**3GPP TSG-SA WG6 Meeting #62 S6-243186**

**Maastricht, Netherlands, 19th – 23rd August 2024 (revision of S6-243xxx)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.554** | **CR** | **0216** | **rev** | **-** | **Current version:** | **19.2.0** |  |
|  | | | | | | | | |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_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:*** | M5S Application Server originating message response API | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Mobile | | | | | | | | | |
| ***Source to TSG:*** | SA6 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMARCH\_Ph3 | | | | |  | ***Date:*** | | | 2024-08-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **C** |  | | | | | ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Controlling Application Server is introduced to MSGin5G service in SP-240765. Therefore, message response needs to be sent from Controlling Application Server. This CR is proposed to add the related APIs. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add M5S Application Server originating message response API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | M5S Application Server originating message response API needed by Controlling Application Server is not supported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.1.1.x1(new), 9.1.1.x1.1(new), 9.1.1.x1.2(new), 9.1.1.x2(new), 9.1.1.x2.1(new), 9.1.1.x2.2(new), 9.1.2.x1(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

### 9.1.1 Mm5s APIs

#### 9.1.1.1 M5S\_AS\_Originating\_Message\_Delivery API

##### 9.1.1.1.1 General

**API description:** This API enables the Application Server to send MSGin5G message to the MSGin5G Server., and enables the MSGin5G Server to send MSGin5G message response to the Application Server.

##### 9.1.1.1.2 Send\_MSGin5G\_Message operation

**API operation name:** Send\_MSGin5G\_Message

**Description:** Send an MSGin5G message to MSGin5G Server.

**Known Consumers:** Application Server

**Inputs:** Refer subclause 9.1.2.1

**Outputs:** Refer subclause 8.3.2

See subclause 8.3.2 for the details of usage of this API operation.

##### 9.1.1.1.3 Send\_MSGin5G\_Message response notification operation

**API operation name:** Send\_MSGin5G\_Message response notification

**Description:** Send an MSGin5G message response notification to Application Server.

**Known Consumers:** Application Server

**Inputs:** Refer subclause 9.1.2.x1

**Outputs:** Refer the MSGin5G\_Message response in subclause 8.3.2

See subclause 8.3.2 for the details of usage of this API operation.

\* \* \* Next Change \* \* \* \*

#### 9.1.2.1 M5S Application Server originating message send request

The information flows from the Application Server to the MSGin5G Server for message delivery includes the IEs in table 8.3.2-1. Additionally, the following information in table 9.1.2.1-2 elements needs to be included:

Table 9.1.2.1-2: M5S Northbound Message Delivery Send request

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Latency | O | The latency requirement for the message. |
| Authorization Information | O | The authorization information used to determine whether the Application Server is allowed to send the message |
| Notification URL | M | The URL for MSGin5G Server to send the MSGin5G response notification. |

\* \* \* Next Change \* \* \* \*

#### 9.1.2.x1 M5S Send\_MSGin5G\_Message response notification

The information flows from the MSGin5G Server to the Application Server for message response notification includes the IEs in table 8.3.2-3. Additionally, the following information in table 9.1.2.x1-2 elements needs to be included:

Table 9.1.2.1-2: M5S Message response notification

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Authorization Information | O | The authorization information used to determine whether the Application Server is allowed to send the message |