**3GPP TSG- Meeting # *r02***

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
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| ***Work item code:*** |  | | | | |  | ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | Update to media delivery from multiple service endpoints/locations recommendations for stage-3 | | | | | | | | |
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| ***Summary of change:*** | | Recommend introduction of CMMF as a profile in TS 26.511 for delivering media from multiple service locations. | | | | | | | | |
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| ***Consequences if not approved:*** | | Feature not supported | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

## ===== CHANGE =====

## 6.19 Media delivery from multiple service endpoints/locations

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The following stage 3 extensions are recommended to TS 26.510 [108], TS 26.511 [96], TS 26.512 [16], and 26.247 [26]:

8. Document the generic MIME content types and references to valid profiles or relevant external specifications for Content Preparation Templates used for the purposes of multi-source/service location content preparation (item 2 of clause 5.19.7).

9. Extend the ContentHostingConfiguration resource to allow Content Distributions to be declared in hierarchical or peer-to-peer configurations (item 4 of clause 5.19.7).

10. Extend the ContentHostingConfiguration resource to allow the 5GMSd Application Provider the capability to influence the configuration and deployment of Content Distributions with the 5GMSd AS at the time of provisioning (item 5 of clause 5.19.7).

11. Clarify the use of the Media Entry Point for the purposes of communicating service location and multi-source/service location configuration information to 5GMSd Clients (item 6 of clause 5.19.7).

12. Clarify the expectation that the Media Player natively supports the multi-source/service location approach in use (item 8 of clause 5.19.7).

13. Introduce CMMF [126] in TS 26.511 as a format for delivering media from multiple service locations including possible definition of CMMF profiles for use in 5GMS.

14. Introduce Content Steering [111] as an M4 API in TS 26.512 and for use with 3GP-DASH (TS 26.247).The set of recommended technologies within 5GMS for performing multi-source/service location media delivery (among those listed within clause 5.19.7) is to be determined.

The following are recommended for further study:

15. Verification of Content Preparation Template signalling and implementation within 5GMS specifications (item 3 of clause 5.19.7). This verification may be conducted outside 3GPP.

## ===== CHANGE =====

### 7.3.3 Recommendations for normative specification arising from version 19 for stage-3

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2. For *Media delivery from multiple service endpoints/locations* as introduced in clause 5.19 and based on the conclusions in clause 6.19:

a. Document the generic MIME content types and references to valid profiles or relevant external specifications for Content Preparation Templates used for the purposes of multi-source/service location content preparation (item 2 of clause 5.19.7).

b. Extend the ContentHostingConfiguration resource to allow Content Distributions to be declared in hierarchical or peer-to-peer configurations (item 4 of clause 5.19.7).

c. Extend the ContentHostingConfiguration resource to allow the 5GMSd Application Provider the capability to influence the configuration and deployment of Content Distributions with the 5GMSd AS at the time of provisioning (item 5 of clause 5.19.7).

d. Clarify the use of the Media Entry Point for the purposes of communicating service location and multi-source/service location configuration information to 5GMSd Clients (item 6 of clause 5.19.7).

e. Clarify the expectation that the Media Player natively supports the multi-source/service location approach in use (item 8 of clause 5.19.7).

f. Introduce CMMF in TS 26.511 as a format for delivering media from multiple service locations including possible definition of CMMF profiles for use in 5GMS.

g. Introduce Content Steering [111] as an M4 API in TS 26.512 and for use with 3GP-DASH (TS 26.247).3. For *Multi-access media delivery* as introduced in clause 5.18 and based on the conclusions in clause 6.18:

- Changes to the Configuration Settings API and to the Dynamic Status Information API as described in clause 5.15.6.2 of the present document are implemented in TS 26.510 [108] to allow for application configuration and status information exchange for multi-access media delivery.

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