ICE XL
Network & System Requirements

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1. OVERVIEW

ICE XL is a Microsoft Excel tool which allows users to access ICE real-time and historical data in an intuitive, flexible and powerful interface for clean visualization and statistical analysis. The functionality and workflow encourages users to create dynamic worksheets that increase productivity and minimize risk.

ICE XL utilizes native Excel RTD calls and .NET to provide an efficient, responsive and integrated tool. From simple requests to complicated formulas and forward curves, ICE XL offers an easy and effective way to utilize data in Excel.

2. CONTACTING CLIENT SUPPORT

Telephone:

AMERS: +1 770 999 4501 Option 4, Sub-Option 1

EMEA: +44 203 948 6501 Option 4, Sub-Option 1

APAC: +65 6817 6211 Option 4, Sub-Option 1

Email: *DesktopClientSupport@theice.com*

3. SYSTEM REQUIREMENTS

Minimum Operating System Requirements:

- Microsoft Windows 11, Windows 12
- Microsoft Excel 16.x or later (32-bit and 64-bit) -
    - Tested with versions - Excel 16.x and Office 2021
- .NET Framework 4.8 or later
- ClickOnce Installation method doesn't support add-ins
- No support for MAC OS
- No support for Google Sheets
- CITRIX is not supported
- Python integration requirements: Python 3.4 or later

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4. INSTALLATION LOCATIONS

ICE XL installer: https://www.ice.com/market-data/desktop-solutions/ice-connect/excel-add-in

ICE XL will be installed into following locations.

Root of ICE XL data directory is subdirectory of folder pointed by %localappdata% environment variable.

- By default for single-user, %localappdata%\ICE Data Services\ICE XL
    - Log directory: %localappdata%\ICE Data Services\ICE XL\Log
- By default for multi-user installation: %programfiles%\ICE Data Services\ICE XL

Note: Users have option to customize the installation path.

Registry requirements:

Two main registry hives of interest are HKEY_LOCAL_MACHINE (HKLM) and HKEY_CURRENT_USER (HKCU). Default registry setup allows all users to read both HKCU and HKLM hives, and to edit only what applies to that user (HKCU hive). For other setups, Administrator rights are needed for editing HKLM. An Administrator might or might not be able to edit other users' hives.

5. APPLICATION WHITELISTING

ICE XL relies on the following binaries to launch the plug-in in the Excel. Please ensure that the following paths, in addition to the ones required by Microsoft Excel, are allowed to execute.

All files in bin folder and subfolders should be whitelisted.

- %localappdata%\ICE Data Services\ICE XL\bin*.exe
- %localappdata%\ICE Data Services\ICE XL\bin*.dll

The DLLs and EXEs listed below are organized by their function for reference purposes:

- *%localappdata%\ICE Data Services\ICE XL\bin\CXPublisher.exe*
- *%localappdata%\ICE Data Services\ICE XL\bin\CUReg.exe - registration tool*
- *%localappdata%\ICE Data Services\ICE XL\bin\ XL.Ribbon.dll - main COM Excel Add-in*
- *%localappdata%\ICE Data Services\ICE XL\bin\ICEXLL-AddIn64-packed.xll - XLL add-in for 64 bits*
- *%localappdata%\ICE Data Services\ICE XL\bin\ESRTDAddIn_x64.xll - legacy XLL add-in for 64 bits*
- *%localappdata%\ICE Data Services\ICE XL\bin\ICEXLL-AddIn-packed.xll - XLL add-in for 32 bits*
- *%localappdata%\ICE Data Services\ICE XL\bin\ESRTDAddIn.xll - legacy XLL add-in for 32 bits*

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6. FIREWALLS

The application utilizes a streaming socket connection on 443 for its data traffic. Network Firewalls should be configured to allow Web Socket Secure (WSS) and HTTP(S) Secure **outbound TCP connections on port 443**.

Firewall/Proxy Access:

ICE strongly recommends that clients allow access to the entire range of IP addresses and domain suffixes provided below.

- Allow access to the entire range
  - 158.224.34.0 /24
  - 158.224.35.0 /24
  - 158.224.36.0 /24
  - 158.224.70.0 /24
  - 216.221.208.0 /20 (216.221.208.0-216.221.223.255)
- TCP Ports: 443
- Secure HTTP (HTTPS) and Web Socket Secure (WSS) traffic needs to be allowed.

7. PROXY SERVERS

The ICE XL application will make HTTPS calls and Secure WebSocket calls to various resources that it needs in order to function. If traffic is being routed through a Proxy Server please ensure that the following domains are allow-listed. Authenticated proxy servers are not supported by ICE applications.

- https://*.ice.com
- https://*.dataservices.ice.com
- https://*.theice.com
- https://*.dataservices.theice.com
- https://*.icedataservices.com
- https://*.futuresource.com
- *Domain names prefixed with "wss://wsstream"*
  - *Example(s):*
    - *wsstream1-005.dataservices.theice.com*
    - *wsstream1.dataservices.ice.com*

Some components of the application will require additional domains to be allow-listed in order to function properly. Please reach out to Client Services if partial components are not functioning as expected and have questions or need more information.

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Example 1 - Streaming data from ICE servers requires TCP connection to stream1-cflx.dataservices.ice.com and port#443 or Secure WebSocket connection to wss://wsstream1.dataservices.ice.com and port#443

Example 2 - WebICE customers requires WebSocket connection to trade.ice.com

Example 3 - Reference data customer requires HTTPS connection to api.icedataservices.com

Web/HTTP Proxy

The application can stream its data through a HTTPS Proxy using Port 443 (HTTPS CONNECT). When it is set to use Port 443, it will first check System Settings to see if a Web Proxy is specified. If one is detected it will try to connect, if no Proxy is detected it will make a **Direct TCP connection** on the Port.

8. ICE Python

Python is widely used in the industry for financial data analysis and modeling. ICE Connect supports direct integration with Python, allowing users to access market data for advanced visualization and statistical analysis within their local desktop environment. See the below link for additional details.

ICE Python: https://www.ice.com/fixed-income-data-services/access-and-delivery/desktop-web-platforms/python

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