

OIF

The Path to Open, Interoperable Optical Networking

OFC 2019

March 7

Agenda

- Introduction
 - Dave Brown, Director of Communications, OIF; Senior Product Marketing Manager, Nokia, USA
- OIF SDN Transport Interoperability Update
 - Jonathan Sadler, Network Interoperability Working Group Chair, OIF; Solutions Architect, Infinera, USA
- Transport API Update
 - Lyndon Ong, MA&E Co-Chair - Networking, OIF; Principal, Advanced Architecture, Ciena, USA
- Partially Disaggregated Networks Program, Telefonica
 - Victor López, Technology Expert at Systems and Network Global Direction, Telefónica gCTIO, Spain



OIF

Introduction

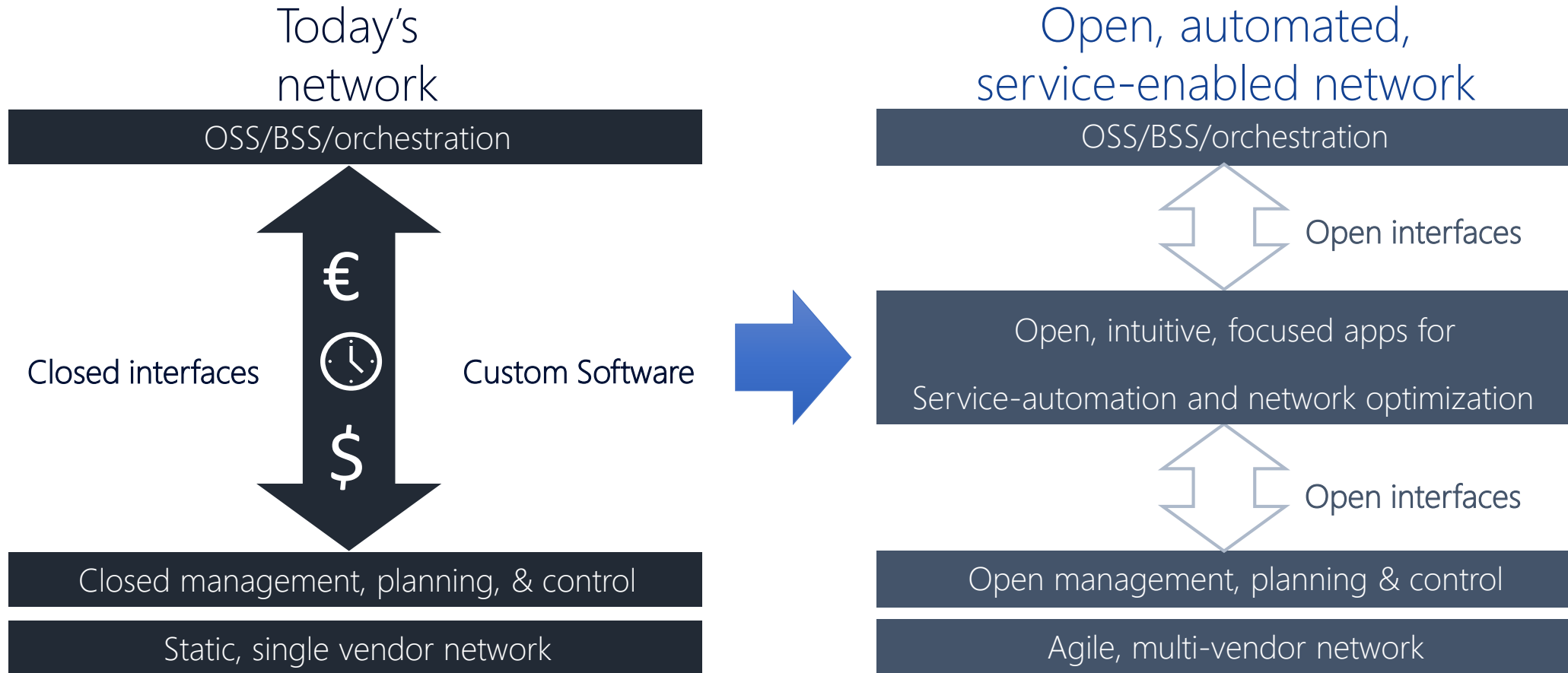
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Dave Brown, Director of Communications, OIF

Evolving to a New Operational Paradigm



Source: Nokia

Keys to Open, Interoperable Optical Networking

Spec/IA Development

- Identify needs, gaps, issues
- SDO liaisons and partnerships
- Refine and evolve IAs

Interoperability Testing

- Validate specs
- Real world use cases
- User lab testing
- Determine gaps
- Publish findings

Certification

- Determine needs
- Establish process, specs, use cases
- Promote, execute
- Establish as RFX table stakes

Develop standard transport SDN interfaces



The OIF and Transport SDN

- Goal: accelerate commercial deployment by defining, testing and assuring interoperability of key network functions and interfaces
- Work to date:
 - Use cases and reference architecture
 - Carrier requirements and framework
 - 2014 interop demo – partnered with ONF, tested pre-standard ONF OpenFlow extensions and APIs, led to ONF T-API specs
 - 2016 interop demo - validated specs in multi-layer, multi-domain environments in carrier labs, led to T-API 2.0
 - 2018 T-API 2.0 interop demo
- Next:
 - Integrated Packet Optical SDN Requirements project
 - T-API certification



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