



N2EX

Connectivity Guideline

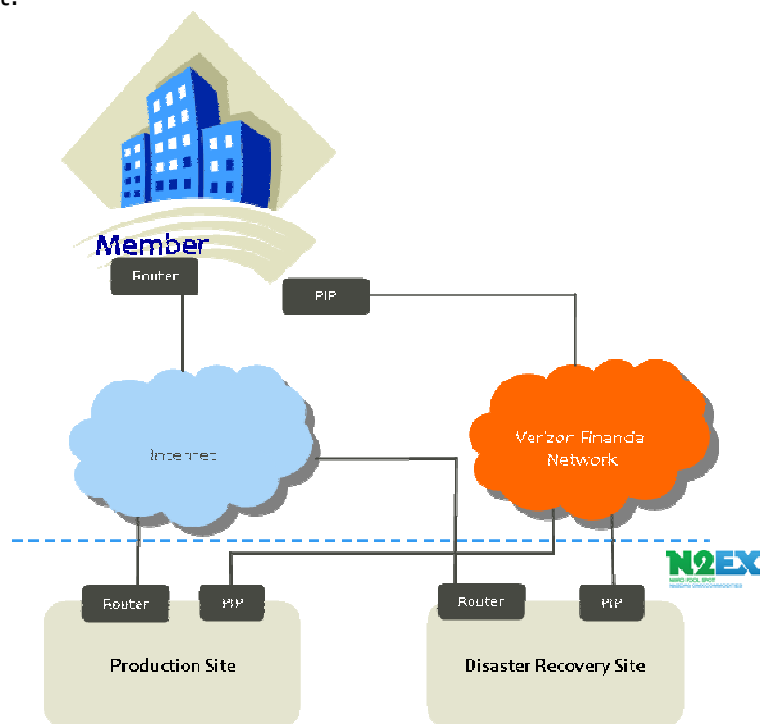
Updated: 2009-03-17

1. Introduction

This document provides a guide to access N2EX systems - test and production.

2. Connectivity Access

Members may choose between two different connectivity solutions – One Access (Leased Line) or Internet.



2.1 One Access (Leased Line)

Using a lease line access, all data communication circuits connecting to the exchange platform are administered and monitored by a service provider. For N2EX the service provider is Verizon with its Verizon Financial Network and Private IP service (PIP).

The connectivity responsibility extends to the LAN interface on the network hardware from which point it connects inwardly to the member internal network. Members are responsible for the installation and test of the front-end software on the member's network.

2.2 Internet

Connectivity to N2EX exchange platform can also be facilitated through the internet. Internet communication to N2EX systems is redundant with a high service level.

Member obligations:

- Installed and functioning LAN
- Operational Internet connectivity
- Complete setup of hardware and secondary software. This must be in place before deployment in order to proceed with connectivity testing.

3. Exchange Systems Access

After a connectivity solution has been chosen and setup is completed, members may request access to N2EX environments by submitting an access form. Forms and other documents can be found on the N2EX website: **www.n2ex.com**

3.1 Test system

A test system is available for testing functionality, interfaces and new software releases. Training sessions can also be scheduled to support members and ISVs to develop and test their trading, back office and clearing applications.

Members can test full business cycles for all markets including after trade procedures. Access details below.

Connectivity from Internet

Spot Market	IP Address	217.73.4.6	DNS	test.uktrading.n2ex.com
Prompt Market	IP Address	217.73.4.6	DNS	test.uktrading.n2ex.com
Auction Market	IP Address	217.73.4.7	DNS	test.ukauction.n2ex.com
Clearing	IP Address	217.73.4.8	DNS	test.ukclearing.n2ex.com

3.2 Production system

To be defined

4. Exchange Platform Applications

4.1 Software Prerequisites

The minimum requirements to run N2EX member applications are:

- Microsoft Windows 2000/XP
- Microsoft Internet Explorer 6.0 or later
- Microsoft .NET Framework 2.0

4.2 Exchange Applications

To access the exchange applications enter the address to the test system in a web browser. Use the account details provided by N2EX (after submitting access form).

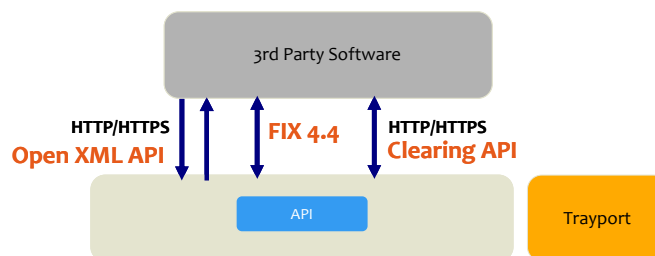
Exchange Applications

CONDICO Trade	Address	http://test.uktrading.n2ex.com:443
SAPRI Trade	Address	http://test.ukauction.n2ex.com:443
CONDICO Clearing Station	Address	http://test.ukclearing.n2ex.com:443

Please refer to N2EX Exchange Quick Guide documentation for information on how to use the applications.

4.3 Exchange Interfaces

The exchange platform has a common access layer that offers three equivalent APIs that can be used for access to all three markets – Prompt, Spot, Auction. APIs are available for both trading and clearing solutions.



Trading Interfaces

Spot Market	Address	http://test.uktrading.n2ex.com:443
Prompt Market	Address	http://test.uktrading.n2ex.com:443
Auction Market	Address	http://test.ukauction.n2ex.com:443

N2EX – the UK power market offering from Nord Pool Spot and NASDAQ OMX Commodities

Clearing Interfaces

Spot Market	Address	http://test.ukclearing.n2ex.com:443
Prompt Market	Address	http://test.ukclearing.n2ex.com:443
Auction Market	Address	http://test.ukclearing.n2ex.com:443

Please refer to N2EX Exchange Interfaces documentation for detailed information.

5. Order process

The ordering process for connectivity to N2EX environments consists of following steps:

- Submit Connectivity Access form (Internet or One Access)
- Submit Test Environment Access form
- Submit Production Environment Access form - **To be completed**
- Receive user account details

6. Contact details

For any questions regarding access to the test systems and to submit forms, please contact. **To be defined**

(Prior to market launch) condico-support@nasdaqomx.com