

ON2020 Workshop at OFC'17

Wednesday, March 22nd 2017
LACC

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ON2020 Introduction

- Optical Network 2020 (ON2020) is an **open** initiative that aims to drive innovative optical network solutions to better meet the optical networking demands in the Cloud era through 2020 and beyond
- Initial discussions at OFC 2016
- Has involved technical and business leaders from over 15 telecommunication companies
- Steering committee formed following ECOC 2016 to move ON2020 forward and prepare for workshop at OFC 2017
 - Dogan Atlas (Fujitsu), Brandon Collings (Lumentum), Xiang Liu (Huawei), Simon Poole (Finisar), Peter Winzer (Nokia)
- Light Reading/Heavy Reading is providing support to ON2020 for this workshop

ON2020 Vision and Mission

VISION

Optical Network 2020 (ON2020) is a leading global association that drives innovative optical network solutions to better meet the optical networking demands in the cloud era towards year 2020 and beyond.

MISSION

We define new optical network requirements and specifications, develop general network technology roadmaps and evolution scenarios, and foster an open and sustainable ecosystem for end users, service providers, and equipment and component vendors to collectively address the optical networking demands in the cloud era.

Agenda

- 07:45 – 08:15am Breakfast/networking
- 08:15 – 08:20am Introduction
- 08:20 – 09:05am Future Directions for ROADM Network Development
Presentations: Steve Grubb, Facebook; Glenn Wellbrock, Verizon
Panel: Steve Frisken, Finisar; Brandon Collins, Lumentum;
Sterling Perrin, Heavy Reading
- 09:10 – 09:55am T-SDN and the Future of Optical Networking
Presentations: Lubo Tancevski, Nokia; Xiang Liu, Huawei
Panel: Dogan Atlas, Fujitsu; Peter Winzer, Bell Labs;
Sterling Perrin, Heavy Reading
- 09:55 – 10:00am Closing summary

Key Trends in Networking

- Rapidly growing user traffic
 - Video and cloud services are key drivers
 - 4G/LTE mobile data, 5G coming, gigabit broadband, 10G enterprise services
- Move to virtualization and cloud based services
 - SDN, NFV
 - Evolving mix of physical and virtual functions
- Increasing data center bandwidths
 - Within and between data centers (DCI)
 - Both North-South (server-user) and East-West (server-server)
- Optical network flexibility
 - Flexi-Rate, Flex Ethernet
 - CDC-F ROADMS
- Open solutions
 - ONOS, OpenFlow, Open ROADM, TIP

Future Directions for ROADM Network Development

- Presentations
 - Steve Grubb, Facebook
 - Glenn Wellbrock, Verizon
- Panel
 - Steve Frisken, Finisar
 - Brandon Collins, Lumentum;
 - Sterling Perrin, Heavy Reading

T-SDN and the Future of Optical Networking

- Presentations
 - Lubo Tancevski, Nokia
 - Xiang Liu, Huawei
- Panel
 - Dogan Atlas, Fujitsu
 - Peter Winzer, Bell Labs
 - Sterling Perrin, Heavy Reading

Closing summary

- Move to virtualization and cloud based services
- Increasing data center bandwidths
- Optical network flexibility
- Open solutions developing rapidly
 - Many including support for optical networks
- ON2020
 - Opportunity to drive innovative optical network solutions to better meet the demands in the cloud era through 2020 and beyond.

Thank You

More information on ON2020 can be found
at <http://www.on2020.org/>