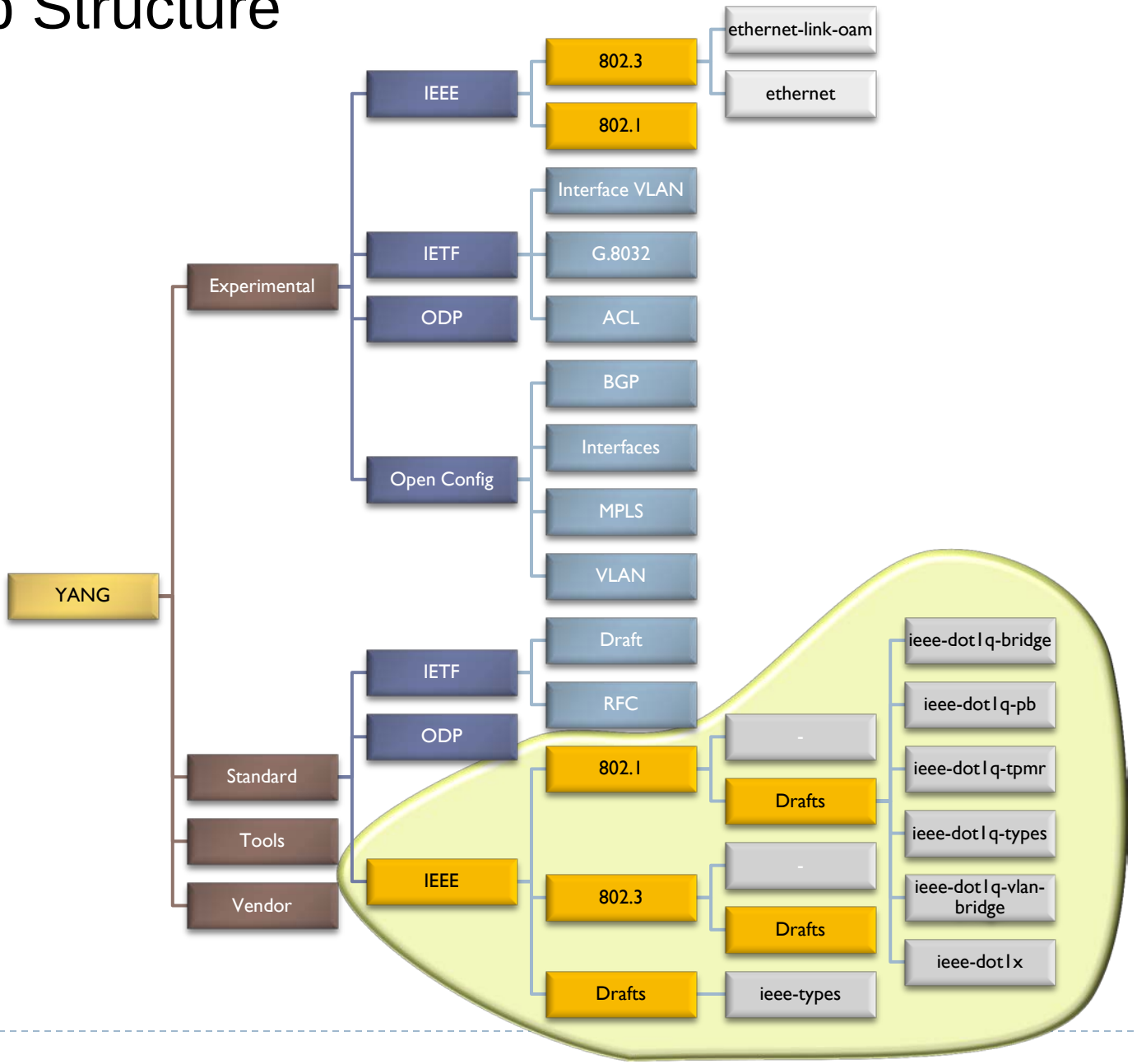
IEEE 802.1Qcp YANG Update Summary

IEEE 802.1Qcp YANG Data Model
802.1WG
09-13 Nov 2015

Overview

- 802.1X and 802.1Q YANG modules are now deposited in GitHub (https://github.com/YangModels/yang)
  - The "experimental/ieee" branch is intended for IEEE work that does not yet have a Project Authorization Request (PAR)
  - The "standard/ieee" branch is intended for approved PARs, for drafts as well as published standards
  - Within "experimental/ieee" and "standard/ieee", use a branch name with the number of the IEEE Working Group (e.g. "802.1", "1588")
  - GitHub “committer” for IEEE “standard” branches is an IEEE member (e.g., me for now)
    - The role of the “committer” is to approve changes and content to the respective branch
- Starting to create draft text for the Amendment

GitHub Structure



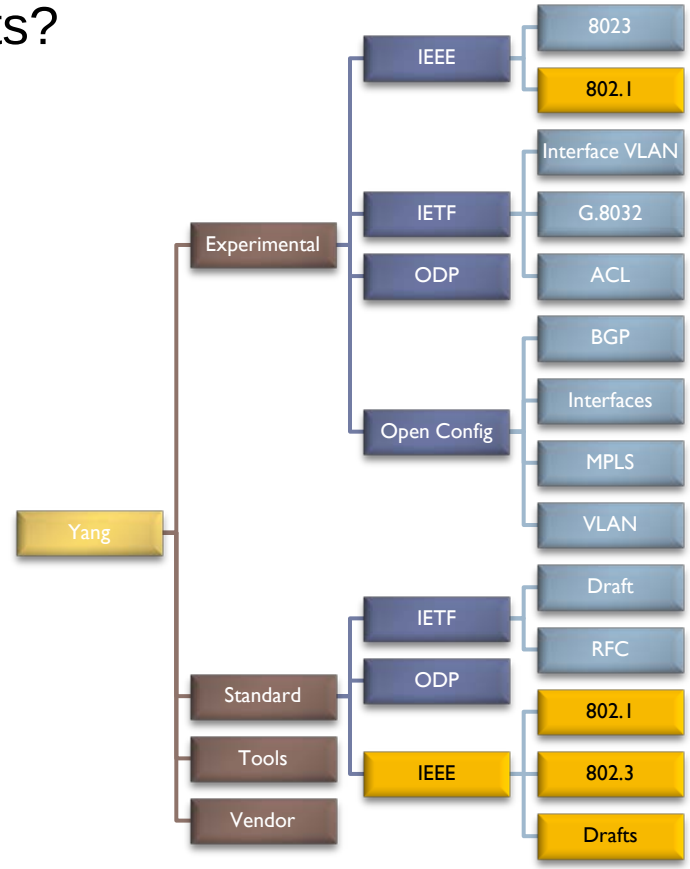
Outstanding Areas

Outstanding Areas

1. Namespace definition used by the IEEE 802 YANG module definitions
2. Should IEEE align with the IETF YANG module definition formatting rules?
   - For example, should maximum line length be 70 characters?
   - Full adherence to IETF draft rfc6087bis (e.g., found at https://tools.ietf.org/html/draft-ietf-netmod-rfc6087bis-04)
3. ✓ IEEE ownership of the IEEE-TYPES YANG module
   - In addition, both YANG modules *ietf-yang-types* as well as *ieee-types* define the mac-address type

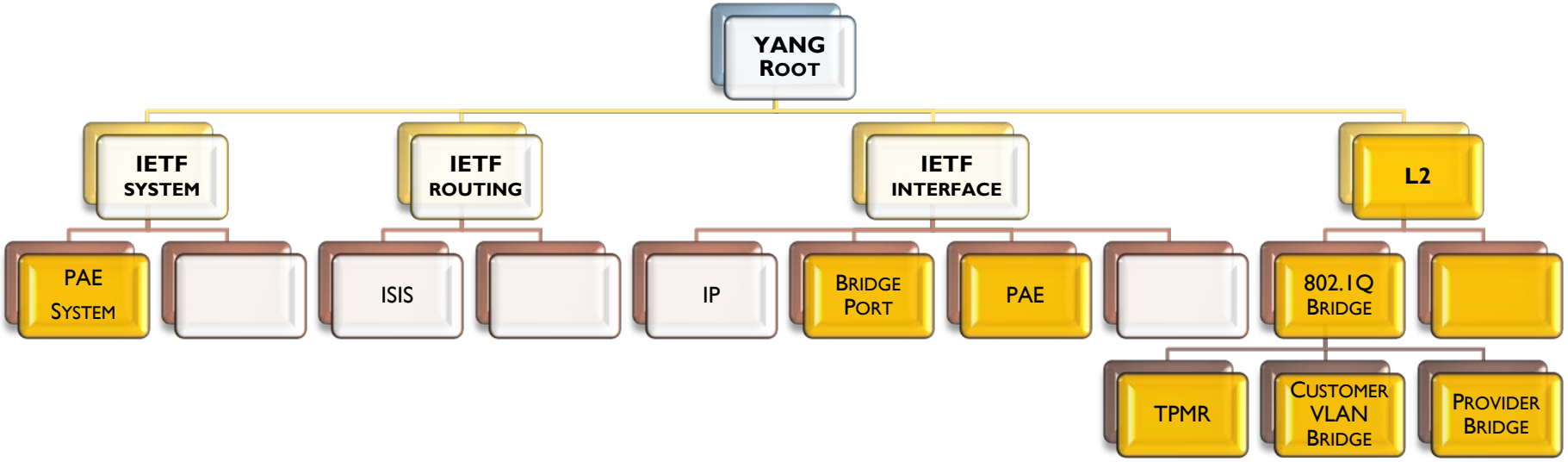
Outstanding Areas

4. Placement of the YANG modules within GitHub (https://github.com/YangModels/yang)
   - Which directory within GitHub should we use for the IEEE 802.1 YANG drafts?



Outstanding Areas

5. General YANG structure: Should the definition of the BRIDGE node be within a generalized YANG hierarchy?
   - That is, should it "augment" a root YANG root node (e.g., system)?
   - Or should we create an IEEE-Bridge (or something similar) root node in the YANG hierarchy?



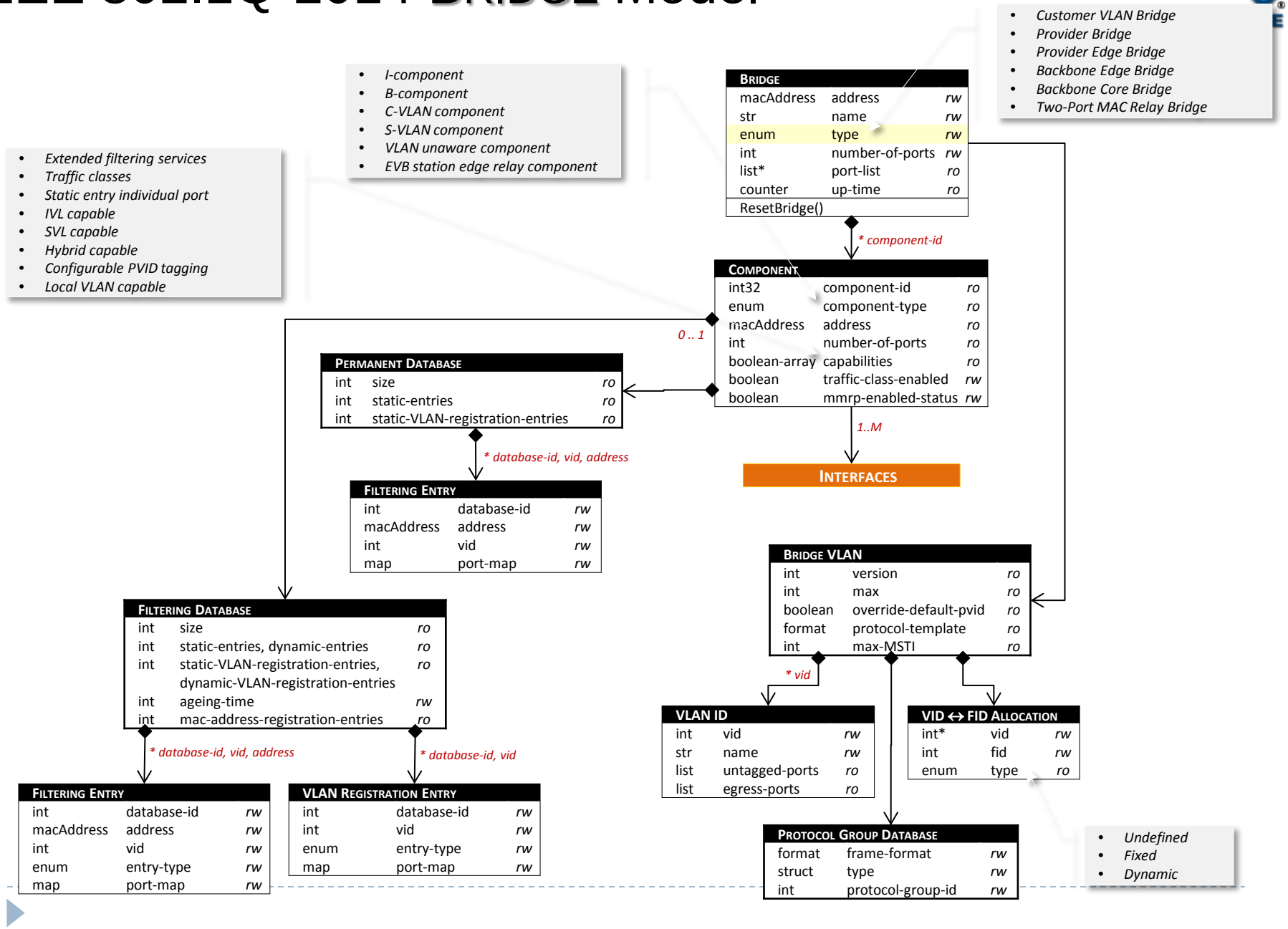
Outstanding Areas

6. General YANG model "default" settings (assuming there should be a default configuration value)
   a) Should traffic class enabled have default of *True*?
   b) Should MMRP enabled status have default of *True*?
   c) Should default priority associated with the BRIDGE PORT be *0*?
   d) Should default PCP selection be *8P0D*?
   e) Should use DEI have a default of *False*?
   f) Should drop encoding have a default of *False*?
   g) Should acceptable frames have a default of *admit-all-frames*?
   h) Should enable ingress filtering have a default of *False*?
   i) Should restricted VLAN registration have a default of *False*?
   j) Should VID translation table have a default of *False*?
   k) Should egress VID translation table have a default of *False*?
   l) Etc.

Outstanding Areas

7. ✓ Should "BRIDGE PORTS" be an augmentation of the IETF INTERFACE model?
8. Rationalization of YANG model definitions for applications
   a) LAG interfaces
   b) Two-Port MAC Relay Bridges
   c) Customer VLAN Bridges
   d) Provider Edge Bridges
   e) CFM Interactions
   f) Etc.
9. ✓ What is the correct association (or ownership relationship) of the BRIDGE VLAN object to the BRIDGE or BRIDGE COMPONENT?

IEEE 802.1Q-2014 BRIDGE Model



Outstanding Areas

10. When configuring a BRIDGE, should the BRIDGE/COMPONENT object point to the INTERFACES (i.e., BRIDGE PORTS) or should the INTERFACES (i.e., BRIDGE PORTS) point to the BRIDGE/COMPONENT or both?