**3GPP TSG-CT WG1 Meeting #146C1-240abc**

**Online, 22– 26 January 2024 (was C1-240255)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.481** | **CR** | **0070** | **rev** | **1** | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Support of Prose direct communication | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | CT1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCOver5GProSe | | | | |  | ***Date:*** | | | 2024-01-25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Further updates to the specification are needed:  (1) no reference to the TS 5G ProSe which is necessary for implementation;  (2) there is no abbreviation for PPPP and PQI; and  (3) Annex C is not correct as the description under Annex C does not provide the specification on 5G ProSe. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Updates to the specification regarding description of 5G ProSe. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Mission critical over 5G ProSe is not correctly described in the specification. This leads to undesirable effects as implementations may not support or implement correctly mission critical services over 5G ProSe. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 3.2, Annex C, (new) C.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

# 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] OMA OMA-TS-XDM\_Group-V1\_1\_1-20170124-A: "Group XDM Specification".

[4] 3GPP TS 23.179: "Functional architecture and information flows to support mission critical communication services".

[5] 3GPP TS 24.379: "Mission Critical Push To Talk (MCPTT) call control Protocol specification".

[6] IETF RFC 4745: "Common Policy: A Document Format for Expressing Privacy Preferences".

[7] 3GPP TS 24.334: "Proximity-services (ProSe) User Equipment (UE) to ProSe function protocol aspects; Stage 3".

[8] IETF RFC 1166: "Internet Numbers".

[9] IETF RFC 5952: "A Recommendation for IPv6 Address Text Representation".

[10] 3GPP TS 24.482: "Mission Critical Services (MCS) identity management; Protocol specification".

[11] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[12] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[13] IETF RFC 5875: "An Extensible Markup Language (XML) Configuration Access Protocol (XCAP) Diff Event Package".

[14] IETF RFC 6050: "A Session Initiation Protocol (SIP) Extension for the Identification of Services".

[15] Void.

[16] IETF RFC 3830: "MIKEY: Multimedia Internet KEYing".

[17] IETF RFC 6043: "MIKEY-TICKET: Ticket-Based Modes of Key Distribution in Multimedia Internet KEYing (MIKEY)".

[18] IETF RFC 6509: "MIKEY-SAKKE: Sakai-Kasahara Key Encryption in Multimedia Internet KEYing (MIKEY)".

[19] OMA OMA-SUP-XSD\_poc\_listService-V1\_0\_2: "PoC - List Service", version 1.0.2.

[20] IETF RFC 4566: "SDP: Session Description Protocol".

[21] Void.

[22] IETF RFC 4825: "The Extensible Markup Language (XML) Configuration Access Protocol (XCAP)".

[23] 3GPP TS 23.280: "Common functional architecture to support mission critical services; Stage 2".

[24] 3GPP TS 23.281: "Mission Critical Video (MCVideo); Stage 2".

[25] 3GPP TS 23.282: "Mission Critical Data (MCData); Stage 2".

[26] 3GPP TS 24.281: "Mission Critical Video (MCVideo) signalling control; Protocol specification".

[27] 3GPP TS 24.282: "Mission Critical Data (MCData) signalling control; Protocol specification".

[28] IETF RFC 4826: "Extensible Markup Language (XML) Formats for Representing Resource Lists".

[29] 3GPP TS 33.180: "Security of the mission critical service".

[30] 3GPP TS 23.379: "Functional architecture and information flows to support Mission Critical Push To Talk (MCPTT)".

[31] IETF RFC 9110: "HTTP Semantics".

[r24554] 3GPP TS 24.554: "Proximity-services (ProSe) in 5G System (5GS) protocol aspects; Stage 3".

\* \* \* Next Change \* \* \* \*

## 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].

GC General Client

GKTP Group Key Transport Payload

GMC Group Management Client

GMOP Group Management OPeration

GMS Group Management Server

HTTP HyperText Transfer Protocol

ICSI IMS Communication Service Identifier

ID IDentifier

IETF Internet Engineering Task Force

MCS Mission Critical Service

MCSs Mission Critical Services

MCPTT Mission Critical Push To Talk

MIME Multipurpose Internet Mail Extensions

OMA Open Mobile Alliance

PPPP ProSe Per-Packet Priority

PQI PC5 5QI

UE User Equipment

URI Uniform Resource Identifier

XDMC XML Document Management Client

XDMS XML Document Management Server

XML eXtensible Markup Language

\* \* \* Next Change \* \* \* \*

# Annex C (normative):

## C.1 Mapping of EPS-specific terms to 5GS

In 5GS ProSe, ProSe Per-Packet Priority (PPPP) is replaced by 5G ProSe PC5 5QI (PQI), the PQI related elements is equivalent of the PPPP related elements as specified in 3GPP TS 24.554 [r24554].

\* \* \* End of Changes \* \* \* \*