

IP Wave

Sam Bucci, EVP & GM, IP Optical Networks

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Note Regarding Forward-Looking Statements

This presentation contains "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995, which are subject to a number of risks and uncertainties. All statements other than statements of historical facts contained in this presentation, including without limitation statements regarding expected benefits from use of our products, customer engagement and momentum, and plans for future product development, are forward-looking statements. Without limiting the foregoing, the words "believes", "estimates", "expects", "expectations", "intends", "may", "plans", "projects" and other similar language, are intended to identify forward-looking statements.

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Ribbon Spotlight

Agenda:

- Safe Harbor Statement: Tom Berry, Ribbon IR
- Introduction: Jimmy Yu, Dell'Oro Group
- Prepared Remarks: Sam Bucci, Ribbon
- Moderator-led Q & A: Jimmy Yu & Sam

IP WAVE

Date: November 18th Time: 11 am EST

Creating better overall economics and services velocity for IP Optical



Sam Bucci, EVP & General Manager IP Optical Networks Business Unit



Moderator:



Jimmy Yu, VP Market Research Optical Transport, Microwave Transmission & Mobile Backhaul DELL'ORO GROUP



Ribbon at a Glance





Global provider of software and network solutions to service providers, enterprises, and critical infrastructure sectors enabling communications and high-bandwidth networking and connectivity

Headquarters: Plano, Texas • NASDAQ: RBBN

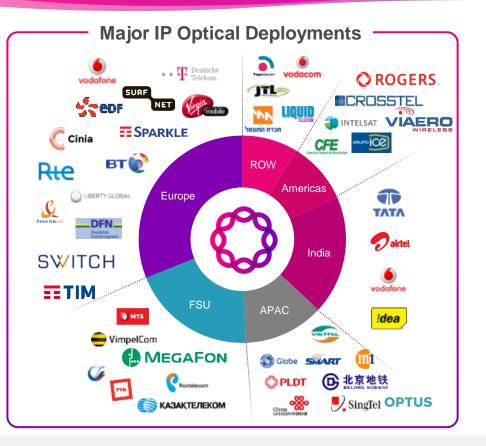
1000+ Customers¹ **\$844M** 2020 Revenue

3,700 Employees¹ (global) 140 Countries¹ **1000+** Patents¹



Note: 1. As of December 31, 2020.

Ribbon IP Optical Networks



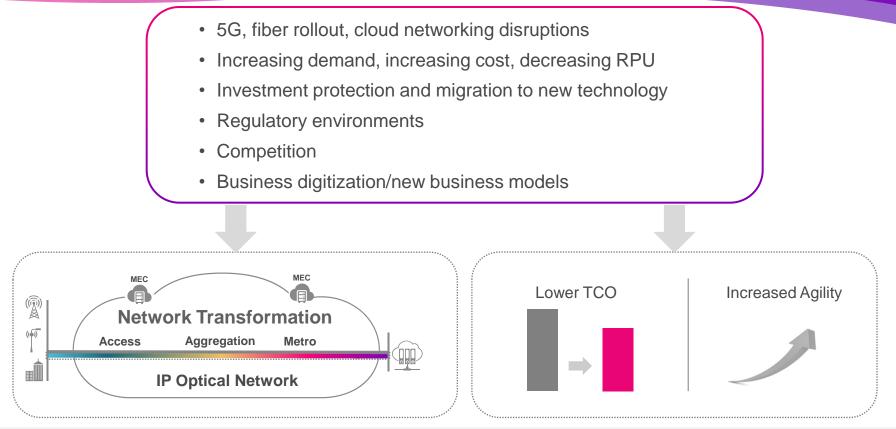
55+ years of experience delivering innovative telecommunications networking solutions

250+ global customers

100K+ IP Optical NEs deployed



Customer Challenges

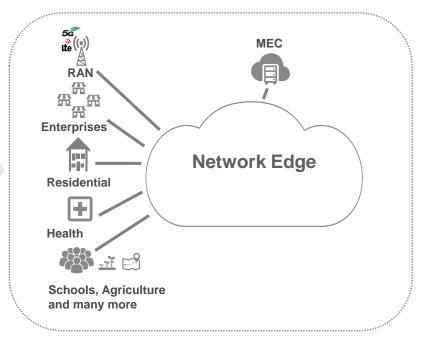




Challenges Force a Rethink of the Edge

• 5G

- Disaggregated, dynamic, radio and mobile core resources
- Diverse services diverse performance needs
- Fiber rollout
 - Diverse services diverse performance needs
- Cloud networking
 - Disaggregated, distributed, dynamic compute resources and applications
- Competition
 - Need rapid service delivery velocity to compete
- Economics
 - Need cost efficient solutions





IP Wave Value Proposition



Automated

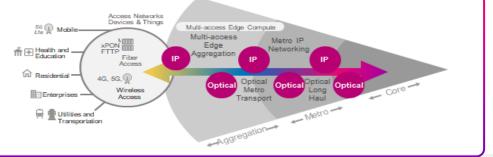
- Reduce OPEX, Agile and Streamlined operations
- Open Multi layer, Multi vendor
- Service driven, fast time to revenues
- Economical custom applications (open CI/CD)

OSS/BSS

Automated operations lifecycle Network

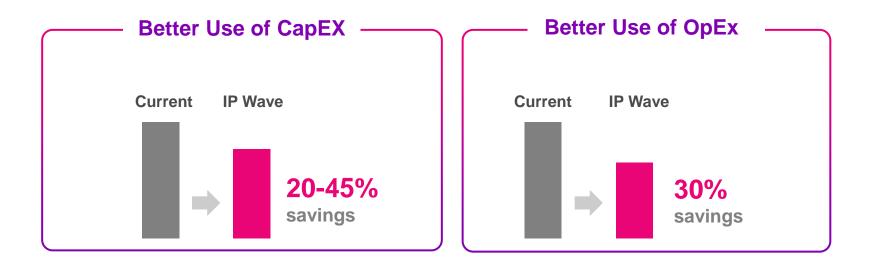
Optimized

- Best use of CAPEX
- Converged multiservice edge
- Investment efficiency with optimized IP Optical from access through metro
- Open and disaggregated, no vendor lock-in





IP Wave Economics



IP WAVE —



IP Wave Portfolio

Cognitive Software – Muse

- Cloud Native platform, rapid app development
- Continuous optimization and control
- Multi-layer, multi-vendor
- Customized integrated applications

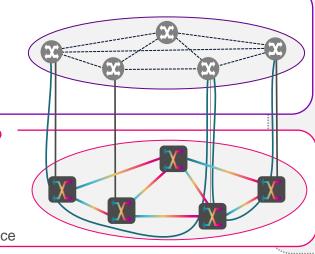
Open IP – Neptune

- Converged multi-access edge
- Complete IP/MPLS stack
- Multi layer with IPoDWDM
 - Telco-grade NOS
 - Open architecture and interfaces

Programmable Optical – Apollo

- Programmable to 1.2T, 400G everywhere
- Metro ZR+ optimized solutions
- FlexGrid ROADM with spectrum slicing
- Optimized small form factor options
- Open line system with assured performance





Professional Services

Product attached services

- Anytime, anywhere training
- Customized integration
- DIY to Turn-Key deployment
 and maintenance support

Software defined services

- Analytics and automation
- Dev Ops and Customization

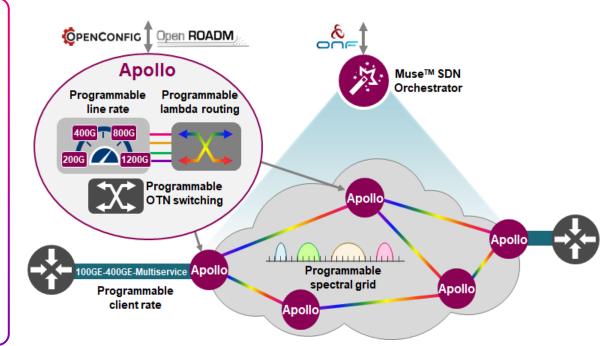
Managed services

• NOCs, Managed networks



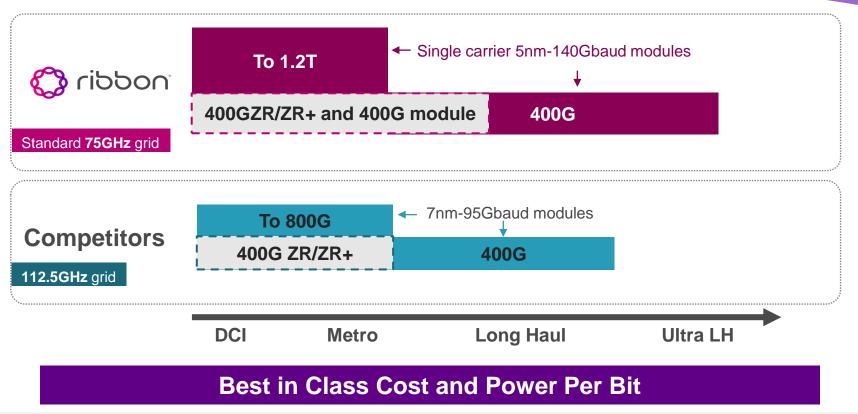
Programmable Open Optical Networking With Apollo

- Programmable
- Performance or power-cost optimized transport, for "best fit to application"
- Smooth pay-as-you-grow capacity growth
- Open for easy deployment
 multivendor environments



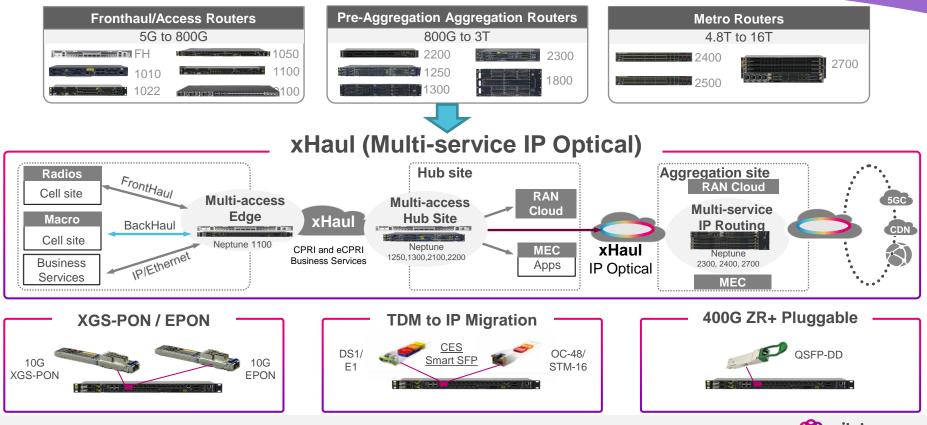


Programmable Open Optical Networking – Apollo Capacity Evolution



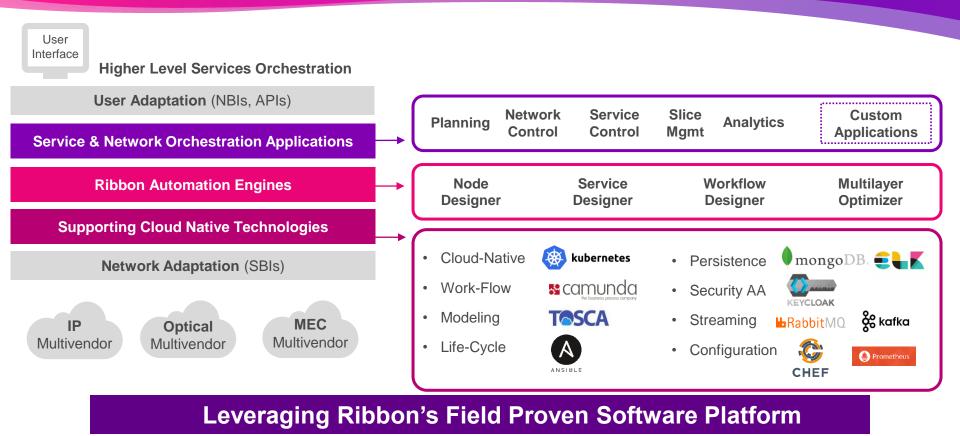


Converged Multi-access Edge with Neptune Open IP/MPLS Routing



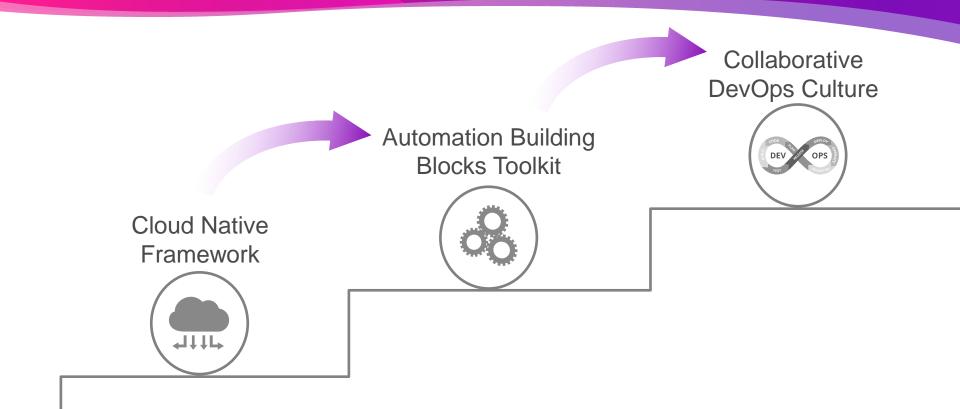


Multi Domain Control and Automation with MUSE Cognitive Software



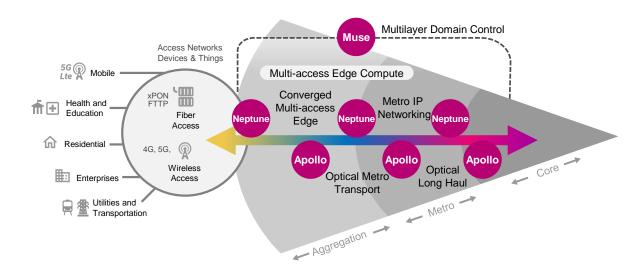


MUSE Automation Framework





Summary



IP WAVE

BETTER

Economics | Technology | Partner

Better Economics

 Lowering cost and increasing agility in the Access to Edge, increasing profitability for our customers

Better Technology

Advanced IP Optical and automation technology

Partner You Can Trust

• Dependable, consistently delivering value everywhere, every time





