**3GPP TSG|WG-S4 Meeting #115-e S4-211098**

**18th – 27th Aug 2021**

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| *CR-Form-v12.0* | | | | | | | | |
| **Pseudo CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.804** | **CR** | **<CR#>** | **rev** | **-** | **Current version:** | **0.2.1** |  |
|  | | | | | | | | |
| *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:*** | [FS\_5GMS-EXT] Uplink streaming: Conclusion and recommendations | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Tencent | | | | | | | | | |
| ***Source to TSG:*** | SA4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_5GMS-EXT | | | | |  | ***Date:*** | | | 2021-08-12 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 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-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:*** | | The study item description identifies the key topic “Uplink Streaming”. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Conclusion and recommendations | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Key topic not addressed | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |
| ***56*** | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

#### 5.5.6 Conclusion and recommendations

This key issue has explored five collaboration scenarios for uplink streaming in the 5G Media Streaming architecture. For each scenario, a high-level call flow has been developed. Several gaps were identified during this process. Additionally, the uplink steaming features of TS 26.501 [15] and TS 26.512 [16] were compared with both TS 26.238 [?] as well as the download streaming features of TS 26.501 and TS 26.512, and the missing features are identified.

As this study shows, uplink streaming is severely underspecified in TS 26.501 and TS 26.512 in Release 16. Therefore the following extensions are recommended:

1. Include collaboration scenarios and their associated call flows.

2. Define protocol(s) for egesting uplink streaming to the 5GMSu Application Provider.

3. Specify a new Content Publishing Configuration API to enable a 5GMSu Application Provider to create, update, retrieve and delete a publishing template through M1.

4. Specify a content publishing template that enables a publishing configuration from the 5GMSu AS to the 5GMSu Application Provider, including content preparation prior to egest.

5. Specify a means for the 5GMSu Client in the UE to signal an entry point for uplink media streaming to the 5GMSu AS.

6. Develop contribution reporting by which the UE’s activities during an uplink streaming session can be reported to the 5GMSu AF.

7. Develop QoE metrics for uplink streaming by which the quality of experience of an uplink streaming session can be reported by a UE to the 5GMSu AF.