

YANGster Update

**September 2018 Interim
Meeting in Oslo, Norway**

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**

Agenda (2018-09 Oslo)

- | IPR Call
- | Introduction
- | Restructure of GitHub
- | Module Naming
- | YANG Catalog Considerations
- | Guidelines
- | Administrative

Introduction

- | Monthly YANGster Calls
 - | [Meeting Notes Found on YANGster Home Page](#)
 - | [Call Information](#)
- | Monthly Coordination Calls ITU-T / IEEE
 - | ITU-T – IEEE YANG Modeling Coordination calls that happen every third Monday of the month.
 - | Dates: Mondays, 2018 Mar 19, Apr 16, May 21, Jun 18, Jul 16, Aug 20, Sep 17;
 - | Time: 2:00 PM - 3:00 PM CET
 - | URL: Join meeting at <https://global.gotomeeting.com/join/570415269>

Repository Guidelines

- | Discussion document for use of GitHub (YANG Catalog) in the IEEE
- | <https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-repository-guidelines/>
- | Use text in document above as basis for new readme files in the GitHub IEEE tree.

New Structure

Below is the structure of the IEEE portion of the repository.

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

- | yang/experimental/ieee
 - | (no branches here)
- | yang/standard/ieee
 - | draft
 - | 802
 - | 802.1
 - | 802.3
 - | 802.11
 - | ...
 - | published
 - | 802
 - | 802.1
 - | 802.3
 - | 802.11
 - | ...

Restructure of GitHub

- | Marc Holness is ready to implement the changes – need to agree on cutover date
- | 802.3 and 802.11 have been contacted and have agreed
- | Scott will contact 802.3 and 802.11 to ensure timing of cut over doesn't conflict
- | Information found in following slide

Module Naming

- | Agreement has been reached on using
 - | dot1
 - | dot3
 - | dot11

- | In the name of the module. Details and examples follow

YANG Module Naming Guidance

`<module-name> ::= <ieee-committee> <dash> <ieee-working-group> <dash> <unique-name>`

- | <https://1.ieee802.org/yangsters/yangsters-guidelines/yang-module-naming-guidelines/>
- | For example 802.1 is using a format like: ieee802-dot1q-bridge.yang. Where “ieee802” is used for the committee, then a dash, then “dot1” followed by the name of the dot1 project (in this case “dot1q”), then a dash, followed by a unique module name. The grammar below captures the guidelines.
- | Discussed with 802.1, 802.3, and 802.11

Module Naming Example

`<module-name> ::= <ieee-committee> <dash> <ieee-working-group> <dash> <unique-name>`

802.1 example: `ieee802-dot1q-bridge.yang`

`<ieee-committee> == ieee802`

`<dot1-specific> == dot1q`

`<unique-name> == bridge`

Naming Actions

- | Scott to submit comments to 802.3.2 YANG after it goes to sponsor ballot
 - | To update the name of the files to change ethernet to dot3

YANG Artifact Naming Guidance

- | In 802.1, the authors of YANG have been following the guidance in https://datatracker.ietf.org/doc/draft-ietf-netmod-rfc6087bis/?include_text=1 which (in section 4.3.1) talks about identifier naming conventions (pasted below). The first YANG module approved by 802.1 (from the P802.1Qcp) can be found here -> <https://github.com/YangModels/yang/blob/master/standard/ieee/802.1/raft/ieee802-dot1q-bridge.yang> and follows the guidance from the IETF.
- | I would like to collect such guidance and include some examples on the YANGsters site. Naming is only one of the issues, modularization, augmentation, use of XPath, and Documentation norms are all reasonable things to have IEEE oriented guidance on. It is important to have a consistent look and feel so the IEEE YANG has is cohesive. Other organizations have different guidelines for the conventions used in developing YANG modules, that are worth reviewing.
- | Action: Capture this information on the YANGsters page

YANG Catalog Guidance Considerations

- | From Rodney:
- | I used the IEEE 802 namespace for the experimental modules that I uploaded, and that was a mistake. Experimental modules are not intended to be shipped in a product, but if that happens, it is important to avoid the IEEE 802 namespace.
- | In the future, I intend to use a vendor namespace for my individual contributions. As for where I upload, I'll ask myself two questions:
 - | Do I intend for the module to be used as the basis for a future 802.1 project that has yet to be approved (i.e. no PAR exists)?
 - | Do I intend to ship a product with the module?
- | If the answers are Yes and No respectively, I'll upload to:
<https://github.com/YangModels/yang/tree/master/experimental/ieee/802.1>
- | Otherwise, I'll upload to: <https://github.com/YangModels/yang/tree/master/vendor>

Suggestion: Capture this on the YANGsters page for guidance....

Action: This guidance needs to be modified to follow the new structure before posting...

Pyang issues

- | Mark Ellison is working on identifying and proposing solutions for the IEEE YANG files in the GitHub that have pyang errors
 - | There are errors in both .1 and .3 YANG files
- | Mark is also going to look at what needs to be done to ensure the meta-data required by the YANG Catalog is done correctly

Administrative

- | Website

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

- | Mailing List

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

Upcoming Meetings

- | 802.1 Interim (**this week**)
 - | Oslo Norway 10-14 September 2018
- | 802.3 Interim (**this week**)
 - | Spokane Washington, USA Week of 10 September, 2018
- | 802 Plenary
 - | Bangkok Thailand 10-15 November 2018

Upcoming YANGsters Calls

- | Last Wednesday of every month from 9AM (US-Eastern) to 10AM (US-Eastern)
- | Next Call are:
 - | 26 September 2018
 - | 31 October 2018
- | 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