

YANGster Meeting #25

August 2019



Agenda Meeting #25

- | IPR Call (Slides at end of presentation)
- | Agenda Bash
- | New Ballot
- | Enum vs. Choice vs. Identity
- | Support Request
- | Meta Data Information Update
- | IEEE Ethertypes
- | Updates from Projects
- | Any Other Business

New Ballot

- | P802.1Qcx/D1.4 Ballot

- | The closing date of this ballot is:

- | 10th September 2019

- | The PDF file of P802.1Qcx/D1.4 can be found at:

- | <http://www.ieee802.org/1/files/private/cx-drafts/d1/802-1Qcx-d1-4.pdf>

Enum/Choice/Identity

- | There was a comment to LLDP YANG that requested a change from Enum to Choice.
- | Subsequent discussion converged, and the sentiment is best expressed by Rodney's comment....
 - | The problem with 802.1 YANG (and also 1588 YANG) is that we are configuring a protocol that operates on-the-wire. The on-the-wire protocol uses numeric values in its packets... not strings. It is okay for the YANG to configure that with a string, but... the device needs to know the associated number. A string alone doesn't sufficient information. In order to associate a string with a number, the only viable feature in YANG is enum.

Enum/Choice/Identity

- | Mahesh has the following guidance
- | Choice is generally used when one has to choose between two or more incompatible attributes.
- | Enum is good when the types of values for that enumeration, i.e. an attribute, are fixed and are not going to change, and you are deciding which value to pick within the same attribute. An addition to the enum requires the model to be revised.
- | Identities (and not identity-refs, which is something different) are good when a given attribute might change in the future and not all values are known at current time. New identities can be added without revving the whole model.

Items for Discussion

- | William Zhao
 - | Has some discussion items based on maintenance items that were closed because they were classified as enhancements
- | Invitation to submit email to YANGsters reflector for further discussion

VLAN YANG

- | remove the Customer VLAN Bridge module (since it is empty)
 - | <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MAINT-REQ;82c4fb76.19>
 - | <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MAINT-REQ;9db014ae.19>
 - | <https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MAINT-REQ;f55f20dc.19>

Support Request

- | Thorsten Heinze is looking for support with questions related to ieee802-dot1q-pb.yang

Meta Data Update

- | Thanks Mark!
- | Value for module-classification

- | Network Element
 - | YANG Modules describe the configuration, state data, operations, and notifications of specific device-centric technologies or features.
- | Network Service
 - | YANG Modules describe the configuration, state data, operations, and notifications of abstract representations of services implemented on one or multiple network elements.

IEEE Ethertypes

- | In Vienna, clearance was given to work on a PAR for pre-circulation
- | Create an IEEE Ethertypes YANG
- | Initial draft of PAR should be ready before the Sept Interim

FROM LAST MEETING (#24)

YANG Recap From Vienna

| Project | Subject | Last Motion | Current Stage | Draft Number | Next Action | PAR Ends |
|------------|------------------------------|-------------|----------------|--------------|-------------------------|----------|
| 802.1CBcv | FRER YANG & MIB | TG Ballot | Editor's draft | D0.0 | TG ballot | Dec '22 |
| 802.1X-REV | Port Access Control | WG ballot | WG ballot | D1.4 | Sponsor Ballot | Dec '22 |
| 802.1ABcu | LLDP YANG | TG Ballot | TG Ballot | D0.6 | WG ballot | Dec '21 |
| 802.1Qcw | TSN (Qbu, Qbv, Qci) YANG | TG Ballot | TG Ballot | D0.4 | WG ballot | Dec '21 |
| 802.1Qcx | CFM YANG | WG Ballot | WG Ballot | D1.2 | Sponsor Ballot | Dec '21 |
| 802.1Qcr | Asynchronous Traffic Shaping | WG ballot | WG ballot | D1.1 | WG Ballot recirculation | Dec '20 |

| P802.1Qdj

| Configuration Enhancements for TSN

YANG

Current YANG

Any changes?

| | |
|---|------------------|
| ieee802-dot1ab-lldp.yang | draft/802.1/Abcu |
| ieee802-dot1ab-types.yang | draft/802.1/Abcu |
| ieee802-dot1q-ats.yang | draft/802.1/Qcr |
| ieee802-dot1q-stream-filters-gates.yang | draft/802.1/Qcr |
| ieee802-dot1q-preemption.yang | draft/802.1/Qcw |
| ieee802-dot1q-psfp.yang | draft/802.1/Qcw |
| ieee802-dot1q-sched.yang | draft/802.1/Qcw |
| ieee802-dot1q-cfm.yang | draft/802.1/Qcx |
| ieee802-dot1q-cfm-bridge.yang | draft/802.1/Qcx |
| ieee802-dot1q-cfm-types.yang | draft/802.1/Qcx |
| ieee802-dot1x.yang | draft/802.1/x |
| ieee802-dot1x-types.yang | draft/802.1/x |
| ieee802-types.yang | published/802 |
| ieee802-dot1q-bridge.yang | published/802.1 |
| ieee802-dot1q-pb.yang | published/802.1 |
| ieee802-dot1q-tpmr.yang | published/802.1 |
| ieee802-dot1q-tsn-types.yang | published/802.1 |
| ieee802-dot1q-types.yang | published/802.1 |
| ieee802-dot1q-vlan-bridge.yang | published/802.1 |
| ieee802-ethernet-interface.yang | published/802.3 |
| ieee802-ethernet-interface-half-duplex.yang | published/802.3 |
| ieee802-ethernet-link-oam.yang | published/802.3 |
| ieee802-ethernet-pon.yang | published/802.3 |
| ieee802-ethernet-pse.yang | published/802.3 |

Common File Updating

- | Are there any common files currently being updated?
 - | For example:
 - | <https://github.com/YangModels/yang/blob/master/standard/ieee/draft/802/ieee802-types.yang>
- | If there are:
 - | The file needs to be copied from the published directory into the project that is modifying the file

IPR SLIDES

Participants have a duty to inform the IEEE

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential
Essential Patent Claims is encouraged**

Ways to inform IEEE

- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
- Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

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 - Don't be silent if inappropriate topics are discussed ... do formally object.

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Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- ***IEEE-SA Standards Board Bylaws***
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- ***IEEE-SA Standards Board Operations Manual***
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE-SA
Standards Board Patent Committee
Administrator at patcom@ieee.org**

YANGsters Meetings

- | □ YANG across IEEE 802
 - | Communication, Coordination, Mentoring
 - | Point of Contact/Center of Expertise for IEEE 802
- | Monday 18:00 – 19:30 (ACV 0.94/0.95)
 - | IEEE YANG Work
 - | YANG Catalog Github Update
 - | Git Commands
 - | YANG Catalog Meta-Data Update
 - | Ethernets Discussion
 - | Administrative