

# Delta1 VPN

A VPN connection is an encrypted and secure site-to-site virtual private network tunnel over the Internet. Monthly Recurring Cost is assessed on a per unique customer gateway. When requesting a VPN, at no additional cost, a VPN setup is issued for the the secondary site. The minimum commitment period is 6 months.

## Overview:

- [Access Design](#)
- [Suggested Customer Configuration](#)
- [Supported Devices](#)
- [Available Services](#)
- [Request a VPN](#)

## Access Design

Delta1 TPIs are accessible via VPN gateways hosted at two US-based geographically separated sites. Each site hosts a public gateway (with the exception of *site-2* which hosts an additional gateway dedicated for the UAT Delta1 TPI, see [Delta1 UAT VPN](#)). For additional information regarding what services are available at each site please see [Connecting to Services](#).

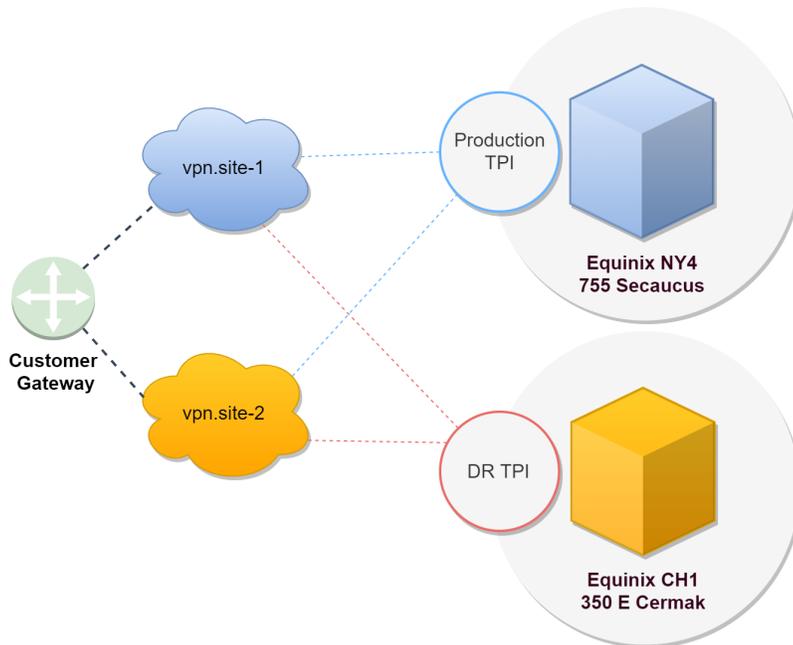
Data Center	Site Moniker	Public Gateway
Equinix NY4	Site-1	vpn.site-1.onechicago.com
Equinix CH1	Site-2	vpn.site-2.onechicago.com

## Suggested Customer Configuration

Both Production and Disaster Recovery Trading Platform Instances are available from VPN Site-1 and Site-2. When a customer requests a VPN setup, configurations are deployed at Site-1 and Site-2. This provides site-level (geographically diverse) redundancy for access to Delta1. Customers are encouraged to configure connectivity to both public gateways (vpn.site-1.onechicago.com, vpn.site-2.onechicago.com) and ensure the appropriate routing design to eliminate downtime in the event of a single site outage. Customers can elect to establish multiple customer gateways to support site-level redundancy for their source infrastructure. To determine what networks to route over VPN tunnels please see [Required Networks and Ports](#).

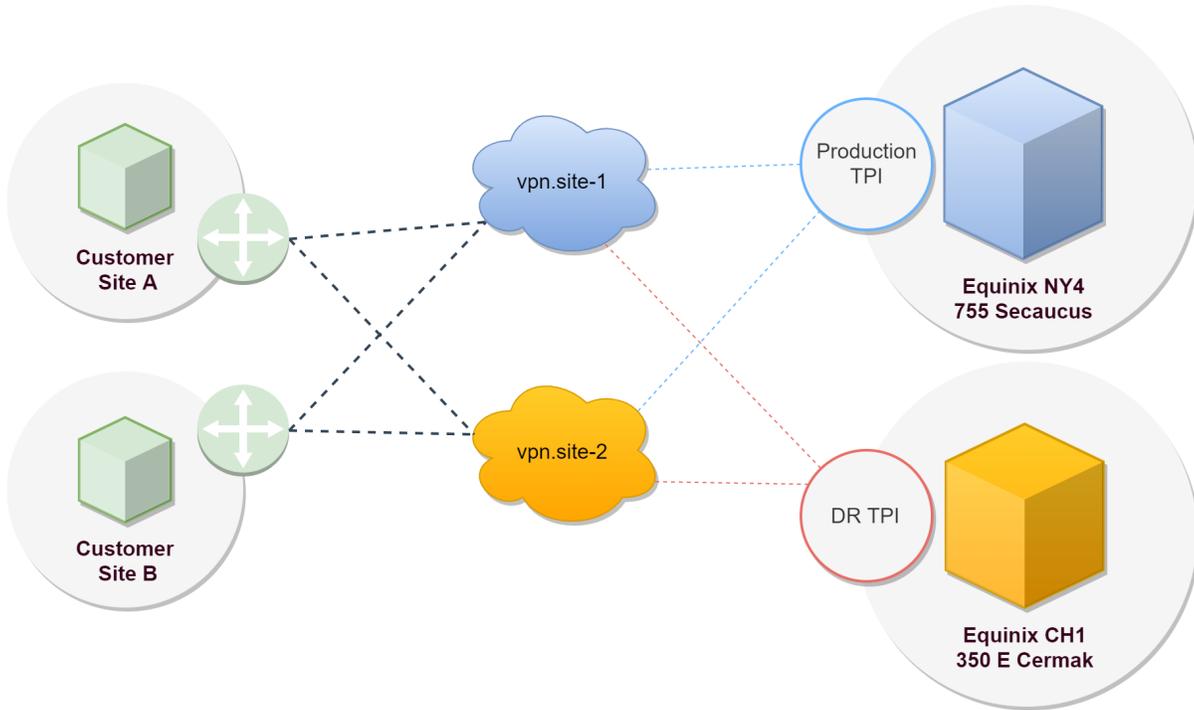
## Minimal Recommended Design

In the below design, a customer has provided the exchange **one (1) gateway** from which their tunnel will initiate. The exchange has deployed **two (2) configurations** to support exchange side multi-site redundancy. The customer has configured **two (2) exchange gateways** to support active IKE security associations to each site.



## Customer Multi-Site Redundant Design (Preferred)

In the below design, a customer has provided the exchange **two (2) gateways** from which their tunnels will initiate. The exchange has deployed **four (4) configurations** to support exchange side multi-site redundancy for each customer gateway. The customer has configured **two (2) exchange gateways at each customer site** to support active IKE security associations to each site.



## Supported Devices

A Customer selecting a VPN connection as its desired connection method is required to have an internet connection and one of the following manufacturers:

- Cisco
- Juniper

The device must support **IKE Version 2**, phase 1 authentication of **SHA-256**, and the interesting traffic must be a **publicly registered subnet**.

## Available Services

- [DeltaOne Trading Front-end](#)

## Request a VPN

Please contact [ops@onechicago.com](mailto:ops@onechicago.com) to request a VPN. Technical inquiries can be directed to our Network Operations Center by email at [NOC@onechicago.com](mailto:NOC@onechicago.com).

## Related Content

- See [Connectivity Fee Schedule](#) for fees associated with this connection.
- Requires a [Connectivity Service Agreement](#)