**3GPP TSG-SA WG4 Meeting #119-e *S4-220679r01***

**e-meeting, 11-20 May 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **26.346** | **CR** | **0659** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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:*** | CR 26.346 annex L on Content Encoding (Rel-17) | | | | | | | | | |
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| ***Source to WG:*** | Dolby Laboratories Inc, Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17, MEPRO | | | | |  | ***Date:*** | | | 2022-05-05 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | C |  | | | | | ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
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| ***Reason for change:*** | | The DVB Technical Module TM-Mcast sent a Liaison letter (S4-220480) to 3GPP SA4 concerning Content Encoding in MBMS FLUTE. DVB Project recently published [DVB BlueBook A176r2](https://dvb.org/wp-content/uploads/2022/01/A176r2_Adaptive-Media-Streaming-over-IP-Multicast_Jan-2022.pdf) (ETSI TS 103 769) which references the MBMS Download Profile specified by SA4 in TS 26.346 Rel-16 clause L.4.  TM-MCAST has identified a desire to use FLUTE’s Gzip-based object compression scheme specified in IETF RFC 3926 to reduce the transmission size of certain transmission objects, such as XML instance documents used for configuration purposes. However, clause L.4.2 of TS 26.346 explicitly excludes the signalling of GZip compression using the Content-Encoding element of the FDT. | | | | | | | | |
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| ***Summary of change:*** | | Allow the signalling of GZip compression using the Content-Encoding element of the FDT. | | | | | | | | |
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| ***Consequences if not approved:*** | | Misalignement of DVB MABR and MBMS FLUTE Profiles potentially leading to interoperability issues. | | | | | | | | |
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| ***Clauses affected:*** | | L.4.2 | | | | | | | | |
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|  | | **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:*** | | S4-220542 corresponding dCR at SA4#118-e | | | | | | | | |

## L.4.2 Common FDT-Instance and File Attributes

The following FDT attributes, defined at both the FDT-Instance and File levels, may be carried in the FDT sent by the FLUTE sender, under either the *File-Instance* or *File* element, and shall be supported by the FLUTE receiver:

- Content-Type

- Content-Encoding set to 'gzip'

- FEC-OTI-FEC-Encoding-ID

- FEC-OTI-Maximum-Source-Block-Length

- FEC-OTI-Encoding-Symbol-Length

- FEC-OTI-Scheme-Specific-Info

NOTE: See sub-clause L.4.4 on the usage rule for these parameters at the File level of the FDT.

The following FDT parameters, defined at both the FDT-Instance and File levels, shall not be used by the FLUTE sender, in either the *File-Instance* or *File* element:

- Content-Encoding attribute set to a value other than 'gzip'

- FEC-OTI-FEC-Instance-ID attribute (not applicable to Rel-9 FEC schemes)

- Group element

NOTE: These parameters are optional to support by the FLUTE receiver.