



CCX & CCFE Trading Platform End-User (Client) System Requirements

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Introduction

This document is intended for trading participants of the CCX & CCFE Trading Platform (“Trading System”) and provides specific and technical requirements for using the Trading System.

The following are the minimum software and hardware requirements for running the Trading System:

Software Requirements

- Operating Systems: Microsoft Windows NT4 / 2000 Professional / XP Professional, Vista, Apple Operating Systems
- Additional Software: Sun Java Plug In 1.6_03 or later
- Browsers: Mozilla Firefox 2, 3, Internet Explorer 6, 7, Safari

To download SUN Java, go to <http://www.java.com>

Hardware Requirements

- For single core CPUs, we recommend at least a 3 GHz CPU. For dual Core CPUs we recommend at least a 2 GHz CPU
- We recommend at least 1GB of total memory with a minimum of 256 of available free memory for use when running the Trading System and all other user applications

Network and Infrastructure Requirements

Local Area Network (LAN) Considerations

The devices and infrastructure between the workstation and the Wide Area Network (WAN) connection are critically important to the proper functionality of Trading System. This is comprised of the Network Interface Cards (NICs), switches, routers, proxy servers, firewalls and the cabling that connects them.

Throughout your LAN it is important to specify speed at both ends of the connection. This is accomplished by setting the workstation NIC and the port at the switch/hub/router to a speed of 100Mbps and Full-Duplex. Lower speeds are acceptable as long as they are consistent between two interconnected devices.

Firewalls

As long as ports 80/443 and 10000-10999 are open for outbound traffic on the firewall, the CCX Trading System will be able to function. In general we recommend that if your network configuration includes both a proxy server and a firewall, that the platform traffic be allowed to bypass the proxy and go directly to the firewall.

Proxy Servers

CCX & CCFE recommends against the use of proxy servers for the platform due to the fact that they typically are not well-suited for streaming data applications and slow the speed of market data delivery. If it is not possible to bypass the proxy, the Trading System will work with most proxy servers that utilize basic authentication as long as it can retrieve the proxy server settings (host name and port) in one of the following ways: The proxy settings are configured in the browser. The Trading System will retrieve the settings directly from the browser. If the browser is configured with an auto-proxy script, the current version of the Trading System requires that the settings be configured via the Java control panel. The Trading System provides integrated support for authenticating proxies such as Microsoft ISA Proxy configured to use NT Challenger/Response (NTLM). The Trading System will prompt the user for the authentication credentials to the proxy, and will use these values to authenticate against the proxy. The user will only be prompted for these credentials upon the first login. After that, the credentials are encrypted and securely stored in the local data directory.

PROD ENVIRONMENT

Network Administrators: Allow access to *.chicagoclimatex.com and *.chicagoclimateexchange.com to connect into the Trading System (Production Environment) users must have (at a minimum) access to the specific hosts listed below:

WEBSERVERS

- app.chicagoclimatex.com (serves the .jar files for the Trading System)
63.247.112.6
Ports (outbound): 80/443 and 10000-10999

Cluster1	trading.prod.chicagoclimatex.com webice1.theice.com	63.247.112.129	63.247.112.130	63.247.112.131
Cluster2	webice2.theice.com	63.247.112.132	63.247.112.133	63.247.112.134
Cluster3	webice3.theice.com	63.247.112.135	63.247.112.136	63.247.112.137

- Multiple clusters are provided to allow for upgrades to new versions of the Trading System and/or new System specifications.

- Access to each cluster should be provisioned through any firewall/
Additionally, you must allow access to each of the following services you utilize:

COUNTER-PARTY FILTER, DEAL REPORTS, and CCX Registry

- cp.chicagoclimatex.com.com
63.247.112.18
Ports: 80/443
- reports.chicagoclimatex.com.com
63.247.112.20
Ports: 80/443
- registry.chicagoclimatex.com
66.225.247.87
Ports: 80/443

STAGING ENVIRONMENT

The Staging environment is a non-production environment that is designed for user training and testing. There is no financial impact to executing trades in this environment.

Network Administrators: Allow access to *.chicagoclimatex.com and *.chicagoclimatexchange.com to connect into the Trading System (Staging Environment) users must have (at a minimum) access to the specific hosts listed below:

WEBSERVERS

- app.chicagoclimatex.com (serves the .jar files for the trading platform)
63.247.113.174
Ports (outbound): 80/443 and 10000-10999

Cluster1	webice.staging.theice.com	63.247.113.155
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Additionally, you must allow access to each of the following services you utilize:

COUNTER-PARTY FILTER, DEAL REPORTS, and CCX Registry

- staging.cp.chicagoclimatex.com.com
63.247.113.165
Ports: 80/443
- staging.reports.chicagoclimatex.com
63.247.113.146
Ports: 80/443
- registry.staging.chicagoclimatex.com
66.225.247.83
Ports: 80/443