case for 36.579-6 - 6.1.1.8	0.0.3
2018-08	RAN5#80	R5-185142	-	-	-	Draft TS 36.579-6 v003	0.0.3
2019-06	RAN5#83	R5-195214	-	-	-	New TC for 36.579-6 - 6.1.1.3 Group Call Manual CO	0.0.4
2019-06	RAN5#83	R5-195215	-	-	-	New TC for 36.579-6 - 6.1.1.4 Group Call Manual CT	0.0.4
2019-06	RAN5#83	R5-194733	-	-	-	Draft TS 36.579-6 v004	0.0.4
2019-09	RAN5#84	R5-196351	-	-	-	Draft TS 36.579-6 v010	0.1.0
2019-11	RAN5#85	R5-198828	-	-	-	Draft TS 36.579-6 v0.2.1	0.2.1
2020-05	RAN5#87	R5-202050	-	-	-	Draft TS 36.579-6 v0.3.0	0.3.0
2020-07	RAN#88	RP-200716	-	-	-	Draft version for information purposes to the RAN Plenary	1.0.0
2020-08	RAN5#88	R5-203528	-	-	-	draft TS 36.579-6 v1.1.0	1.1.0
2020-09	RAN#89	RP-201796	-	-	-	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
2021-03	RAN#91	R5-211269	0002	-	F	Correction to MCVideo Test Case 6.2.6	14.1.0
2021-03	RAN#91	R5-211546	0001	1	F	Correction to MCVideo Test Case 6.1.1.9	14.1.0
2021-06	RAN#92	R5-212357	0005	-	F	Correction to MCVideo Test Case 6.1.1.1	14.2.0
2021-06	RAN#92	R5-212358	0006	-	F	Correction to MCVideo Test Case 6.1.1.2	14.2.0
2021-06	RAN#92	R5-212359	0007	-	F	Correction to MCVideo Test Case 6.1.1.3	14.2.0
2021-06	RAN#92	R5-212360	0008	-	F	Correction to MCVideo Test Case 6.1.1.4	14.2.0
2021-06	RAN#92	R5-212361	0009	-	F	Correction to MCVideo Test Case 6.1.1.5	14.2.0
2021-06	RAN#92	R5-212362	0010	-	F	Correction to MCVideo Test Case 6.1.1.6	14.2.0
2021-06	RAN#92	R5-212363	0011	-	F	Correction to MCVideo Test Case 6.1.1.7	14.2.0
2021-06	RAN#92	R5-212364	0012	-	F	Correction to MCVideo Test Case 6.1.1.8	14.2.0
2021-06	RAN#92	R5-212365	0013	-	F	Correction to MCVideo Test Case 6.1.1.9	14.2.0
2021-06	RAN#92	R5-212366	0014	-	F	Correction to MCVideo Test Case 6.1.1.10	14.2.0
2021-06	RAN#92	R5-212367	0015	-	F	Correction to MCVideo Test Case 6.1.1.11	14.2.0
2021-06	RAN#92	R5-213256	0016	-	F	Addition of new MCVideo test case 6.1.1.12 On-network / On-demand Pre-arranged Group Call / Transmission Control State Transitions / Client Originated (CO)	15.0.0
2021-06	RAN#92	R5-213257	0017	-	F	Addition of new MCVideo test case 6.1.1.13 On-network / On-demand Pre-arranged Group Call / Reception Control State Transitions / Client Terminated (CT)	15.0.0
2021-09	RAN#93	R5-215593	0024	-	F	Correction to MCVideo Test Case 6.2.3	15.1.0
2021-09	RAN#93	R5-215594	0025	-	F	Correction to MCVideo Test Case 6.2.4	15.1.0
2021-09	RAN#93	R5-215595	0026	-	F	Correction to MCVideo Test Case 6.2.5	15.1.0
2021-09	RAN#93	R5-215596	0027	-	F	Correction to MCVideo Test Case 6.2.6	15.1.0
2021-09	RAN#93	R5-215599	0030	-	F	Addition of MCVideo Test Case 6.1.2.5 On-network / On-demand Pre-arranged Group Call / Emergency Group Call / Client Originated (CO)	15.1.0
2021-09	RAN#93	R5-216344	0018	1	F	Correction to MCVideo Test Case 6.1.2.1	15.1.0
2021-09	RAN#93	R5-216345	0019	1	F	Correction to MCVideo Test Case 6.1.2.2	15.1.0
2021-09	RAN#93	R5-216346	0020	1	F	Correction to MCVideo Test Case 6.1.2.3	15.1.0
2021-09	RAN#93	R5-216347	0021	1	F	Correction to MCVideo Test Case 6.1.2.4	15.1.0
2021-09	RAN#93	R5-216348	0022	1	F	Correction to MCVideo Test Case 6.2.1	15.1.0
2021-09	RAN#93	R5-216349	0023	1	F	Correction to MCVideo Test Case 6.2.2	15.1.0
2021-09	RAN#93	R5-216350	0028	1	F	Correction to MCVideo Test Case 6.2.7	15.1.0
2021-09	RAN#93	R5-216351	0029	1	F	Correction to MCVideo Test Case 6.2.8	15.1.0
2022-03	RAN#95	R5-220489	0036	-	F	Correction of MCVideo Test Case 5.1	15.2.0
2022-03	RAN#95	R5-220490	0037	-	F	Correction of MCVideo Test Case 5.2	15.2.0
2022-03	RAN#95	R5-220491	0038	-	F	Correction of MCVideo Test Case 5.3	15.2.0
2022-03	RAN#95	R5-220492	0039	-	F	Correction of MCVideo Test Case 5.4	15.2.0
2022-03	RAN#95	R5-220493	0040	-	F	MCVideo condition clarification	15.2.0
2022-03	RAN#95	R5-221546	0032	1	F	New MCVideo TC 6.4.1 Video Pull	15.2.0
2022-03	RAN#95	R5-221547	0033	1	F	New MCVideo TC 6.5.1 Video Push	15.2.0
2022-03	RAN#95	R5-221548	0034	1	F	New MCVideo TC 6.3.1 Emergency Alert CO	15.2.0
2022-03	RAN#95	R5-221549	0035	1	F	New MCVideo TC 6.7.1 Remote Initiated Ambient Viewing CO	15.2.0
2022-03	RAN#95	R5-221550	0041	1	F	New MCVideo TC 6.7.2 Remote Initiated Ambient Viewing CT	15.2.0
2022-03	RAN#95	R5-221551	0042	1	F	New MCVideo TC Selected Group Change of Targeted User CO	15.2.0
2022-03	RAN#95	R5-221552	0043	1	F	New MCVideo TC Selected Group Change of Targeted User CT	15.2.0
2022-03	RAN#95	R5-221553	0044	1	F	New MCVideo TC Conference Event Package	15.2.0
2022-03	RAN#95	R5-221554	0045	1	F	New MCVideo TC 6.3.2 Emergency Alert CT	15.2.0
2022-03	RAN#95	R5-221555	0046	1	F	New MCVideo TC MBMS	15.2.0
2022-06	RAN#96	R5-222149	0047	-	F	New MCVIDEO OFF-NETWORK TC 7.1.1.1 Off-network Basic Group Call CO	15.3.0
2022-06	RAN#96	R5-222150	0048	-	F	New MCVIDEO OFF-NETWORK TC 7.1.1.2 Off-network Basic Group Call CT	15.3.0
2022-06	RAN#96	R5-222151	0049	-	F	New MCVIDEO OFF-NETWORK TC 7.1.1.3 Off-network Emergency Call CO	15.3.0
2022-06	RAN#96	R5-222152	0050	-	F	New MCVIDEO OFF-NETWORK TC 7.1.1.4 Off-network Emergency Call CT	15.3.0

2022-06	RAN#96	R5-222153	0051	-	F	New MCVIDEO OFF-NETWORK TC 7.1.1.5 Off-network Imminent Peril Call CO	15.3.0
2022-06	RAN#96	R5-222154	0052	-	F	New MCVIDEO OFF-NETWORK TC 7.1.1.6 Off-network Imminent Peril Call CT	15.3.0
2022-06	RAN#96	R5-222155	0053	-	F	New MCVIDEO OFF-NETWORK TC 7.1.2.1 Off-network Broadcast Call CO	15.3.0
2022-06	RAN#96	R5-222156	0054	-	F	New MCVIDEO OFF-NETWORK TC 7.1.2.2 Off-network Broadcast Call CT	15.3.0
2022-06	RAN#96	R5-222157	0055	-	F	New MCVIDEO OFF-NETWORK TC 7.2.1 Off-network Auto Private Call CO	15.3.0
2022-06	RAN#96	R5-222158	0056	-	F	New MCVIDEO OFF-NETWORK TC 7.2.2 Off-network Auto Private Call CT	15.3.0
2022-06	RAN#96	R5-222159	0057	-	F	New MCVIDEO OFF-NETWORK TC 7.2.3 Off-network Manual Private Call CO	15.3.0
2022-06	RAN#96	R5-222160	0058	-	F	New MCVIDEO OFF-NETWORK TC 7.2.4 Off-network Manual Private Call CT	15.3.0
2022-06	RAN#96	R5-222161	0059	-	F	New MCVIDEO OFF-NETWORK TC 7.3.1 Off-network Emergency Alert CO	15.3.0
2022-06	RAN#96	R5-222162	0060	-	F	New MCVIDEO OFF-NETWORK TC 7.3.2 Off-network Emergency Alert CT	15.3.0
2022-06	RAN#96	R5-222370	0061	-	F	Correction of Emergency Alert Test Cases in clause 6.3	15.3.0
2022-06	RAN#96	R5-222371	0062	-	F	Correction of MCVideo Test Cases clause 6.7	15.3.0
2022-06	RAN#96	R5-222372	0063	-	F	Correction of test case 6.1.4.1	15.3.0
2022-06	RAN#96	R5-222373	0064	-	F	Correction of test case 6.1.4.2	15.3.0
2022-06	RAN#96	R5-222374	0065	-	F	Correction of Video Pull Test Cases in clause 6.4	15.3.0
2022-06	RAN#96	R5-222375	0066	-	F	Correction of Video Push Test Cases in clause 6.5	15.3.0
2022-06	RAN#96	R5-222404	0067	-	F	Correction of Group Call Test Cases in clause 6.1	15.3.0
2022-06	RAN#96	R5-223479	0068	1	F	Correction of Private Call Test Cases in clause 6.2	15.3.0
2022-09	RAN#97	R5-223961	0069	-	F	Correction of test cases in clause 6.1.1 - Pre-Arranged Group Call	15.4.0
2022-09	RAN#97	R5-223962	0070	-	F	Correction of test cases in clause 6.1.4 - Remote change of selected group	15.4.0
2022-12	RAN#98	R5-227618	0071	1	F	Correction of clause 6.1.1 - Pre-Arranged Group Call	15.5.0
2022-12	RAN#98	R5-227619	0072	1	F	Correction of clause 6.1.2 - Chat Group Call	15.5.0
2022-12	RAN#98	R5-227620	0073	1	F	Correction of clause 6.1.3 - Subscription to Conference Event Package	15.5.0
2022-12	RAN#98	R5-227621	0074	1	F	Correction of clause 6.2 - Private Calls	15.5.0
2022-12	RAN#98	R5-227622	0075	1	F	Correction of clause 6.3 - Emergency Alert	15.5.0
2022-12	RAN#98	R5-227623	0076	1	F	Correction of clause 6.4 - Video Pull	15.5.0
2022-12	RAN#98	R5-227624	0077	1	F	Correction of clause 6.5 - Video Push	15.5.0
2022-12	RAN#98	R5-227625	0078	1	F	Correction of clause 6.7 - Ambient viewing call	15.5.0
2022-12	RAN#98	R5-227626	0079	1	F	Correction of clause 6.8 - Use of MBMS transmission	15.5.0
2023-03	RAN#99	R5-230151	0085	-	F	Correction of clause 6.3 - Emergency Alert	15.6.0
2023-03	RAN#99	R5-230152	0086	-	F	Correction of clause 6.4 - Video Pull	15.6.0
2023-03	RAN#99	R5-230153	0087	-	F	Correction of clause 6.5 - Video Push	15.6.0
2023-03	RAN#99	R5-230154	0088	-	F	Correction of clause 6.7 - Ambient viewing call	15.6.0
2023-03	RAN#99	R5-232001	0083	1	F	Correction of clause 6.1 - Group Calls	15.6.0
2023-03	RAN#99	R5-232002	0084	1	F	Correction of clause 6.2 - Private Calls	15.6.0
2023-03	RAN#99	R5-232003	0089	1	F	Correction of clause 6.8 - Use of MBMS transmission	15.6.0
2023-03	RAN#99	R5-232004	0090	1	F	Correction of clause 7 - Off-Network Test Scenarios	15.6.0
2023-06	RAN#100	R5-232140	0092	-	F	Removal of technical content in TS 36.579-6 v15.6.0 and substitution with pointer to the next Release	15.7.0

History

Document history		
V15.0.0	September 2021	Publication
V15.1.0	October 2021	Publication
V15.2.0	May 2022	Publication
V15.3.0	August 2022	Publication
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V15.5.0	January 2023	Publication
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