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

- IPR Call
  - No response
- YANGsters Status
- Topics
  - YANGsters Update
  - SNMP OID Solution
  - ITU-T Q14/15 Coordination Meeting Update
  - Known YANG issues for coordination
  - Open Source Pilot
- Administrative

NOTE: Notes/minutes highlighted in Yellow

YANGsters Update

- Since March Plenary, Have held 3 meetings
  - Actions still needed
    - Need a liaison to MEF on .1Qcx and .1ABcu
    - Need to prioritize reviewing MEF YANG work
    - Need to continue to leverage BBF YANG work

YANG Recap from Pittsburgh Interim

- P802.1Qcp
  - Bridges and Bridged Networks Amendment: YANG Data Model
- P802.1ABcu
  - LLDP YANG Data Model
  - cu-mansfield-draft-YANG-0518-v01.pdf
- P802.1Qcw
  - YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing
- P802.1Qcx
  - YANG Data Model for Connectivity Fault Management
  - http://www.ieee802.org/1/files/public2018/cx-mholness-YANG-model-0518-v01.pdf
- P802.1Xck
  - Port-Based Network Access Control—Amendment 2: YANG Data Model
- 802.1Qci & P802.1Qcr
  - Cyclic Queuing and Forwarding along with Asynchronous Traffic Shaping
  - http://www.ieee802.org/1/files/public/docs2018/cr-specht-parmodification-0518-v05.pdf
- P802.3.2 (IEEE 802.3cf)
  - YANG Data Model Definitions Task Force
  - http://www.ieee802.org/3/cf/public/may18/yang_tf_agenda_01_0518.pdf
- NEW PAR
  - P802.1CBcv (FRER YANG Data Model and Management Information Base Module)
  - http://www.ieee802.org/1/files/public/docs2017/cv-draft-PAR-1017-v03.pdf

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/committer 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
    - 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

SNMP OID Solution

TAddress

TDomain

```
case udp-ipv4 {
 description
  "Represents an IPv4 UDP transport address consisting of an
   IPv4 address, and a port number.";
reference
  "RFC3419 TRANSPORT-ADDRESS-MIB.transportDomainUdpIpv4";

leaf domain-udp-ipv4 {
  type yang:object-identifier-128;
  must ". = "1.3.6.1.2.1.100.1" {
    description
      "The value of the OID for this domain must be "1.3.6.1.2.1.100.1";
  }
  default "1.3.6.1.2.1.100.1";
  description
    "The domain type transportDomainUdpIpv4 corresponding to OID 1.3.6.1.2.1.100.1";
}

leaf udp-ipv4-address {
  type inet:ipv4-address;
  description
    "UDP IPv4 address.";
}

leaf udp-ipv4-port {
  type inet:port-number;
    description
      "UDP IPv4 port.";
}
}
```

SNMP OID Action Item

- Marc building new module to hold the Taddress and Tdomain YANG
- .1Qcx and .1ABcu will be modified to use the capability
- If other OIDs are needed they should be added to the new module being defined
  - AI: Provide Marc with other TDomain mappings

Q14/15 Experts Interim on YANG

- ITU-T Q14/15 is holding YANG coordination calls
  - Conference calls to discuss YANG structure and interoperability between IEEE 802.1, 802.3, and ITU-T Q14/15
  - Details
    - account: tsbsg15@itu.int
    - password: gotosg15
    - The third Monday of every month March – September inclusive 1300-1400 Geneva Switzerland Time
    - First meeting was 19 March 2018
- Extranet Information
  - Share point site
    - https://extranet.itu.int/sites/itu-t/studygroups/2017-2020/sg15/wp3/SG15IEEE/Forms/AllItems.aspx
  - Non-members need to create an account at
    - https://www.itu.int/en/ties-services/Pages/login.aspx (please choose "I don't know" as ITU status).

Q14/15 Coordination

- Main topics are related to how ITU-T YANG models can use IEEE 802.1Qcx CFM capabilities
- Q14/15 has created a version of 802.1Qcx in Eclipse Papyrus to help ITU-T people understand the CFM and Bridge models from the ITU-T

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

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:
  - TBD – Need to ask for more in San Diego (if desired)
- 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

Attendees

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