

Framework for DWDM interface Management and Control

draft-ietf-ccamp-dwdm-if-mng-ctrl-fwk-04

Ruediger Kunze

Deutsche Telekom

Gabriele Galimberti

Cisco Systems

Gert Grammel

Juniper Networks

Dieter Beller

Nokia

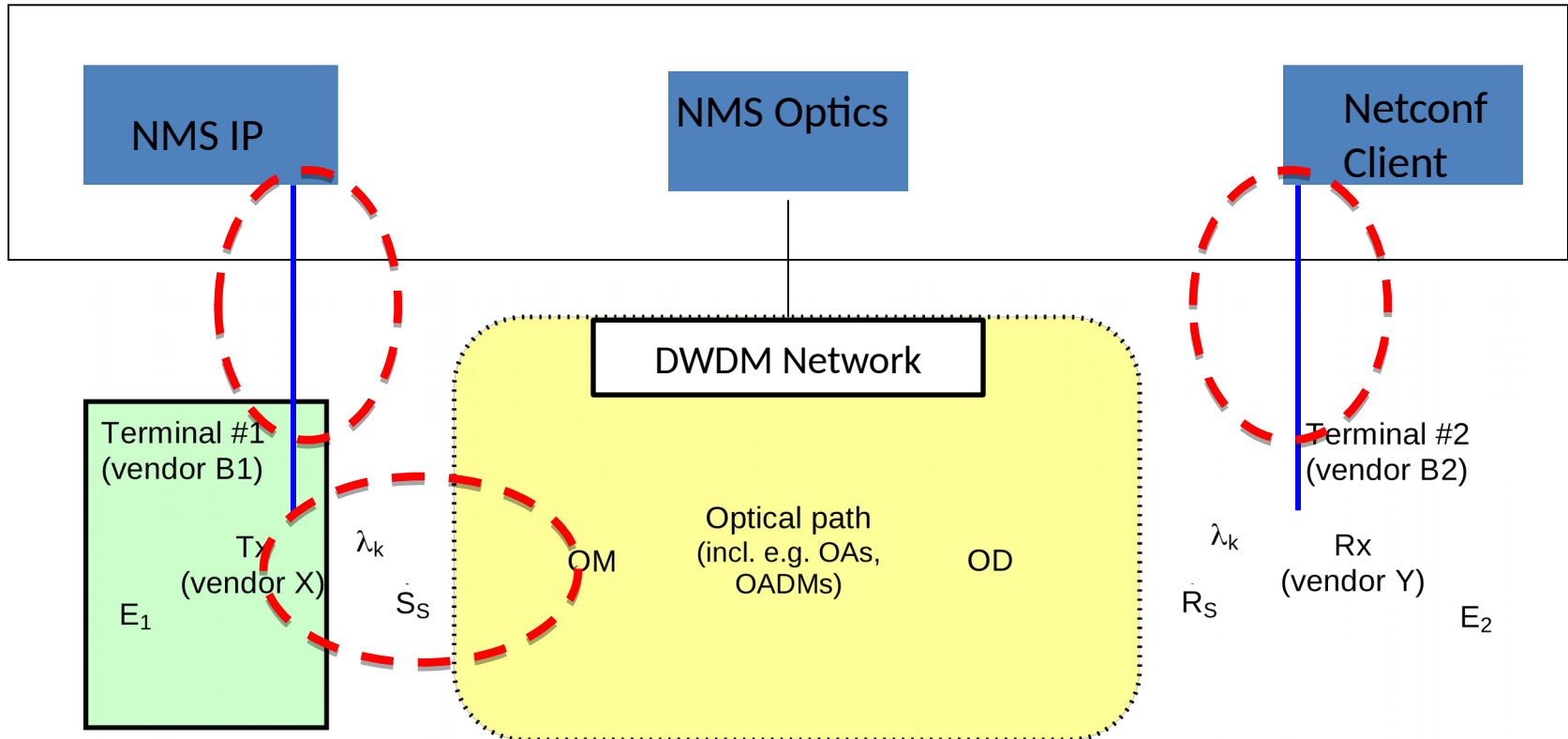
Motivation

- The deployment of DWDM interfaces outside the DWDM network leads to the following issues:
 - Interfaces and DWDM equipment may be implemented by different vendors, so there is a need for a common parameter set defining the line side of the network
 - The network and the terminal equipment need at least to exchange interface characteristics, operational state and verify the inter-layer connectivity quality.
- A multivendor packet-optical network requires a common network model to ensure an efficient operation and management of the network
- Deeper integration to achieve a higher degree of automation in network operation and a more efficient interworking between IP and DWDM layer

Document Scope

- The document covers management and control/management plane aspects for single channel DWDM interfaces
- This document describes use cases and **requirements** for the control and management of single channel optical interfaces
- The purpose is to identify the necessary information elements and processes for the given architecture.
- The focus is on automating the network operation process irrespective on how it is triggered
- Guidance for the following drafts:
 - draft-dharinigert-ccamp-dwdm-if-lmp
 - draft-dharini-ccamp-dwdm-if-param-yang

Solution initially in scope.



EMS – Element Management System

NMS – Network Management System

Modifications in version 04

- New version was submitted in March
- Requirements section updated.
- Addressed the comments from the chairs
- Re-phrasing and error correction
- Improved readability, deleted some paragraphs (unnecessary text)

Next steps

- Discussion on the list, requesting feedback from the WG
- Authors think that the doc is ready for WG last call