

Flexi-Grid YANG Models Update

CCAMP Working Group
IETF 115

A YANG Data Model for Flexi-Grid Optical Networks

[Search] [txt|html|xml|pdf|bibtex] [Tracker] [WG] [Email] [Diff1] [Diff2]
Versions: ([draft-vergara-ccamp-flexigrid-yang](#))
[00](#) [01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#)
[13](#)

CCAMP Working Group
Internet-Draft
Intended status: Standards Track
Expires: 11 January 2023

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A YANG Data Model for Flexi-Grid Optical Networks
draft-ietf-ccamp-flexigrid-yang-13

Abstract

This document defines a YANG module for managing flexi-grid optical networks. The model defined in this document specifies a flexi-grid traffic engineering database that is used to describe the topology of a flexi-grid network. It is based on and augments existing YANG models that describe network and traffic engineering topologies.

The YANG data model defined in this document conforms to the Network Management Datastore Architecture (NMDA).

<https://github.com/ietf-ccamp-wg/draft-ietf-ccamp-flexigrid-yang>

A YANG Data Model for Flexi-Grid Tunnels

[Search] [txt|html|xml|pdf|bibtex] [Tracker] [WG] [Email] [Diff1] [Diff2]
Versions: ([draft-ietf-ccamp-flexigrid-media-channel-yang](#))
[00](#) [01](#)

CCAMP Working Group
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A YANG Data Model for Flexi-Grid Tunnels
draft-ietf-ccamp-flexigrid-tunnel-yang-01

Abstract

This document defines a YANG model for managing flexi-grid optical tunnels (media-channels), complementing the information provided by the flexi-grid topology model.

The YANG data model defined in this document conforms to the Network Management Datastore Architecture (NMDA).

<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>



A screenshot of a GitHub repository page showing a list of open issues. The repository is 'draft-ietf-ccamp-flexigrid-yang'. The issues are:




























Issue Title	Issue ID	Author	Open Date	Assignee
Remove NMDA statement from the abstract	#55	italobusi	29 days ago	
Need to update YANG Abstract to fix RWA/RSA	#54	danielkinguk	29 days ago	danielkinguk
Add Reference to rfc7698 for RSA	#53	danielkinguk	29 days ago	danielkinguk
Update text in Section 4	#52	danielkinguk	29 days ago	danielkinguk

- New version (v14) will be posted during IETF 115

A YANG Data Model for Flexi-Grid Tunnels

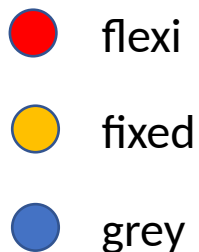
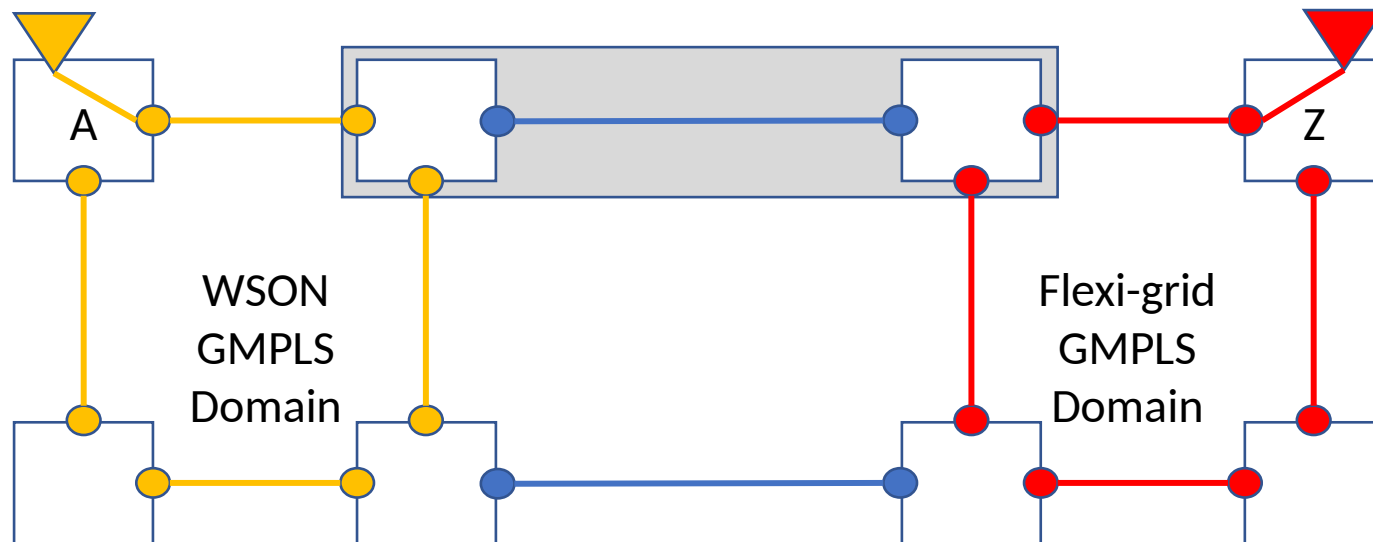
- Used to describe the flexi-grid optical media channel
 - [draft-ietf-ccamp-flexigrid-media-channel-yang](#)
 - Current version of the I-D is draft-ietf-ccamp-flexigrid-tunnel-yang-01
 - Several ongoing activities with the I-D, see next slide
 - For the full list of open issues see:
 - <https://github.com/ietf-ccamp-wg/draft-ietf-ccamp-flexigrid-media-channel-yang/issues>

A YANG Data Model for Flexi-Grid Tunnels

<input type="checkbox"/>	 Support wavelength tuning constraints #55 opened on 15 Sep by aguoietf		
<input type="checkbox"/>	 Support optical impairment constraints in flexgrid tunnel #54 opened on 15 Sep by aguoietf		
<input type="checkbox"/>	 Transceivers configuration #53 opened on 7 Jul by italobusi		
<input type="checkbox"/>	 Mapping between OTSi and the related component link in case of bundle link #50 opened on 6 Apr by sergiobelotti		
<input type="checkbox"/>	 Align with RFC9093-bis #49 opened on 7 Mar by italobusi		 1
<input type="checkbox"/>	 Relationship between OTSiG and tunnel identifiers #47 opened on 31 Jan by sergiobelotti		 3
<input type="checkbox"/>	 WDM technology-specific constraints #46 opened on 16 Dec 2021 by italobusi  2 tasks done		
<input type="checkbox"/>	 Align the authors list with RFC7322 requirements #44 opened on 10 Nov 2021 by italobusi		 2
<input type="checkbox"/>	 OTSi Information in the Flexi-grid tunnel model #40 opened on 14 Oct 2021 by italobusi		 1
<input type="checkbox"/>	 Need some use case/scope text in the document. #35 opened on 7 Oct 2021 by danielkinguk		 1
<input type="checkbox"/>	 Add diagram showing relationship between YANG modules used for Tunnel I-D #25 opened on 17 Jun 2021 by danielkinguk		
<input type="checkbox"/>	 Review I0-tunnel-attributes grouping #15 opened on 9 Feb 2021 by italobusi		 11

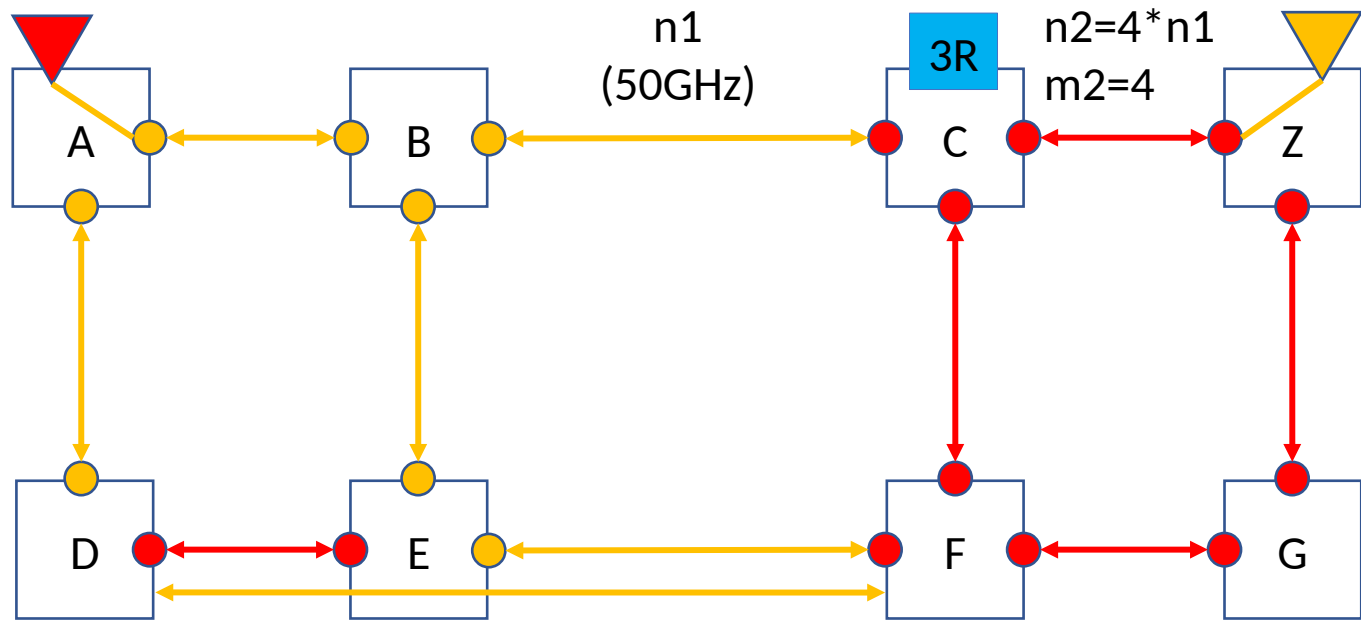
A YANG Data Model for Flexi-Grid Tunnels

- Adding support for mixed technology environments



A YANG Data Model for Flexi-Grid Tunnels

- Adding support for mixed technology environments



- flexi
- fixed
- grey

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=aXhYZnM0OVJMQ2lrZkNxQlduZVdJUT09>