**3GPP TSG-SA4 Meeting #111e  *S4-201xxx***

**Electronic meeting, Telco, Nov 11-20, 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
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|  |  | **CR** | **--** | **rev** | **--** | **Current version:** |  |  |
|  |
| *For* [***HELP***](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:***  | Text on Procedures for Uplink Streaming |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | 5GMS3 |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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:*** | Stage 3 text on uplink streaming procedures and APIs are generally missing in TS 26.512. |
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| ***Summary of change:*** | Proposed text for the currently empty Clause 5.1 of TS 26.512 |
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| ***Consequences if not approved:*** | Absence of essential stage 3 text on uplink streaming service operation in the 5GMS System. |
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| ***Clauses affected:*** | 5.1 |
|  |  |
|  | **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: Text for Clause 5.1

# 5 Procedures for Uplink Streaming

## 5.1 General

Uplink streaming functional entities in the 5GMS System include the 5GMSu Application Provider, 5GMSu AF and 5GMSu AS. To make use of these entities, the UE includes a 5GMSu-Aware Application that is provided by the 5GMS Application Provider and a 5GMSu Client comprising the Media Session Handler and the Media Streamer.

The M1u Provisioning API enables the 5GMSu Application Provider to establish and manage the uplink media session handling and streaming options of the 5GMSu system.

The M2u Egest interface enables uplink streaming content sent by the 5GMSu Client to the 5GMSu AS over interface M4u to be subsequently delivered to the 5GMSu Application Provider. Uplink streaming media transfer from the 5GMSu AS to the 5GMSu Application Provider may be either pull-based and initiated by the 5GMSu Application Provider using the HTTP GET method, or push-based and initiated by the 5GMSu AS using the HTTP PUT method. The resource identifier of the 5GMSu Application Provider for push-based streaming content delivery is provided to the 5GMSu AS by the 5GMSu AF over the M3u interface, as part of the M1u Provisioning Session.

The 5GMSu AF, having acquired M1u Provisioning information, sets up the M5u interface that the 5GMSu Client can use for uplink streaming session management, remote control, metrics reporting, network assistance and request for policy and/or charging treatment. Certain types of configuration and policy information accessed over M5u by the Media Session Handler, such as uplink metrics reporting, QoS policy, or support for AF-based network assistance are further passed to the Media Streamer via the M7u API.

Based on the configuration information received on M5u and a request from the Media Streamer received over the M6u interface, the Media Session Handler sets up an uplink streaming session with the 5GMSu AF. Upon successful session establishment, the Media Session Handler triggers the Media Streamer to begin uplink streaming of media content to the 5GMSu AS over the M4u interface.

Subscription to status and other event notification services are offered by the Media Session Handler to the 5GMSu-Aware Application and to the Media Streamer via the M6u APIs exposed by the Media Session Handler.

Subscription to status and other event notification services are also offered by the Media Streamer to the 5GMSu-Aware Application and to the Media Session Handler via the M7u APIs exposed by the Media Player.

END OF CHANGE