YANGster Meeting #23
IEEE 802 Plenary
Vienna

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Agenda Meeting #23

- IPR Call (Slides at end of presentation)
- IEEE YANG Work
- YANG Catalog Github Update
- Git Commands
- YANG Catalog Meta-Data Update
- Ethertype Discussion
- Diagraming Conventions
- Administrative
- AoB

YANG

- Current YANG

- Any changes?

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

YANG Catalog Structure Implemented

- New structure in place
  - https://github.com/YangModels/yang
  - /standard/ieee/draft
  - /standard/ieee/published
- /draft/802.1 has subdirectories for each project
- Files for .1Qcp and the Ethernet YANG have been moved to published

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Git Commands

- After discussions with YANG Catalog experts, the following Git suggestions were made
  - Initial setup
    - Fork from YangModels/Yang
    - Clone to your work area
  - Always use branches to implement the changes you need then push the branch to your origin
  - Then submit the pull request for that branch to YangModels/yang
  - There are commands that can be used to ensure your origin master is in sync with the upstream master (useful to do before branching to do an update of somekind)

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Git Terms

ǀ   Example

ǀ   https://github.com/YangModels/yang

     ǀ   This is what I fork from

     ǀ   This is also my "upstream"

     ǀ   The branch I care about here is "master"

ǀ   https://github.com/samans/yang

     ǀ   This is my fork of YangModels/yang

     ǀ   This is my "origin"

     ǀ   The branch I care about here is "master"

ǀ   On my PC

     ǀ   I have a clone of samans/yang

     ǀ   This is where I do my branches to make changes

     ǀ   I then push the branches to origin/<new branch>

     ǀ   Then pull the branch from origin/<new branch> to upstream/master

ǀ   Action on Scott: Upload to YANGsters wiki.

YANG Catalog Meta-Data

- Meta-Data process tested and working
- Need to agree/document the guidelines

- [reference]
    - IEEE Std 802.1AX-2014, IEEE Standard for Local and metropolitan area networks—Link Aggregation.
    - Use the year to avoid having to update the meta-data when a standard is updated
- [author-email]
    - stds-802-1-L@ieee.org or similar
- [document-name]
    - IEEE Std 802.1Q-2018, Bridges and Bridged Networks
- [module-classification]
    - Use 'network-element' for modules that configure network elements
    - Use 'network-service' for other modules like VPN or ACLs
- [maturity-level]
  (current values – use these for now)
    - Ratified == any YANG module in standards/ieee/published
    - Adopted == any YANG module in standards/ieee/draft (That has had at least one ballot resolution cycle)
    - Initial == any YANG module in experimental/ieee or the initial model placed in standards/ieee/draft
- Consider if there are other maturity levels we would like
   - For example Task Ballot and Sponsor Ballot (to indicate the maturity of the ballot.

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Diagraming Conventions

- .1Qcp used Visio to create "UML-like" diagrams

- In the spirit of keeping things consistent, it is important to use the same conventions for all "UML-like" diagrams

- Some examples follow…

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Diagram conventions

Association:
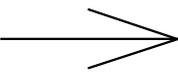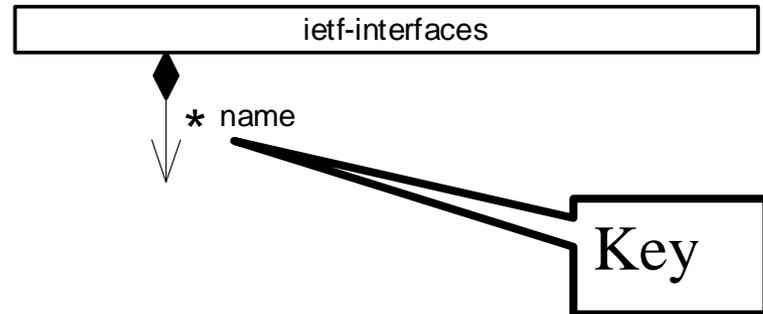
Aggregation: ◊

Composition: ◆

ietf-interfaces

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* name

Key

Class

Attribute
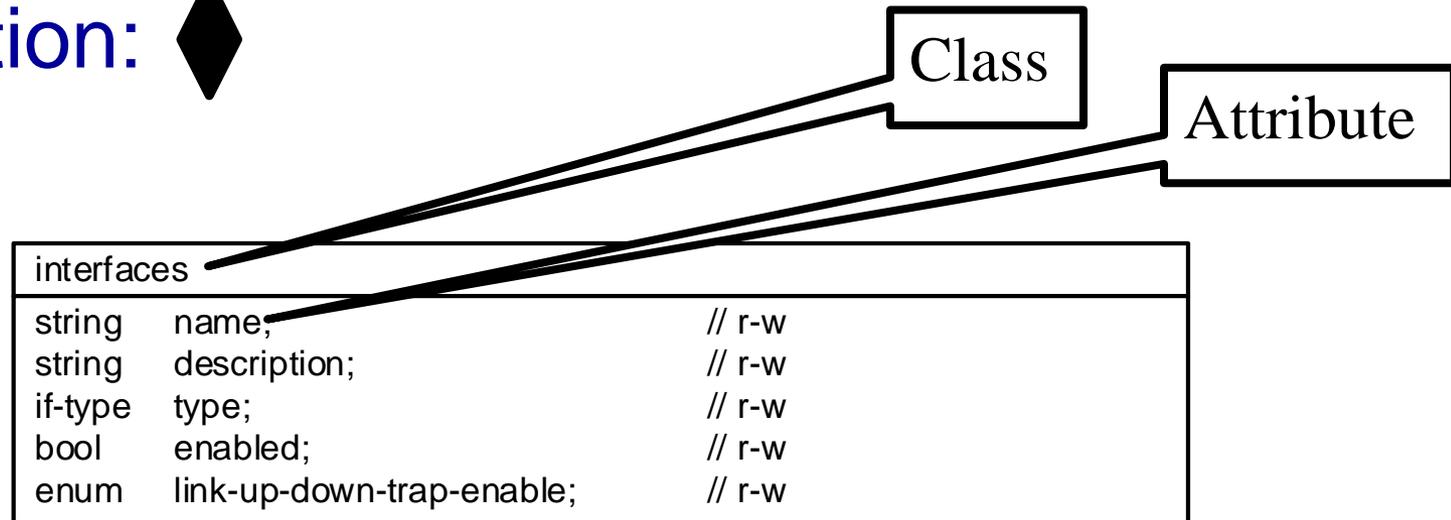
Microsoft Visio
2003-2010 Drawing
Examples

interfaces		
string	name;	// r-w
string	description;	// r-w
if-type	type;	// r-w
bool	enabled;	// r-w
enum	link-up-down-trap-enable;	// r-w

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Ethertype Discussion

- Some background on the IETF/IANA/IEEE work on IEEE 802 parameters can be found here □ https://tools.ietf.org/html/rfc7042#page-25

- The IETF has published https://tools.ietf.org/html/rfc8519 which includes a YANG module that takes information from the IEEE Ethertype registry and in some cases augments that information.

- Long Story Short
  - Fill out a PAR to start work on an IEEE Ethertypes YANG module

Ethertypes PAR

- Project Title
    - Standard for Ethertypes YANG
- Expected Sponsor Ballot
    - January 2020
- Number of people involved
    - 5
- Scope
    - Create a YANG module that contains the Ethertypes information found in http://standards-oui.ieee.org/ethertype/eth.txt. The information from the IEEE RAC ethertype registry can be augmented given sufficient expert review and agreement.
- Continue to refine the PAR and get the project moving so that the IETF module can be replaced with an officially sanctioned IEEE module.

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Upcoming YANGsters Calls

- Last Tuesday of every month from 10AM (US-Eastern) to 11AM (US-Eastern)
- Next Call are:
  - Motion for more calls
- Web conference: https://join.me/ieee802.1
- Phone numbers: https://join.me/intphone/684-645-640
- By phone:
  - United States – San Francisco, CA   +1.415.594.5500
  - Canada – Ottawa   +1.613.699.9318
  - Germany – Frankfurt   +49.69.9753.3131
  - Hungary – Budapest   +36.1.700.8899
  - China – Beijing +86.10.8783.3389
  - United Kingdom – National   +44.33.0088.2634
- Access Code   684-645-640#
- Request for more calls at the July Plenary Session

MOTION

l Authorize once-a-month e-meeting cycle for the YANGsters group. Convening on the last Tuesday of every month from 10AM (US-Eastern) to 11AM (US-Eastern), start 30 July 2019 end 29 October 2019

l Proposed: Mansfield Second: Rouyer

l For_____Against____Abstain_____

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Any Other Business?

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IPR SLIDES

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Participants have a duty to inform the IEEE

- Participants <u>shall</u> 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 <u>should</u> 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

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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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Other guidelines for IEEE WG meetings

- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**

  - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**

  - **Don't discuss specific license rates, terms, or conditions.**

    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.

      - **Technical considerations remain the primary focus**

  - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**

  - **Don't discuss the status or substance of ongoing or threatened litigation.**

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

For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at http://standards.ieee.org/develop/policies/antitrust.pdf

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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

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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
  - Ethertype Discussion
  - Administrative