IEEE P802.1Qdd Resource Allocation Protocol (RAP)

Editor's Update for Draft 0.8

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Current Status of D0.8

- Next draft of P802.1Qdd is D0.8
  - Not yet uploaded at the time of this presentation.
  - Expected to be available at around the end of November 2023.
  - Intended for a Task Group ballot.

Major Changes in D0.8

- Incorporation of results of the comment resolution for D0.7

- Support for Stream Rank and importance

- RAP Failure Codes

- **Resource allocation for seamless redundancy with 802.1CB**
  - Managed objects
  - Description of operations and examples
  - Extensions in TLV encoding
  - Extensions in state machines

Resource Allocation for Seamless Redundancy

- Operating in a C-VLAN Bridged network with
    - FRER capabilities in either or both end stations and Bridges deployed as E2E FRER, network FRER, or hybrid
    - VLAN topologies for one or more instances of redundant trees built by other protocols or management

- FRER-capable stations with FRER-functions
    - FERE-capable Talker: R-Tag , stream splitting
    - FRER-capable Listener: R-Tag, sequence recovery
    - FRER-capable Bridge: R-Tag, sequence recovery, active stream identification (change VLAN only)

- Multi-Context Talker Announcement and Listener Attach for a Compound Stream and its Member streams
    - Propagation of attributes in multiple VLAN topologies in an instance of redundant trees, separating and combining them at locations where FRER operations such as stream splitting and merging are needed, determined based on both device capabilities and VLAN configurations.
    - Collection of QoS information such as accumulated latency on each path
    - Signaling of status and diagnosis information about each of the redundant paths
    - Resource allocation and configuration of FRER functions on each reserved path

Thank you