**3GPP TSG-SA WG6 Meeting #64S6-245352**

**Orlando (FL), USA, 18th – 22nd November 2024 (revision of S6-245032)**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.280** | **CR** | **0585** | **rev** | **3** | **Current version:** | **19.4.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Airbus | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | enhMC | | | | |  | ***Date:*** | | | 2024-11-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | New UE types “Recording admin UE” and “Replay UE” need initial configurations to be able to access MC system. Furthermore, a default recording server address is needed in the initial MC service UE data. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Added new category “Initial recording admin and replay UE configuration data” to A.1. Added “Recording server address” to A.6. Added new annex A.X for “Initial recording admin and replay UE configuration data”. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Specifications for “Recording admin UE” and “Replay UE” lack essential details | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.1, A.6, A.X (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 23.280 CR 587,611  TS 23.379 CR 437,  TS 23.281 CR229,  TS 23.282 CR367 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | The new clause A.X is referenced in the related CRs that are listed above. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev2: added “see subclause 10.18.1.2 and 10.18.1.3” into A.X. Added CR611 to the “Other specs” list (cover page).  Rev3: small wordsmithing in A.1, A.X title, text and table header (“recording admin UE and/or replay UE”) | | | | | | | | |

\* \* \* \* First change \* \* \* \*

# A.1 General

This Annex provides information about the static data needed for configuration for MC services, which belong to one of the following categories:

- MC service UE configuration data (see subclause A.2);

- MC service user profile data (see subclause A.3);

- MC service group configuration data (see subclause A.4);

- MC service configuration data (see subclause A.5); and

- Initial MC service UE configuration data (see subclause A.6).

- Initial recording admin UE and/or replay UE configuration data (see subclause A.X).

For each configuration category, data is split between configuration data that is applicable to both on‑network and off‑network, configuration data that is applicable to on-network only, and configuration data that is applicable to off-network only. The configuration data in each configuration category corresponds to a single instance of the category type i.e. the MC service UE, MC service group, MC service user and MC service configuration data refers to the information that will be stored against each MC service UE, MC service group, MC service user and MC service. This means that the three separate tables (on-network and off-network, on-network only, off-network only) for each configuration category represent the complete set of data for each configuration data category element.

The columns in the tables have the following meanings:

- Reference: the reference of the corresponding requirement in 3GPP TS 22.280 [3] or 3GPP TS 22.281 [4] or 3GPP TS 22.282 [5] or 3GPP TS 22.179 [2] or the corresponding subclause from the present document.

- Parameter description: A short definition of the semantics of the corresponding item of data, including denotation of the level of the parameter in the configuration hierarchy.

- When it is not clear to which functional entities the parameter is configured, then one or more columns indicating this are provided where the following nomenclature is used:

- "Y" to denote "Yes" i.e. the parameter denoted for the row needs to be configured to the functional entity denoted for the column.

- "N" to denote "No" i.e. the parameter denoted for the row does not need to be configured to the functional entity denoted for the column.

Parameters within a set of configuration data have a level within a hierarchy that pertains only to that configuration data. The hierarchy of the configuration data is common across all the three tables of on-network and off‑network, on‑network only and off‑network only. The level of a parameter within the hierarchy of the configuration data is denoted by use of the character ">" in the parameter description field within each table, one per level. Parameters that are at the top‑most level within the hierarchy have no ">" character. Parameters that have one or more ">" characters are child parameters of the first parameter above them that has one less ">" character. Parent parameters are parameters that have one or more child parameters. Parent parameters act solely as a "grouping" of their child parameters and therefore do not contain an actual value themselves i.e. they are just containers for their child parameters.

Each parameter that can be configured online shall only be configured through one online reference point. Each parameter that can be configured offline shall only be configured through one offline reference point. The most recent configuration data made available to the MC service UE shall always overwrite previous configuration data, irrespective of whether the configuration data was provided via the online or offline mechanism.

\* \* \* \* Second change \* \* \* \*

# A.6 Initial MC service UE configuration data

The initial MC service UE configuration data is essential to the MC service UE to successfully connect to the MC system. The initial MC service UE configuration data can be the same or different across MC service UEs.

Data in table A.6-1 is provided to the MC service UE’s clients (e.g. MC service client, group management client, configuration management client, identity management client, key management client, replay client) during the bootstrap process (see subclause 10.1.1), and can be configured on the MC service UE offline using the CSC-11 reference point or via other means e.g. as part of the MCPTT client’s provisioning on the UE, using a device management procedure.

Table A.6-1: Initial MC service UE configuration data (on-network)

|  |  |
| --- | --- |
| Reference | Parameter description |
| Subclause 10.1.1 | PDN connectivity information |
|  | > HPLMN ID and optionally VPLMN ID to which the data pertains |
|  | > MC services PDN |
|  | >> APN |
|  | >> PDN access credentials |
|  | > MC common core services PDN |
|  | >> APN |
|  | >> PDN access credentials |
|  | > MC identity management service PDN |
|  | >> APN |
|  | >> PDN access credentials |
| Subclause 10.1.1 | Application plane server identity information |
|  | > Identity management server |
|  | >> Server URI |
|  | > Configuration management server |
|  | >> Server URI |
|  | > Key management server |
|  | >> Server URI (also known as KMSUri for security domain managed by KMS) |
|  | > Indication of whether the UE shall use Ipv4 or Ipv6 for on-network MCPTT |
|  | > MCPTT Server |
|  | >> Server URI |
|  | > Indication of whether the UE shall use Ipv4 or Ipv6 for on-network MCData |
|  | > MCData Server |
|  | >> Server URI |
|  | > Indication of whether the UE shall use Ipv4 or Ipv6 for on-network MCVideo |
|  | > MCVideo Server |
|  | >> Server URI |
|  | > Location management server |
|  | >> Server URI |
|  | > Recording server (NOTE 1) |
|  | >> Server URI |
| Subclause 10.1.1 | Operational information |
|  | > MC service UE label (see NOTE 2) |
| NOTE 1: This parameter shall be present only if this MC service UE contains a replay client.  NOTE 2: The MC service UE label is optional. | |

\* \* \* \* Fourth change \* \* \* \*

# A.X Initial recording admin UE and/or replay UE configuration data

The initial recording admin UE and/or replay UE configuration data is essential to the recording admin UEs and replay UEs to successfully connect to the MC system.

Data in table A.X-1 is provided to the recording admin UEs and replay UEs clients (identity management client, configuration management client, replay client) during the bootstrap process of a recording admin UE and/or replay UE (see subclause 10.18.1.2 and 10.18.1.3) and can be configured offline using the CSC-11 reference point or via other means e.g. as part of the recording client’s or replay client’s provisioning on the UE, using a device management procedure.

Table A.X-1: Initial recording admin UE and/or replay UE configuration data (on-network)

|  |  |
| --- | --- |
| Reference | Parameter description |
| Subclause 10.1.1 | PDN connectivity information (NOTE 1) |
|  | > HPLMN ID and optionally VPLMN ID to which the data pertains |
|  | > MC common core services PDN |
|  | >> APN |
|  | >> PDN access credentials |
|  | > MC identity management service PDN |
|  | >> APN |
|  | >> PDN access credentials |
|  | Non-3GPP access network connectivity information (NOTE 2) |
| Subclause 10.1.1 | Application plane server identity information |
|  | > Identity management server |
|  | >> Server URI |
|  | > Configuration management server |
|  | >> Server URI |
|  | > Recording server (NOTE 3) |
|  | >> Server URI |
| Subclause 10.1.1 | Operational information |
|  | > Recording admin and replay UE label (see NOTE 4) |
| NOTE 1: The PDN connectivity information is included only when this UE uses 3GPP network to access the MC servers.  NOTE 2: This parameter is included only when this UE uses non-3GPP access network to access the MC servers. The detailed parameters are out of scope of the present document.  NOTE 3: This parameter shall be present only if this UE contains a replay client.  NOTE 4: The Recording admin and replay UE label is optional. | |

\* \* \* \* End of changes \* \* \* \*