**3GPP TSG-CT WG1 Meeting #125-eC1-20wxyz**

**Electronic meeting, 20-28 August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.282** | **CR** | **CR#** | **rev** | **-** | **Current version:** | **16.4.1** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Increment service authorisations | | | | | | | | | |
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| ***Source to WG:*** | FirstNet | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MONASTERY2 | | | | |  | ***Date:*** | | | 20 August 2020 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | The number of service authorizations is checked against the maximum allowed, but the number is never incremented when a new authorization is made. | | | | | | | | |
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| ***Summary of change:*** | | Increment the number of authorizations in subclauses 7.3.2 and 7.3.3 after successful authorization is determined. | | | | | | | | |
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| ***Consequences if not approved:*** | | The maximum number of authorizations will never be reached, allowing an infinite number of service authorizations. | | | | | | | | |
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| ***Clauses affected:*** | | 7.3.2, 7.3.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \* \***

### 7.3.2 SIP REGISTER request for service authorisation

The MCData server shall support obtaining service authorization specific information from the SIP REGISTER request sent from the MCData client and included in the body of a third-party SIP REGISTER request.

NOTE 1: 3GPP TS 24.229 [5] defines how based on initial filter criteria the SIP REGISTER request sent from the UE is included in the body of the third-party SIP REGISTER request.

Upon receiving a third party SIP REGISTER request with a message/sip MIME body containing the SIP REGISTER request sent from the MCData client containing an application/vnd.3gpp.mcdata-info+xml MIME body with an <mcdata-access-token> element and an <mcdata-client-id> element within a message/sip MIME body of the SIP REGISTER request sent from the MCData client, the MCData server:

1) shall identify the IMS public user identity from the third-party SIP REGISTER request;

2) shall identify the MCData ID from the SIP REGISTER request sent from the MCData client and included in the message/sip MIME body of the third-party SIP REGISTER request by following the procedures in subclause 7.3.1A;

2A) shall check if the number of maximum simultaneous authorizations supported for the MCData user as specified in the <max-simultaneous-authorizations> element of the <anyExt> element contained in the <OnNetwork> element of the MCData service configuration document (see the service configuration document in 3GPP TS 24.484 [12]) has been reached. If reached, the MCData server shall send a SIP 486 (Busy Here) response towards the MCData client with the warning text set to: "qqq maximum number of service authorizations reached" in a Warning header field as specified in subclause 4.9 and shall not continue with the rest of the steps in this clause;

3) shall perform service authorization for the identified MCData ID as described in 3GPP TS 33.180 [26]; and

4) if service authorization was successful, shall:

a) bind the MCData ID to the IMS public user identity; and

b) increment the number of authorizations.

NOTE 2: The MCData server will store the binding MCData ID, IMS public user identity and an identifier addressing the MCData server in an external database.

##### **\* \* \* \* \* NEXT CHANGE \* \* \* \* \***

### 7.3.3 SIP PUBLISH request for service authorisation and service settings

The MCData server shall support obtaining service authorization specific information from a SIP PUBLISH request for MCData server settings.

Upon receiving a SIP PUBLISH request containing:

1) an Event header field set to the "poc-settings" value;

2) an application/poc-settings+xml MIME body; and

3) an application/vnd.3gpp.mcdata-info+xml MIME body containing an <mcdata-access-token> element and an <mcdata-client-id> element;

the MCData server:

1) shall identify the IMS public user identity from the P-Asserted-Identity header field;

2) shall perform the procedures in subclause 7.3.1A;

3) if the procedures in subclause 7.3.1A were not successful shall send a SIP 403 (Forbidden) response towards the MCData client with the warning text set to: "140 unable to decrypt XML content " in a Warning header field as specified in subclause 4.9, and not continue with the rest of the steps in this subclause;

3A) shall check if the number of maximum simultaneous authorizations supported for the MCData user as specified in the <max-simultaneous-authorizations> element of the <anyExt> element contained in the <OnNetwork> element of the MCData service configuration document (see the service configuration document in 3GPP TS 24.484 [12]) has been reached. If reached, the MCData server shall send a SIP 486 (Busy Here) response towards the MCData client with the warning text set to: "qqq maximum number of service authorizations reached" in a Warning header field as specified in subclause 4.9 and shall not continue with the rest of the steps in this clause;

4) shall perform service authorization for the identified MCData ID as described in 3GPP TS 33.180 [26];

5) if service authorization was successful shall:

a) bind the MCData ID to the IMS public user identity; and

b) increment the number of authorizations;

NOTE 1: The MCData server will store the binding MCData ID, IMS public user identity and an identifier addressing the MCData server in an external database.

6) if service authorization was not successful, shall send a SIP 403 (Forbidden) response towards the MCData client with the warning text set to: "101 service authorisation failed" in a Warning header field as specified in subclause 4.9, and not continue with the rest of the steps in this subclause;

7) shall process the SIP PUBLISH request according to rules and procedures of IETF RFC 3903 [34] and if processing of the SIP request was not successful, do not continue with the rest of the steps;

8) shall cache the received MCData service settings until the MCData service settings expiration timer expires;

9) shall send a SIP 200 (OK) response according 3GPP TS 24.229 [5];

10) shall download the MCData user profile from the MCData user database as defined in 3GPP TS 29.283 [37] if not already stored at the MCData server and use the <selected-user-profile-index> element of the poc-settings event package if included to identify the active MCData user profile for the MCData client;

NOTE 2: If the <selected-user-profile-index> element of the poc-settings event package is included then only that MCData user profile is needed to be downloaded from the MCData user database.

11) if there is no <selected-user-profile-index> element included in the poc-settings event package then if multiple MCData user profiles are stored at the MCData server or downloaded for the MCData user from the MCData user database, shall determine the pre-selected MCData user profile to be used as the active MCData user profile by identifying the MCData user profile (see the MCData user profile document in 3GPP TS 24.484 [12]) in the collection of MCData user profiles that contains a <Pre-selected-indication> element; and

NOTE 3: If only one MCData user profile is stored at the MCData server or only one MCData user profile is downloaded from the MCData user database, then by default this MCData user profile is the pre-selected MCData user profile.

12) if an <ImplicitAffiliations> element is contained in the <OnNetwork> element of the MCData user profile document with one or more <entry> elements containing an MCData group ID (see the MCData user profile document in 3GPP TS 24.484 [12]) for the served MCData ID, shall perform implicit affiliation as specified in subclause 8.3.2.15.

##### **\* \* \* \* \* END CHANGES \* \* \* \* \***