

P802.1CMde

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Type of Project: Amendment to IEEE Standard 802.1CM-2018

PAR Request Date: 04-Sep-2018

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

1.1 Project Number: P802.1CMde

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Local and metropolitan area networks -- Time-Sensitive Networking for Fronthaul

Amendment: Enhancements to Fronthaul Profiles to Support New Fronthaul Interface, Synchronization, and Syntonization Standards

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)

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3.2 Sponsoring Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 11/2020

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2021

5.1 Approximate number of people expected to be actively involved in the development of this project: 30

5.2.a. Scope of the complete standard: This standard defines profiles that select features, options, configurations, defaults, protocols and procedures of bridges, stations, and LANs that are necessary to build networks that are capable of transporting fronthaul streams, which are time-sensitive.

NOTE--Stream and flow are used as synonyms in this document

5.2.b. Scope of the project: This amendment defines enhancements to fronthaul profiles in order to address new developments in fronthaul interface standards, and related synchronization and syntonization standards. This amendment also addresses errors and omissions in existing content.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: The purpose of this standard is to specify defaults and profiles that enable the transport of time-sensitive fronthaul streams in Ethernet bridged networks.

5.5 Need for the Project: The fronthaul interfaces supported by the base standard have been further developed. The synchronization and syntonization standards that the base standard relies on are being enhanced. These developments need to be addressed by enhancing the fronthaul profiles.

5.6 Stakeholders for the Standard: Developers, providers, and users of networking services and equipment, such as bridge and NIC suppliers and vendors, network operators, testers, and users.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes: 5.2: Fronthaul: the connectivity between the functional blocks (e.g., baseband processing and radio frequency blocks) of a cellular base station.

5.2.b: Examples of standards that can be considered in the amendment:

- fronthaul interface standards, e.g., eCPRI v1.2 and v2.0

- synchronization and syntonization standards, e.g., the newly consented ITU-T Q13/15 Recommendations including G.8262.1 and G.8273.2

5.5: A fronthaul network is a bridged network supporting fronthaul.