**3GPPSA4 #122 S4-230153**

**Athens, 20-24 Feb 2022**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **26**.**501** | **CR** | **0051** | **rev** | **1** | **Current version:** | **18.0.0** |  |
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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 | **X** |

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| ***Title:***  | **[5GMS\_Ph2] Uplink Remote Control- procedure**  |
|  |  |
| ***Source to WG:*** | Tencent |
| ***Source to TSG:*** | S4 |
|  |  |
| ***Work item code:*** | 5GMS\_Ph2 |  | ***Date:*** | 2023-02-13 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***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-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:*** | This document updates the clause on uplink streaming using remote control. It changes the procedure to be conducted through the 5GMS-Aware Application and not through 5GMSu AF. |
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| ***Summary of change:*** | 1. 6.6: updating the remote control procedure |
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| ***Consequences if not approved:*** | The current specification is incomplete. |
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| ***Clauses affected:*** | 6.6 |
|  |  |
|  | **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:*** |  |

 CHANGE

## 6.6 Providing Remote Control

The procedure defines the remote control from a Remote Controller through the 5GMSu-Aware Application.

NOTE: The remote controller may be a network-based function or a UE-based function.



Figure 6.6-1: High-level procedure for remote control of a 5GMS uplink streaming session

Steps:

1. The 5GMSu Application Provider creates a Provisioning Session at reference point M1u, providing its 5GMSu Application Provider identifier as input. 5GMSu Application Provider queries the capabilities and authorized features.

2. The 5GMSu Application Provider requests Content Publish Configuration provisioning at reference point M1u.

3. the 5GMSu AF interacts with the 5GMSu AS at reference point M3u to allocate resources for the M2u egest protocol and format. Then the 5GMSu AS responds with the M2u address.

4. The 5GMSu AF compiles the Service Access Information. The Service Access Information contains access details and options such as the Provisioning Session identifier, and M5u (Media Session Handling) address for an uplink entry point.

5. The 5GMSu AF provides the results of the provisioning request (step 1) to the 5GMSu Application Provider via reference point M1u.

a. When the 5GMSu Application Provider has selected full-Service Access Information, the results are provided in the form of addresses and configurations for M2u (egest), M5u (Media Session Handling), M4u (Media Uplink Streaming).

b. When the 5GMSu Application Provider has delegated the Service Access Information handling to the 5GMS System, then a reference to the Service Access Information (e.g. an URL) is provided. The Media Session Handler fetches the full-Service Access Information later from the 5GMSu AF.

6. The 5GMSu-Aware Application, the 5GMSu Application Provider and the third party Remote Controller negotiate the communication protocol and the command dictionary for remote control, and reach an agreement (if any).

7. The 5GMSu Application Provider announces the uplink streaming service to the 5GMSu-Aware Application at reference point M8u (during the lifetime of the Provisioning Session).

8. The 5GMSu Application Provider sends the remote control information to the Remote Controller.

9. The Remote Controller sends a remote control command to the 5GMSu-Aware Application using the protocol negotiated in step 6.

10. The 5GMSu-Aware Application sends the remote control command to the 5GMSu Client.

11. The 5GMSu Client takes the required action based on the received remote control command.

12. The 5GMSu Client acknowledges execution of the remote control command to the 5GMSu-Aware Application, including the results (if any).

13. The 5GMSu-Aware Application acknowledges execution of the remote control command to the Remote Controller, including the results (if any).

END OF CHANGES