UNLEASH THE POWER OF LIMITLESS CONNECTIVITY
Converged Networks and Mobility

Universal Aggregation for Service Convergence: Residential, Mobility & Business

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Universal Aggregation

Unified Transport Platform

Move away from silos and toward common platforms for both

Traffic Types
• Residential
• Mobility
• Business

Network Layers
• Optical Transport (layer 1)
• Ethernet switching/OTN (layer 2)
• IP/MPLS routing (layer 3)
Drawbacks of Legacy Optical Network

i. Chassis-Based Platform
ii. Inefficient Scaling
iii. Client Interface Limitations
iv. Client-Side GCC0 Only
v. Manual Initial Turn-up Configuration
vi. Fixed Grid Only
Six Mandatory Attributes of The Unified Transport Platform

i. High Level Bandwidth Densification per Rack Space
ii. Building-block-like Scalability
iii. Full-set Client Interface Support
iv. Full-featured GCC0
v. Zero Touch Provisioning
vi. Flex-Grid
**Unified Platform for Universal Aggregation**

- Modular
- Blade-Centric
- Pizza-Box

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Benefits of Universal Aggregation

Realization of The Six Mandatory Attributes

i. 1 Tbits/s Bandwidth Capacity Per One Rack Unit
ii. Pay-As-You-Grow. Small, granular initial investment
iii. OC192, 100GbE, and OTU4
iv. No Need for Out-of-Band Management Switch
v. Plug-and-Play with USB Key
vi. Increase The Spectral Efficiency by 25%
Conclusions

• Currently siloed in both:
  • Service types (Residential, Mobile, and Business)
  • Network layers (Layers 1, 2, and 3)
• Universal Aggregation breaks up those silos
  • Enhanced flexibility/scalability
  • More cost effective long term
Thank You!

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