NTT

Network modernization

Global Data Center Interconnect

Our **Global Data Center Interconnect**, elastic in nature, helps solve our clients' digital information challenges.

Service overview

Global data center interconnect (GDCI) technology interconnects two or more data centers over any distance using a high-speed network link. This capability delivers private and secure connections between the data centers, as well as to cloud service providers, SaaS, network service providers and the enterprise, bypassing the public internet.

Our Global Data Center Interconnect provides a wide variety of sophisticated network services such as dedicated Layer 2 or Layer 3 virtual connections across all of our Global Data Centers over one physical connection. Managed by our Global Data Centers, this capability is based on a dedicated network infrastructure and doesn't use the public internet for connectivity.

Opportunity

Enterprise IT infrastructure has changed due to the convergence of computing, storage and networking. In today's service-based economy, global enterprises anticipate highly-scalable, resilient and agile digital infrastructure to create new business lines.

Organizations want the network connectivity to be easily scalable and offer cost-effective usage-based as-a-Service models. There's a wide range of applications that need network reliability, resiliency and agility at all times.

For example:

- Business continuity (secure access, enterprise applications, cloud connectivity, web portals, point of sales)
- Real-time experiences (distant learning, messaging, remote collaboration, video streaming, video games, voice over IP)
- Instant order fulfillment (banking, financial trading, online shopping, ride-hailing, airline/hotel reservation systems, service/trouble ticketing)
- Big file transfer (analytics, big data, data backup, disaster recovery, genomics, uncompressed medical files)
- Massive computation (AI/deep learning)
- And much more

Access **secure, scalable, dedicated connectivity** across the globe.

Solution

Our Global Data Center Interconnect facilitates the interconnectivity of our Global Data Centers in all three regions: the Americas, APAC and EMEA. If you are a client with presence in multiple geographic regions in our data centers across the globe and/or you have a business need to interconnect with dense ecosystems of clouds, your business partners and your own network assets, our Global Data Center Interconnect will address these needs.

Our platform helps businesses solve a wide range of complex connectivity issues over one physical connection. For instance:

- **Cloud connectivity:** User can connect to a major cloud service provider (AWS, Microsoft Azure, Google, IBM) for compute, storage, network and other services.
- **Cloud redundancy:** Users can create cloud redundancy by connecting to a single cloud service provider, but connecting to two different cloud on-ramps.
- **Multicloud connectivity:** Users can establish connectivity to more than one cloud service provider for different applications (such as compute and storage).

- **Connect to your own infrastructure:** Users can create network connectivity between their distributed infrastructure deployed at our Global Data Centers for data backup/replication and disaster recovery.
- **B2B Private connectivity:** Users can connect to their customers and partners within our global data center ecosystem.

Our value proposition

As the third-largest data center company globally, our Global Data Centers provides carrier-neutral, cloud rich and interconnected digital infrastructure to leading companies across the globe. Our Global Data Center platform combines tailored, localized experience with the power of our global expertise to deliver mission-critical data centers and a consistent customer experience that will enable your business and digital technology goals.

We're ready to facilitate client adoption of next-generation technologies for computing at scale, virtualization, data migration and cloud and B2B private connectivity both regionally and across the globe.

Global Data Center Interconnect map