

IOWN APN-T 400G Muxponder

Pegatron Corp.



5-6 AUGUST, 2025
TAIPEI, TAIWAN



IOWN APN-T 400G Muxponder for Cloud Edge Computing



Victor Yen

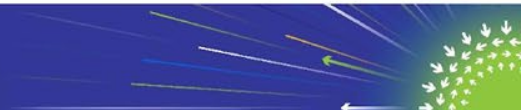
Senior Director/ Pegatron

ArthurSH Chang

Senior Director/ Pegatron

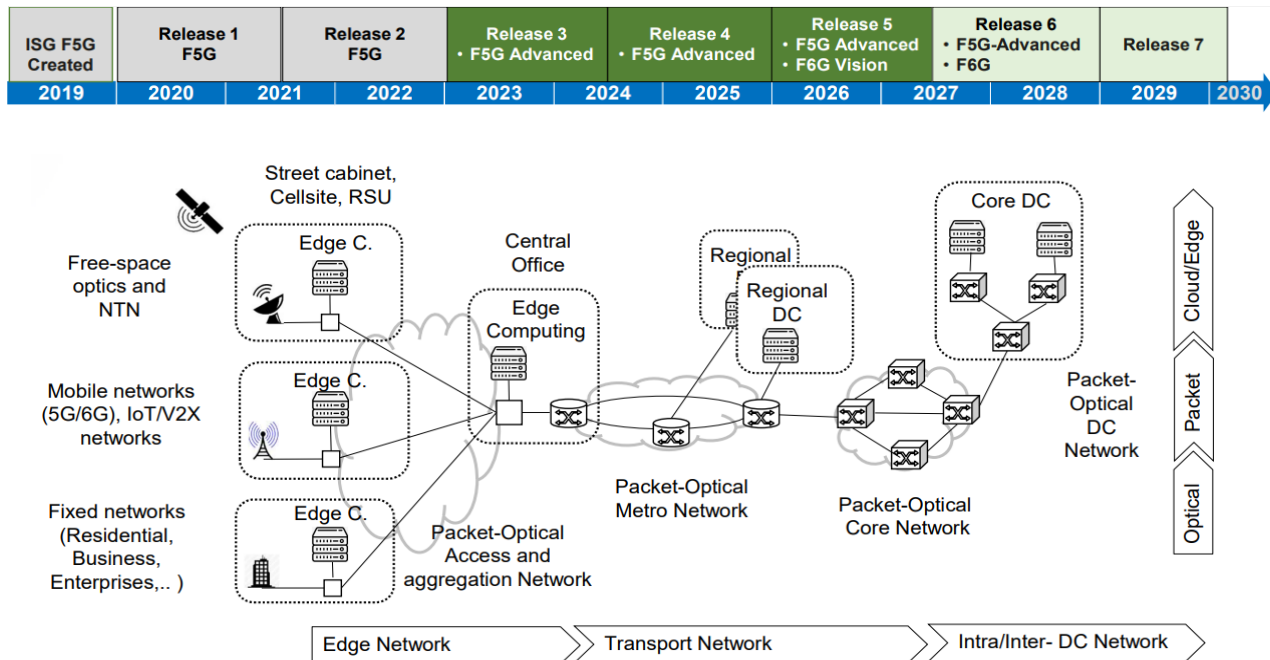


OPEN
SILVER®



2030 Global Optical Network Evolution

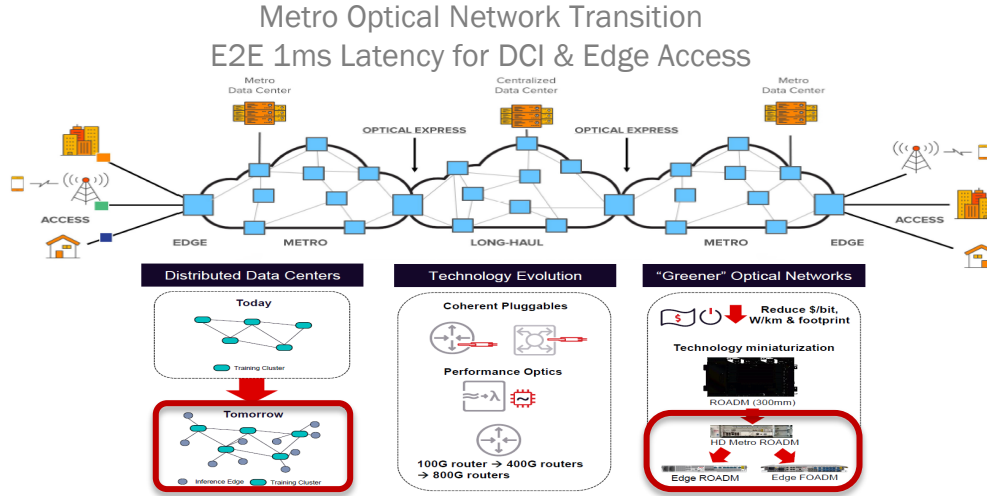
- ITU-T 2030 End-To-End Optical Network Spec Release Timing for 6G Network



Courtesy of ETSI

E2E Optical DWDM Connectivity Toward Metro/ Edge

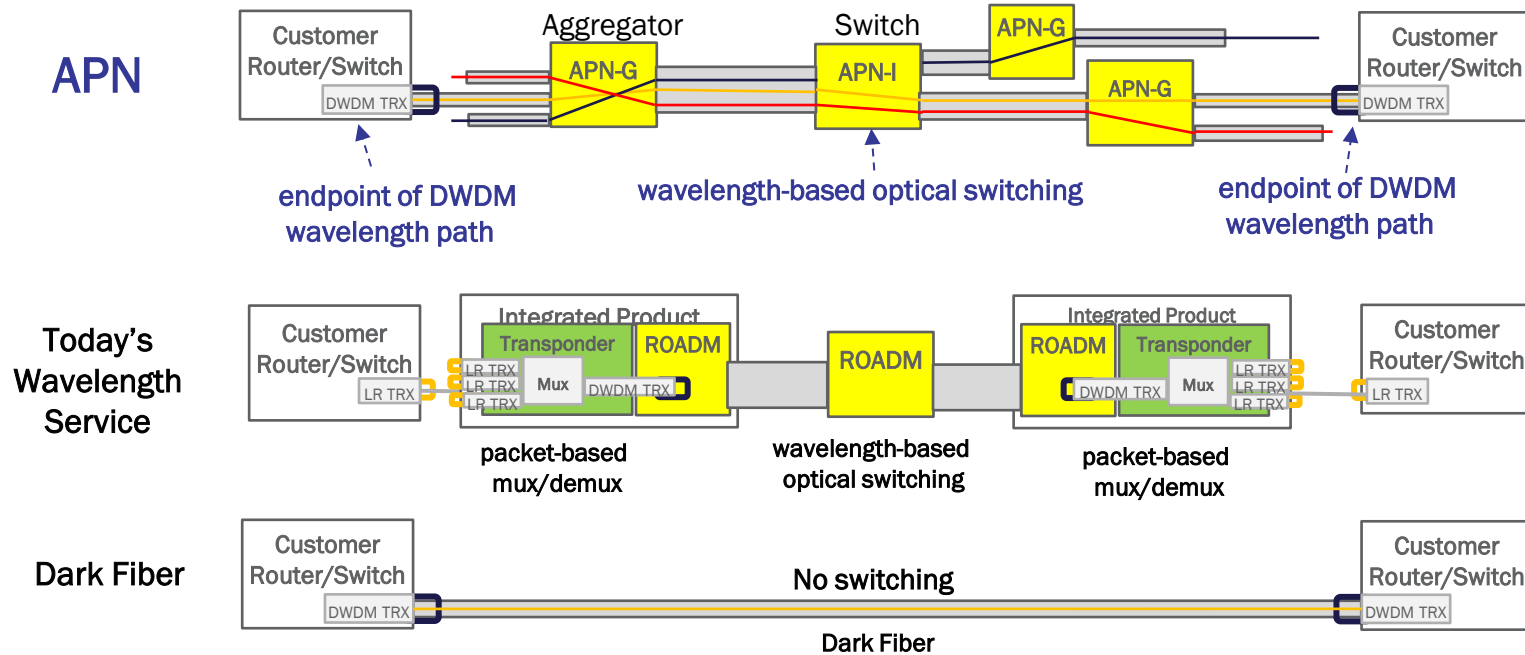
- AI CSPs with Additional “Inference Data Center” Capacity in Metro Network Closer to Clients
 - Capacity growth for data movement from enterprise data lakes to AI training centers
 - Middle mile upgrades to support AI traffic to interconnect more key enterprise sites optically
 - Growth in private lines with deterministic low latency and a shift to higher capacity solutions



Courtesy of Omdia, Infinera & Ciena

2030 IOWN Open All-Photonic Network (APN)

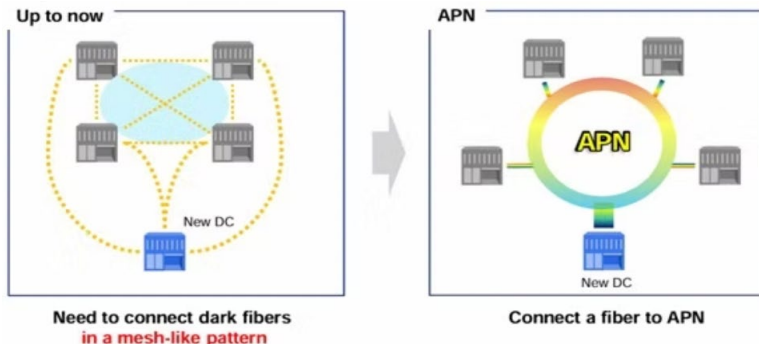
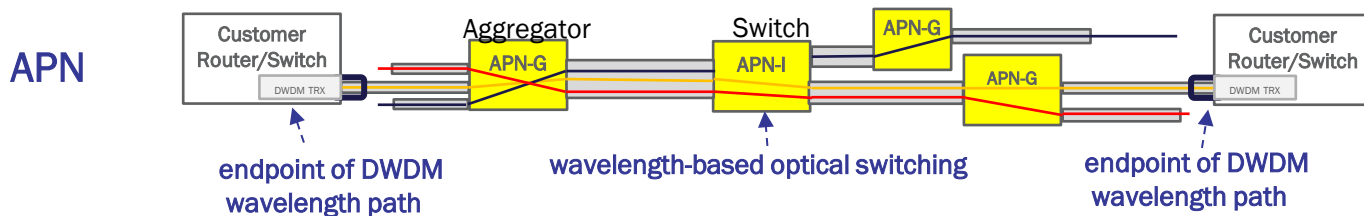
- IOWN APN for F6G Telecom Carrier Network



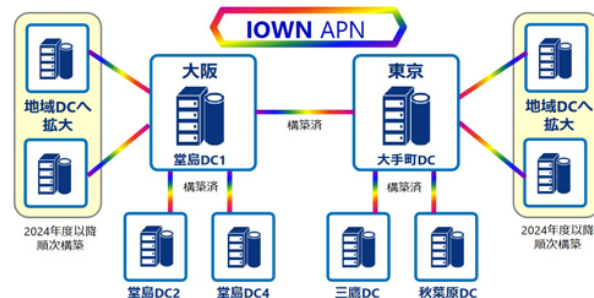
Courtesy of NTT

2030 IOWN APN Evolution for DC Interconnection

- AI DCs decentralization using APN for WAN-interconnection
 - realizing distributed small- and medium-sized regional center using IOWN APN.



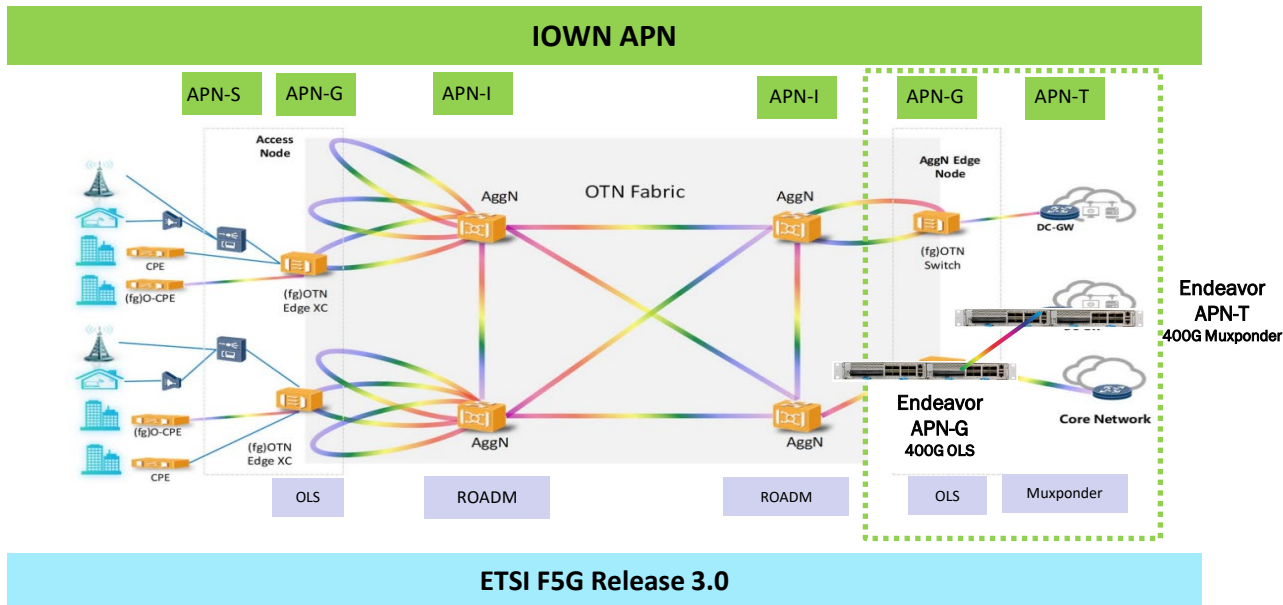
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Courtesy of NTT

2030 IOWN Evolution Aligned with ETSI

- APN-T, APN-I, APN-G & APN-S Correspondence to ITU F5G Scope
 - ETSI F5G Specification of TS 103.933



IOWN for DC Interconnection Using APN-T & APN-G

- Pegatron Case of for ORAN Edge Data Center Interconnection

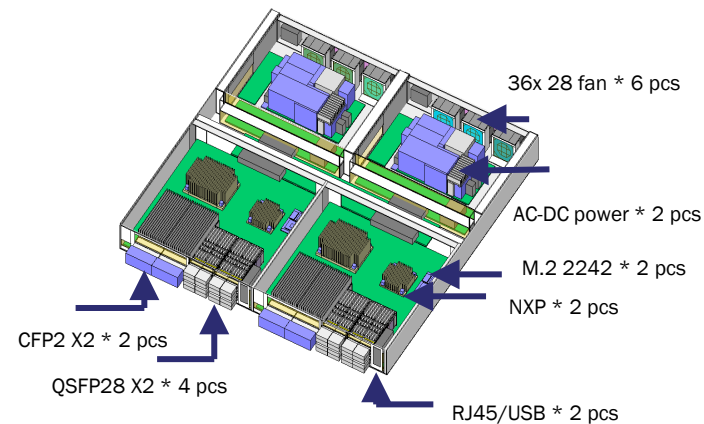


Pegatron Telecom & DCI 400G Muxponder

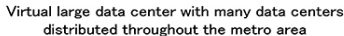
- Endeavor, a 1 RU Form factor 400G Optical Muxponder

Chassis have 2 slots in both front and rear side:

- Two front access slot to support 1+1 redundancy, as well as various traffic boards for different traffic requirements.: 4 x 400G CFP2-DCO + 16 x 100GbE QSFP28 Ports
- Two rear access slots to support 1+1 redundant hot-swappable PSU-Fan trays, each embedded with a three-fan module and one PSU



- 2025 OFC Demo by NTT, Orange and Telefonica

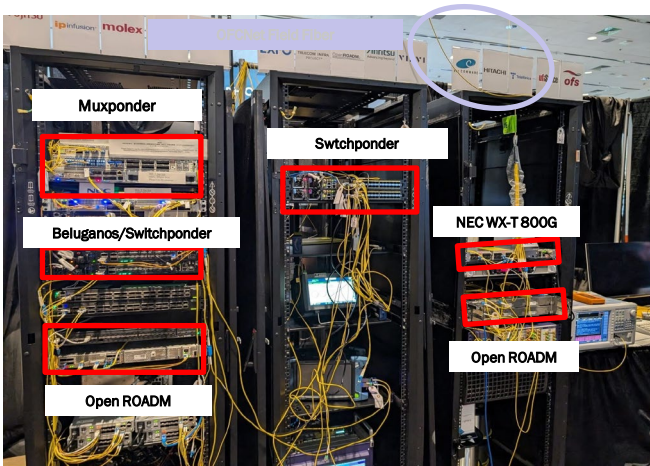


TIP: Telecom Infra Project
RCA: Remote Control Agent

2025 OFC IOWN GF Joint Demo



Open ROADM MSA booth



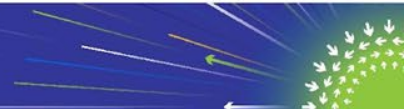
IOWN Networking Hub booth

A Finalist for Leading Lights Awards 2025 – Innovative Networking

- Light Reading's Leading Lights Awards 2025
 - Cloud-native open optical transponder compliant with TIP standards,
 - Innovative solution is ideal for Datacenter Interconnect (DCI) in rapidly expanding, distributed AI data centers.



Courtesy of NEC



Thank You!



2025

