

ETSI TS 124 484 V19.5.0 (2026-03)



TECHNICAL SPECIFICATION

**LTE;
Mission Critical Services (MCS) configuration management;
Protocol specification
(3GPP TS 24.484 version 19.5.0 Release 19)**

get full document from standards.iteh.ai



Reference

RTS/TSGC-0124484vj50

Keywords

LTE

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 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from the
[ETSI Search & Browse Standards](#) application.

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 on [ETSI deliver](#) repository.

Users should be aware that the present document may be revised or have its status changed, this information is available in the [Milestones listing](#).

If you find errors in the present document, please send your comments to the relevant service listed under [Committee Support Staff](#).

If you find a security vulnerability in the present document, please report it through our [Coordinated Vulnerability Disclosure \(CVD\)](#) program.

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

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 2026.
All rights reserved.

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are 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 IPR online database](#).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, 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.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™**, **LTE™** and **5G™** logo 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.

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 at [3GPP to ETSI numbering cross-referencing](#).

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.....	9
1 Scope	11
2 References	11
3 Definitions and abbreviations.....	13
3.1 Definitions	13
3.2 Abbreviations	14
4 General	14
4.1 MCS service administrator configuration.....	14
4.1.1 Common configuration	14
4.1.2 MCPTT configuration.....	15
4.1.3 MCVideo configuration	15
4.1.4 MCDATA configuration	16
4.2 MCS UE configuration.....	16
4.2.1 General.....	16
4.2.2 Online configuration	17
4.2.2.1 General	17
4.2.2.1.1 MCS UE configuration on primary MC system	17
4.2.2.1.2 MCS UE configuration for migration to a partner MC system.....	18
4.2.2.2 MCPTT	20
4.2.2.3 MCVideo configuration	20
4.2.2.4 MCDATA configuration	21
4.2.3 Offline configuration	21
4.2.3.1 General	21
4.2.3.2 MCPTT	21
4.2.3.3 MCVideo configuration	21
4.2.3.4 MCDATA configuration	21
4.3 MCS server.....	22
4.3.1 General.....	22
4.3.2 MCPTT Server.....	22
4.3.3 MCVideo Server.....	22
4.3.4 MCDATA Server	22
4.4 Configuration management server.....	22
5 Functional entities	23
5.1 Configuration management client (CMC).....	23
5.2 Configuration management server (CMS)	23
5.3 MCS server.....	24
6 Procedures	24
6.1 Introduction	24
6.2 Common procedures.....	25
6.2.1 General.....	25
6.2.2 Client procedures	25
6.2.3 MCS server procedures.....	25
6.2.4 Configuration management server procedures.....	25
6.2.4.1 General	25
6.2.4.2 SIP failure case.....	25
6.3 Configuration management procedures.....	25
6.3.1 General.....	25
6.3.1.1 Client procedures	25
6.3.1.2 Configuration management server procedures.....	26

6.3.2	Configuration management document creation procedure	26
6.3.2.1	General	26
6.3.2.2	Configuration management client (CMC) procedures	26
6.3.2.3	Configuration management server (CMS) procedures	26
6.3.3	Configuration management document retrieval procedure	26
6.3.3.1	General	26
6.3.3.2	Client procedures	26
6.3.3.2.1	General client (GC) procedures	26
6.3.3.2.2	Configuration management client (CMC) procedures	26
6.3.3.2.3	MCS server procedures	26
6.3.3.3	Configuration management server procedures	26
6.3.4	Configuration management document update procedure	27
6.3.4.1	General	27
6.3.4.2	Configuration management client procedures	27
6.3.4.3	Configuration management server procedures	27
6.3.5	Configuration management document deletion procedure	27
6.3.5.1	General	27
6.3.5.2	Configuration management Client (CMC) procedures	27
6.3.5.3	Configuration management server (CMS) procedures	27
6.3.6	Configuration management document element creation or replacement procedure	27
6.3.6.1	General	27
6.3.6.2	Client procedures	27
6.3.6.2.1	General client procedures	27
6.3.6.2.2	Configuration management client procedures	28
6.3.6.3	Configuration management server procedures	28
6.3.7	Configuration management document element deletion procedure	28
6.3.7.1	General	28
6.3.7.2	Client procedures	28
6.3.7.2.1	General client procedures	28
6.3.7.2.2	Configuration management client procedures	28
6.3.7.3	Configuration management server procedures	28
6.3.8	Configuration management document element fetching procedure	28
6.3.8.1	General	28
6.3.8.2	Client procedures	28
6.3.8.2.1	General client procedures	28
6.3.8.2.2	Configuration management client procedures	29
6.3.8.2.3	MCS server procedures	29
6.3.8.3	Configuration management server procedures	29
6.3.9	Configuration management document attribute creation or replacement procedure	29
6.3.9.1	General	29
6.3.9.2	Client procedures	29
6.3.9.2.1	General client procedures	29
6.3.9.2.2	Configuration management client procedures	29
6.3.9.3	Configuration management server procedures	29
6.3.10	Configuration management document attribute deletion procedure	29
6.3.10.1	General	29
6.3.10.2	Client procedures	30
6.3.10.2.1	General client procedures	30
6.3.10.2.2	Configuration management client procedures	30
6.3.10.3	Configuration management server procedures	30
6.3.11	Configuration management document attribute fetching procedure	30
6.3.11.1	General	30
6.3.11.2	Client procedures	30
6.3.11.2.1	General client procedures	30
6.3.11.2.2	Configuration management client procedures	30
6.3.11.2.3	MCS server procedures	30
6.3.11.3	Configuration management server procedures	30
6.3.12	Configuration management document namespace binding fetching procedure	31
6.3.12.1	General	31
6.3.12.2	Client procedures	31
6.3.12.2.1	General client procedures	31
6.3.12.2.2	Configuration management client procedures	31

6.3.12.2.3	MCS server procedures	31
6.3.12.3	Configuration management server procedures	31
6.3.13	Configuration management subscription and notification procedure	31
6.3.13.1	General	31
6.3.13.2	Client procedures	31
6.3.13.2.1	General client (GC) procedures	31
6.3.13.2.2	Configuration management client procedures	31
6.3.13.2.3	MCS server procedures	33
6.3.13.3	Configuration management server procedures	33
6.3.13.3.1	General	33
6.3.13.3.2	Procedures for CMS performing the subscription function	33
7	Common configuration management documents	36
7.1	Introduction	36
7.2	MCS UE initial configuration document	36
7.2.1	General	36
7.2.1.0	Applicability	36
7.2.1.1	MCS client access to UE initial configuration documents	36
7.2.2	Coding	37
7.2.2.1	Structure	37
7.2.2.2	Application Unique ID	41
7.2.2.3	XML Schema	41
7.2.2.4	Default Document Namespace	46
7.2.2.5	MIME type	46
7.2.2.6	Validation Constraints	46
7.2.2.7	Data Semantics	50
7.2.2.8	Naming Conventions	56
7.2.2.9	Global documents	56
7.2.2.10	Resource interdependencies	56
7.2.2.11	Authorization Policies	56
7.2.2.12	Subscription to Changes	56
7.3	Void	56
7.4	Location user configuration data document	56
7.4.1	General	56
7.4.1.1	Applicability	56
7.4.1.2	LMC access to location user configuration data documents	57
7.4.2	Coding	57
7.4.2.1	Structure	57
7.4.2.3	XML Schema	58
7.4.2.4	Default Document Namespace	58
7.4.2.5	MIME type	58
7.4.2.6	Validation Constraints	58
7.4.2.7	Data Semantics	58
7.4.2.8	Naming Conventions	59
7.4.2.9	Global documents	59
7.x.2.10	Resource interdependencies	60
7.4.2.11	Authorization Policies	60
7.4.2.12	Subscription to Changes	60
8	MCPTT configuration management documents	60
8.1	Introduction	60
8.2	MCPTT UE configuration document	60
8.2.1	General	60
8.2.1A	MCPTT client access to MCPTT UE configuration documents	61
8.2.2	Coding	61
8.2.2.1	Structure	61
8.2.2.2	Application Unique ID	62
8.2.2.3	XML Schema	62
8.2.2.4	Default Document Namespace	64
8.2.2.5	MIME type	64
8.2.2.6	Validation Constraints	65
8.2.2.7	Data Semantics	66

8.2.2.8	Naming Conventions.....	67
8.2.2.9	Global documents	67
8.2.2.10	Resource interdependencies	67
8.2.2.11	Authorization Policies.....	68
8.2.2.12	Subscription to Changes.....	68
8.3	MCPTT user profile configuration document	68
8.3.1	General.....	68
8.3.1A	MCPTT client access to MCPTT user profile documents	68
8.3.2	Coding	68
8.3.2.1	Structure.....	68
8.3.2.2	Application Unique ID.....	74
8.3.2.3	XML Schema	74
8.3.2.4	Default Document Namespace.....	80
8.3.2.5	MIME type.....	80
8.3.2.6	Validation Constraints.....	81
8.3.2.7	Data Semantics.....	81
8.3.2.8	Naming Conventions.....	102
8.3.2.9	Global documents	102
8.3.2.10	Resource interdependencies	102
8.3.2.11	Access Permissions Policies.....	102
8.3.2.12	Subscription to Changes.....	103
8.4	MCPTT service configuration document	103
8.4.1	General.....	103
8.4.2	Coding	103
8.4.2.1	Structure	103
8.4.2.2	Application Unique ID.....	106
8.4.2.3	XML Schema	106
8.4.2.4	Default Document Namespace.....	110
8.4.2.5	MIME type.....	110
8.4.2.6	Validation Constraints.....	110
8.4.2.7	Data Semantics.....	113
8.4.2.8	Naming Conventions.....	118
8.4.2.9	Global documents	118
8.4.2.10	Resource interdependencies	118
8.4.2.11	Authorization Policies.....	118
8.4.2.12	Subscription to Changes.....	118
9	MCVideo configuration management documents.....	118
9.1	Introduction	118
9.2	MCVideo UE configuration document.....	119
9.2.1	General.....	119
9.2.1A	MCVideo client access to MCVideo UE configuration documents.....	119
9.2.2	Coding	119
9.2.2.1	Structure.....	119
9.2.2.2	Application Unique ID.....	121
9.2.2.3	XML Schema	121
9.2.2.4	Default Document Namespace.....	123
9.2.2.5	MIME type.....	123
9.2.2.6	Validation Constraints.....	123
9.2.2.7	Data Semantics.....	124
9.2.2.8	Naming Conventions.....	126
9.2.2.9	Global documents	126
9.2.2.10	Resource interdependencies	126
9.2.2.11	Authorization Policies.....	126
9.2.2.12	Subscription to Changes.....	126
9.3	MCVideo user profile configuration document.....	126
9.3.1	General.....	126
9.3.1A	MCVideo client access to MCVideo user profile documents	127
9.3.2	Coding	127
9.3.2.1	Structure.....	127
9.3.2.2	Application Unique ID.....	132
9.3.2.3	XML Schema	132

9.3.2.4	Default Document Namespace.....	139
9.3.2.5	MIME type.....	139
9.3.2.6	Validation Constraints.....	139
9.3.2.7	Data Semantics.....	139
9.3.2.8	Naming Conventions.....	156
9.3.2.9	Global documents	156
9.3.2.10	Resource interdependencies	156
9.3.2.11	Access Permissions Policies.....	156
9.3.2.12	Subscription to Changes.....	156
9.4	MVideo service configuration document.....	157
9.4.1	General.....	157
9.4.2	Coding	157
9.4.2.1	Structure	157
9.4.2.2	Application Unique ID.....	158
9.4.2.3	XML Schema	158
9.4.2.4	Default Document Namespace.....	162
9.4.2.5	MIME type.....	162
9.4.2.6	Validation Constraints.....	162
9.4.2.7	Data Semantics.....	164
9.4.2.8	Naming Conventions.....	167
9.4.2.9	Global documents	167
9.4.2.10	Resource interdependencies	167
9.4.2.11	Authorization Policies.....	167
9.4.2.12	Subscription to Changes.....	167
10	MCDATA configuration management documents.....	167
10.1	Introduction	167
10.2	MCDATA UE configuration document.....	168
10.2.1	General.....	168
10.2.1A	MCDATA client access to MCDATA UE configuration documents.....	168
10.2.2	Coding	168
10.2.2.1	Structure	168
10.2.2.2	Application Unique ID.....	170
10.2.2.3	XML Schema	170
10.2.2.4	Default Document Namespace.....	173
10.2.2.5	MIME type.....	173
10.2.2.6	Validation Constraints.....	173
10.2.2.7	Data Semantics.....	175
10.2.2.8	Naming Conventions.....	177
10.2.2.9	Global documents	177
10.2.2.10	Resource interdependencies	177
10.2.2.11	Authorization Policies.....	177
10.2.2.12	Subscription to Changes.....	177
10.3	MCDATA user profile configuration document.....	177
10.3.1	General.....	177
10.3.1A	MCDATA client access to MCDATA user profile documents	178
10.3.2	Coding	178
10.3.2.1	Structure.....	178
10.3.2.2	Application Unique ID.....	183
10.3.2.3	XML Schema	183
10.3.2.4	Default Document Namespace.....	190
10.3.2.5	MIME type.....	190
10.3.2.6	Validation Constraints.....	190
10.3.2.7	Data Semantics.....	191
10.3.2.8	Naming Conventions.....	207
10.3.2.9	Global documents	207
10.3.2.10	Resource interdependencies	208
10.3.2.11	Access Permissions Policies.....	208
10.3.2.12	Subscription to Changes.....	208
10.4	MCDATA service configuration document.....	208
10.4.1	General.....	208
10.4.2	Coding	208

10.4.2.1	Structure	208
10.4.2.2	Application Unique ID	210
10.4.2.3	XML Schema	210
10.4.2.4	Default Document Namespace	213
10.4.2.5	MIME type	213
10.4.2.6	Validation Constraints	214
10.4.2.7	Data Semantics	216
10.4.2.8	Naming Conventions	218
10.4.2.9	Global documents	218
10.4.2.10	Resource interdependencies	218
10.4.2.11	Authorization Policies	219
10.4.2.12	Subscription to Changes	219
Annex A (informative): Signalling flows		220
A.1	Scope of signalling flows	220
A.2	Signalling flows for MCPTT user profile configuration document creation	220
A.2.1	CMC creating a MCPTT user profile configuration document on behalf of MCPTT user	220
A.2.2	CMC subscribing to and obtaining MCPTT configuration documents	225
A.2.3	MCPTT server subscribing to and obtaining MCPTT service configuration document	237
Annex B (informative): IANA registration templates		244
B.1	IANA registration templates for MIME types	244
B.1.1	application/vnd.3gpp.mcptt-ue-init-config+xml IANA registration template	244
B.1.2	application/vnd.3gpp.mcptt-ue-config+xml IANA registration template	245
B.1.3	application/vnd.3gpp.mcptt-user-profile+xml IANA registration template	247
B.1.4	application/vnd.3gpp.mcptt-service-config+xml IANA registration template	248
B.1.5	application/vnd.3gpp.mcdata-service-config+xml IANA registration template	250
B.1.6	application/vnd.3gpp.mcvideo-service-config+xml IANA registration template	251
B.1.7	application/vnd.3gpp.mcvideo-ue-config+xml IANA registration template	253
B.1.8	application/vnd.3gpp.mcvideo-user-profile+xml IANA registration template	255
B.1.9	application/vnd.3gpp.mcdata-ue-config+xml IANA registration template	256
B.1.10	application/vnd.3gpp.mcdata-user-profile+xml IANA registration template	258
B.1.11	Void	259
B.1.12	application/vnd.3gpp.mcs-location-user-config+xml IANA registration template	259
Annex C (normative): Configuration specific concepts for the support of mission critical services over 5GS		262
C.1	General	262
C.2	Aspects not applicable to 5GS	262
C.3	5GS specific aspects not applicable to EPS	262
C.4	Mapping of EPS-specific terms to 5GS	262
C.4.1	General	262
C.4.2	MC Service over 5G ProSe	262
Annex D (informative): Change history		263
History		268

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.

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.

Sample Document

get full document from standards.iteh.ai

1 Scope

The present document specifies the configuration management documents and protocols needed to support Mission critical service online configuration over the CSC-4 and CSC-5 reference points and the procedures to support Mission critical service offline configuration over the CSC-11 and CSC-12 reference points.

Mission critical services include:

- Mission Critical Push To Talk (MCPTT);
- Mission Critical Video (MCVideo); and
- Mission Critical Data (MCDData).

Configuration management documents defined in the present document includes:

- MCS UE initial configuration document;
- MCPTT UE configuration document;
- MCPTT user profile configuration document;
- MCPTT service configuration document;
- MCVideo UE configuration document;
- MCVideo user profile configuration document;
- MCVideo service configuration document;
- MCDData UE configuration document;
- MCDData user profile configuration document; and
- MCDData service configuration document.

Mission critical services are services that require preferential handling compared to normal telecommunication services, e.g. in support of police or fire brigade.

The Mission critical services can be used for public safety applications and also for general commercial applications (e.g., utility companies and railways).

The present document is applicable to an MCS UE supporting the configuration management client functionality, to application servers supporting the configuration management server functionality, and to application servers supporting the:

- MCPTT server functionality;
- MCVideo server functionality; or
- MCDData server functionality.

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] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] OMA OMA-TS-XDM_Core-V2_1-20120403-A: "XML Document Management (XDM) Specification".
- [3] 3GPP TS 22.179: "Mission Critical Push to Talk (MCPTT) over LTE; Stage 1".
- [4] 3GPP TS 24.483: "Mission Critical Services (MCS) Management Object (MO)".
- [5] 3GPP TS 24.481: "Mission Critical Services (MCS) group management Protocol specification".
- [6] 3GPP TS 24.482: "Mission Critical Services (MCS) identity management Protocol specification".
- [7] 3GPP TS 29.283: "Diameter Data Management Applications".
- [8] 3GPP TS 23.379: "Functional architecture and information flows to support mission critical push to talk (MCPTT); Stage 2".
- [8A] 3GPP TS 23.280: "Common functional architecture to support mission critical services; Stage 2".
- [9] 3GPP TS 24.379: "Mission Critical Push to Talk (MCPTT) call control Protocol specification".
- [10] 3GPP TS 24.380: "Mission Critical Push to Talk (MCPTT) media plane control Protocol specification".
- [11] IETF RFC 5875: "An Extensible Markup Language (XML) Configuration Access Protocol (XCAP) Diff Event Package".
- [12] 3GPP TS 24.333: "Proximity-services (ProSe) Management Objects (MO)".
- [13] IETF RFC 4745: "Common Policy: A Document Format for Expressing Privacy Preferences".
- [14] IETF RFC 4825: "The Extensible Markup Language (XML) Configuration Access Protocol (XCAP)".
- [15] Void.
- [16] 3GPP TS 23.003: "Numbering, addressing and identification".
- [17] OMA OMA-TS-XDM_Group-V1_1-20120403-A: "Group XDM Specification".
- [18] 3GPP TS 23.303: "Proximity-based Services (ProSe); Stage 2".
- [19] 3GPP TS 24.334: "Proximity-services (ProSe) User Equipment (UE) to ProSe function protocol aspects; Stage 3".
- [20] IETF RFC 8101 "IANA Registration of New Session Initiation Protocol (SIP) Resource-Priority Namespace for Mission Critical Push To Talk service".
- [21] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".
- [22] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [23] IETF RFC 6050: "A Session Initiation Protocol (SIP) Extension for the Identification of Services".
- [24] 3GPP TS 23.282: "Functional architecture and information flows to support Mission Critical Data (MCData); Stage 2";
- [25] 3GPP TS 24.282: "Mission Critical Data (MCData) signalling control Protocol specification".
- [26] 3GPP TS 24.582: "Mission Critical Data (MCData) media plane control Protocol specification".

- [27] 3GPP TS 23.281: "Functional architecture and information flows to support Mission Critical Video (MCVideo); Stage 2".
- [28] 3GPP TS 24.281: "Mission Critical Video (MCVideo) signalling control Protocol specification".
- [29] 3GPP TS 24.581: "Mission Critical Video (MCVideo) media plane control Protocol specification".
- [30] 3GPP TS 22.280: "Mission Critical Services Common Requirements (MCCoRe) Stage 1".
- [31] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".
- [32] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".
- [33] IETF RFC 3748: "Extensible Authentication Protocol (EAP)".
- [34] 3GPP TS 24.526: "UE policies for 5G System (5GS); Stage 3".
- [35] 3GPP TS 24.554: "Proximity-services (ProSe) in 5G System (5GS) protocol aspects; Stage 3".
- [36] 3GPP TS 23.304: "Proximity based Services (ProSe) in the 5G System (5GS)".
- [37] 3GPP TS 24.283: "Mission Critical Location Management (MCLoc); Protocol specification".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

MCS network: A network infrastructure that supports the MCS.

Offline Configuration: Configuration of the MCS UE without connectivity with any MCS network. Configuration of the MCS UE is achieved using some external device (e.g. a laptop) with some kind of IP connectivity with the MCS UE (e.g. over USB, WLAN, Bluetooth, etc).

Off-network operation: An MCS UE operating without connectivity to an MCS network (not even via a relay).

Online Configuration: Configuration of the MCS UE using the MCS network. Configuration of the MCS UE is achieved using the network connectivity with the MCS UE (e.g. over LTE).

On-network operation: An MCS UE operating with connectivity to an MCS network including when network connectivity is achieved via a relay.

For the purposes of the present document, the following terms and definitions given in OMA OMA-TS-XDM_Core-V2_1 [2] apply:

XDMC
XDMS

For the purposes of the present document, the following terms and definitions given in 3GPP TS 22.179 [3] apply:

MCPTT administrator
MCPTT UE
MCPTT User Profile
MCPTT service
Mission Critical Push To Talk

For the purpose of the present document, the following terms and definitions given in 3GPP TS 23.379 [8] apply:

Pre-selected MCPTT user profile

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5GS	5G System
APN	Access Point Name
AUID	Application Unique IDentity
CMC	Configuration Management Client
CMS	Configuration Management Server
DM	Device Management
DNN	Data Network Name
EAP	Extensible Authentication Protocol
EPS	Evolved Packet System
E-UTRAN	Evolved Universal Terrestrial Radio Access Network
FQDN	Fully Qualified Domain Name
GC	General Client
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure
IANA	Internet Assigned Numbers Authority
IETF	Internet Engineering Task Force
IMEI	International Mobile Equipment Identity
IP	Internet Protocol
MC	Mission Critical
MCPTT	Mission Critical Push To Talk
MCS	Mission Critical Service
MIME	Multi-Purpose Internet Mail Extensions
MO	Management Object
OMA	Open Mobile Alliance
PQI	PC5 5QI
ProSe	Proximity Services
RFC	Request For Comments
SIP	Session Initiation Protocol
SNR	Serial Number
S-NSSAI	Single Network Slice Selection Assistance Information
TAC	Type Allocation Code
UE	User Equipment
URI	Uniform Resource Identifier
URN	Uniform Resource Name
USB	Universal Serial Bus
WLAN	Wireless Local Area Network
XCAP	XML Configuration Access Protocol
XDM	XML Document Management
XDMC	XML Document Management Client
XDMS	XML Document Management Server
XML	eXtensible Markup Language
XUI	XCAP Unique Identifier

4 General

4.1 MCS service administrator configuration

4.1.1 Common configuration

An MCS service administrator can, using an MCS UE configure the: