IETF Network Slice Service YANG Model

draft-ietf-teas-ietf-network-slice-nbi-yang

TEAS WG
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Summary of issues addressed since IETF116

Rev-06 summary:
1. Joel’s comments on “isolation”
   • Only keep “traffic isolation”. Remove description of “interference isolation” since it is not measurable.
2. Adrian’s comments on “slo-sle-policy”
   • Separate “sle” and “slo” policy
   • Correct definition of “mtu” and “security”

Working on:
1. Med’s comments
   • When both ac-svc-name and attachment circuit attributes are defined, the ac-svc-name takes precedence.
   • YANG module definition improvement using existing IETF references for RFCs and Units. Also improving identity description.
   • Change leaf incoming-bw-value from te-types:te-bandwidth” type to a gauge64 value and change name to pe-to-ce-bandwidth
   • Remove the reference and description of I-D.liu-teas-transport-network-slice-yang

https://github.com/lana-wu/ietf-ns-nbi/issues
Issue#1 Custom topology definition

- Currently our NBI Yang model has an attributed "custom-topology-ref" which refers a prebuilt network topology
- **Issue:** Rather than a reference, draft-liu-teas-transport-network-slice-yang augments RFC8345 to the NS Service Model.
  - However, new draft-boucadair-teas-ietf-slicing-overview suggests the reference is useful for SAP (RFC9408 ) as a customized topology
- **Proposal:** Keep current attribute "custom-topology-ref" since it is flexible for SAP or VN or other abstract models as the custom topology.

RFC9408 Data Model for Service Attachment Points (SAPs)  
draft-liu-teas-transport-network-slice-yang-07
## Issue#2 SDP QoS attributes

(Raised by Med)

- **Issue**: For both ‘incoming-qos-policy’ and ‘outgoing-qos-policy’ the model does not allow to control the bw per QoS class, port, etc. (RFC 9291).

- **Proposal**: Replace the existing `incoming-qos-policy` and `outgoing-qos-policy` with bandwidth definition on RFC 9291 (see below, i.e., replace it with right hand side definition)

- **Action**: Needs more discussion.

```plaintext
  |  +--rw incoming-qos-policy
  |     |   |  +--rw qos-policy-name?  string
  |     |   |  +--rw rate-limits
  |     |   |     |  +--rw cir?   uint64
  |     |   |     |  +--rw cbs?   uint64
  |     |   |     |  +--rw eir?   uint64
  |     |   |     |  +--rw ebs?   uint64
  |     |   |     |  +--rw pir?   uint64
  |     |   |     |  +--rw pbs?   uint64
  |  +--rw outgoing-qos-policy
  |     |   |  +--rw qos-policy-name?  string
  |     |   |  +--rw rate-limits
  |     |   |     |  +--rw cir?   uint64
  |     |   |     |  +--rw cbs?   uint64
  |     |   |     |  +--rw eir?   uint64
  |     |   |     |  +--rw ebs?   uint64
  |     |   |     |  +--rw pir?   uint64
  |     |   |     |  +--rw pbs?   uint64
```

```plaintext
  |  +--rw svc-pe-to-ce-bandwidth
  |     |   |  +--rw pe-to-ce-bandwidth* [bw-type]
  |     |   |     |  +--rw bw-type    identityref
  |     |   |     |  +--rw (type)?
  |     |   |     |     |  +--:(per-cos)
  |     |   |     |     |     |  +--rw cos?    [cos-id]
  |     |   |     |     |     |     |  +--rw cos-id  uint8
  |     |   |     |     |     |     |     |  +--rw cir?    uint64
  |     |   |     |     |     |     |     |  ...
  |     |   |     |     |     |     |     |  +--:(other)
  |     |   |     |     |     |     |     |  +--rw cir?    uint64
  |     |   |     |     |     |     |     |  +--rw cbs?    uint64
  |     |   |     |     |     |     |     |  +--rw eir?    uint64
  |     |   |     |     |     |     |     |  ...
  |     |   |     |     |     |     |     |  +--rw pir?    uint64
  |     |   |     |     |     |     |     |  +--rw pbs?    uint64
  |  +--rw svc-ce-to-pe-bandwidth
  |     |   |  +--rw ce-to-pe-bandwidth* [bw-type]
  |     |   |     |  +--rw bw-type    identityref
  |     |   |     |  +--rw (type)?
  |     |   |     |     |  +--:(per-cos)
  |     |   |     |     |     |  +--rw cos?    [cos-id]
  |     |   |     |     |     |     |  +--rw cos-id  uint8
  |     |   |     |     |     |     |     |  +--rw cir?    uint64
  |     |   |     |     |     |     |     |  +--rw cbs?    uint64
  |     |   |     |     |     |     |     |  ...
  |     |   |     |     |     |     |     |  +--rw pir?    uint64
  |     |   |     |     |     |     |     |  +--rw pbs?    uint64
```
Next step

- Resolve the comments
- Asking for WGLC
Thank You!