Flexi-Grid
YANG Models Update
CCAMP Working Group
IETF 115

A YANG Data Model for
Flexi-Grid Optical Networks

A YANG Data Model for
Flexi-Grid Tunnels

https://github.com/ietf-ccamp-wg/draft-ietf-ccamp-flexigrid-yang
https://github.com/ietf-ccamp-wg/draft-ietf-ccamp-flexigrid-tunnel-yang
A YANG Data Model for Flexi-Grid Optical Topologies

- Used to describe the flexi-grid optical topology
  - draft-ietf-ccamp-flexigrid-yang
  - Current version is draft-ietf-ccamp-flexigrid-yang-13
  - New version in progress, and includes fixes for:
    - Addressed YANG Dr Early Review Comments
    - Tom’s Last Call comments
    - Adrian’s Last Call comments
    - Reverted to original code using relative paths, instead of “ancestor” function, more on this later
    - Update to Security section based on recent RFC Editor best practice
- New version (v14) will be posted during IETF 115
A YANG Data Model for Flexi-Grid Optical Topologies

• Final NITS to be addressed
  • https://github.com/ietf-ccamp-wg/draft-ietf-ccamp-flexigrid-yang/issues

• New version (v14) will be posted during IETF 115
A YANG Data Model for Flexi-Grid Tunnels

• Used to describe the flexi-grid optical media channel
  • draft-ietf-ccamp-flexigrid-media-channel-yang
  • Current version of the I-D is draft-ietf-ccamp-flexigrid-tunnel-yang-01
  • Several ongoing activities with the I-D, see next slide
  • For the full list of open issues see:
    • https://github.com/ietf-ccamp-wg/draft-ietf-ccamp-flexigrid-media-channel-yang/issues
A YANG Data Model for Flexi-Grid Tunnels

- Support wavelength tuning constraints
  
- Support optical impairment constraints in flexgrid tunnel

- Transceivers configuration

- Mapping between OTSi and the related component link in case of bundle link

- Align with RFC9093-bis

- Relationship between OTSiG and tunnel identifiers

- WDM technology-specific constraints

- Align the authors list with RFC7322 requirements

- OTSi Information in the Flexi-grid tunnel model

- Need some use case/scope text in the document.

- Add diagram showing relationship between YANG modules used for Tunnel I-D

- Review 10-tunnel-attributes grouping
A YANG Data Model for Flexi-Grid Tunnels

• Adding support for mixed technology environments
A YANG Data Model for Flexi-Grid Tunnels

- Adding support for mixed technology environments

IETF 115 - CCAMP – London – November 2022
A YANG Data Model for Flexi-Grid Tunnels

- YANG Code changes review if time permits.
A YANG Data Model for Flexi-Grid Tunnels

• Ongoing weekly discussion for Flexi-Grid Tunnel document
• Thursdays @ 14:00 CET
• Join Zoom Meeting
  • Meeting ID: 820 7391 1629
  • Passcode: 510259
  • https://us06web.zoom.us/j/82073911629?pwd=aXhYZnM0OVJMQ2IrZkNxFkVvdzdaUT09