

A Yang Data Model for WSON Optical Networks

draft-ietf-ccamp-wson-yang-07.txt

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Updates for this version (07)

- NMDA Compliant Model
- Fixed the augmentation references for node and link per TE-topology module changes:

```
augment "/nd:networks/nd:network/nd:node/tet:te"  
  + "/tet:te-node-attributes" {  
    when "/nd:networks/nd:network/nd:network-types"  
      +"/wson-topology" {  
      description  
        "This augment is only valid for WSON.";  
    }  
    description "WSON Node augmentation.";  
    uses wson-node-attributes;  
    uses resource-pool-attributes;  
  }
```

```
augment "/nd:networks/nd:network/lnk:link/tet:te"  
  + "/tet:te-link-attributes" {  
    when "/nd:networks/nd:network/nd:network-types"  
      +"/wson-topology" {  
      description  
        "This augment is only valid for WSON.";  
    }  
    description "WSON Link augmentation.";  
    uses wson-link-attributes;  
    uses available-wavelength;  
  }
```

IETF-WSON-TOPOLOGY

Module

```
module: ietf-wson-topology
  augment /nd:networks/nd:network/nd:network-types:
    +--rw wson-topology!
  augment /nd:networks/nd:network/nd:node/tet:te/tet:te-node-
attributes/tet:connectivity-matrices/tet:connectivity-matrix:
  +--rw matrix-interface* [in-port-id]
    +--rw in-port-id      wson-interface-ref
    +--rw out-port-id?   wson-interface-ref
  augment /nd:networks/nd:network/lnk:link/tet:te/tet:te-link-attributes:
  +--rw channel-max?          int32
  +--rw default-frequency?   decimal64
  +--rw channel-spacing?     decimal64
  +--rw wavelength-available-bitmap*  binary
  augment /nd:networks/nd:network/nd:node/tet:te/tet:te-node-attributes:
  +--rw wson-node
  | +--rw device-type?  devicetype
  | +--rw dir?         directionality
  | +--rw interfaces* [name]
  |   +--rw name          string
  |   +--rw port-number?  uint32
  |   +--rw input-port?   boolean
  |   +--rw output-port?  boolean
  |   +--rw description?  string
  +--rw resource-pool* [resource-pool-id]
    +--rw resource-pool-id  uint32
    +--rw pool-state?      boolean
    +--rw matrix-interface* [in-port-id]
      +--rw in-port-id      wson-interface-ref
      +--rw out-port-id?   wson-interface-ref
```

Current Status & Next Steps

- Need to align with the latest updates from [TE-Topo] draft if any.
- Any comments?

A Yang Data Model for WSON Tunnel

draft-lee-ccamp-wson-tunnel-model-01

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Overview

- WSON TE Tunnel Model (ietf-te-wson)
- It augments TE-Tunnel Model
- NMDA Compliant Model

IETF-TE-WSOON Module

```
module: ietf-te-wson
  augment /te:te/te:tunnels/te:tunnel/te:config:
    +--rw wavelength-assignment?  identityref
    +--rw selected-frequency?      decimal64
    +--rw channel-spacing?        decimal64
  augment /te:te/te:tunnels/te:tunnel/te:state:
    +--ro wavelength-assignment?  identityref
    +--ro selected-frequency?      decimal64
    +--ro channel-spacing?        decimal64
  augment /te:te/te:lsp-state/te:lsp:
    +--ro wavelength-assignment?  identityref
    +--ro selected-frequency?      decimal64
    +--ro channel-spacing?        decimal64
  augment /te:te/te-dev:interfaces/te-dev:interface:
    +--rw selected-frequency?      decimal64
    +--rw channel-spacing?        decimal64
```

Current Status & Next Steps

- Need to align with the latest updates from [TE-Tunnel] draft if any.
- Any comments?
- Ask for WG adoption!