Framework and Data Model for OTN Network Slicing

draft-ietf-ccamp-yang-otn-slicing-11

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Draft Updates

- Addressed review comments (Issue #55)
- Adopted and aligned with the NRP concept for OTN slicing
- Defined OTN NRP realization based on direct marking on native OTN TE topologies, and eliminated the option of creating abstract topologies
  - Example figure was updated accordingly
- Additional editorial improvements to the text.

YANG Model Updates

- YANG model update
  - Rename “slice-id” as “nrp-id” since the MPI model is used for NRP realization.
- Remove the "*sliced-link-ref*" from the MPI model
  - Because marking of NRP identifiers is directly on the link in the native topology, so no need to specify the link reference

```
module: ietf-otn-slice-mpi

  augment /nw:networks/nw:network/nt:link/tet:te
            /tet:te-link-attributes:
    +--rw (otn-nrp-granularity)?
       +--:(link)
       |  +--rw nrp-id?   uint32
       +--:(link-resource)
          +--rw nrps* [nrp-id]
             +--rw nrp-id                    uint32
             +--rw (technology)?
                +--:(otn)
                   +--rw (nrp-bandwidth)?
                      +--:(containers)
                      |  +--rw odulist* [odu-type]
                      |     +--rw odu-type    identityref
                      |     +--rw number?     uint16
                      +--:(time-slots)
                         +--rw otn-ts-num?   uint32
```

Open Issue: Support for hierarchical NRP (#58)

- draft-li-composite-slice proposes the solution for the realization of Multi-domain Network Slices and hierarchical network slices
- It is unclear if it is describing scenarios for hierarchical network slicing, or for hierarchical NRP
- The solution presented in draft-ietf-ccamp-yang-otn-slicing supports multi-domain NRP and hierarchical slicing (see Fig. 3). However, hierarchical NRP (i.e. hierarchical NRP ids) is currently not supported.
- Further discussion is needed from draft-li to determine if hierarchical NRP needs to be supported for also OTN slicing

Next Steps

- Address open issue
- Continue the draft review process
- Authors believe that once the remaining issues are addressed the draft is stable enough for WG LC

* GitHub Repo

  https://github.com/ietf-ccamp-wg/ietf-ccamp-yang-otn-slicing

* CCAMP Bi-weekly Call: Thu 10-11am EST

Thank You!