Title: Liaison on IEEE P802.1EH and IEEE P802.1EJ
From: IEEE 802.1 Working Group[1]
For: Information
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Dear Colleagues,

The IEEE 802.1 Working Group would like to inform you about the start of the IEEE P802.1EH and IEEE P802.1EJ projects.

The IEEE P802.1EH™ Project Authorization Request (PAR) has been developed with contributions from UEC members to support UEC's Congestion Signaling (CSIG). IEEE P802.1EH™ specifies signaling of telemetry in dedicated tags added to data frames. The telemetry works for Medium Access Control (MAC), Customer Virtual Local Area Network (C-VLAN) and Service Virtual Local Area Network (S-VLAN) bridges and end stations. Furthermore, MAC Security (IEEE Std 802.1AE) is also supported together with telemetry. In addition, a service interface will also be specified to enable higher layer protocols to initiate and retrieve telemetry from the data link layer. The project will support UEC use cases and other potential use cases, e.g., telecommunications networks.

The IEEE P802.1EJ™ project will specify a multi-hop Backward Notification (BN) mechanism to improve efficiency by enabling bridges at the point of network events to generate rapid, structured signals and transmit them toward the traffic source. These signals can convey congestion indications, network state information, and packet-related information to enable timely responses by the traffic source, including sender rate adaptation, load balancing decisions, and fast retransmission as needed by higher layer entities. Backward notification enables timely and informed decisions for congestion management, path re-balancing, and failure recovery, and is particularly valuable for links with long round trip time or when the forward path is unavailable. The specification includes a service interface for exposing the information to entities above the data link layer. Among other use cases, backward notification is expected to be useful for UEC's programmable congestion management (PCM) framework.

[1] This document solely represents the views of the IEEE 802.1 Working Group, and does not necessarily represent a position of IEEE, or the IEEE Standards Association, or IEEE 802.

We invite the UEC and its individual members to participate in the development of these new standardization projects.

We would also invite Ultra Ethernet Consortium members to participate in our balloting process as we move these projects through its various stages of development. You are invited to join and contribute to the development of this project via the IEEE 802.1 TSN TG meetings.

Note that the IEEE 802 work is open and contribution driven. Participation is on an individual basis and technical discussion can be conducted based on individual contributions. The IEEE 802.1 TSN Task Group meets at Plenary and Interim sessions and holds electronic meetings in-between sessions as listed in the WG calendar: https://1.ieee802.org/wg-calendar.

Respectfully submitted,
Glenn Parsons
Chair, IEEE 802.1 Working Group