**3GPP TSG SA WG4#128 S4-240963**

**Jeju, Korea, 20 May - 24 May, 2024**

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| *CR-Form-v12.2* | | | | | | | | |
| **PSEUDO CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.956** | **CR** | **<CR#>** | **rev** | **<Rev#>** | **Current version:** | **0.0.1** |  |
|  | | | | | | | | |
| *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 |  |

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| ***Title:*** | [FS\_Beyond2D] Summary of the video capabilities for messaging services defined in TS 26.143 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Incorporated, China Mobile Com. Corporation | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_Beyond2D | | | | |  | ***Date:*** | | | 05-20-2024 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | 9 |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In TR 26.956, clause 5 aims to provide a summary of the existing beyond 2D video capabilities in 3GPP~~, from at least TS.26.119 and TS.26.118~~. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add media profiles and codecs capabilities for messaging services, as defined in TS 26.143. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incomplete overview of existing beyond 2D video capabilities in 3GPP. | | | | | | | | |
| ***c*** | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 5.3(New) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 #1

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] Allied Market Research, “3D Technology Market Size, Share, Competitive Landscape and Trend Analysis Report by Product, Application : Global Opportunity Analysis and Industry Forecast, 2021-2030.”, [www.alliedmarketresearch.com/3d-technology-market.](http://www.alliedmarketresearch.com/3d-technology-market.)

[3] Mordor Intelligence, “Mobile 3D Market Size & Share Analysis - Growth Trends & Forecasts (2024 - 2029).”, <https://www.mordorintelligence.com/industry-reports/mobile-3d-market.>

[4] Grand View Research, “Immersive Technology Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Technology, By Application, By Industry, By Region, And Segment Forecasts, 2023 - 2030.”, [https://www.grandviewresearch.com/industry-analysis/immersive-technology-market-report.](https://www.mordorintelligence.com/industry-reports/mobile-3d-market.)

[5] 3GPP TS 26.119: "Media Capabilities for Augmented Reality".

[6] 3GPP TS 26.118: "Virtual Reality (VR) profiles for streaming applications".

[7] 3GPP TS 26.143: "Messaging Media Profiles".

[8] 3GPP TS 26.511: "5G Media Streaming (5GMS); Profiles, codecs and formats".

[9] 3GPP TS 26.265: "Media Delivery: Video Capabilities and Operating Points".

CHANGE #2

# 5 Overview of existing "Beyond 2D" Video Capabilities in 3GPP

## 5.4 Messaging Services

3GPP TS 26.143 [7] specifies the media types, formats, codecs capabilities and profiles for the messaging applications used over the 5G System. The document extends to codecs for speech, audio, video, still images, bitmap graphics, 3D scenes and assets, and other media in general, as well as scene description.

Specifically, the 2D video capabilities defined in TS 26.143[7] clause 6.2 are fully aligned with 5G Media Streaming in 3GPP TS 26.511 [8]:

- AVC with HD and Full-HD resolutions

- HEVC with HD, Full-HD and UHD resolutions

For Beyond 2D video capabilities, as HEVC simulcast and HEVC frame packing already been included in SA4 specifications and given the coding benefits MV-HEVC provides compared to these solutions, the support for stereoscopic MV-HEVC for low delay applications of stereoscopic 3D video was recommended by TR 26.966[ref]. This aspect is being addressed in a Rel-19 work [9] .

Editor's Note: It’s expected to track 3GPP TS 26.265[9] for the beyond 2D video messaging media profiles.

END OF CHANGES