**3GPP TSG-CT WG1 Meeting #146C1-240168 rev1**

**Online, 22– 26 January 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **24.538** | **CR** | **0098** | **rev** | **1** | **Current version:** | **18.3.0** |  |
|  |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | Add General Description clause to MSGin5G Message delivery |
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| ***Source to WG:*** | China Mobile |
| ***Source to TSG:*** | CT1 |
|  |  |
| ***Work item code:*** | 5GMARCH\_Ph2 |  | ***Date:*** | 2024-01-12 |
|  |  |  |  |  |
| ***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 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:*** | Several message exchange procedures have been specified in clause 6.4 but the relationship among them is not clear. This CR is proposed to add an overview of these procedures. |
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| ***Summary of change:*** | Add an overview of the procedures in clause 6.4 |
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| ***Consequences if not approved:*** | The relationship procedures in clause 6.4 is not clear |
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| ***Clauses affected:*** | 6.4.0(new) |
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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:*** | Rev1: added the behavior description of the relay UE and MSGin5G Gateway UE |

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

### 6.4.0 General Description

This clause specifies the MSGin5G message delivery procedures.

The procedures of MSGin5G message exchange between MSGin5G Client and MSGin5G Server, i.e. the MSGin5G message exchange procedures via MSGin5G-1 reference point, including the sending and reception of MSGin5G messages and MSGin5G message delivery status report, are specified in clause 6.4.1,

If the MSGin5G Client residing in a Constrained UE uses an UE-1 as relay, the MSGin5G message exchange procedures via MSGin5G-1 reference point specified in clause 6.4.1 are also applied. The procedures at the Relay UE are specified in clause 6.4.2.4 and the procedures at the MSGin5G Client residing in the Constrained UE are specified in clause 6.4.2.5.

If the MSGin5G Client residing in a Constrained UE interacts with an MSGin5G Gateway UE which supports MSGin5G Gateway Client, the MSGin5G message exchange procedures via MSGin5G-1 reference point specified in clause 6.4.1 are also applied. When the MSGin5G Gateway UE receives an MSGin5G message from the MSGin5G Client residing in a Constrained UE or from the MSGin5G Server, the MSGin5G Gateway UE may generate a new MSGin5G message based on the received MSGin5G message and send the new MSGin5G message to the corresponding MSGin5G Server or the MSGin5G Client residing in a Constrained UE respectively by using the procedures via MSGin5G-1 reference point specified in clause 6.4.1.

The procedures used for message or message delivery report sending or receiving between a MSGin5G Client and an Application Client residing in different UEs over MSGin5G-5 are specified in clause 6.4.2.2 and clause 6.4.2.3.