

Title: Liaison letter to MEF Forum  
From: IEEE 802.1  
For: Information  
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Dear Colleagues,

The IEEE 802.1 Working Group would like to inform you of the IEEE P802.1CM Time-Sensitive Networking for Fronthaul project of the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group. P802.1CM is ongoing work, with collaborative efforts of the Common Public Radio Interface Cooperation. The web page of the project: <http://www.ieee802.org/1/pages/802.1cm.html>.

The P802.1CM project will specify bridged transport networking over IEEE Std 802.3 Ethernet for the transport of fronthaul traffic, including user data, management and control plane traffic. That is, P802.1CM defines profiles that select features, options, configurations, defaults, protocols and procedures for bridges, stations and LANs that are necessary to build networks that are capable of transporting fronthaul streams. The project includes requirements for the fronthaul interface where the functional decomposition of the radio base station to Radio Equipment (RE) and Radio Equipment Control (REC) is according to the Common Public Radio Interface (CPRI 7.0) specification. Furthermore, the project includes synchronization requirements, which have been provided by the CPRI Cooperation, and potential solutions. A possible solution for synchronization, outlined in the P802.1CM draft, is when a synchronization service (time and/or frequency synchronization) is offered by the transport network operator to the mobile network operator (synchronization offered as a service). This requires proper service level agreement between the two network operators.

P802.1CM is developing profiles for functional decompositions of the radio base station in close cooperation with CPRI Cooperation. To date, profiles for CPRI 7.0 has been developed. P802.1CM will define profile(s) for a recently announced new functional decomposition: eCPRI (<http://www.cpri.info/press.html>). Further profiles corresponding to other decompositions may be possible.

We look forward to cooperation between our organizations. IEEE 802.1 face-to-face meeting details are available at: <http://www.ieee802.org/1/meetings>. The next face-to-face meeting is from January 16 to 19 in Atlanta, GA. Details on TSN calls, are available at <http://www.ieee802.org/1/pages/tsn.html>.