



## OIF 400ZR/OLS Interop Demo at OFC 2023

- Point-to-point, 75km DWDM, DCI application

### Nokia demo solution:

- Nokia 1830 PSI-L Open Line System transports 400ZR-wavelengths
- Nokia 400ZR transceivers are hosted on routers

### Nokia 1830 PSI-L OLS

- Optimized for open line system and DCI applications
- Compact 8-slot and 4-slot platforms
- SFD64, 64-channel, 75GHz mux/demux, passive filter
- Supports common 1830 PSS hardware including iROADM, amplifier, CDC add/drop modules
- Simplified management and SDN control with industry standard open APIs and protocols



**1830 PSI-L OLS**

### Nokia Pluggable 400G DCO Transceivers

- Application-optimized coherent optics
- 400ZR, 400ZR+, 400G Multi-haul applications
- OIF 400ZR, OpenZR+, OpenROADM compliant
- QSFP-DD, CFP2 form factors

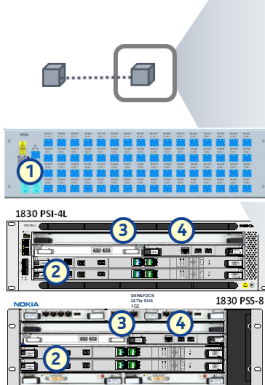


**Nokia 400ZR QSFP-DD**



## Optical Line System – point-point terminal 1830 PSI-4L/1830 PSS-8

Point-Point Access  
and Metro DCI



400ZR/ZR+



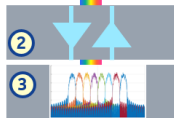
400G Pluggable DCOs

- 400ZR (-10dBm and 0dBm)
- 400ZR+ (-10dBm and 0dBm)



Fixed WDM mux/demux (100GHz/75GHz)

- SFD48: 48-ch / 100GHz
- SFD64: 64-ch / 75GHz



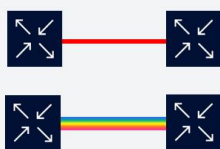
- ASG/ASG-LP Post/Pre optical amplifiers (EDFA)
- Optical channel monitor (WTOCM-F)



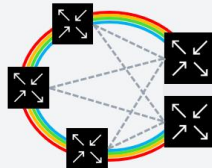
- OLP protection switch (*optional*)
- OLP single switch (OPSA)

## IP/Optical – Enabling application-optimized end-end solutions

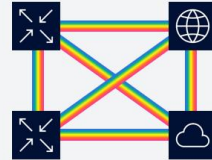
Access and metro DCI



Metro aggregation



Metro/regional core



Long haul and sub sea



400ZR

Point-to-point  
traffic and fiber

OpenZR+

Hub and spoke traffic  
over fiber rings (typically)

Multi-haul

Mesh traffic over  
interconnected fiber links

400G Any  
Distance

Mesh traffic over long spans  
and multi-degree nodes

Router-based  
Coherent Optics



Transponder-based  
Coherent Optics

