dxFeed APIs Overview

What is API?

An application programming interface (API) is a set of rules and standardized requests which allows communication between programs and services.

Current list of supported API

- Java
- C/C++/C#
- REST
- JavaScript/SSE/Websocket
- FIX
- Python

In development

- R

Software Compatibility Matrix
Common

Product	Minimum Requirement
TLS	1.2
JRE (oracle)	8.0
.NET studio	4.6
Jetty	9.2+

For C API

- Language standard C is C11
- For C++ language standard is C++11

API usage
Request types

dxFeed supports Get and post requests:

	Get	Post
BACK button /Reload	Harmless	Data will be re-submitted (the browser should alert the user that the data is about to be re-submitted)
Bookmarked	Can be bookmarked	Cannot be bookmarked
Cached	Can be cached	Not cached
Encoding type	application/x-www-form-urlencoded	application/x-www-form-urlencoded or multipart/form-data. Use multipart encoding for binary data
History	Parameters remain in browser history	Parameters are not saved in browser history
Restrictions on data length	Yes, when sending data, the GET method adds the data to the URL; and the length of a URL is limited (maximum URL length is 2048 characters)	No restrictions

	Only ASCII characters allowed		No restrictions. Binary data is also allowed
Restrictions on data type	Only ASCII characters allowed		No restrictions. Binary data is also allowed
Security	GET is less secure compared to POST because data sent is part of the URL. Never use GET when sending passwords or other sensitive information!		POST is a little safer than GET because the parameters are not stored in browser history or in web server logs
Visibility	Data is visible to everyone in the URL		Data is not displayed in the URL

API integration

To successfully integrate dxFeed API:

1. Check out dxFeed documentation.
2. Take a look at dxFeed samples.

Can I use dxFeed on more than one computer at the same time?

You can use dxFeed on more than one computer at the same time. For this, all IP addresses should be whitelisted.

API integration

Product	Solution
QD feed	Websocket
News	News API
Auther	Auther API
SAS	Websocket
IPF	Websocket
Tickdata	Websocket
Rest	Websocket (event.json)
Orcs	ORCS API

For any technical issues or questions, please check out the dxFeed API documentation. If your question is not answered, please go to the Help Desk, submit a ticket and provide the following information:

1. The exact timeframe (and timezone) of the issue (when it stopped working; when it started again).
2. Symbols you are requesting.
3. Logs collected (if any).
4. Code you are using to receive this data (or endpoint, or other connection/infrastructure details).
5. Any other details.

API code

Some dxFeed APIs have demo code on Github:

Product	Minimum Requirement
dxFeedViewer Installer	Yes
dxFeedViewer	Yes
dxFeed News	Yes
dxFeed OnDemand	Yes
dxFeed Plotter	Yes

API authorization

dxFeed offers two types of authorization:

- Token-based authorization
- Web-based authorization

API Time

UTC and ISO 8601 formats are used as a standard.

NTP is used for synchronizing.