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About the IB Gateway

The IB Gateway acts as a bridge between your FIX engine and the IB trading system, and is required for FIX CTCI connections over the Internet. The software can be also be used to deliver market data, using the same protocol as the IB API. A list of the API market data functions supported through the IB Gateway is included on the last page of this document.

NOTE: When you use the API functions, the IB Gateway takes the place of TWS, consequently you do not need to have a TWS session running.

The gateway client communicates over the internet using SSL on TCP port 4001. Firewall permissions may need to be made for that port.

It is important to note that separate accounts are required for **FIX order routing** and **API market data requests,** and the IB Gateway Login box provides two separate login areas.

There are "throughput limits" at the gateway, and the client will be warned if the predefined limits are exceeded. The limits and warnings are as follows:

- Limit: If more than 50 messages per second or 33000 bytes per second are sent...
- Warning: Initially, user defined warning messages will be sent via FIX (35=U, 58=Text String describing the warning, and 6040=34 for the first two warnings). If the "throughput limits" are exceeded a third time, the socket will be broken.

Using the Gateway Client

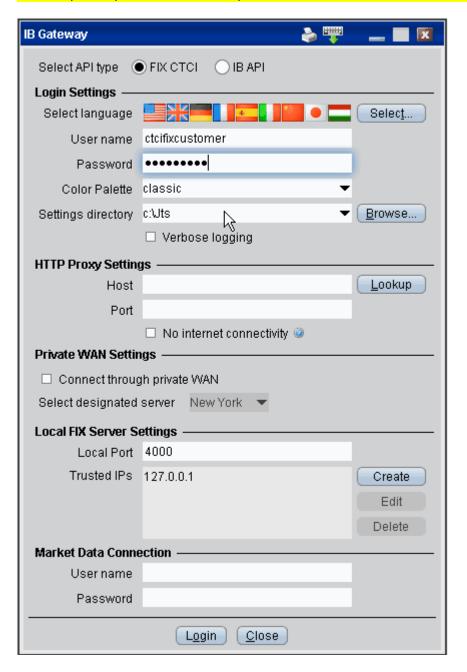
The gateway client is a java program, allowing it to run on any machine that has the Java Runtime Environment installed on it. IB recommends using JRE 6 or higher, which can be downloaded directly from Sun Microsystems at www.java.com

You can log into the IB Gateway from the Login menu of the IB web site, or download the standalone version from the FIX CTCI Connectivity page.

Logging In to the IB Gateway

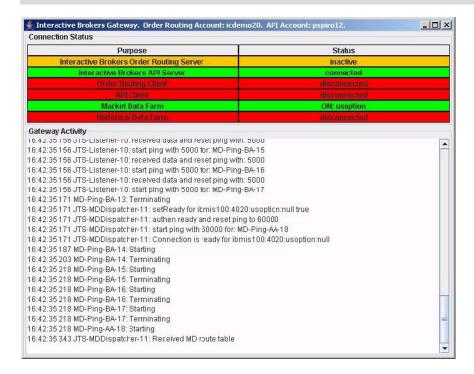
The login box provides radio button selections for the FIX CTCI or IB API connection type. Ensure that the FIX CTCI radio button is selected. Note that the FIX CTCI login box can accept two sets of login credentials: **Login Settings** is used to connect to a FIX session (and requires a FIX username and password issued by the Client Integration group) and the **Market Data Connection** fields are used to get market data via the API. You can log into just the FIX, just the Market Data, or both simultaneously, depending on your requirements. See the last section for a list of API messages supported by the IB Gateway.

NOTE: If you only want market data, you can also select the IB API radio button and log into the IB Gateway for API.

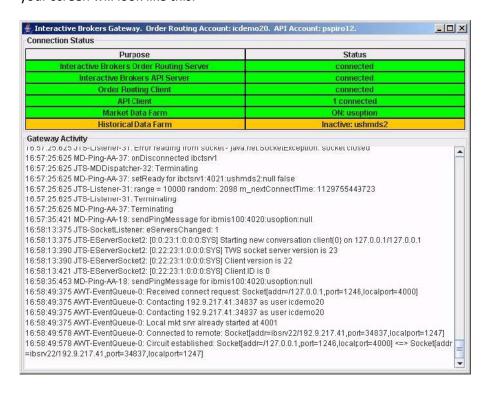


After you log into the FIX session, you can connect your FIX engine to the IB Gateway client. You will see a screen that looks like the one below. Status indicators show the status of the connections to and from the IB Gateway client.

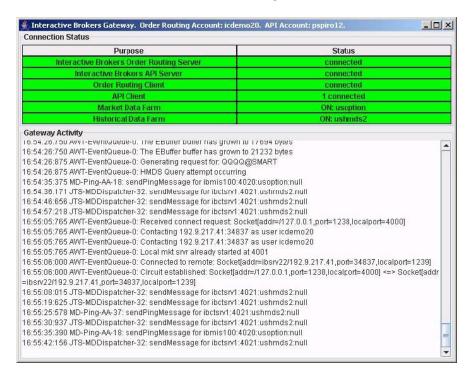
Note that for FIX CTCI order routing, the client will connect and then disconnect until a FIX engine is connected to it on the user's side.



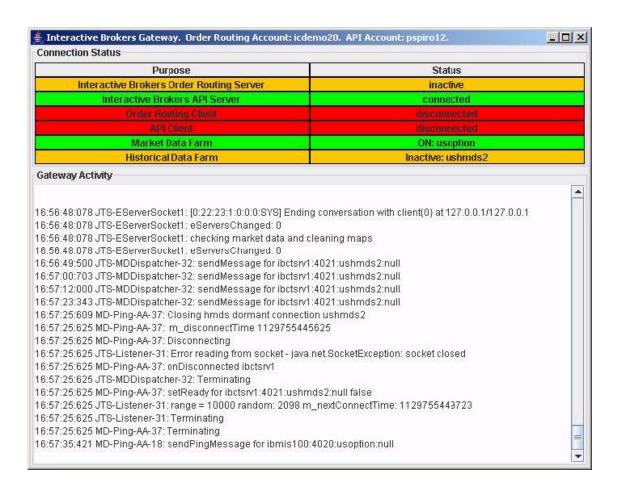
If you log into both, once the FIX engine and/or API client software have successfully connected to the client software, your screen will look like this:



The Historical Data Farm indicator will only show green when a historical market data request or scanner subscription has been made, as is shown in the following screenshot:



The screenshot below shows that the local FIX engine and API client have disconnected:



API Messages Supported by the IB Gateway Client

At this time, the following API market data functions are supported by the IB Gateway client:

- Request Contract Details
- Request Market Data
- Cancel Market Data
- Request Market Depth
- Cancel Market Depth
- Request Historical Data
- Cancel Historical Data
- Request Scanner Subscription
- Cancel Scanner Subscription
- Request Scanner Parameters
- Request Account Updates

To find details on using the above methods, please refer to the API Reference Guide.