**3GPP TSG-CT WG1 Meeting #137-eC1-224809**

**E-Meeting, 18th – 26th August 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **24.538** | **CR** | **0008** | **rev** | **-** | **Current version:** | **17.0.0** |  |
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| *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 | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Clarify how to generate the Recipient UE Service ID/AS Service ID for constrained UE |
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| ***Source to WG:*** | ZTE |
| ***Source to TSG:*** | CT1 |
|  |  |
| ***Work item code:*** | 5GMARCH |  | ***Date:*** | 2022-08-07 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *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 canbe 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)* |
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| ***Reason for change:*** | It has stated as:“*The MSGin5G Client generates the Recipient UE Service ID/AS Service ID based on Target address IE the included in the request from the Constrained UE.*”However, it is unclear how to generate the Recipient UE Service ID/AS Service ID. Further the failure case is also missing. |
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| ***Summary of change:*** | 1. Clarify how to generate the Recipient UE Service ID/AS Service ID based on Target address IE.2. Add an example for FQDN.3. Clarify the behavior of the MSGin5G Client in failure case. |
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| ***Consequences if not approved:*** | It is it is unclear how to generate the Recipient UE Service ID/AS Service ID based on Target address IE. |
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| ***Clauses affected:*** | 6.4.2.2.2 |
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|  | **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 \* \* \* \*

##### 6.4.2.2.2 Reception of an message from Constrained UE

Upon receiving a request from Application Client in Constrained UE, and the request is for initiating a MSGin5G message, i.e. with Message Type IE set to "MESSAGE SENDING REQUEST", the MSGin5G Client in the MSGin5G Gateway UE shall construct and send a CoAP POST request to MSGin5G Server as specified in clause 6.4.1.1.2. The MSGin5G Client generates the Recipient UE Service ID/AS Service ID based on Target address IE the included in the request from the Constrained UE.

If the Constrained UE indicates "UE" in the Target Type IE, the Target Address shall include information of another MSGin5G Client, i.e. it shall not indicate a Constrained UE without MSGin5G Client.

If an IPv4 or IPv6 address is included in the Target Address, the MSGin5G Client generates the Recipient UE Service ID/AS Service ID based on the mapping between the addresses and UE Service IDs/AS Service IDs stored in the MSGin5G UE.

If the Constrained UE indicates "UE" in the Target Type IE, in order to route the MSGin5G message to the correct target MSGin5G Client, the Target Address should indicate an FQDN.

EXAMPLES:

The FQDN for generating Recipient UE Service ID/AS Service ID is constructed as follows:

<Recipient UE Service ID/AS Service ID>.msgin5g.5gc.mnc<MNC>.mcc<MCC>.3gppnetwork.org

Assuming <Recipient UE Service ID/AS Service ID> is ue1.service2, the FQDN for MCC 345 and MNC 12 is:

"ue1.service2.msgin5g.5gc.mnc012.mcc345.3gppnetwork.org"

When the MSGin5G Client cannot generate the Recipient UE Service ID/AS Service ID based on Target address IE, the MSGin5G Client generates the request message to the Application Client in Constrained UE as specified in clause 6.4.2.2.3 if the Delivery status required IE indicates "DELIVERY REPORT REQUIRED ". Otherwise, the MSGin5G Client discards the request from the Constrained UE.

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