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DRAFT YANG FOR P802.1ABcu

IEEE 802.1 Interim

September, 2017

INTRODUCTION

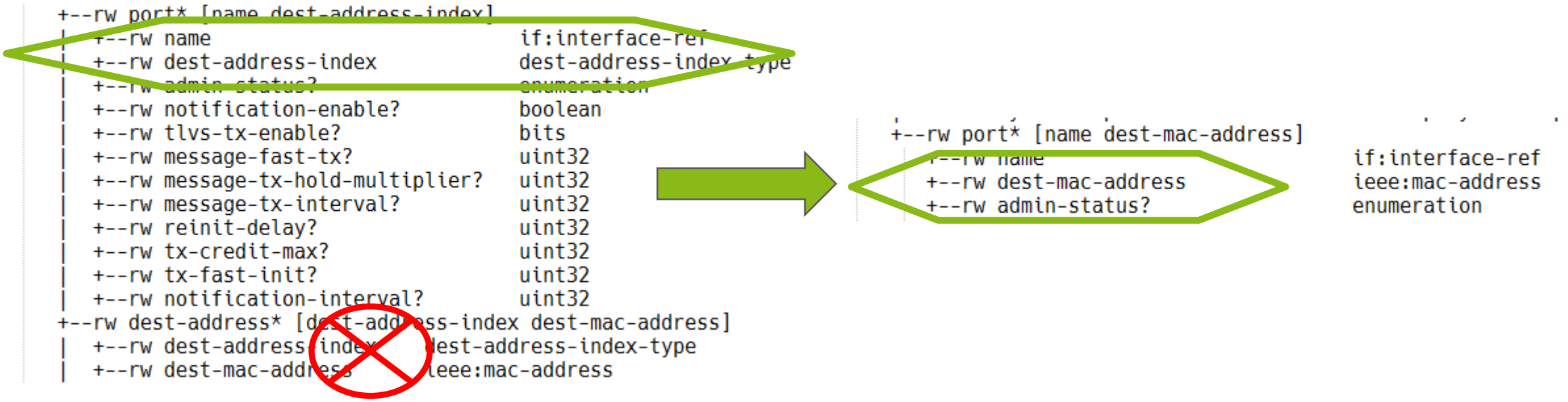
- Draft model follows IEEE Std 802.1AB-2016”
- NMDA Datastore guidelines followed
- Removed mapping table and use dest-mac-address as the key
- Moved operational data remote-systems-data to port
- Discussion and further work

NMDA DATASTORE GUIDELINES FOLLOWED

- NMDA
  - Documents
    - Network Management Datastore Architecture
    - Guidelines for YANG Module Authors (NMDA)
  - Provides guidelines and an architectural framework for datastores
  - The IETF strongly advises following this approach
- P802.1ABcu has been modified to support the approach

REMOVE MAPPING TABLE

- Removed mapping table dest-address, port and management-address-tx-port
  - using dest-mac-address as the key



Old Version

New Version

MOVED REMOTE-SYSTEMS-DATA

- Moved remote-systems-data into port
- Note: "…" means information removed for display purposes only.

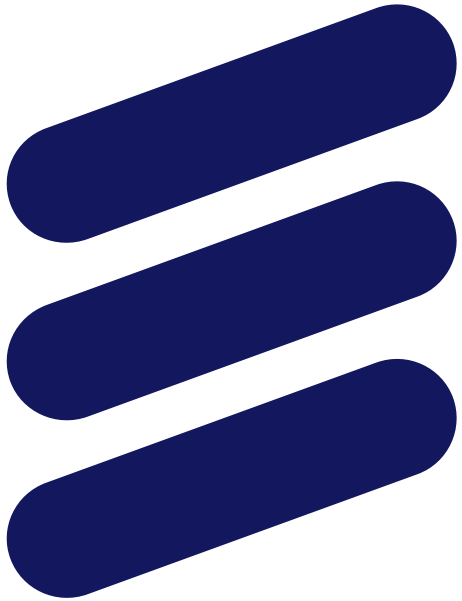
```
      +--rw port* [name dest-mac-address]
...
         +--ro remote-systems-data* [time-mark remote-index]
            +--ro time-mark                          yang:timeticks
            +--ro remote-index                       uint32
            +--ro chassis-id-subtype?                lldp:chassis-id-subtype
            +--ro chassis-id?                        lldp:chassis-id-type
            +--ro port-id-subtype?                   lldp:port-id-subtype
            +--ro port-id?                           lldp:port-id-type
            +--ro port-desc?                         string
            +--ro system-name?                       string
            +--ro system-description?                string
            +--ro system-capabilities-supported?     lldp:system-capabilities-map
            +--ro system-capabilities-enabled?       lldp:system-capabilities-map
            +--ro management-address* [address-subtype address]
            |  +--ro address-subtype    identityref
            |  +--ro address            lldp:man-addr-type
            |  +--ro if-subtype?        lldp:man-addr-if-subtype
            |  +--ro if-id?             uint32
            +--ro remote-unknown-tlv* [tlv-type]
            |  +--ro tlv-type    uint32
            |  +--ro tlv-info?   binary
            +--ro remote-org-defined-info* [info-identifier info-subtype info-index]
               +--ro info-identifier    binary
               +--ro info-subtype       uint32
               +--ro info-index         uint32
               +--ro remote-info?       binary
```

DISCUSSION

- Concerns about the relationship of LLDP, network instance and interface
- Work in IETF (Routing working group draft on device model)
  - https://datatracker.ietf.org/doc/draft-ietf-rtgwg-device-model/
  - Has the following description
    - The bind-lne-name and bind-network-instance-name leaves provide the association between an interface and its associated LNE and NI (e.g., VRF or VSI).

MODEL

- Attached to the PDF file
  - YANG
  - TREE
- In Acrobat Reader
  - View->Show/Hide->Navigation Panes->Attachments



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