IEEE P802.1Qdj

Update on draft d0.0 and way forward

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State of draft d0.0

- Currently draft mainly contains boilerplate and structure
- First draft of a definition for CUC and CNC responsibilities included
- Work is currently being done to include a first version of an enhanced YANG model structure
  - This includes enhancements to the interface as described in IEEE Std 802.1Qcc-2018
  - The enhancements are aiming to close gaps that have been discovered in testbeds regarding a complete TSN stream configuration workflow
- The models for the management models introduced in IEEE Std 802.1Qcc-2018 will be enhanced to allow a better differentiation between the interfaces called UNI in that amendment.

Objective of this presentation

- Provide the Editor's understanding on the scope of the IEEE P802.1Qdj project

- Provide outline and overview of the topics intended by the editor to be included in the first draft of IEEE P802.1Qdj

- Get working group discussion started if additional items fit in the scope of the project
  - provide guidance to the editor on how to progress with those items, if any

Let us try to keep the scope of P802.1Qdj concise

- The reasons the editor has expressed a strong opinion against adding additional topics to the scope of IEEE P802.1Qdj are the following:
  - keep the project on track regarding timeline
  - personal preference to have narrow projects with a concise scope instead of large projects that include a lot of different topics
  - additional features required by e.g. IEC/IEEE 60802 can always be done in new projects
  - in the past there was feature creep in projects and that should be avoided in the future, if possible

That being said, if a topic fits well into the scope of the project it should be discussed whether it should get its own project or can/should be included in P802.1Qdj

Scope of IEEE P802.1Qdj – editor's view

- The editor presented his view during the May 2020 electronic interim meeting in https://www.ieee802.org/1/files/public/docs2020/dj-kehrer-P8021Qdj-d0-0-update-0520-v01.pdf

- The intention when starting the work on the PAR for IEEE P802.1Qdj was to include the following:
  - Clarification of the management models introduced by IEEE Std 802.1Qcc, if required
  - Definition of the roles and responsibilities of CUC and CNC
  - Enhancements to the interface between CUC and CNC in order to fill in gaps with the goal of enabling a complete TSN configuration workflow
  - YANG module(s) for the interface between CUC and CNC

Editor's view on out-of-scope and discussion items

Out of scope

- Inter-domain communication protocol
- Interface between end-station and CUC
- Interface between CNC and Bridge
- Extension of LLDP by adding new TLVs – in general
- Topology discovery

Discussion items

- Model for inter-domain communication?
- Set of features required for inter-domain communication?
- Inter-domain communication information?

Way forward

- The view on the slides 5 and 6 of what is in or out of scope of P802.1Qdj is the personal view of the editor
- This is a starting point and additional topics can be included if the working group decides they should be in the amendment
- Discussion should be started within the working group on the exact contents of P802.1Qdj to provide guidance to the editor
- During the May 2020 electronic interim meeting it was suggested that a list of features relating to configuration should be provided, that have been identified as missing by IEC/IEEE 60802
  - No contribution has been made to that effect up to now

➢ **To get started, the first editor's draft d0.0 will include the items provided on slides 2 and 5**
➢ **Later versions of the draft can then be extended, as required**

Thank you!

Any questions?