

# 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.

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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](mailto:patcom@ieee.org)**

# Agenda

- | Meeting #9 (25 April 2018)
- | Frontmatter (previous slide)
  - | <https://standards.ieee.org/about/sasb/patcom/materials.html>
- | Topics
  - | Review of most recent IEEE and ITU-T Coordination Call
  - | YANG Issues
- | Administrative
  - | YANGsters Webpage
  - | Next YANGsters CALL
  - | Next ITU-T Coordination Call
- | AoB
- | Attendees
- | Backlog

# ITU-T IEEE Modeling Coordination Calls

- | Extranet has been created, details to be shared on the list.
  - | The SharePoint site is at <https://extranet.itu.int/sites/itu-t/studygroups/2017-2020/sg15/wp3/SG15IEEE/Forms/AllItems.aspx> .
  - | Please note that non-members need to create an account from <https://www.itu.int/en/ties-services/Pages/login.aspx> (please choose "I don't know" as ITU status). Then send me your name, account name, and e-mail address, so you can be given permission for the extranet.

# Discussion

## Some points from the ITU – IEEE YANG Coordination calls

- IEEE work plan update: IEEE 802.1Qcp new draft version 2.2 will enter final sponsor ballot process. This draft is available on the private IEEE site
  - <http://www.ieee802.org/1/files/private/cp-drafts/d2/802-1Qcp-d2-2.pdf>
  - <https://github.com/YangModels/yang/blob/master/standard/ieee/802.1/draft/ieee802-dot1q-pb.yang>
  - <https://github.com/YangModels/yang/tree/master/standard/ieee/802.1/draft>
- IETF YANG status update: link to blog posting
  - <http://www.claise.be/2018/03/yang-data-models-in-the-industry-current-state-of-affairs-march-2018/>

# Discussion (cont).

- | Marc: mdIndex's type will be changed from Integer to String, may constraint the length and the set of allowed characters;
- | Marc: maIndex will be change to String too.
- | MaintenanceAssociationComponent: Wait until the next iteration of the CFM YANG is available
- | Bernd reminded that are un-used typedef in the YANG module. Marc will remove them in the next iteration.
- | Will look into how the CoreModel name and identifier attributes be refactored so that they can be used to provide the same semantic of the mdIndex, mdName, maIndex, maName
- | Need to verify whether the MEF 35.x session ID is the same as the Test ID in G.8013 or not.

# YANG Issues

- | Still working on TAddress issue
  - | Consider looking at the usage and determine if the TAddress / TDomain fields are used in practice
  - | David Ball is looking into this issue and status will be reported by the May 21 ITU-T IEEE Coordination meeting
- | Integrating YANG into a Standard that also includes MIBs
  - | Add text that states wherever the term MIB is used, it can mean MIB or YANG (or some other data modeling tool)
  - | See examples from ABcu draft

# Liaison Options

- | Need to Liaison the .1Qcx and .1ABcu work to the MEF
  - | Open up dialog to look at MEF YANG
- | We can prepare the oLS to MEF in June and use an ePoll to approve it before July
- | If the ePoll fails by lack of participation then indeed July

# Administrative

- | Website

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

- | Mailing List

- | [STDS-802-YANG@listserv.ieee.org](mailto:STDS-802-YANG@listserv.ieee.org)

# YANGsters Webpage

- | Information added about
  - | YANG Background
  - | Tools for YANG
- | Much still to do
  - | Gather Guidelines and promote discussion
  - | Reorganize Background material to provide suggestions on what order to read the material

# YANGsters Meeting

- | Meeting Time
  - | Bridge: [join.me/ieee802.1](https://join.me/ieee802.1)
  - | Next Call Wednesday, May 30, 2018 6:00 AM (US-Pacific)
    - | Calls: Mar 28, Apr 25, May 30, Jun 27 (then need to request at next plenary for continuation of calls)
- | Reminder:
  - | Regardless of daylight savings time, the time of the call is 0600 AM US-Pacific time

# Next ITU-T Coordination Call

- | 16 April, 2018
- | Conference call to discuss YANG structure and interoperability between IEEE 802.1, 802.3, and ITU-T Q14/15
- | Details
  - | Dates (2018)
    - | Mondays: Apr 16, May 21, Jun 18, Jul 16, Aug 20, Sep 17;
  - | Time
    - | 1400 PM - 1500 PM CET
  - | URL
    - | <https://global.gotomeeting.com/join/570415269>

# Attendees

## Meeting Attendees:

- | Karthik Chandra Bose (Nokia)
- | Rodney Cummings (NI)
- | Xiaojing Fan (Fujitsu)
- | Stephan Kehrer (Hirshmann)
- | Scott Mansfield (Ericsson)
- | Glenn Parsons (Ericsson)
- | Duane Remein (Huawei)
- | Jessy Rouyer (Nokia)
- | Rami Vishnu (Self – individual)
- | Rob Wilton (Cisco)

**BACKLOG**

# TAddress and TDomain

- IEEE 802.1Q appears to have a tight coupling to SNMP. Using 802.1Q-rev-d2-1.pdf as a reference, there are a number of statements made that tie the standard to SNMP. The crux of the problem is that there is a CFM related TLV that requires the use of an SNMP OID to point to a structure in SNMP that contains a list of the potential address types. For example here is the Managed Object that is used in the TLV and the section specifically about how the management address is defined.

More Information here →



address-tdomain

# TAddress and TDomain

- | More information from Andy Bierman
  - | <https://www.ietf.org/mail-archive/web/netmod/current/msg02457.html>
- | Can we treat (or think of) an identity ref (URI) in YANG as an OID?
  - | A YANG identity is more like an SMIv2 OBJECT-IDENTITY.
  - | The encoding is nothing like OIDs. It is more of a QName than an OID. Each identity name is unique within the module that contains the definition, so an identity is fully qualified as `<module-name>:<identity-name>`
  - | The OID used as a object identifier is actually an XPath absolute expression,
  - | using the YANG build-in type instance-identifier