

# Required Networks and Ports

The application initiates a TCP connection to the [FIX Order Entry Service \(OES\)](#) gateway and [FIX Market Data Service \(MDS\)](#) gateway. Outbound firewalls need to allow traffic from the source workstation running the DeltaOne instance to the below list of networks, ports, and protocols. It is important to note that this list may change. To receive notice of such changes please subscribe to [Notices from the Network Operations Center](#).

## Overview

- [Connectivity Requirements](#)
- [Downloading the Application](#)
- [Technical Details](#)
- [Support](#)

## Connectivity Requirements

All Delta1 TPIs run on closed networks by design. To connect to a TPI using DeltaOne a direct connect or site-to-site VPN is required. All networks for workstations running the DeltaOne instance must be shared to and explicitly permitted by OneChicago. To learn about acquiring connectivity to a trading platform location visit [Connecting to Services](#) or contact the exchange operations at [ops@onechicago.com](mailto:ops@onechicago.com).

## Downloading the Application

DeltaOne is hosted on and downloaded from a Delta1 Data API, accessible only through access to a [Delta1 Trading Platform](#).

### Download URLs

**Production** - <https://data.onechicago.com/deltaone/launch.jnlp>

**User Acceptance Test** - <https://data-uat.onechicago.com/deltaone/launch.jnlp>

## Technical Details

DeltaOne uses hostnames registered to public DNS to resolve and connect to target TPI FIX gateways. Users cannot override this setting. If public DNS is not available from the workstation running the the DeltaOne instance then a local DNS entry must be entered to resolve the target host. However, please note that the IP addresses associated with the entry may change with advanced notice.

## Production / Disaster Recovery

### Destination Subnets

**192.112.37.0/29**

**192.112.37.8/29**

Destination Hosts	TCP Ports
oes.site-1.onechicago.com oes.site-2.onechicago.com	20020 - 20029
mds.site-1.onechicago.com mds.site-2.onechicago.com	40040 - 40049
data.onechicago.com	443

## User Acceptance Test

### Destination Subnets

**192.112.37.48/29**

Destination Hosts	TCP Ports
oes.site-uat.onechicago.com	20020 - 20029
mds.site-uat.onechicago.com	40040 - 40049
data-uat.onechicago.com	443

## Support

Introducing a PAT, NAT, or custom DNS entry for a Delta1 TPI can create additional complexity and lead to longer resolution times. If users decide to implement this design please be sure to convey this to your organization's end-users. When opening a support ticket with OneChicago include any information regarding the implemented design. OneChicago NOC is available to on-board or troubleshoot any connectivity related issue. Not sure about your design, feel free to email [NOC@onechicago.com](mailto:NOC@onechicago.com) and we'll get you connected.