



**NTT**



# VLink Ethernet Service

Global IP Network | Service Brochure

## Seamless Interconnections

If you run a business with high-level interconnectivity needs, chances are you use more than one technology platform for networking purposes. However, having multiple connections running different protocols is suboptimal, and a network with a tiered communication structure can be costly, rigid and complicated. Our Global IP Network (GIN) seeks to remedy this with our VLink Ethernet Service and to provide a unified solution for your networking needs.



## VLink Ethernet Service

### Best of Both Worlds

Our VLink Ethernet Service is a virtual data transport service that merges the flexibility and scalability of Layer 3 technology with the dynamic traffic paths and management capabilities of Layer 2. By leveraging our Tier-1 IP backbone, your traffic will receive prioritized buffering and full redundancy with bandwidths from 100 Mbps to 10Gbps. What's more, VLink provides the ability to burst and to run our IP Transit service on the same port.

### Product Specifications

VLink is a Layer 2 Virtual Private Network (L2VPN) solution that utilizes our Multi-Protocol Label Switching (MPLS) based network infrastructure. VLink is a pseudo-wire Ethernet edge-to-edge (PWE3) emulation complying with RFC 4448.

### Available Port Types

In order to support VLink, you must have a Gigabit Ethernet (GE), or 10GE port available on your router or switch to connect to us. Please see the following table for available port types.

Port
Gigabit Ethernet
Ten Gigabit Ethernet
One Hundred Gigabit Ethernet



## Availability

Seamlessly scalable to meet your needs, VLink is available between two or more PoP locations on GIN so you can easily transfer voice, video and data all over the same link at speeds up to 10Gbps.

- Atlanta
- Bay Area/Silicon Valley
- Boston
- Chicago
- Dallas
- Houston
- Los Angeles
- Miami
- New York Area
- Northern Virginia
- Sacramento
- Seattle

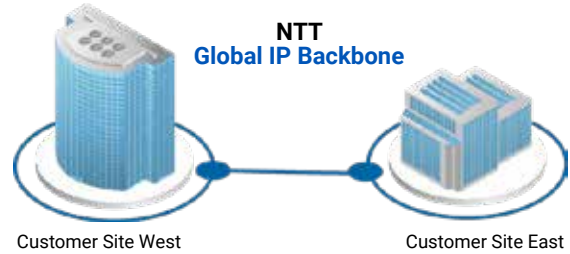
*Northern Virginia includes Ashburn and Reston. Bay Area/Silicon Valley includes San Francisco, San Jose, Palo Alto and Santa Clara. New York Area includes New York City and Newark.*



# VLink Architecture Types

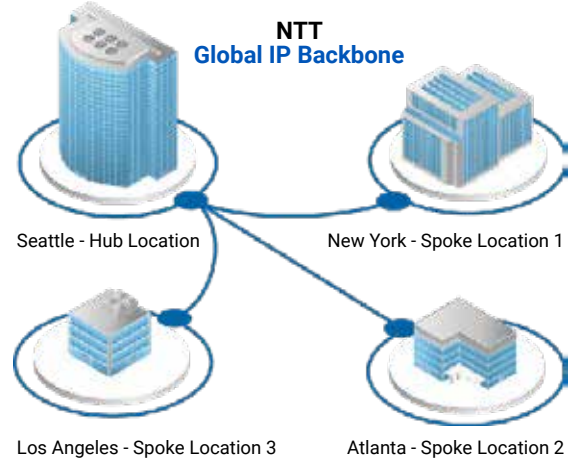
## VLink Direct

VLink Direct creates a point-to-point architecture that provides a seamless connection between two locations. By leveraging our network, enterprises are able to create a Wide Area Network (WAN) extending across two locations.



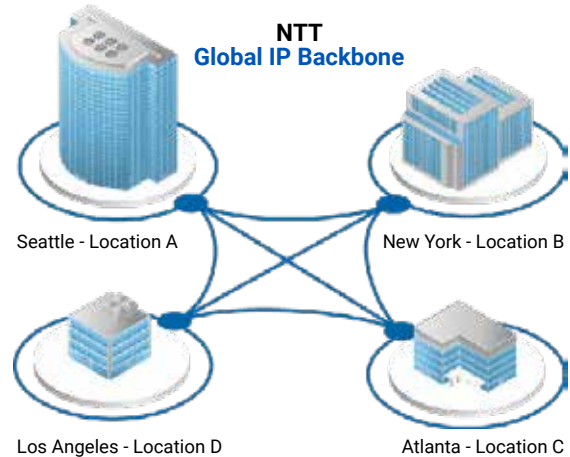
## VLink Plus

With our VLink Plus point-to-multipoint architecture, also referred to as a "Hub and Spoke" configuration, we use our world-class network to connect a primary location to two or more remote locations across our Network. Your connections run at Layer 2, separate from the public Internet. And because your IT staff is familiar with Ethernet connectivity, our point-to-multipoint solution doesn't involve a learning curve.



## VLink Mesh

Our VLink Mesh multipoint-to-multipoint architecture provides a path to interconnect three or more of your locations across our Global IP Network backbone. Using our Global IP Network backbone gives you reliable connections that put your business on the leading edge while helping keep costs down.



## Features

### Supports Customers Use of

- VLAN stacking & existing VLAN tags
- Jumbo frames
- MPLS tags

### Service Level Agreement

- Availability
- Latency
- Packet Loss
- Jitter

### Multiple Layer 3 Protocols

- IPv4 & IPv6
- Any other Layer 3 protocol over Ethernet

### Customer Portal

- Service information & usage reporting





**For more information and updates on the Global IP Network:**

Contact us: [gin@ntt.net](mailto:gin@ntt.net)  
[www.gin.ntt.net](http://www.gin.ntt.net)

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