



NCS 1000

Simplified Transport



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Why NCS 1000 ?

Exponential YoY cloud and content traffic growth

Need for rapid scale and automation

Transition from 10GE/40GE to 100GE clients

Need 100GE optimized transport solution compatible with 10GE/40GE

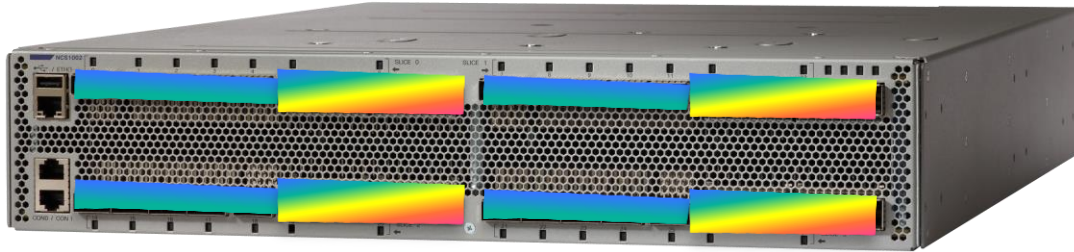
Data Center proliferation and network virtualization

Need for DC optimized solutions

Solution Overview

NCS1000 Overview

Port Density and Rate Flexibility



20 clients



QSFP28 100G



QSFP+ 40G



QSFP+ 4x10G

8 Trunks



CFP2-ACO


DWDM Transport Overview

First to 250G DWDM Pluggable Transport



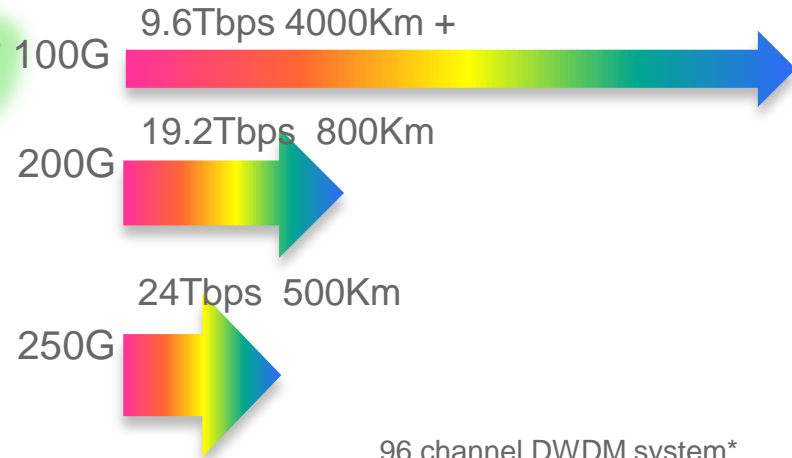
State of the art 28nm integrated ASIC
Multiple Line rates – Distance vs reach trade-off

Soft Decision FEC – Double the reach

 Nyquist shaping – ~30% more capacity



Pluggable
Field replaceable
Deferrable
Thermal efficiency



96 channel DWDM system*

Physical Summary

Optimized for the Date Center

- 2RU (17.4" wide x 23.5" deep x 3.45" tall)
- Front to Back Straight-through airflow
- 1+1 FRU AC/DC Power
- 2+1 FRU FANs
- FRU Controller with hitless upgrades, resets & headless mode support
- Removable SSD Flash
- 2 consoles, 2 RJ45, 1 GE SFP and 1 USB2.0 3A
- LEDs : system, trunk, clients, FANs, PSUs, locator beacon



FAN



PSU



CNTRLR

Manageability

Software

- Linux kernel with 64 bit IOS-XR OS in a container.
- Carrier-class OS shipping for over a decade and deploying in most tier 1 customers.
- Enhancements allowing for flexibility, customization and programmability.

Thank you.

