

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

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>

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**

Minutes from 2018-07-09

YANGsters

AI == Action Item

- | No response to the IPR Call
- | AI: @San Diego create MEF and ITU-T liaison (see [motions](#) section for details) (scott)
- | AI: Conduct Git (YANG Catalog) structure discussion (see [Suggested Reorganization for Git](#)) (scott)
- | AI: Discuss with leaders from all working groups that are interested in YANG to find an individual or individuals that could be committers for the IEEE branches in the YANG Catalog (Git) (scott)
- | AI: Develop documentation for the new structure and document on the YANGsters page (scott)
- | AI: Talk with Mick about the .1ax YANG module being created (scott)
- | AI: Investigate a way to fix the pyang namespace error/warning message on iee namespace
- | AI: Document a template (guideline) for the YANG revision clause (scott, marc)
- | AI: Separate the TAddress and TDomain into a separate module (marc)
- | AI: How to represent YANG “path” statements in UML (scott, johannes, marc)
- | New Discussion Topic: YANG module integrity check mechanism
- | New Discussion Topic: YANG module/model versioning and identify a mechanism to extract all YANG modules that have the proper versions related to a particular IEEE Standard. Review use of YANG Catalog meta-data to support versioning.
- | New Discussion Topic: It would be useful to apply the same structure used by the IEEE parts of the YANG Catalog to create a GitHub Repository for IEEE MIBs

BACKUP SLIDES

Agenda

- | IPR Call
 - | No response
- | YANGsters Update
- | YANG Catalog Issues
- | ITU-T Q14/15 Coordination Update
- | Open Source Pilot
- | Administrative

YANGsters Update

- | Since March Plenary, Have held 4 meetings
- | Actions still needed (to work on in San Diego)
 - | Need a liaison to MEF on .1Qcx and .1ABcu
 - | Discuss the priority of reviewing of MEF and BBF YANG work
 - | Structure of YANG Catalog and documentation issues

YANG Recap (post Pittsburgh)

P802.1Qcp

- ┆ Bridges and Bridged Networks Amendment: YANG Data Model

P802.1ABcu (LLDP YANG Data Model)

- ┆ No update in San Diego --- next update driven by alignment to .1Q and .1Qcx

P802.1CBcv (FRER YANG Data Model and Management Information Base Module)

- ┆ <http://www.ieee802.org/1/files/public/docs2018/cv-PAR-0318-v01.pdf>

P802.1Qcw (YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing)

- ┆ <http://www.ieee802.org/1/files/public/docs2018/cw-gutierrez-status-0318-v01.pdf>

P802.1Qcx

- ┆ YANG Data Model for Connectivity Fault Management

- ┆ <http://www.ieee802.org/1/files/public/docs2018/cx-mholness-YANG-Model-0718-v01.pdf>

P802.1Xck

- ┆ Port-Based Network Access Control—Amendment 2: YANG Data Model

- ┆ <http://www.ieee802.org/1/files/private/ck-drafts/d2/802-1Xck-d2-0.pdf>

Maintenance project for .1ax – creating a YANG module ** Determine if this is the proper place to develop a new YANG module – Follow up with Mick

P802.3.2 (IEEE 802.3cf)

- ┆ YANG Data Model Definitions Task Force

- ┆ http://www.ieee802.org/3/cf/comments/802d3cf_D2_2_proposed_2.pdf

PARs in San Diego

- ┆ 802.1Qcr - Amendment: Asynchronous Traffic Shaping, [PAR Modification](#) and [CSD](#)

- ┆ 802.1Qcz - Amendment: Congestion Isolation, [PAR](#) and [CSD](#)

YANG Catalog Issues

- | Various Action Items discussed on last YANGsters call (see next slide)
- | Overview
 - | Documentation of YANG Catalog
 - | Standard and Experimental branches
 - | Guidelines on using ieee namespace to ensure experimental is not confused with standard
 - | Location/structure of YANG modules as they become part of published Standards
 - | Location/structure for modules that have 802-wide applicability

YANG Catalog

<https://github.com/YangModes/yang>

Open Questions:

- | How/Where to put the YANG work that is in approved Specifications?
 - | The YANG from the published IEEE Standard will move to here → <https://github.com/YangModels/yang/tree/master/standard/ieee/802.1> (out of the draft folder)
- | IEEE owner/commmitter for IEEE branch of YANG Catalog?
 - | An IEEE person needs to be an approver (happens before the yang is merged. IEEE 802.1 person for 802.1 and a .3 person for .3
 - | The merging should continue to be done by the current YANG Catalog owners.
 - | AI: Talk to YANG Catalog owners to get a .1 and/or .3 person as an approver to the IEEE branches
 - | AI: Update Readme.txt in the ../standard/ieee/ branch. Describe a description of the structure with examples
 - | AI: delete the iee802-dot1ab-lldp.yang at the level → <https://github.com/YangModels/yang> (This is done)
 - | AI: explicitly note about experimental -- modules in experimental have no standing in the IEEE, the modules may be superseded by work when there is an approved PAR.
 - | AI: If there is an approved PAR, discuss with the working group about having a guidelines to clean-up the experimental branch (to avoid confusion). Maybe create a historical branch?
 - | AI: Discuss creating a 802 or generic branch at ../standard/ieee level to collect the standard approved generic (cross 802) modules

More Actions

- | Version identification inside the module?
- | Version identification in Git?
 - | Compatibility matrix
 - | Find a way to extract all YANG modules that have the proper versions related to a particular IEEE Standard
 - | E.g. IEEE 801.Qcp – what other IEEE YANG modules are needed

Action

- | Pyang warning on ieee namespace

Guidelines Needed

- | Template for the YANG revision clause
- | Naming conventions --- include version/date in name?
- | Attach source files to PDF of Standard?

More Actions

- | Review use of meta-data in YANG Catalog to help with versioning and revision control

Integrity Check

- | Checksum on a file?

Example: Where to put the TAddress Solution?

- | Marc building new module to hold the Taddress and Tdomain YANG
- | .1Qcx and .1ABcu will be modified to use the capability

Other Issues

- | Not specifically YANG related, however
- | It would be useful to apply the same structure used by the IEEE parts of the YANG Catalog to create a GitHub Repository for IEEE MIBs

Q14/15 Coordination

- | Coordination continues
- | Interesting issue...
 - | How to represent YANG “path” statements in UML

Open Source Pilot

Overview:

- | <http://www.ieee802.org/1/files/public/docs2017/yang-parsons-open-source-motivation-1217.pdf>
- | Pilot Form
 - | <http://www.ieee802.org/1/files/public/docs2017/yangsters-smansfield-meeting-05-pilot-query-1117-v02.docx>

Current Status:

- | No recent activity due to resource constraints
- | AI: Need to have a discussion this week to (at least) document the process currently used that involves GitHub/YANG Catalog

Administrative

- | Website

- | <http://1.ieee802.org/yangsters/>

- | **Mailing List**

- | STDS-802-YANG@listserv.ieee.org

Upcoming YANGsters Calls

- | Last Wednesday of every month from 9AM (US-Eastern) to 10AM (US-Eastern)
- | Next Call are:
 - | Motion in San Diego to continue the 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

MOTIONS

MOTION

- | Authorize once-a-month e-meeting cycle for the YANGsters group. Convening on the last Wednesday of every month from 9AM (US-Eastern) to 10AM (US-Eastern), start 25 July 2018 end 31 October 2018
- | Proposed: Mansfield Second: Rouyer
- | For____Against____Abstain_____

MOTION

- | Approve liaison to MEF:
 - | Announcing the publication of .1Q-2018
 - | Requesting status on the MEF work related to CFM YANG
- | Proposed: Mansfield Second: Rouyer
- | For____Against____Abstain____

- | EC proposed: Parsons Second: Thaler
- | For____Against____Abstain____

MOTION

- | Approve liaison to ITU-T:
 - | Thank them for their liaison
 - | Announcing the publication of .1Q-2018
 - | Sharing the latest draft of .1Qcx
 - | Requesting continued collaboration on CFM and PM
YANG
- | Proposed: Mansfield Second: Rouyer
- | For____Against____Abstain____

- | EC proposed: Parsons Second: Thaler
- | For____Against____Abstain____

GIT STRUCTURE DISCUSSION

Agenda

- | GitHub Structure Discussion

GitHub for YANG Catalog

<https://github.com/YangModels/yang>

Structure
Top Level Directories

Text from last merge
(Not particularly helpful from a
documentation perspective)

experimental

Cronjob - every day pull of ietf draft yang files.

standard

Restructure CFM protocol session data attributes

tools

Allow for errors when consuming events (#388)

vendor

Added backwards compatibility checking to 16.8.1 check-models script

IEEE Structure in YANG Catalog

- | There is an ieee directory under both...
 - | experimental
 - | standard
- | There really is no top-level IEEE specific readme file that provides a description of how experimental and standard are to be interpreted

Experimental Branch

- | Issue with namespace used by YANG modules
 - | Example from experimental branch
 - | module ieee802-dot1q-lldp {
 - | yang-version 1.1;
 - | namespace
 - | "urn:ieee:std:802.1Q:yang:ieee802-dot1q-lldp";
 - | prefix "lldp";
 - | Issue is that someone doing a google search may end up with the experimental module
 - | There should only be one ieee:std:802.1

Standard Branch

- | yang/standard/ieee
 - | 802.1
 - | draft
 - | 802.3
 - | draft
 - | draft
- | Issues:
 - | What is the draft directory for at the top level of standard/ieee?
 - | When standards are published where do the modules go?
 - | Where do YANG files that are 802-wide go?

Standard Branch Suggestion

- | yang/standard/ieee
 - | 802
 - | draft
 - | published
 - | 802.1
 - | draft
 - | published
 - | 802.3
 - | draft
 - | published
 - | ...
- | When IEEE Standard that includes YANG is published. Move the YANG modules to the published branch

Suggested Reorganization for Git

- | yang/experimental/ieee
 - | (no branches here)
- | yang/standard/ieee
 - | draft
 - | 802
 - | 802.1
 - | 802.3
 - | ...
 - | published
 - | 802
 - | 802.1
 - | 802.3
 - | ...

Notes on suggested model

- | experimental branch
 - | has no working group/study group specific structure
 - | namespace used must not be the same as the namespace for a standard model
- | standards branch
 - | when an IEEE Standard is published that contains YANG module(s), the YANG modules contained in that IEEE Standard are moved from the draft branch to the published branch
 - | Create a 802 branch for common YANG modules

More Notes on Structure

- | Discuss with YANG Catalog maintainers about having a IEEE 802 person identified as a committer for the ieee branches

Suggest Solutions!

- | Introduction to structure of the IEEE related parts of the YANG Catalog GitHub
- | Describe IEEE experimental branch
 - | Recommend how to differentiate based on namespace used (using ieee namespace that is the same as the ieee namespace used for standards is troublesome)
 - | Recommend how/whether to move or delete (age) material in experimental
- | Describe IEEE standard branch
 - | Namespace recommendations
 - | Recommendation on structure related to 802-wide YANG
 - | Recommendation on draft vs. published standard branches
- | Should fix all readme files
- | Other issues in the YANGsters update
 - | <http://www.ieee802.org/1/files/public/docs2018/yangsters-smansfield-status-0718-v01.pdf>