**3GPP TSG-CT WG1 Meeting #136-eC1-22xxxx**

**E-Meeting, 12th – 20th May 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **2** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](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** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | TS 23.289 states for Initial MC service UE configuration data  "- DNN and the corresponding DN credentials instead of the PDN credentials shall be used;  - Network slice identification and corresponding network slice credentials may be provided per MC service."  For NS and secondary DN AA, EAP is used specified in IETF RFC 3748 with the credentials to be used depending on the method to be used, see TS 24.501 stating  "The upper layers store the association between a DNN and corresponding credentials, if any, for the PDU session authentication and authorization."  A common aspect in all EAP-based authentication methods is the Identity Type which is used to query the identity of the peer.  This information can be part of the initial UE configuration on a per DN and NSSAI basis.  Additional needed info can be part of anyExt extenstions of EAP-credentials or in the corresponding UE (pre)configuration as per TS 23.289  "If Network Slice-Specific Authentication and Authorization is used, the Initial MC service UE configuration or UE (pre)configuration shall provide the corresponding credentials for the network slice identity (S-NSSAI)." | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1) Add the EAP Identity Type as credentials in initial UE configuration  2) Any additional EAP configuration needed can be part of anyExt extensions of EAP-credentials or to be retrieved from UE (pre)configuration  3)The anyExt element is removed from the structure description to avoid affecting the numbering of elements under DN-info.  4)Remove several unneeded minOccurs for anyExt elements | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | AA cannot be performed based on MC credentials. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 3.2, 7.2.2.1, 7.2.2.3, 7.2.2.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

1st 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] 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".

[x] IETF RFC 3748: "Extensible Authentication Protocol (EAP)".

2nd 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].

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

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

3rd change

#### 7.2.2.1 Structure

The MCS UE initial configuration document structure is specified in this clause.

The <mcptt-UE- initial-configuration> document:

1) shall include a "domain" attribute;

2) may include a <mcptt-UE-id> element;

3) may include a <name> element;

4) may include a <Default-user-profile> element;

5) may include an <on-network> element;

6) may include an <off-network> element; and

7) may include any other attribute for the purposes of extensibility.

The <Default-user-profile> element shall contain:

1) a "User-ID" attribute; and

2) a "user-profile-index" attribute.

The <on-network> element:

1) shall contain a <Timers> element containing:

a) a <T100> element;

b) a <T101> element;

c) a <T103> element;

d) a <T104> element;

e) a <T132> element; and

f) may include any other element for the purposes of extensibility;

2) shall contain an <HPLMN> element containing:

a) a "PLMN" attribute;

b) a <service> element;

c) a list of <VPLMN> elements; and

d) optionally an <anyExt> element containing a list of <SNSSAI> elements;

3) shall contain an <App-Server-Info> element containing:

a) an <idms-auth-endpoint> element;

b) an <idms-token-endpoint> element;

c) a <http-proxy> element;

d) a <gms> element;

e) a <cms> element;

f) a <kms> element; and

g) a <tls-tunnel-auth-method> element containing:

i) a <mutual-authentication> element;

ii) optionally a <x509> element; and

iii) optionally a <key> element; and

h) may include any other element for the purposes of extensibility

4) shall contain a <GMS-URI> element;

5) shall contain a <group-creation-XUI> element;

6) shall contain a <GMS-XCAP-root-URI> element;

7) shall contain a <CMS-XCAP-root-URI> element;

8) shall contain an <integrity-protection-enabled> element;

9) shall contain a <confidentiality-protection-enabled> element;

10) may contain an <anyExt> element containing:

a) if the MCPTT service is supported, an <MCPTT-Service-Details> element, containing:

i) one <IPv6-Required> element;

ii) one <Server-URI> element; and

iii) optionally an <anyExt> element with a <PDU-Session-Type> element;

b) if the MCVideo service is supported, an <MCVideo-Service-Details> element, containing:

i) one <IPv6-Required> element;

ii) one <Server-URI> element; and

iii) optionally an <anyExt> element with a <PDU-Session-Type> element;

c) if the MCData service is supported, an <MCData-Service-Details> element containing:

i) one <IPv6-Required> element;

ii) one <Server-URI> element; and

iii) optionally an <anyExt> element with a <PDU-Session-Type> element;

d) optionally an <MCCommonCore-Service-Details> element, containing:

i) one <IPv6-Required> element;

ii) one <Server-URI> element; and

iii) optionally an <anyExt> element with a <PDU-Session-Type> element;

e) optionally an <MCIdM-Service-Details> element containing:

i) one <IPv6-Required> element;

ii) one <Server-URI> element; and

iii) optionally an <anyExt> element with a <PDU-Session-Type> element;

f) optionally a list of <DN-Info> elements; and

11) may include any other element for the purposes of extensibility.

The <off-network> element:

1) shall contain a <Timers> element containing:

a) a <TFG1> element;

b) a <TFG2> element;

c) a <TFG3> element;

d) a <TFG4> element;

e) a <TFG5> element.

f) a <TFG11> element;

g) a <TFG12> element;

h) a <TFG13> element;

i) a <TFG14> element;

j) a <TFP1> element;

k) a <TFP2> element;

l) a <TFP3> element;

m) a <TFP4> element;

n) a <TFP5> element;

o) a <TFP6> element;

p) a <TFP7> element;

q) a <TFB1> element;

r) a <TFB2> element;

s) a <TFB3> element;

t) a <T201> element;

u) a <T203> element;

v) a <T204> element;

w) a <T205> element;

x) a <T230> element;

y) a <T233> element;

z) a <TFE1> element;

za) a <TFE2> element; and

zb) may include any other element for the purposes of extensibility;

2) shall contain a <Counters> element containing:

a) a <CFP1> element;

b) a <CFP3> element;

c) a <CFP4> element;

d) a <CFP6> element;

e) a <CFG11> element.

f) a <CFG12> element;

g) a <C201> element;

h) a <C204> element;

i) a <C205> element; and

j) may include any other element for the purposes of extensibility; and

3) may include any other element for the purposes of extensibility.

The <VPLMN> element:

1) shall contain a "PLMN" attribute;

2) shall contain a <service> element; and

3) may contain an <anyExt> element containing optionally a list of <SNSSAI> elements;

The <service> element of the <HPLMN> element and the <VPLMN> element:

1) shall contain an <MCPTT-to-con-ref> element;

2) shall contain an <MC-common-core-to-con-ref> element;

3) shall contain an <MC-ID-to-con-ref> element. and

4) may contain an <anyExt> element containing:

a) an <MCPTT-ref-SNSSAI> element;

b) an <MC-common-core-ref-SNSSAI> element;

c) an <MC-ID-ref-SNSSAI> element;

d) an <MCData-ref-SNSSAI> element; and

e) an <MCVideo-ref-SNSSAI> element;

The <mcptt-UE-id> element:

1) may contain a list of <Instance-ID-URN> elements; and

2) may contain a list of <IMEI-range> elements.

The <IMEI-range> element:

1) shall contain a <TAC> element;

2) may contain a list of <SNR> elements; and

3) may contain <SNR-range> element.

The <SNR-range> element:

1) shall contain a <Low-SNR> element; and

2) shall contain a <High-SNR> element.

The <DN-Info> element:

1) shall contain a "DNN" attribute;

2) may contain a <DN-AAA-Server> element;

3) may contain a <Pap-parameters> element containing:

i) a <user-name> element; and

ii) a <password> element;

4) may contain a <Chap-parameters> element containing:

i) a <user-name> element; and

ii) a <password> element; and

5) may contain a <credentials> element.

The <SNSSAI> element:

1) may contain a <required-indication> element;

2) shall contain an <SST> element;

3) may contain an <SD> element; and

4) may contain a <credentials> element.

The <credentials> element may contain an <ID> element and an <anyExt> element for the purposes of extensibility.

4th change

#### 7.2.2.3 XML Schema

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:mcpttiup="urn:3gpp:mcptt:mcpttUEinitConfig:1.0"

xmlns:xs="http://www.w3.org/2001/XMLSchema"

targetNamespace="urn:3gpp:mcptt:mcpttUEinitConfig:1.0"

elementFormDefault="qualified" attributeFormDefault="unqualified">

<xs:import namespace="http://www.w3.org/XML/1998/namespace"

schemaLocation="http://www.w3.org/2001/xml.xsd"/>

<xs:element name="mcptt-UE-initial-configuration">

<xs:complexType>

<xs:choice minOccurs="0" maxOccurs="unbounded">

<xs:element name="mcptt-UE-id" type="mcpttiup:MCPTTUEIDType"/>

<xs:element name="name" type="mcpttiup:NameType"/>

<xs:element name="Default-user-profile" type="mcpttiup:UserProfileType"/>

<xs:element name="on-network" type="mcpttiup:On-networkType"/>

<xs:element name="off-network" type="mcpttiup:Off-networkType"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType"/>

<xs:any namespace="##other" processContents="lax"/>

</xs:choice>

<xs:attribute name="domain" type="xs:anyURI" use="required"/>

<xs:attribute name="XUI-URI" type="xs:anyURI"/>

<xs:attribute name="Instance-ID-URN" type="xs:anyURI"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

</xs:element>

<xs:complexType name="NameType">

<xs:simpleContent>

<xs:extension base="xs:token">

<xs:attribute ref="xml:lang"/>

<xs:attributeGroup ref="mcpttiup:IndexType"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="MCPTTUEIDType">

<xs:choice minOccurs="0" maxOccurs="unbounded">

<xs:element name="Instance-ID-URN" type="xs:anyURI"/>

<xs:element name="IMEI-range" type="mcpttiup:IMEI-rangeType"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax"/>

</xs:choice>

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="IMEI-rangeType">

<xs:sequence>

<xs:element name="TAC" type="mcpttiup:tacType"/>

<xs:choice minOccurs="0" maxOccurs="unbounded">

<xs:element name="SNR" type="mcpttiup:snrType"/>

<xs:element name="SNR-range" type="mcpttiup:SNR-rangeType"/>

</xs:choice>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="SNR-rangeType">

<xs:sequence>

<xs:element name="Low-SNR" type="mcpttiup:snrType"/>

<xs:element name="High-SNR" type="mcpttiup:snrType"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:simpleType name="tac-baseType">

<xs:restriction base="xs:decimal">

<xs:totalDigits value="8"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tacType">

<xs:simpleContent>

<xs:extension base="mcpttiup:tac-baseType">

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:simpleType name="snr-baseType">

<xs:restriction base="xs:decimal">

<xs:totalDigits value="6"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="snrType">

<xs:simpleContent>

<xs:extension base="mcpttiup:snr-baseType">

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="UserProfileType">

<xs:attribute name="User-ID" type="xs:anyURI" use="required"/>

<xs:attribute name="user-profile-index" type="xs:unsignedByte" use="required"/>

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="VPLMNType">

<xs:sequence>

<xs:element name="service" type="mcpttiup:ServiceType"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

<xs:attribute name="PLMN" type="xs:string" use="required"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="ServiceType">

<xs:sequence>

<xs:element name="MCPTT-to-con-ref" type="xs:string"/>

<xs:element name="MC-common-core-to-con-ref" type="xs:string"/>

<xs:element name="MC-ID-to-con-ref" type="xs:string"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

<!-- These elements can be added under the anyExt element of the ServiceType element -->

<xs:element name="MCPTT-ref-SNSSAI" type="xs:string"/>

<xs:element name="MCData-ref-SNSSAI" type="xs:string"/>

<xs:element name="MCVideo-ref-SNSSAI" type="xs:string"/>

<xs:element name="MC-common-core-ref-SNSSAI" type="xs:string"/>

<xs:element name="MC-ID-ref-SNSSAI" type="xs:string"/>

<xs:complexType name="AuthMethodType">

<xs:sequence>

<xs:element name="mutual-authentication" type="xs:boolean"/>

<xs:element name="x509" type="xs:string" minOccurs="0"/>

<xs:element name="key" type="xs:string" minOccurs="0"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="On-networkType">

<xs:sequence>

<xs:element name="Timers">

<xs:complexType>

<xs:sequence>

<xs:element name="T100" type="xs:unsignedByte"/>

<xs:element name="T101" type="xs:unsignedByte"/>

<xs:element name="T103" type="xs:unsignedByte"/>

<xs:element name="T104" type="xs:unsignedByte"/>

<xs:element name="T132" type="xs:unsignedByte"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="HPLMN">

<xs:complexType>

<xs:sequence>

<xs:element name="service" type="mcpttiup:ServiceType"/>

<xs:element name="VPLMN" type="mcpttiup:VPLMNType" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

<xs:attribute name="PLMN" type="xs:string" use="required"/>

</xs:complexType>

</xs:element>

<xs:element name="App-Server-Info">

<xs:complexType>

<xs:sequence>

<xs:element name="idms-auth-endpoint" type="xs:anyURI"/>

<xs:element name="idms-token-endpoint" type="xs:anyURI"/>

<xs:element name="http-proxy" type="xs:anyURI"/>

<xs:element name="gms" type="xs:anyURI"/>

<xs:element name="cms" type="xs:anyURI"/>

<xs:element name="kms" type="xs:anyURI"/>

<xs:element name="tls-tunnel-auth-method" type="mcpttiup:AuthMethodType"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="GMS-URI" type="xs:anyURI"/>

<xs:element name="group-creation-XUI" type="xs:anyURI"/>

<xs:element name="GMS-XCAP-root-URI" type="xs:anyURI"/>

<xs:element name="CMS-XCAP-root-URI" type="xs:anyURI"/>

<xs:element name="integrity-protection-enabled" type="xs:boolean"/>

<xs:element name="confidentiality-protection-enabled" type="xs:boolean"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<!-- These elements can be added under the anyExt element of the On-networkType element -->

<xs:element name="MCPTT-Service-Details" type="mcpttiup:Service-DetailsType"/>

<xs:element name="MCVideo-Service-Details" type="mcpttiup:Service-DetailsType"/>

<xs:element name="MCData-Service-Details" type="mcpttiup:Service-DetailsType"/>

<xs:element name="MCCommonCore-Service-Details" type="mcpttiup:Service-DetailsType"/>

<xs:element name="MCIdM-Service-Details" type="mcpttiup:Service-DetailsType"/>

<!-- These elements can be added under the anyExt element of a PLMN or of a service -->

<xs:element name="SNSSAI" type="mcpttiup:snssaiType"/>

<xs:complexType name="snssaiType">

<xs:sequence>

<xs:element name="default-indication" type="xs:boolean" minOccurs="0"/>

<xs:element name="SST" type="xs:unsignedByte"/>

<xs:element name="SD" type="mcpttiup:int3BytesType" minOccurs="0"/>

<xs:element name="credentials" type="mcpttiup:credentialsType" minOccurs="0"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

<xs:simpleType name="int3BytesType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="16777215"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="Service-DetailsType">

<xs:sequence>

<xs:element name="IPv6-Required" type="xs:boolean"/>

<xs:element name="Server-URI" type="xs:anyURI"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

<!-- These elements can be added under the anyExt element of the \*-Service-Details element -->

<xs:simpleType name="PDUSessionType">

<xs:restriction base="xs:string">

<xs:enumeration value="IPv4"/>

<xs:enumeration value="IPv6"/>

<xs:enumeration value="IPv4v6"/>

<xs:enumeration value="Ethernet"/>

<xs:enumeration value="Unstructured"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="Off-networkType">

<xs:sequence>

<xs:element name="Timers">

<xs:complexType>

<xs:sequence>

<xs:element name="TFG1" type="xs:unsignedShort"/>

<xs:element name="TFG2" type="xs:unsignedShort"/>

<xs:element name="TFG3" type="xs:unsignedShort"/>

<xs:element name="TFG4" type="xs:unsignedByte"/>

<xs:element name="TFG5" type="xs:unsignedByte"/>

<xs:element name="TFG11" type="xs:unsignedShort"/>

<xs:element name="TFG12" type="xs:unsignedShort"/>

<xs:element name="TFG13" type="xs:unsignedByte"/>

<xs:element name="TFG14" type="xs:unsignedByte"/>

<xs:element name="TFP1" type="xs:unsignedShort"/>

<xs:element name="TFP2" type="xs:unsignedByte"/>

<xs:element name="TFP3" type="xs:unsignedShort"/>

<xs:element name="TFP4" type="xs:unsignedShort"/>

<xs:element name="TFP5" type="xs:unsignedShort"/>

<xs:element name="TFP6" type="xs:unsignedShort"/>

<xs:element name="TFP7" type="xs:unsignedByte"/>

<xs:element name="TFB1" type="xs:unsignedShort"/>

<xs:element name="TFB2" type="xs:unsignedByte"/>

<xs:element name="TFB3" type="xs:unsignedByte"/>

<xs:element name="T201" type="xs:unsignedShort"/>

<xs:element name="T203" type="xs:unsignedByte"/>

<xs:element name="T204" type="xs:unsignedByte"/>

<xs:element name="T205" type="xs:unsignedByte"/>

<xs:element name="T230" type="xs:unsignedByte"/>

<xs:element name="T233" type="xs:unsignedByte"/>

<xs:element name="TFE1" type="xs:unsignedShort"/>

<xs:element name="TFE2" type="xs:unsignedByte"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="Counters">

<xs:complexType>

<xs:sequence>

<xs:element name="CFP1" type="xs:unsignedByte"/>

<xs:element name="CFP3" type="xs:unsignedByte"/>

<xs:element name="CFP4" type="xs:unsignedByte"/>

<xs:element name="CFP6" type="xs:unsignedByte"/>

<xs:element name="CFG11" type="xs:unsignedByte"/>

<xs:element name="CFG12" type="xs:unsignedByte"/>

<xs:element name="C201" type="xs:unsignedByte"/>

<xs:element name="C204" type="xs:unsignedByte"/>

<xs:element name="C205" type="xs:unsignedByte"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

<xs:attributeGroup ref="mcpttiup:IndexType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:attributeGroup name="IndexType">

<xs:attribute name="index" type="xs:token"/>

</xs:attributeGroup>

<xs:complexType name="DN-InfoType">

<xs:sequence>

<xs:element name="DN-AAA-Server" type="xs:anyURI" minOccurs="0"/>

<xs:element name="credentials" type="mcpttiup:credentialsType" minOccurs="0"/>

<xs:element name="Pap-parameters" minOccurs="0">

<xs:complexType>

<xs:sequence>

<xs:element name="user-name" type="xs:string"/>

<xs:element name="password" type="xs:string"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="Chap-parameters" minOccurs="0">

<xs:complexType>

<xs:sequence>

<xs:element name="user-name" type="xs:string"/>

<xs:element name="password" type="xs:string"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

<xs:attribute name="DNN" type="xs:string" use="required"/>

</xs:complexType>

<xs:complexType name="credentialsType">

<xs:sequence>

<xs:element name="ID" type="xs:string" minOccurs="0"/>

<xs:element name="anyExt" type="mcpttiup:anyExtType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="anyExtType">

<xs:sequence>

<xs:any namespace="##any" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

</xs:schema>

5th change

#### 7.2.2.7 Data Semantics

The "domain" attribute of the <mcptt-UE-initial-configuration> element contains the domain name of the mission critical organization.

The creator of the MCS UE initial configuration document may include an <mcptt-UE-id> element in the version of the MCS UE initial configuration document that is uploaded to the CMS and may also appear in the MCS UE initial configuration document when downloaded by the MCS administrator. The <mcptt-UE-id> element does not appear in the MCS UE initial configuration managed object specified in 3GPP TS 24.483 [4] that is configured to the MCS UE. If an <mcptt-UE-id> element is included then the MCS UE initial configuration document and corresponding MCS UE initial configuration management object applies only to the MCS UE(s) identified by the <mcptt-UE-id> element. If no <mcptt-UE-id> element is included then the MCS UE initial configuration document and corresponding MCS UE initial configuration management object applies to all the MCS UEs of the domain.

If one or more optional <Instance-ID-URN> elements is included in the <mcptt-UE-id> element then the MCS UE initial configuration document applies to the MCS UE with an instance ID equal to the instance ID contained in the <Instance-ID-URN> element.

The <TAC> element of the <IMEI-range> element contains the Type Allocation Code of the MCS UE.

The optional <SNR> element of the <IMEI-range> element contains the individual serial number uniquely identifying MCS UE within the Type Allocation Code contained in the <TAC> element that the MCS UE initial configuration document applies to.

If an optional <SNR-range> element is included within the <IMEI-range> element then the MCS UE initial configuration document applies to all MCS UEs within the Type Allocation Code contained in the <TAC> element with the serial number equal or greater than the serial number contained in the <Low-SNR> element and less than or equal to the serial number contained in the <High-SNR> element.

If no <SNR> element nor <SNR-range> element is included within the <IMEI-range> element then the MCS UE initial configuration document applies to all the MCS UE(s) with the Type Allocation Code contained within the <TAC> element of the <IMEI-range> element.

If no <mcptt-UE-id> element is included then the MCS UE initial configuration document applies to all MCS UEs of the mission critical organization identified in the "domain" attribute.

The <name> element of the <mcptt-UE-initial-configuration> element contains the user displayable name of the MCS UE initial configuration document and corresponds to the "Name" element of clause 8.2.3 in 3GPP TS 24.483 [4].

The "User-ID" attribute of the <Default-user-profile> element contains the XUI contained in the "XUI-URI" attribute of the MCPTT user profile that is intended to be used as default MCS user profile and corresponds to the "UserID" element of clause 8.2.6 in 3GPP TS 24.483 [4].

The "user-profile-index" attribute of the <Default-user-profile> element contains an indicator for a particular MCS user profile document when multiple MCS user profiles are defined for that MCS user and is of type "unsignedByte" and matches a value in a "user-profile-index" attribute of the MCS user profile that is intended to be used as default MCS user profile, and corresponds to the "UserProfileIndex" element of clause 8.2.7 in 3GPP TS 24.483 [4].

The optional <SNSSAI> element of the <anyExt> element in the <HPLMN> element, or in a <VPLMN> element, of the <on-network> element indicates the S-NSSAI to be requested and used in the PLMN. The optional <required-indication> element when set to "true" indicates that the S-NSSAI is a necessary one for MC services and shall be requested by the UE. If set to "false" or not included, the S-NSSAI is not a required one, and the default URSP rule can be used instead.

The <MCPTT-to-con-ref>, <MC-common-core-to-con-ref> and <MC-ID-to-con-ref> elements of the <service> element in the <HPLMN> element of the <on-network> element indicate the APN/DNN to be used in the PLMN for the respective service and correspond to the "ConRef" elements of clauses 8.2.21, 8.2.24 and 8.2.27 in 3GPP TS 24.483 [4], respectively. For a <VPLMN> element the corresponding elements are specified in clauses 8.2.33, 8.2.36 and 8.2.39 in 3GPP TS 24.483 [4], respectively.

The optional <MCPTT-ref-SNSSAI>, <MCData-ref-SNSSAI>, <MCVideo-ref-SNSSAI>, <MC-common-core-ref-SNSSAI> and <MC-ID-ref-SNSSAI> elements of the <anyExt> element in the <service> element in the <HPLMN> element, or in a <VPLMN> element, of the <on-network> element indicate the S-NSSAI to be used in the PLMN for the respective service.

The <ID> element of the <credentials> element contains the EAP Identity as specified in IETF RFC 3748 [x] to be used for secondary or network slice-specific authentication/authorization when it appears within a <DN-Info> element or an <SNSSAI> element, respectively.

The <on-network> element contains MCS UE initial configuration data for on-network operation only.

The <off-network> element contains MCS UE initial configuration data for off-network operation only.

In the <on-network> element:

1) the <Timers> element;

a) the <T100> element contains the timer value in seconds for floor release as specified in 3GPP TS 24.380 [10] and corresponds to the "T100" element of clause 8.2.11 in 3GPP TS 24.483 [4];

b) the <T101> element contains the timer value in seconds for floor request as specified in 3GPP TS 24.380 [10] and corresponds to the "T101" element of clause 8.2.12 in 3GPP TS 24.483 [4];

c) the <T103> element contains the timer value in seconds for end of RTP media as specified in 3GPP TS 24.380 [10] and corresponds to the "T103" element of clause 8.2.13 in 3GPP TS 24.483 [4];

d) the <T104> element contains the timer value in seconds for floor queue position request as specified in 3GPP TS 24.380 [10] and corresponds to the "T104" element of clause 8.2.14 in 3GPP TS 24.483 [4]; and

e) the <T132> element contains the timer value in seconds for queued request granted MCPTT user action as specified in 3GPP TS 24.380 [10] and corresponds to the "T132" element of clause 8.2.15 in 3GPP TS 24.483 [4].

2) the "PLMN" attribute of the <HPLMN> element contains the PLMN code of the HPLMN as defined in 3GPP TS 23.003 [16] and corresponds to the "PLMN" element of clause 8.2.18 in 3GPP TS 24.483 [4];

3) the "PLMN" attribute of the <VPLMN> element contains the PLMN code of a VPLMN as defined in 3GPP TS 23.003 [16] and corresponds to the "PLMN element of clause 8.2.30 in 3GPP TS 24.483 [4];

4) the <App-Server-Info> element:

a) the <idms-auth-endpoint> element contains the URI used to contact the identity management server and corresponds to the "IDMSAuthEndpoint" element of clause 8.2.41 in 3GPP TS 24.483 [4];

b) the <idms-token-endpoint> element contains the URI used to contact the identity management server and corresponds to the "IDMSTokenEndpoint" element of clause 8.2.41A in 3GPP TS 24.483 [4];

c) the <http-proxy> element contains the URI used to contact the HTTP proxy and corresponds to the "HTTPProxy" element of clause 8.2.41B in 3GPP TS 24.383 [4];

d) the <gms> element contains the URI used to contact the group management server and corresponds to the "GMS" element of clause 8.2.42 in 3GPP TS 24.483 [4];

e) the <cms> element contains the URI used to contact the configuration management server and corresponds to the "CMS" element of clause 8.2.43 in 3GPP TS 24.483 [4];

f) the <kms> element contains the URI used to contact the key management server and corresponds to the "KMS" element of clause 8.2.44 in 3GPP TS 24.483 [4]; and

g) the <tls-tunnel-auth-method> element that contains the<mutual-authentication-element> that corresponds to the "Mutual" element of clause 8.2.44B in 3GPP TS 24.383 [4] and when set to "true" indicates that mutual authentication is used for the TLS tunnel authentication. The <x509> element when present contains the X.509 certificate for mutual authentication for the TLS tunnel authentication and corresponds to the "X509" element of clause 8.2.44C in 3GPP TS 24.383 [4]. The <key> element when present contains the pre-shared key for mutual authentication for the TLS tunnel authentication and corresponds to the "X509" element of clause 8.2.44D in 3GPP TS 24.383 [4].

5) the <GMS-URI> element contains the group management service URI information to enable hiding of MCS identities, the group management service URI information contains the public service identity for performing subscription proxy function of the GMS and corresponds to the "GMSURI" element of clause 8.2.9 in 3GPP TS 24.483 [4];

6) the <group-creation-XUI> element contains the group management server XCAP Root URI information and corresponds to the "GroupCreationXUI" element of clause 8.2.9A in 3GPP TS 24.483 [4];

7) the <GMS-XCAP-root-URI> element contains the group management server XCAP Root URI and corresponds to the "GMSXCAPRootURI" element of clause 8.2.9B in 3GPP TS 24.483 [4];

8) the < CMS-XCAP-root-URI> element contains the configuration management server XCAP Root URI and corresponds to the "CMSXCAPRootURI" element of clause 8.2.9C in 3GPP TS 24.483 [4];

9) the <IPv6-Required> element of the <MCPTT-Service-Details> element of the <anyExt> element of the <on-network> element indicates whether IPv6 shall be used to access the MCPTT service.

10) the <Server-URI> element of the < MCPTT-Service-Details> element of the <anyExt> element of the <on-network> element contains the URI used to contact the MCPTT service server;

11) the <IPv6-Required> element of the <MCVideo-Service-Details> element of the <anyExt> element of the <on-network> element indicates whether IPv6 shall be used to access the MCVideo service.

12) the <Server-URI> element of the <MCVideo-Service-Details> element of the <anyExt> element of the <on-network> element contains the URI used to contact the MCVideo service server;

13) the <IPv6-Required> element of the <MCData-Service-Details> element of the <anyExt> element of the <on-network> element indicates whether IPv6 shall be used to access the MCData service.

14) the <Server-URI> element of the <MCData-Service-Details> element of the <anyExt> element of the <on-network> element contains the URI used to contact the MCData service server;

15) the <integrity-protection-enabled> element indicates whether integrity protection is enabled and corresponds to the "IntegrityProtection" element of clause 8.2.44E in 3GPP TS 24.383 [4];

16) the <confidentiality-protection-enabled> element indicates whether integrity protection is enabled and corresponds to the "ConfidentialityProtection" element of clause 8.2.44F in 3GPP TS 24.383 [4];

17) the <DN-Info> element of the <anyExt> element contains the information related to the DNN/APN name included in the "DNN" attribute, i.e.,:

a) the <DN-AAA-Server> element contains the URI to be used for authentication/authorization; and

b) may contain a PAP user name and a PAP password in the <user-name> and <password> elements of the <Pap-parameters> element and may contain a CHAP user name and a CHAP password in the <user-name> and <password> elements of the <Chap-parameters> element;

In the <off-network> element:

1) the <Timers> element:

a) the <TFG1> element contains the timer value in milliseconds for wait for call announcement as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG1" element of clause 8.2.47 in 3GPP TS 24.483 [4];

b) the <TFG2> element contains the timer value in milliseconds for call announcement as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG2" element of clause 8.2.48 in 3GPP TS 24.483 [4];

c) the <TFG3> element contains the timer value in milliseconds for call probe retransmission as specified in 3GPP TS 24.379 [9]; and corresponds to the "TFG3" element of clause 8.2.49 in 3GPP TS 24.483 [4]

d) the <TFG4> element contains the timer value in seconds for waiting for the MCPTT user as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG4" element of clause 8.2.50 in 3GPP TS 24.483 [4];

e) the <TFG5> element contains the timer value in seconds for not present incoming call announcements as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG5" element of clause 8.2.51 in 3GPP TS 24.483 [4];

f) the <TFG11> element contains the timer value in milliseconds for MCPTT emergency end retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG11" element of clause 8.2.52 in 3GPP TS 24.483 [4];

g) the <TFG12> element contains the timer value in milliseconds for MCPTT imminent peril end retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG12" element of clause 8.2.53 in 3GPP TS 24.483 [4];

h) the <TFG13> element contains the timer value in seconds for timer for implicit priority downgrade (emergency) as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG13" element of clause 8.2.54 in 3GPP TS 24.483 [4];

i) the <TFG14> element contains the timer value in seconds for timer for implicit priority downgrade (imminent peril) as specified in 3GPP TS 24.379 [9] and corresponds to the "TFG14" element of clause 8.2.54A in 3GPP TS 24.483 [4];

j) the <TFP1> element contains the timer value in milliseconds for private call request retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "TFP1" element of clause 8.2.55 in 3GPP TS 24.483 [4];

k) the <TFP2> element contains the timer value in seconds for waiting for call response message as specified in 3GPP TS 24.379 [9] and corresponds to the "TFP2" element of clause 8.2.56 in 3GPP TS 24.483 [4];

l) the <TFP3> element contains the timer value in milliseconds for private call release retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "TFP3" element of clause 8.2.57 in 3GPP TS 24.483 [4];

m) the <TFP4> element contains the timer value in milliseconds for private call accept retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "TFP4" element of clause 8.2.58 in 3GPP TS 24.483 [4];

n) the <TFP5> element contains the timer value in seconds for call release as specified in 3GPP TS 24.379 [9] and corresponds to the "TFP5" element of clause 8.2.59 in 3GPP TS 24.483 [4];

o) the <TFP6> element contains the timer value in milliseconds for MCPTT emergency private call cancel retransmission as specified as specified in 3GPP TS 24.379 [9] and corresponds to the "TFP6" element of clause 8.2.60 in 3GPP TS 24.483 [4];

p) the <TFP7> element contains the timer value in seconds for waiting for any message with same call identifier as specified in 3GPP TS 24.379 [9] and corresponds to the "TFP7" element of clause 8.2.61 in 3GPP TS 24.483 [4];

q) the <TFB1> element contains the timer value in seconds for max duration as specified in 3GPP TS 24.379 [9] and corresponds to the "TFB1" element of clause 8.2.62 in 3GPP TS 24.483 [4];

r) the <TFB2> element contains the timer value in seconds for broadcast retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "TFB2" element of clause 8.2.63 in 3GPP TS 24.483 [4];

s) the <TFB3> element contains the timer value in seconds for waiting for the MCPTT user as specified in 3GPP TS 24.379 [9] and corresponds to the "TFB3" element of clause 8.2.64 in 3GPP TS 24.483 [4];

t) the <T201> element contains the timer value in milliseconds for floor request as specified in 3GPP TS 24.380 [10] and corresponds to the "T201" element of clause 8.2.65 in 3GPP TS 24.483 [4];

u) the <T203> element contains the timer value in seconds for end of RTP media as specified in 3GPP TS 24.380 [10] and corresponds to the "T203" element of clause 8.2.66 in 3GPP TS 24.483 [4];

v) the <T204> element contains the timer value in seconds for floor queue position request as specified in 3GPP TS 24.380 [10] and corresponds to the "T204" element of clause 8.2.67 in 3GPP TS 24.483 [4];

w) the <T205> element contains the timer value in seconds for floor granted request as specified in 3GPP TS 24.380 [10] and corresponds to the "T205" element of clause 8.2.68 in 3GPP TS 24.483 [4];

x) the <T230> element contains the timer value in seconds for during silence as specified in 3GPP TS 24.380 [10] and corresponds to the "T230" element of clause 8.2.69 in 3GPP TS 24.483 [4];

y) the <T233> element contains the timer value in seconds for pending user action as specified in 3GPP TS 24.380 [10] and corresponds to the "T233" element of clause 8.2.70 in 3GPP TS 24.483 [4];

z) the <TFE1> element contains the timer value in seconds for MCPTT emergency alert as specified in 3GPP TS 24.380 [10] and corresponds to the "TFE1" element of clause 8.2.71 in 3GPP TS 24.483 [4]; and

za) the <TFE2> element contains the timer value in seconds for MCPTT emergency alert retransmission as specified in 3GPP TS 24.380 [10] and corresponds to the "TFE2" element of clause 8.2.72 in 3GPP TS 24.483 [4]; and

2) the <Counters> element.

a) the <CFP1> element contains the counter value for private call request retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "CFP1" element of clause 8.2.74 in 3GPP TS 24.483 [4];

b) the <CFP3> element contains the counter value for private call release retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "CFP3" element of clause 8.2.75 in 3GPP TS 24.483 [4];

c) the <CFP4> element contains the counter value for private call accept retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "CFP4" element of clause 8.2.76 in 3GPP TS 24.483 [4];

d) the <CFP6> element contains the counter value for private call accept retransmission t as specified in 3GPP TS 24.379 [9] and corresponds to the "CFP6" element of clause 8.2.77 in 3GPP TS 24.483 [4];

e) the <CFP11> element contains the counter value for MCPTT group call emergency end retransmission ia as specified in 3GPP TS 24.379 [9] and corresponds to the "CFP11" element of clause 8.2.78 in 3GPP TS 24.483 [4];

f) the <CFP12> element contains the counter value for MCPTT imminent peril call emergency end retransmission as specified in 3GPP TS 24.379 [9] and corresponds to the "CFP12" element of clause 8.2.79 in 3GPP TS 24.483 [4];

g) the <C201> element contains the counter value for floor request as specified in 3GPP TS 24.380 [10] and corresponds to the "C201" element of clause 8.2.80 in 3GPP TS 24.483 [4];

h) the <C204> element contains the counter value for floor queue position request as specified in 3GPP TS 24.380 [10] and corresponds to the "C204" element of clause 8.2.81 in 3GPP TS 24.483 [4]; and

i) the <C205> element contains the counter valuefor floor granted request as specified in 3GPP TS 24.380 [10] and corresponds to the "C205" element of clause 8.2.82 in 3GPP TS 24.483 [4].

End of changes