Mehr Licht!
More Photonics for Intelligence

#A02

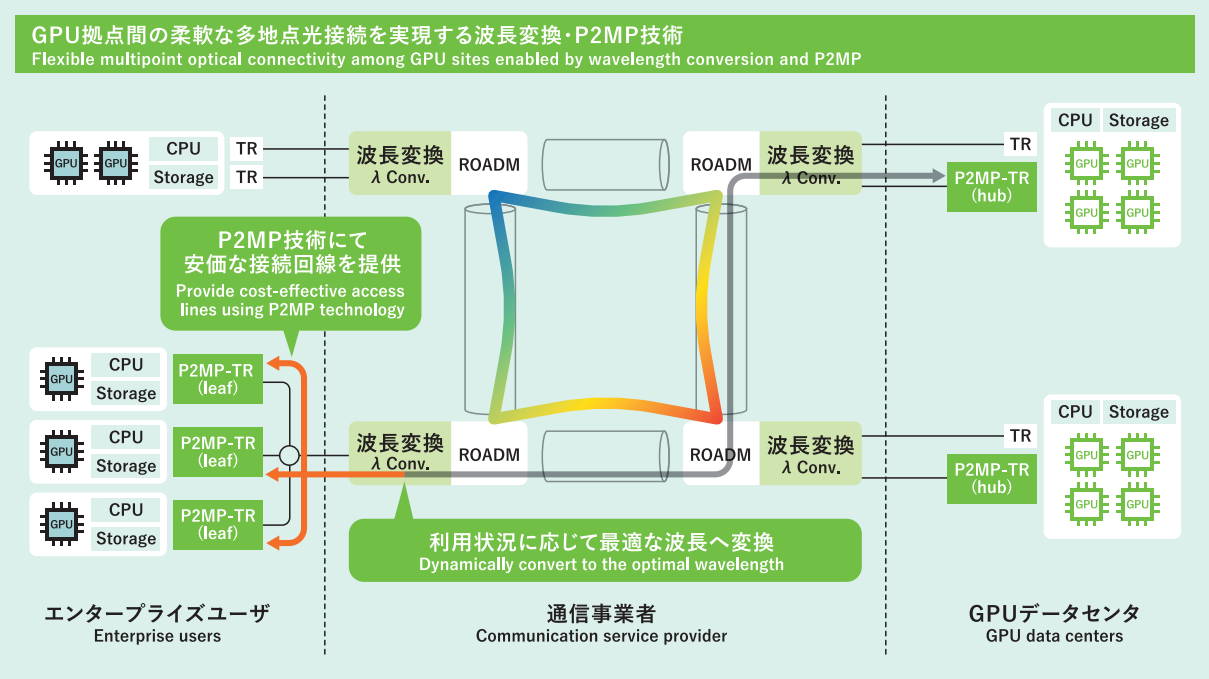
#AI & Quantum Infrastructure#Carbon Neutral

P2MP Optical Links with λ Conversion

Flexible, high-capacity and low-power optical links between GPU sites

Technical Challenges & Goals

As enterprises increasingly require fine-tuning optimized for business needs, individually owning computing resources is inefficient. This study provides a low-cost, low-power, jitterless optical interconnect that supports diverse signal types via P2MP and wavelength conversion, enabling computing-resource platforms.



Key Technologies

Core Technologies

- Low-power, jitter-free wavelength conversion enabled by OAO-based technology
- High-capacity, cost-effective access enabled by coherent optical subcarrier P2MP transmission

Key Differentiators

- One device type enables low-power, jitter-free λ conversion across vendors and signal formats
- Flexible bandwidth control and long-reach access using coherent optical subcarrier multiplexing

Use Cases

Information Technology (IT)

Provide flexible and cost-effective network connectivity between GPUaaS providers and enterprise users using local AI, enabling free equipment selection and economical AI adoption and utilization.

Exhibitors

NTT, Inc. Network Service Systems Laboratories

External Partners

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