

# **YANGster Meeting Week 25 2020**


## **16 June 2020**

[Webex Link](#)

Meeting number: 795 139 311

Password: gPZhmrZc528

# Agenda

- | 16 June 2020 (week 24)
  - | Preamble (5) 
  - | Update on Hot Issues (10)
  - | New Issues (10)
  - | Update on Pretty Printing
  - | Continue Maintenance Discussion (35)
  - | AoB

# Hot Issues

- | Active
  - | MAC Address Format
    - | See next slide
  - | Semantics of read-write in YANG
  - | Press Release Discussion
  - | IEEE P802f Update
  - | YANG Revisions Update
  - | Update on Tooling Guidance
    - | Add Confd (Mark E's material to be included)
  - | Use of Git workflow document created

# mac-address YANG

- | Coordination meeting was held with IETF on 15 June
- | Rob Wilton from the IETF was tagged as the coordination point for the IEEE on this issue
- | Email Discussion recap (next slide)

# mac-address YANG Options

Option 1: Propagate the current situation: IETF modules use the IETF mac-address yang definition, IEEE 802.1 modules use the IEEE mac-address yang definition, IEEE 802.3 continues to use the IETF mac-address yang definition

Actions needed:

1) .1Qcz updates the draft yang to point to the IEEE mac-address yang definition

Option 2: Align IEEE 802 and leave IETF alone: IETF modules use the IETF mac-address yang definition and the IEEE works to align internally.

Actions needed:

1) IEEE 802.3 is contacted and a discussion on changing to the IEEE mac-address yang definition and deprecate the IETF mac-address yang usage.

2) .1Qcz updates the draft yang to point to the IEEE mac-address yang definition

Option 3: Align the IEEE 802 mac-address yang with the IETF mac-address yang

Actions needed:

1) Fix 802 to move the ':' format to historic

2) Open and fix any 802.1 YANG to point to IETF YANG definition for mac-address

3) Add a note that ':' and '-' are semantically equivalent and should match when doing a string compare

4) Fix the descriptions in IETF and IEEE to indicate the case used for the hexadecimal representation (so string compare can work)

Option 4: Deprecate the IETF mac-address definition and adopt the IEEE mac-address yang

This is here for completeness but has already been dismissed by the IESG and YANG Doctors as too disruptive to existing deployments. Many other groups like BBF, ONF, ITU-T leverage the IETF modules.

Option 5: any others?

Until we get closure on this, I think ...

1. We need to align in IEEE (802). I don't think being inconsistent within IEEE is a good idea. So, I think we should reference the mac-address format as defined in ieee802-types.yang.
2. If we (IEEE) need to change, then we can then change the type definition found in ieee802-types.yang. If all the IEEE modules are using that type definition, then everyone gets the change.
  - o NOTE: There may undoubtedly some backwards compatibility concerns here. However, I believe no matter which way we turn, we will encounter them.

# New Issues

- | Identities with Multiple Bases
- | Naming guidelines

# Identities with Multiple Bases

- | <https://github.com/haomianzheng/IETF-ACTN-YANG-Model/pull/65>
- | Slides 3 & 4
  - | <https://datatracker.ietf.org/meeting/interim-2020-ccamp-01/materials/slides-interim-2020-ccamp-01-sessa-05-l1-types-and-otn-topology.pptx>
- | Looking to determine if Identities with Multiple Bases is appropriate for the problem space
- | Example:



WordPad  
Document

# Naming Guidelines

- | Discussion related to abbreviations vs. not-abbreviations in YANG trees
- | For example (from an email discussion with Don & Paul)
- | Looking at the Qcz extension tlv yang
  - | create /lldp/port/application-priority-tlv-extension/application-priority-table/application-priority
  - | Could something like:
  - | create /lldp/port/application-priority-tlv/table/priority
- | Evaluate if using the context of the tree could help reduce the length of the named elements



# Maintenance Discussion

- | <http://www.ieee802.org/1/files/public/docs2019/maint-specht-yang-comments-0919-v01.pdf>
- | Status related to 11b and 12
- | Continue with 13

# AoB

# Preamble

# ELECTRONIC MEETING INTRODUCTION

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# INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

**At the beginning of each standards development meeting the chair or a designee is to:**

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
  - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
  - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
  - Instruct the Secretary to record in the minutes of the relevant meeting:
    - That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).
    - Ask participants to register attendance in IMAT: <https://imat.ieee.org>

# IEEE SA COPYRIGHT POLICY

**By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.**

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

# IEEE SA COPYRIGHT POLICY

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual

- IEEE SA Copyright Policy, see  
Clause 7 of the IEEE SA Standards Board Bylaws  
<https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7>  
Clause 6.1 of the IEEE SA Standards Board Operations Manual  
<https://standards.ieee.org/about/policies/opman/sect6.html>

- IEEE SA Copyright Permission

- <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip>

- IEEE SA Copyright FAQs

- <http://standards.ieee.org/faqs/copyrights.html/>

- IEEE SA Best Practices for IEEE Standards Development

- [http://standards.ieee.org/develop/policies/best\\_practices\\_for\\_ieee\\_standards\\_development\\_051215.pdf](http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf)

- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)

- <https://standards.ieee.org/about/policies/opman/sect6.html>

# Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- **Show slides #1 through #4 of this presentation**
- **Advise the WG attendees that:**
  - IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
  - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
  - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
  - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
  - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.



# 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)**

# Participation in IEEE 802 Meetings

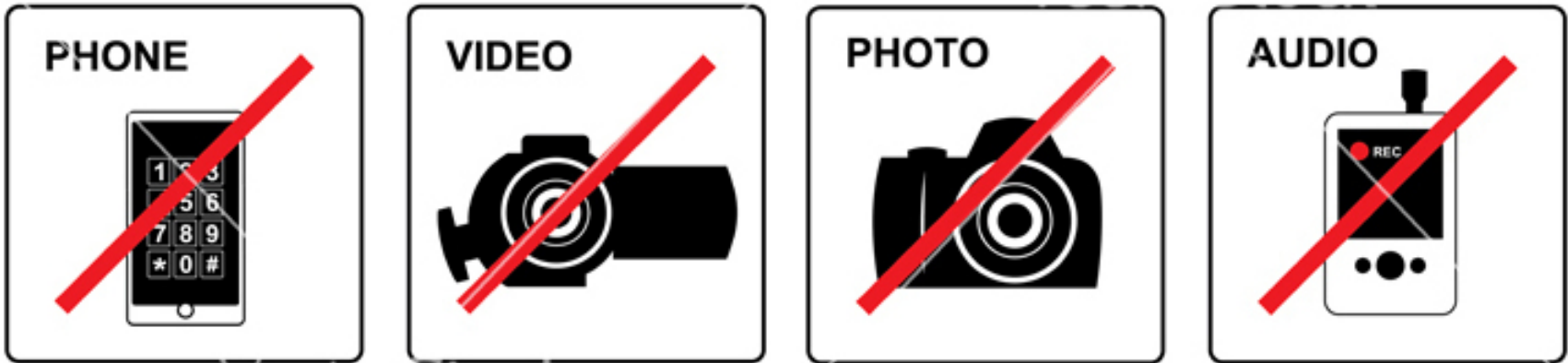
**Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis**

- **Participants in the IEEE standards development individual process shall act based on their qualifications and experience. ([https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1)**
- **IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)**
- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see [https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.**

**By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.**

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

# Decorum



- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (SASB Ops Manual 5.3.3.5)
- Photography or recording by permission only (SASB Ops Manual 5.3.3.4)
- Cell phone ringers off please

# REGISTER ATTENDANCE FOR MINUTES

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Please register your attendance at IMAT:

<https://imat.ieee.org>

This requires a free IEEE Account with minimal data provided  
Please sign up if you do not yet have IEEE Account

This is required for minutes.

The data from IMAT is used as the meeting participant list

# ELECTRONIC MEETING GUIDELINES

## Please provide your information

- Full name
- Affiliation, as part of your name, e.g., in brackets
- (may provide them in the chat window)

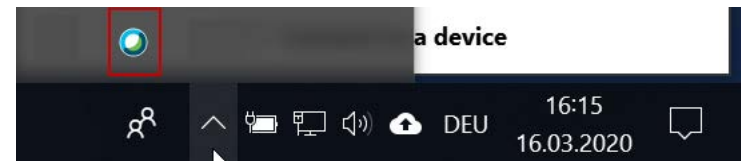
## Please **mute** yourself when you are not speaking

## Please put yourself into the queue “at the mic” via the Chat

## Changing your data in WebEx

### Step 1

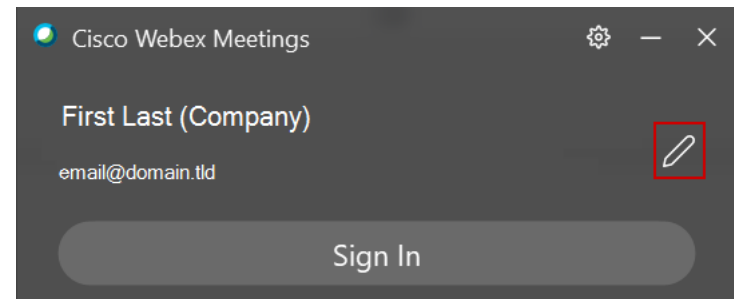
- Go to the "Display hidden icons" arrow in the Windows task bar



- Right-click on the Webex icon and select "Open Cisco Webex Meetings"

### Step 2

- In the Webex Windows that opens, Click on the pencil icon next to your display information





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