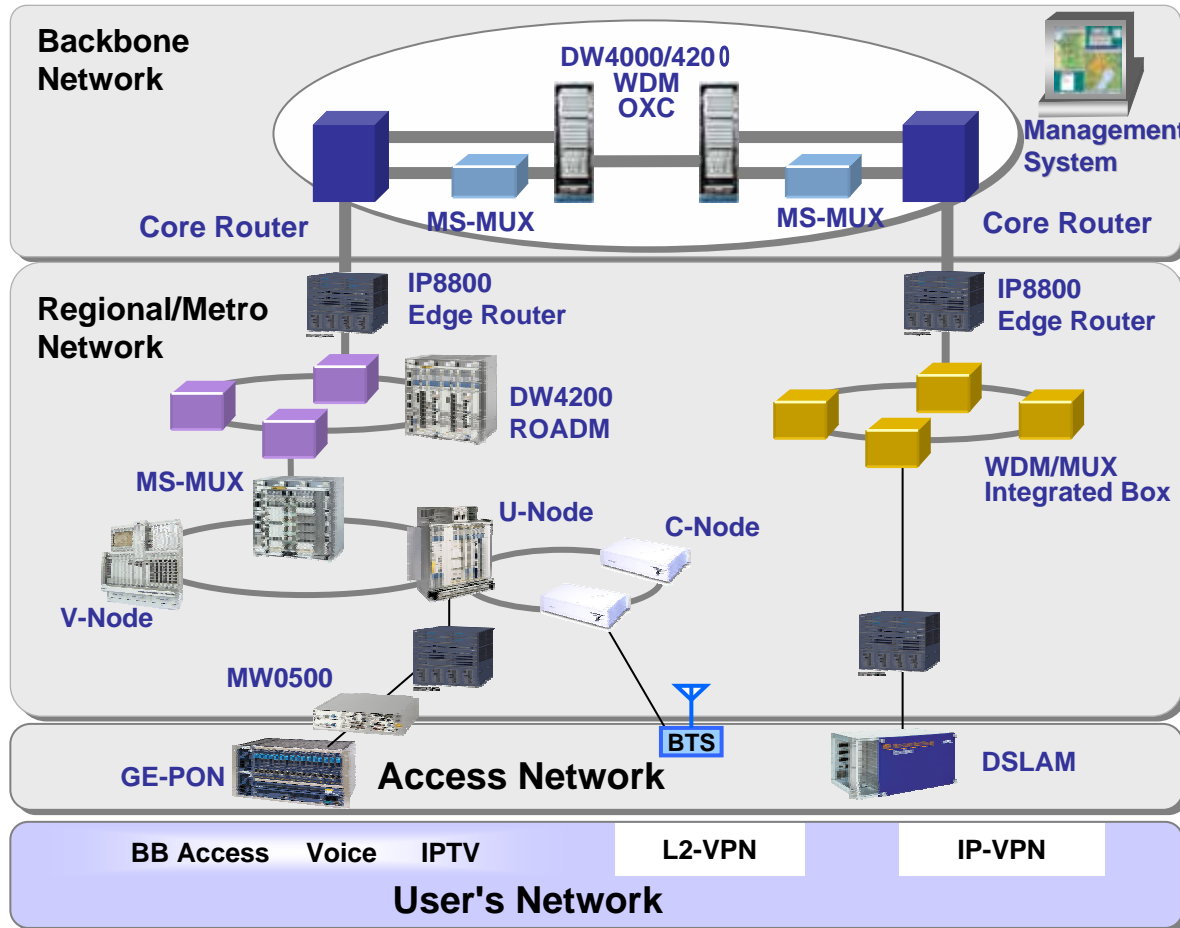


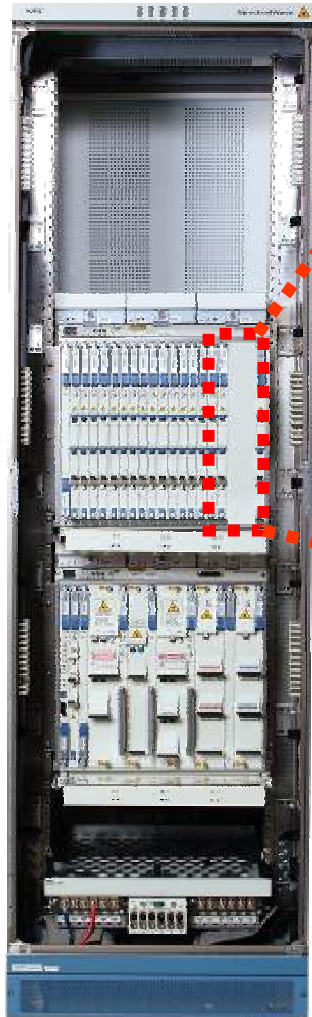
# NEC Products for Next Generation IP/Optical Network



- EMS/NMS/GMPLS**  
C-plane/M-plane interworking
- DW4000/4200 (ROADM/OXC)**  
High-capacity DWDM (80 lambdas/band)  
40G transmission  
ROADM remote control  
OXC: Optical Cross-connect
- MS-MUX (Packet Migration MSP)**  
10G RPR/EoS  
Packet/TDM hybrid Mux
- U-Node/V-Node/C-Node**  
Compact MSP with RPR/L2SW
- MW0500(CWDM)**  
Up to STM64, GbE/10GbE, OADM

**Low environmental impacts: low power-consumption, small footprint**

# SpectralWave DW4000/DW4200 40Gbps DWDM Transponder



**40Gbps  
Transponder**

**DW4000  
Long-haul DWDM System**

- Long-haul (up to 1000 km) and stable transmission of 1.6 Tbps (40 Gbps x 40 lambdas) achieved by employing NEC's world-leading photonics technologies
- **Core tech. 1: RZ-DPSK format**
  - High sensitivity characteristic brings large tolerance to optical noise.  
RZ-DPSK: Return-to-Zero Differential Phase Shift Keying
- **Core tech. 2: Dynamic Dispersion Compensation**
  - NEC's original Electronic Dispersion Compensator (EDC) IC realizes stable performance against waveform distortion variation.

