Interface extensions YANG & VLAN sub-interface YANG
Status update

draft-ietf-netmod-intf-ext-yang-04 &
draft-ietf-netmod-sub-intf-vlan-model-01

Rob Wilton (Cisco)
rwilton@cisco.com
IETF 98, NETMOD WG
draft-ietf-netmod-intf-ext-yang status:

• Feedback received from Lada and Acee
  More feedback welcome - it would be good to get this module to WGLC

• Most comments have been addressed:
  Open issues are covered on the next few slides.

• Also added a invalid destination MAC address drop counter to the Ethernet module.

• Would like to add Ethernet histogram counters (e.g. similar to the RMON MIB), which can’t be standardized in 802.3 (will cover in Thursday’s session)
Forwarding Mode Leaf - Open Issue 1

Defines whether the forwarding mode is:
- optical, layer 2, or network layer
- Useful for some devices to optimize hardware programming
- Also would allow models to check configuration against forwarding layer constraints (e.g. don’t apply an L2 ACL if the interface has been configured as L3 forwarding)

Issue:
- Questions have been raised on the naming, and definition of this leaf:
- Should we keep this leaf in the model?
Bandwidth Parameter - Open Issue 2

Issue:
• Should the interface bandwidth parameter be defined here?

Proposed resolution:
• Check with RTGWG YANG Design Team, or otherwise remove this leaf.

Alternative resolution:
• Rename from “bandwidth” to “reservable-bandwidth”
• Align definition to maximum-reservable-bandwidth (RFC 3630, OSPF TE extensions)
Dataplane Loopback - Open Issue 3

Issue:

• Do we align dataplane loopback with the loopback configuration?

• Loopback is currently limited to physical interface loopback (internal, line, external)

• Could possibly align with L2 dataplane loopback (which is considerably more complex)

• Should the loopback configuration be ephemeral configuration rather than standard configuration?
draft-ietf-netmod-sub-intf-vlan-model-01
status:

Recently adopted as WG document
Minor updates only
Only one issue that I would like input on (now, later, or on email).
VLAN tag structure Issue

Issue: Is using an array the best choice here, rather than hard coded first tag, second tag, etc.

Current:
```xml
augment /if:interfaces/if:interface/if-cmn:encapsulation/
    if-cmn:encaps-type:
    +--:(vlan)
        +--rw vlan
            +--rw tag* [index]
                +--rw index      uint8
                +--rw dot1q-tag
                    +--rw tag-type   dot1q-tag-type
                    +--rw vlan-id    ieee:vlanid
```
Issue 1 part 2

Alternative:

augment /if:interfaces/if:interface/if-cmn:encapsulation/

    if-cmn:encaps-type:

        +--:(vlan)

        +--rw vlan

            +--rw outer-tag

                |  +--rw tag-type dot1q-tag-type

                |  +--rw vlan-id ieee:vlanid

            +--rw second-tag

                +--rw tag-type dot1q-tag-type

                +--rw vlan-id ieee:vlanid
Next steps

Further reviews and comments please
Neither draft is particularly long, and it would be good to get them finished

Any questions?