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English only

IAFI[1]

PROPOSED UPDATES TO THE REPORT ITU-R M.2528-0 AND LIAISON STATEMENT TO 3GPP

Capabilities of the terrestrial component of IMT-2020 for multimedia communications

Introduction

Report ITU-R M.2528-0, titled "Capabilities of the terrestrial component of IMT-2020 for multimedia communications," was originally developed in September 2023. Since its publication, significant advancements have occurred in the standardization of 5G-Advanced (3GPP Release 18 and beyond) and the emergence of preliminary framework studies for IMT-2030 (6G).

Notably, 3GPP finalized Release 18 in December 2024, marking the beginning of the "5G-Advanced" era. This release represents a paradigm shift, integrating Artificial Intelligence (AI) and Machine Learning (ML) directly into the Radio Access Network (RAN) to optimize multimedia delivery. It also introduces critical enhancements for "Extended Reality" (XR) and device energy efficiency. Furthermore, work related to 3GPP Release 19, which serves as a bridge to IMT-2030 (6G) multimedia requirements, was frozen in December 2025.

During the 51st Meeting of Working Party (WP) 5D, IAFI proposed a revision to Report ITU-R M.2528 (C-1058) to reflect significant 3GPP advancements in Mission-Critical services, including MCPTT, MCVideo, and MCData. This proposal was accepted, and a Working Document (Annex 3.2 to the 51st WP 5D Chair's Report) was established.

Proposal

IAFI proposes that WP 5D approves the updated Liaison Statement (Attachment I) to 3GPP, requesting the latest technical specifications considering the latest Release-18 and 19. Draft Liaison Statement to 3GPP is attached as Attachment -1 for consideration of the meeting.

[1] IAFI is a sector Member of ITU-R. For more details, please see https://iafi.in

Attachment: 1

Working Party 5D

DRAFT LIAISON STATEMENT TO 3GPP

ITU-R Working Party 5D (WP 5D) expresses its appreciation to 3GPP for its previous contributions to Report ITU-R M.2528, specifically the data provided in Tables 2 to 7. These tables are essential for mapping 3GPP Release features to the Multimedia Capabilities established in Report ITU-R M.2528.

Working Party 5D has commenced work on the next revision of Report ITU-R M.2528. Since the last update, WP 5D notes the finalization of 3GPP Releases 18 and 19, which introduce critical enhancements in Multimedia Capabilities, including:

1. **Extended Reality (XR) Enhancements:** Significant improvements in latency, capacity, and power consumption specifically tailored for AR, VR, and MR applications.

2. **Artificial Intelligence and Machine Learning (AI/ML) in the RAN:** The integration of AI/ML to optimize air interface performance, directly impacting multimedia delivery efficiency, mobility management, and Quality of Service (QoS).

3. **Evolution of Mission-Critical and Multicast Services:** Further advancements in MCPTT, MCVideo, and MCData, alongside evolved 5G Multicast-Broadcast Services (MBS) for highly efficient media distribution.

Working Party 5D requests 3GPP to provide updated technical information for Tables 2 through 7 of Report ITU-R M.2528 to reflect these advancements. This will ensure that the revised Report accurately captures the state-of-the-art capabilities of the terrestrial component of IMT-2020 for multimedia communications.

The next meeting of WP 5D (53rd meeting) is scheduled to be held from 28th September to 8th October, 2026.

Status: For action.

Contact: TBD **E-mail:** TBD