CQG Trader Technical Specifications

December 1, 2014 | Version 2014-05

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About this Document

CQG Trader is a high-performance market data and electronic trading platform for traders who don't require technical analysis tools.

This document provides the information you need to understand the system specifications and communication protocols for CQG Trader.

The most current version of this document is always available at:
http://www.cqg.com/Docs/CQGTraderTechSpec.pdf

Recent Publication History

Note that the most recent changes are colored **bold**, **red** in the document.

Date	Version	Changes
December 1, 2014	2014-05	Removed XP from supported operating systems.
September 16, 2014	2014-04	Updated Configuring CQG Trader for Use with Proxy Servers.
May 30, 2014	2014-03	Added Windows 8 to the list of supported OS.
February 13, 2014	2014-02	Added a network and updated two networks in Internet Communication. Added Tokyo to Production Environment IP Addresses. Added Tokyo to Data Servers.
January 6, 2014	2014-01	Updated Internet Communication, Production Environment IP Addresses, and Singapore Data Servers with new IP addresses.

Customer Support

CQG Customer Support is available to help you. Please call them at 1-800-525-1085 or e-mail them at websupt@cqg.com.

Computer Specifications

To help you maximize your CQG Trader experience, we provide both required and recommended system specifications for running CQG Trader. These specifications are appropriate for single and dual monitor setups. If you have three or four monitors, you will need a higher performance processor, video card, and network connection.

	Minimum Requirements	Recommended
Operating System	Windows 8, Windows 7, and Windows Vista~~, and Windows XP~~ are supported.	Windows 7
Processor	Intel® Pentium® 4 3.0 Ghz	Dual-Core. Intel Core™ 2 Duo (2.33 Ghz or better)
Memory	1GB RAM	2GB RAM
Hard Drive	7200RPM with at least 1GB of free hard disk space	7200RPM with at least 4GB of free hard disk space
Video Card	128Mb of memory (If multi-monitor, 128Mb per video card)	128Mb of memory (If multi-monitor, 128Mb per video card)

Internet: CQG Trader requires Internet service via a high-speed connection, such as DSL, cable, or fixed wireless/wireless local loop (WLL). Wireless Internet connections are not recommended, especially broadband over a Wi-Fi card. Dial-up is not supported. All network communications between CQG customers and servers are initiated from the client side. The destination port number at the server side is 2823, CQG's registered port number. CQG also uses a secure connection, port number 443, for authorization purposes.

System Settings: Hibernate and stand by modes cannot be used on a system running CQG Trader. Hard drive power-saving features should also be disabled.

Internet Communication

Port numbers	Description	Required
80, 443	WebTrader, CAST	No
443	CQG Trader pre-authentication and update checks	Yes
2823	Order-routing and market data	Yes

Traffic between CQG clients and servers uses TCP protocol. UDP protocol is not used.

All network connections between CQG clients and servers are initiated from the client side. No connections are initiated by the server.

Source ports at the client side are always system-assigned port numbers in the 1025-5000 range.

User-specific secure information, such as passwords, are encrypted.

Only one simultaneous connection per user is permitted.

Network	Subnet Bits	Subnet Mask	IP Range
8.18.160.0	24	255.255.255.0	8.18.160.0 to 8.18.160.255
64.208.51.0	24	255.255.255.0	64.208.51.1 to 64.208.51.254
66.77.164.128	26	255.255.255.192	66.77.164.129 to 66.77.164.190
67.152.7. 0	24	255.255.255.0	67.152.7.1 to 67.152.7.254
114.31.92.64	27	255.255.255.224	114.31.92.65 to 114.31.92.94
118.201.11.192	26	255.255.255.192	118.201.11.193 to 118.201.11.254
183.91.40.24	29	255.255.255.248	183.91.40.25 to 183.91.40.30
203.192.64.128	25	255.255.255.128	203.192.64.129 to 203.192.64.254
208.48.16.0	24	255.255.255.0	208.48.16.1 to 208.48.16.254
216.219.76.64	26	255.255.255.192	216.219.76.65 to 216.219.76.126

CQG reserves the right to add or change, at any time, IP addresses within the ranges provided.

Server Addresses

CQG reserves the right to add or change IP addresses at any time.

Production Environment IP Addresses

Function	IP	Primary Address
IMS	64.208.51.207	cqginchi002ims1i.cqgnet.com
IMS	64.208.51.212	cqginchi002ims2i.cqgnet.com
IMS	64.208.51.214	cqginchi002ims3i.cqgnet.com
IMS	208.48.16.209	cqginqwc016ims1i.cqgnet.com
IMS	208.48.16.249	cqginqwc016ims2i.cqgnet.com
IMS	208.48.16.240	cqginqwc016ims3i.cqgnet.com
IMS	67.152.7.202	cqginnyc033ims1i.cqgnet.com
IMS	67.152.7.203	cqginnyc033ims2i.cqgnet.com
IMS	67.152.7.204	cqginnyc033ims3i.cqgnet.com
News	66.77.164.163	cqgnews.cqgdata.com
Trading	208.48.16.200	www.cqgtrader.com
Trading	8.18.160.10	www5.cqgtrader.com
Trading London	216.219.76.110	europe.cqgtrader.com
Trading Singapore	118.201.11.201	sng.cqgtrader.com
Trading Sydney	203.192.64.137	au.cqgtrader.com
Trading Tokyo	114.31.92.73	tokyo.cqgtrader.com

Demo and Simulator Environment IP Addresses

IP	Address
208.48.16.202	demo.cqgtrader.com
64.208.51.202	cqginchi032i.cqgnet.com
66.77.250.38	cqginsfd008i.cqgrdnet.com
64.208.51.213	cqginsfc003i.cqgrdnet.com
64.208.51.215	cqginsfc005i.cqgrdnet.com
64.208.51.210	cqginsfc011i.cqgrdnet.com
66.77.250.32	cqginsfd002i.cqgrdnet.com
67.152.7.206	cqginsfn001i.cqgrdnet.com
67.152.7.211	cqginsfn002i.cqgrdnet.com
67.152.7.207	cqginsfn003i.cqgrdnet.com
208.48.16.8	cqginsfq001i.cqgrdnet.com

Data Servers

CQG reserves the right to add or change IP addresses at any time.

Australia

IP	Address
203.192.64.143	cqginsyd005i.cqgnet.com
203.192.64.149	cqginsyd007bi.cqgnet.com
203.192.64.150	cqginsyd008bi.cqgnet.com

London

IP	Address
216.219.76.124	cqginlon013i.cqgnet.com
216.219.76.125	cqginlon014i.cqgnet.com

Singapore

IP	Address
118.201.11.207	cqginsng005i.cqgnet.com
118.201.11.213	cqginsng007bi.cqgnet.com
118.201.11.214	cqginsng008bi.cqgnet.com

Tokyo

IP	Address
114.31.92.76	cqgintok001bi.cqgnet.com
114.31.92.78	cqgintok002bi.cqgnet.com

U.S.

IP	Address
64.208.51.229	cqginchi006i.cqgnet.com
64.208.51.237	cqginchi014i.cqgnet.com
64.208.51.238	cqginchi015i.cqgnet.com
64.208.51.242	cqginchi019i.cqgnet.com
64.208.51.243	cqginchi020i.cqgnet.com
64.208.51.245	cqginchi022i.cqgnet.com
64.208.51.249	cqginchi026i.cqgnet.com
64.208.51.250	cqginchi027i.cqgnet.com
64.208.51.252	cqginchi029i.cqgnet.com
67.152.7.240	cqginnyc017i.cqgnet.com
67.152.7.241	cqginnyc018i.cqgnet.com
67.152.7.242	cqginnyc019i.cqgnet.com
67.152.7.243	cqginnyc020i.cqgnet.com
67.152.7.244	cqginnyc021i.cqgnet.com
67.152.7.245	cqginnyc022i.cqgnet.com
67.152.7.249	cqginnyc026i.cqgnet.com
67.152.7.250	cqginnyc027i.cqgnet.com
67.152.7.251	cqginnyc028i.cqgnet.com
67.152.7.253	cqginnyc030i.cqgnet.com
67.152.7.254	cqginnyc031i.cqgnet.com
67.152.7.223	cqginnyc032i.cqgnet.com
208.48.16.234	cqginqwc011i.cqgnet.com
208.48.16.245	cqginqwc022i.cqgnet.com
208.48.16.250	cqginqwc025i.cqgnet.com

IP	Address
208.48.16.217	cqginqwc030i.cqgnet.com
208.48.16.218	cqginqwc031i.cqgnet.com
208.48.16.220	cqginqwc033i.cqgnet.com

Firewalls and Proxies

Firewalls

CQG Trader supports these firewall configurations:

- Network address translation

- Dynamically assigned ports on the client side

Proxies

CQG Trader supports SOCKS 4, SOCKS 5, and HTTP proxy services as well as a Winsock redirector, such as Microsoft® Proxy Server 2.0.

To connect through a proxy server, you must modify configuration settings, by changing the configuration files, following the successful installation of CQG Trader.

Configuring CQG Trader for Use with Proxy Servers

To be used through a proxy, CQG Trader requires both HTTP and SOCKS proxy services.

CQG Trader uses Internet Explorer (IE) default HTTP proxy settings. You can override default values by editing the CQG.Trader.Application.exe.config file. If set up in IE, Web Proxy Auto-Discovery (WPAD) & proxy.pac configuration are also supported.

SOCKs is configured in the NetsConfiguration.ini file.

To override HTTP proxy

1. Open CQG.Trader.Application.exe.config. Default location: C:\Program Files\CQG\CQG Trader\Bin.

2. Replace <defaultProxy> section with:

```
<defaultProxy>
        <proxy usesystemdefault="true" proxyaddress=http://PROXY:PORT
bypassonlocal="true" />
    </defaultProxy>
```

    Replace PROXY with the name or IP address of your HTTP proxy server.

    Replace PORT with the proxy port number, typically 8080.

3. Save the file and restart CQG Trader.

To bypass proxy using direct connection to CQG Trader

1. Open CQG.Trader.Application.exe.config. Default location: C:\Program Files\CQG\CQG Trader\Bin.

2. Replace the <defaultProxy> section with:

```
<defaultProxy>
    <bypasslist>
    <add address="[a-z]*$" />
    </bypasslist>
</defaultProxy>
```

3. Save the file and restart CQG Trader.

To bypass proxy using configuration in PAC file

Set up an exceptions list in proxy.pac to bypass the proxy. For example:

```
function FindProxyForURL(url, host) {
        // connection to CQG servers via HTTPS don't need a proxy:
        if (shExpMatch(host, "*.cqgtrader.com"))
        {
              return "DIRECT";
        }
        if (shExpMatch(host, "*.cqgnet.com"))
        {
              return "DIRECT";
        }
        if (shExpMatch(host, "*.cqgrdnet.com"))
        {
              return "DIRECT";
        }
        //rest of file
}
```

To configure SOCKS proxy

1. Open NetsConfiguration.ini Default location: C:\Users\<user>\AppData\Local\CQG\CQGTrader.

2. Add:

```
ProxyType=SOCKS5
SOCKS5_Host=%PROXY%
SOCKS5_Port=%PORT%
SOCKS5_DNS=1
SOCKS5_User=%USER_NAME%
SOCKS5_Password=%USER_PASSWORD%
```

Replace PROXY with the name or IP address of your HTTP proxy server.

Replace PORT with the proxy port number.

Optionally, replace USER_NAME with username for the proxy. Omitted if no user authentication.

Optionally, replace USER_PASSWORD with user's password for the proxy. Omitted if no user authentication.

3. Save the file and restart CQG Trader.

Installation

Microsoft's 3.5 .NET Framework SP 1 is required. If this version of the .NET framework is not detected during installation, the system notifies you. Note that COM and ActiveX components are registered during installation.

Entitlements and Permissioning

CQG remotely manages entitlements associated with CQG Trader. Each user has a specific set of entitlements that are accurately reflected in CQG's monthly billing. CQG is able to flag customer accounts to prevent any unauthorized entitlement.