IOWN INTEGRAL

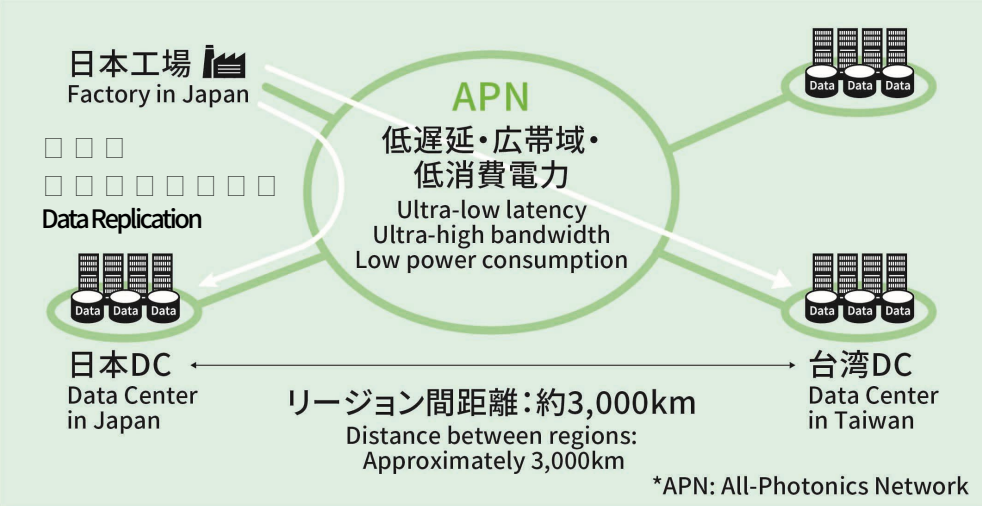
NTT R&D FORUM 2024

DEVELOPMENT
δ 03-06

Data replication technology

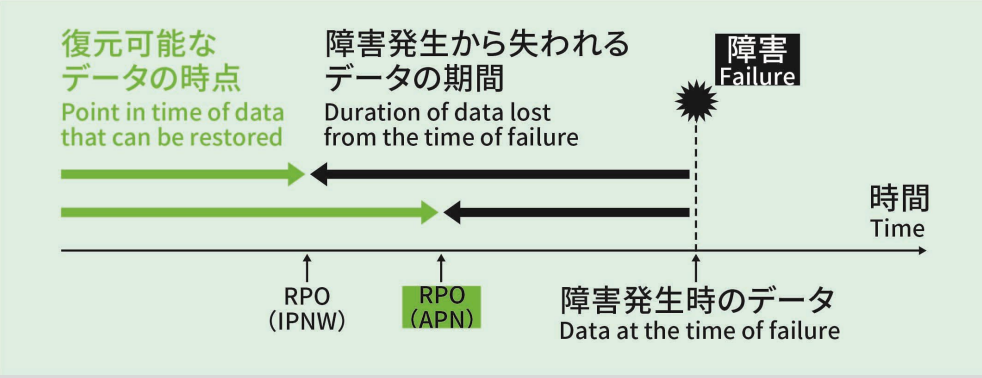
Minimize disaster recovery (DR) time by using ultra-high-speed data transfer over long distances and between countries

Business Resilience



APN活用によりデータ喪失時間の大幅な短縮を実現

Significantly Reduced Data Loss Time through the Use of APN



///Technical Issue

In conventional data replication, high-frequency replication over long distances is difficult due to degraded data transfer performance caused by network latency

///Research Goal

Short RPO and secure asynchronous replication combining disaster recovery storage products, and international APN, and NTT security products.

---Technology

APN（All Photonics Network）
Data replication capabilities of each storage vendor

---Novelty

Provides long-distance and cross-country data replication with significantly reduced RPO（data loss time） by using APN.In addition, the IOWN APN will be able to provide a highly secure network by utilizing NTT Labs' Post-Quantum Secure Transport technology, offering enhanced “crypto-agility” to counter the anticipated compromise of currently used classical cryptographic algorithms in the quantum computing era.
※RPO(Recovery Point Objective)The maximum time for which data loss can be tolerated. In other words, the point in time when data can be recovered from the point of failure

---Applicable Business

・Business area：Financial and Manufacturing industries
・Use Cases：Can be used for use cases with RPO shortening needs in long-distance and cross-border data replication for DR.
For Taiwanese manufacturing companies based in Japan
1） Backing up data from a factory in Japan to an overseas DC
2） Backing up data from the Taiwan headquarters to Japan
・Availability：Scheduled service delivery date: 2025/3Q

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