

YANG Data Models for requesting Path Computation in Optical Networks

CCAMP WG, IETF112

draft-gbb-ccamp-optical-path-computation-yang-00

Authors:

[Italo Busi \(Italo.Busi@huawei.com\)](mailto:Italo.Busi@huawei.com)

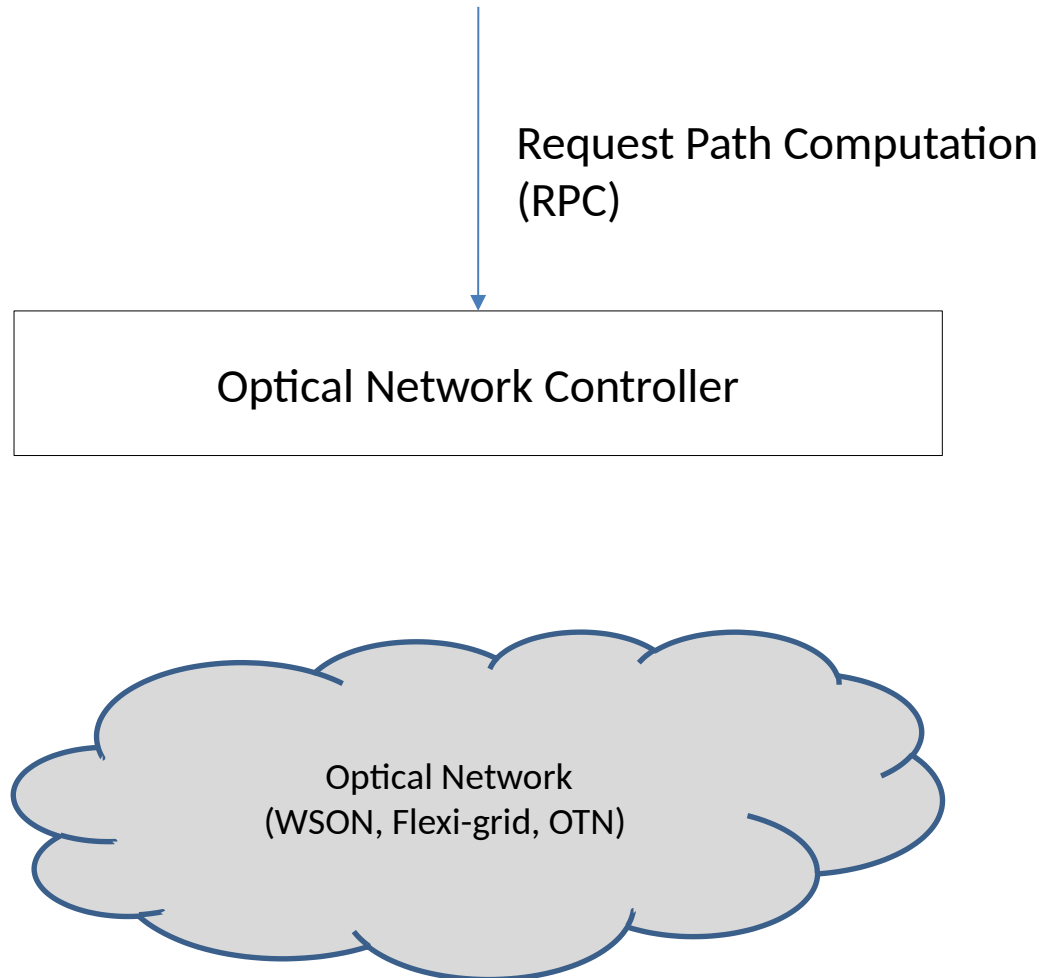
Aihua Guo (aihuaguo.ietf@gmail.com)

Sergio Belotti (sergio.belotti@nokia.com)

Contributors:

Daniel King (daniel@olddog.co.uk)

Problem Statement



- draft-ietf-teas-yang-path-computation
 - Describes generic requirements and use case
 - Optical networks mentioned as examples
 - Define a generic (technology-agnostic) YANG model
 - Alignment with TE tunnel model in draft-ietf-teas-yang-te
- Missing technology-specific attributes for optical networks (WSON, Flexi-grid and OTN)
 - Augment generic (technology-agnostic) YANG model
 - Re-use common definitions in L0-Types (RFC9093), L0-Types-Ext and L1-Types
 - Alignment with optical tunnel models (WSON, Flexi-grid and OTN)
- Gap identified during the ACTN POI analysis

Open Issues

- Define the attributes in the l0-tunnel-attributes and l0-path-constraints groupings defined in layer0-types-extension
 - See issues [#15](#) and [#16](#) in flexi-grid-tunnel github
 - Common issue for layer0-types-extension, wson-tunnel and flexi-grid-tunnel models: to be addressed jointly
- Should we spit this document in three documents (like the tunnel models)?
 - WSON Path Computation
 - Flexi-grid Path Computation
 - OTN Path Computation

Next Steps

- Address any feedbacks/comments from CCAMP WG
- Finalize the document structure (1, 2 or 3 documents)
- Request WG adoption
 - Just complementing the toolset of CCAMP WG technology-specific models augmenting generic TE models for optical networks
 - Quite straightforward work re-using common definitions in L0-Types (RFC9093), L0-Types-Ext and L1-Types