Interface extensions YANG & VLAN sub-interface YANG Status update

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

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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:

```
 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?