VLink Ethernet Services

Global IP Network | North America | 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 seeks to remedy this with our VLink Ethernet Service and to provide a unified solution for your networking needs.

VLink Ethernet Services

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 100Mbps 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 our VLink Ethernet Service, you must have a Gigabit Ethernet (GE), or 10GE port available on your router or switch to connect to us.

Availability

Seamlessly scalable to meet your needs, VLink is available between Point of Presence (PoP) locations on the Global IP Network in the following locations in North America:

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

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.

For exact availability, please check with your NTT representative.

Port
Gigabit Ethernet
Ten Gigabit Ethernet

Technical Service Provider Interconnection	VLink supports interconnecting with select Technology Service Providers in markets where we share a presence.
Resiliency Built-In	Leveraging the capabilities of the Global IP Network backbone, VLink automatically re-routes to an alternative path in the event of an outage or maintenance on the primary path.

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.
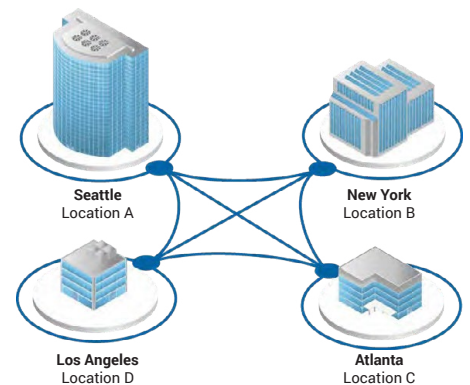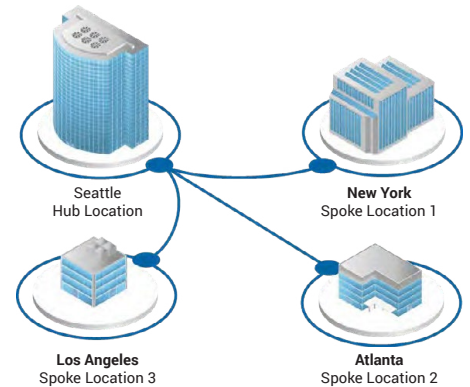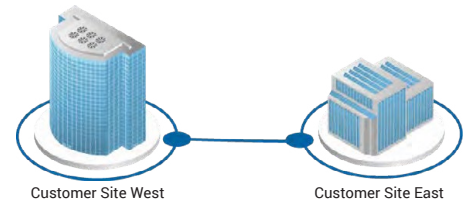
VLink Plus

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.

NTT Global IP Backbone

Customer Site West   Customer Site East

Seattle
Hub Location

New York
Spoke Location 1

Los Angeles
Spoke Location 3

Atlanta
Spoke Location 2

Seattle
Location A

New York
Location B

Los Angeles
Location D

Atlanta
Location C

Features

Supports customers use of	**Service level agreement**	**Multi-Protocol Support**	**Customer portal**
VLAN stacking and existing VLAN tags	Availability	IPv4 and IPv6	Service information and usage reporting
Jumbo frames	Latency	Layer 2 PDU	
MPLS tags	Packet Loss		
	Jitter		

For more information and updates on the Global IP Network:

Speak to our experts