

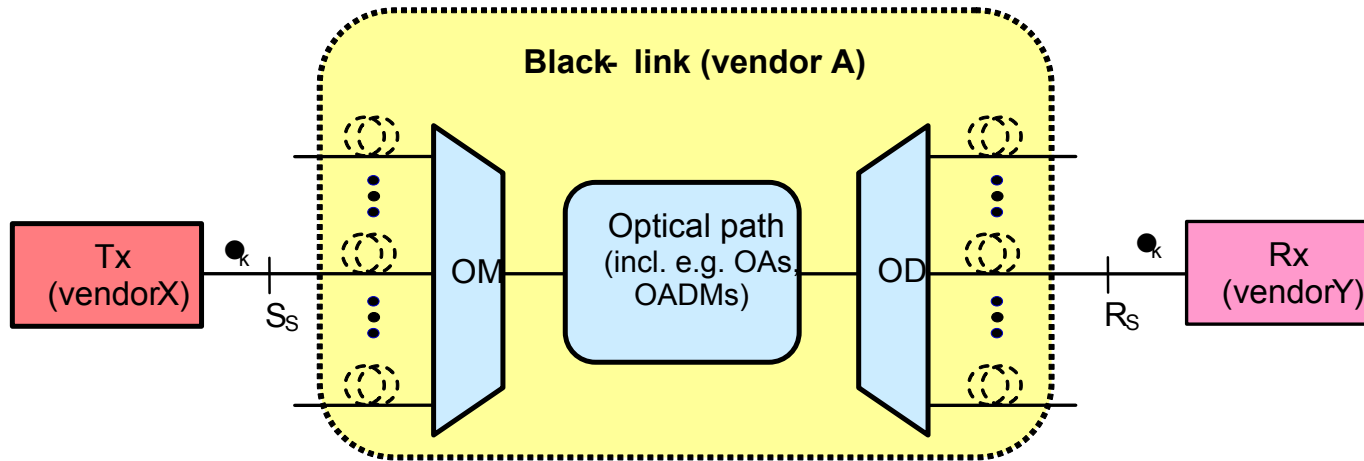
Framework for Black Link Management and Control

draft-kunze-black-link-management-framework-00

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BL Introduction



multiplier, for a vendor of a different vendor does not standard define the ingress and egress parameters at the interface S_s and R_s amplifiers, filters, add-drop multiplexers from a different vendor. Therefore the standard defines the ingress and egress parameters at the interface S_s and R_s .

Motivation

network

T for 40G, 100G and beyond

BL is currently defined for 2,5G and 10G and will be extended by ITU-

challenges regarding the operation of the network
The approach offers some benefits but has also some

- vendors and WDM transport systems using short-reach, grey interfaces
Today it is state-of-the-art to interconnect IP Routers from different vendors and WDM transport systems using short-reach, grey interfaces
- To ensure applicability as in state-of-the-art networks, the BL approach must support a multi-vendor environment
- The traditional approach operating carrier networks today is based on a separation of transport and packet, means different departments with different tools operate and manage network and services.
- Initial requirements discussed on the draft
 - Interoperable BL solutions
 - Manageability based on the Status-Quo today

Document Scope

control of the optical interfaces:

- BL operation scenarios/ uses cases

- Black Link Control and Management Solutions

Requirements for BL and FW deployments (could

be further discussed in a separate document)

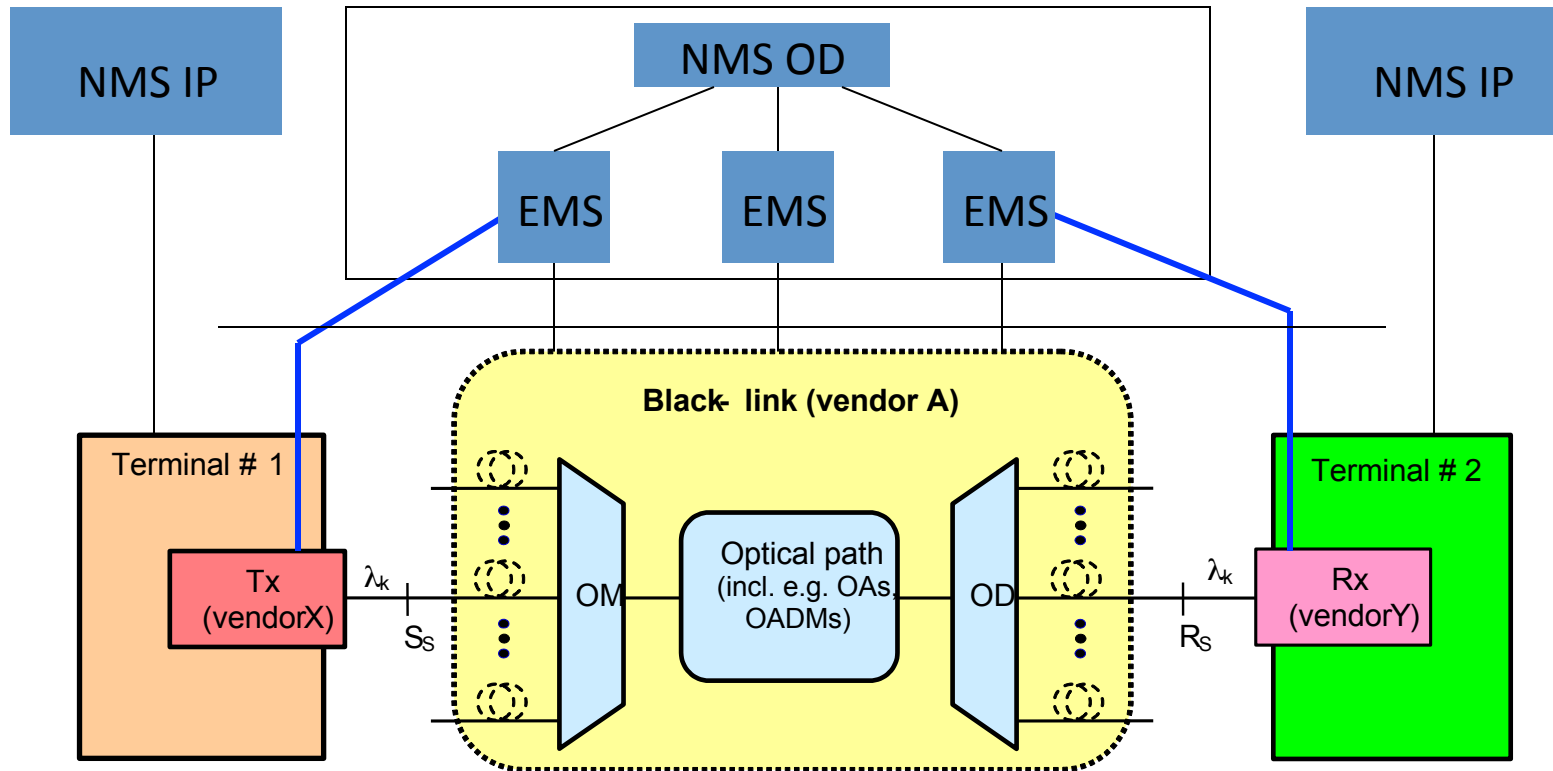


- WSON is complementary

of the optical interface.

assignment is out of scope
Dynamic Wavelength Switching and

Solution initially in scope.



EMS – Element Management System
NMS – Network Management System

Key Requirements

- Interoperable BL solutions
- Specification of solutions ensuring an interoperable management of BL deployments for 10G, 40G and beyond.
- Must work with legacy equipment and management components.

Next Steps

- Requesting Working Group feedback
- Progressing work on Use Case section and on Requirements
- Extend solution section if there are further approaches ...
- Feedback from other operators invited
- Corresponding MIB document available