P802.1CM

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Type of Project: New IEEE Standard
PAR Request Date: 16-Apr-2015
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for a New IEEE Standard

1.1 Project Number: P802.1CM
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Time-Sensitive Networking for Fronthaul

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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Name: Paul Nikolich
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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: 07/2018
4.3 Projected Completion Date for Submittal to RevCom: 05/2019

5.1 Approximate number of people expected to be actively involved in the development of this project: 30
5.2 Scope: 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 time sensitive fronthaul streams.

5.3 Is the completion of this standard dependent upon the completion of another standard: Yes
If yes please explain: This standard may make use of the specifications that are under development in:
P802.3br - Interspersing Express Traffic
P802.1Qbu - Frame Preemption
P802.1Qbv - Enhancements for Scheduled Traffic

5.4 Purpose: The purpose of this standard is to enable the transport of time sensitive fronthaul streams in bridged networks.

5.5 Need for the Project: Radio equipment and radio equipment controller are often separated and connected by a mobile operator's fronthaul network, which has very stringent requirements. Specific configuration of various IEEE 802 standards (e.g. P802.1Qbu, P802.1Qbv, P802.3br) is needed to meet the requirements of fronthaul streams in an IEEE 802.1 bridged network potentially carrying other categories of traffic. Therefore, the use and the configuration of functions defined in the IEEE 802 standards have to be specified by standard profiles for fronthaul networks.

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

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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

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8.1 Additional Explanatory Notes (Item Number and Explanation): This standard will be developed in close collaboration with CPRI Cooperation.