FX Server Release 14.x Catalog Page

2023-10-19 LIT-1901000 Release 14.x

Overview

The Facility Explorer® (FX) Server software expands the capabilities of one or more FX supervisory controllers, in addition to managing IP field devices directly. The FX Server collects, stores, and provides access to large amounts of information, such as alarms, events, and histories, sourced from one or more FX supervisory controllers. The FX Server also coordinates the integration of multiple FX supervisory controllers that are networked together on a single project by providing network-wide automation and coordination. This includes master scheduling, system-wide database management, and integration with enterprise software applications and from IP field devices.

The FX Server includes a graphical user interface and configuration tool that you can access with a web browser. Multiple users can concurrently connect to the FX Server. You can manage user security and presentation preferences through user profiles, logon IDs, and passwords. You can easily achieve remote access from an intranet, WAN, LAN, and internet connection.

Figure 1: FX Server



FX Server features and benefits

Web-based user interface

Features an intuitive new interface that is modern and easy to use. The HTML5 profile provides a more robust web experience.

Powerful security

Provides a defense-in-depth approach to security that requires users to use strong credentials. Provides encrypted data and easy to configure user permissions.

Centralized enterprise- wide information

Provides a single access point for a project that consists of multiple FX supervisory controllers or multiple IP field controllers.

Large storage repository for alarms, events, and histories

Access and archive large amounts of historical information.

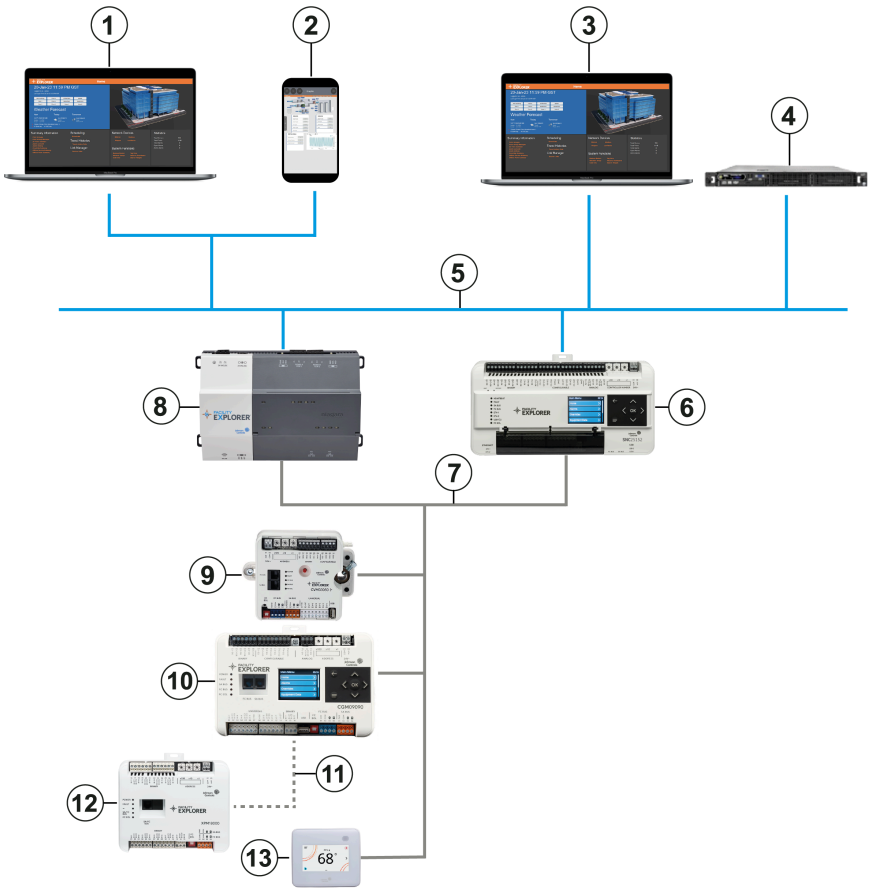
Niagara® analytics

Allows you to apply a variety of analytic algorithms and diagnostics to both historical and real-time data.

Modernized graphics

At Release 14.11.4, the FX Supervisory Software user interface is enhanced with modern, 3D photorealistic graphics to help users quickly and easily navigate their FX system.

Figure 2: Example of a Facility Explorer configuration



Callout	Component
1	Browser
2	Mobile device
3	FX Workbench
4	FX Server
5	Ethernet, TCP/IP, HTTP, BACnet

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Callout	Component
6	F4-SNC Supervisory Controller
7	MS/TP Bus
8	FX80 Supervisory Controller
9	F4-CVM Equipment Controller
10	F4-CGM Equipment Controller
11	SA Bus
12	F4-XPM Expansion Module
13	TEC3000 Color Series Thermostat

Ordering codes

New ordering codes for Europe and Africa

Multiple ordering code sets tailor to regional needs. All products on a given order must come from the same set. To determine the correct code for your region, use the following table:

Table 1: Product code sets

Region	Product code set	Notes
North America	**Base**	The original FX product codes.
Latin America, South America		
Asia		
EMEA	**Base+E**	A new set of codes for the EMEA region.

Table 2: FX Server ordering information

Product code number	Description
FX-SL000-0	License that enables FX Server with 0 Niagara network connections. For use with IP.
FX-SL001-0	License that enables FX Server with 1 Niagara network connection.
FX-SL002-0	License that enables FX Server with 2 Niagara network connections.
FX-SL003-0	License that enables FX Server with 3 Niagara network connections.
FX-SL010-0	License that enables FX Server with 10 Niagara network connections.
FX-SL100-0	License that enables FX Server with 100 Niagara network connections.
FX-SLUNL-0	License that enables FX Server with unlimited Niagara network connections.
FX-SL000M1-0	License that enables FX Server with 0 connections. Initial software maintenance for 1 year.

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Table 2: FX Server ordering information

Product code number	Description
FX-SL001M1-0	License that enables FX Server with 1 connection. Initial software maintenance for 1 year.
FX-SL002M1-0	License that enables FX Server with 2 connections. Initial software maintenance for 1 year.
FX-SL003M1-0	License that enables FX Server with 3 connections. Initial software maintenance for 1 year.
FX-SL010M1-0	License that enables FX Server with 10 connections. Initial software maintenance for 1 year.
FX-SL100M1-0	License that enables FX Server with 100 connections. Initial software maintenance for 1 year.
FX-SLUNLM1-0	License that enables FX Server with unlimited connections. Initial software maintenance for 1 year.
FX-SLDEMO-0	Engineering or demo license for FX Workbench client software. Enables all features needed to engineer and demonstrate FX Supervisory Controllers and FX Server stations. Intended for installing contractors. It requires a support fee and expires yearly.

Table 3: Base+E

Product code number	Description
FX-SL000-0E	License that enables FX Server with 0 Niagara network connections. For use with IP.
FX-SL001-0E	License that enables FX Server with 1 Niagara network connection.
FX-SL010-0E	License that enables FX Server with 10 Niagara network connections.
FX-SL100-0E	License that enables FX Server with 100 Niagara network connections.
FX-SLUNL-0E	License that enables FX Server with unlimited Niagara network connections.
FX-SL000M1-0E	License that enables FX Server with 0 connections. Initial software maintenance for 1 year.
FX-SL001M1-0E	License that enables FX Server with 1 connection. Initial software maintenance for 1 year.
FX-SL010M1-0E	License that enables FX Server with 10 connections. Initial software maintenance for 1 year.
FX-SL100M1-0E	License that enables FX Server with 100 connections. Initial software maintenance for 1 year.

Table 3: Base+E

Product code number	Description
FX-SLUNLM1-0E	License that enables FX Server with unlimited connections. Initial software maintenance for 1 year.
FX-SLDEMO-0E	Engineering or demo license for FX Workbench client software. Enables all features needed to engineer and demonstrate FX Supervisory Controllers and FX Server stations. Intended for installing contractors. It requires a support fee and expires yearly.

Table 4: Obtaining FX Software

Region	Description
North America	Available for download at the Solution Navigator web page.
EMEA	Available for download for FX partners from https://partners.jci.com/sites/202013112163968/SitePages/Home.aspx.

FX Server device licensing information

FX Server Release 14.0 and later do not require additional licenses for BACnet, LonWorks, Modbus, oBIX, KNX, or SNMP integrations. FX Server device licenses are now required when the FX Server manages IP field controllers. Select multiple device licenses to total the amount of IP field controllers. For example, if the FX Server manages 58 IP field controllers, select FX-SLDL050-0 and FXSLDL010-0 for a total of 60 IP controllers.

ⓘ **Note:** Each IP device must be 50 points or less. If a device has 100 points, that counts as two IP devices.

Select the FX Server license FX-SL000-M#-0 for systems made up of only IP field controllers and do not require an FX supervisory controller. FX Server device licenses are not restricted to just that model of FX Server.

Table 5: FX Server device license ordering information: Base

Product code number	Description
FX-SLDL010-0	License that enables 10 IP device support for FX Server.
FX-SLDL025-0	License that enables 25 IP device support for FX Server.
FX-SLDL050-0	License that enables 50 IP device support for FX Server.
FX-SLDL100-0	License that enables 100 IP device support for FX Server.
FX-SLDL200-0	License that enables 200 IP device support for FX Server.
FX-SLDL500-0	License that enables 500 IP device support for FX Server.
FX-SLDL1000-0	License that enables 1,000 IP device support for FX Server.

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Table 6: Base+E (EMEA region only)

Product code number	Description
FX-SLPL500-0E	License that enables 500 point support for FX Server.
FX-SLPL01K-0E	License that enables 1250 point support for FX Server.
FX-SLPL02K-0E	License that enables 2500 point support for FX Server.
FX-SLPL05K-0E	License that enables 5000 point support for FX Server.
FX-SLPL10K-0E	License that enables 10000 point support for FX Server.
FX-SLPL25K-0E	License that enables 25000 point support for FX Server.
FX-SLPL50K-0E	License that enables 50000 point support for FX Server.

Table 7: FX Server software accessories ordering information: Base

Product code number	Description
FX-SLMYSQL-0	License that enables MYSQL database support for FX Server.
FX-SLSQL-0	License that enables SQL database support for FX Server.
FX-SLCSV-0	License that enables CSV support for FX Server.
FX-SLORCL-0	License that enables Oracle database support for FX Server.
FX-SLOPCCL-0	License that enables OPC client support for FX Server.

Table 8: Base+E (EMEA region only)

Product code number	Description
FX-SLMYSQL-0E	License that enables MYSQL database support for FX Server.
FX-SLSQL-0E	License that enables SQL database support for FX Server.
FX-SLCSV-0E	License that enables CSV support for FX Server.
FX-SLORCL-0E	License that enables Oracle database support for FX Server.

FX Server upgrade ordering information

FX Server upgrades are required to increase the number of FX Supervisory Controllers that an existing FX Server can manage.

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Table 9: FX Server upgrade ordering information: Base

Product code number	Description
FX-SLU001-6	License that enables 1 additional Niagara network connection for FX Server.
FX-SLU100-6	License that enables 100 additional Niagara network connections for FX Server.
FX-SLUUNL-6	License that enables unlimited additional Niagara network connections for FX Server.

Table 10: Base+E

Product code number	Description
FX-SLU001-6E	License that enables 1 additional Niagara network connection for FX Server.
FX-SLU100-6E	License that enables 100 additional Niagara network connections for FX Server.
FX-SLUUNL-6E	License that enables unlimited additional Niagara network connections for FX Server.

FX Server maintenance ordering information

FX Server Release 14.0 and later requires a software maintenance license that you must purchase in addition to the server software. Additional software maintenance is available for when the original period is set to expire.

Keep the FX Server software maintenance up-to-date. However, if the FX Server software maintenance lapses and it is required after it has lapsed, the software maintenance must cover the lapsed period plus the period you want to purchase.

Table 11: FX Server software maintenance: Base

Product code number	Description
FX-SL000M1-6	License that enables 1 additional year of software maintenance for FX Server with 0 Niagara network connections.
FX-SL000M3-6	License that enables 3 additional years of software maintenance for FX Server with 0 Niagara network connections.
FX-SL000M5-6	License that enables 5 additional years of software maintenance for FX Server with 0 Niagara network connections.
FX-SL001M1-6	License that enables 1 additional year of software maintenance for FX Server with 1 Niagara network connection.
FX-SL001M3-6	License that enables 3 additional years of software maintenance for FX Server with 1 Niagara network connection.
FX-SL001M5-6	License that enables 5 additional years of software maintenance for FX Server with 1 Niagara network connection.

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Table 11: FX Server software maintenance: Base

Product code number	Description
FX-SL002M1-6	License that enables 1 additional year of software maintenance for FX Server with 2 Niagara network connections.
FX-SL002M3-6	License that enables 3 additional years of software maintenance for FX Server with 2 Niagara network connections.
FX-SL002M5-6	License that enables 5 additional years of software maintenance for FX Server with 2 Niagara network connections.
FX-SL003M1-6	License that enables 1 additional year of software maintenance for FX Server with 3 Niagara network connections.
FX-SL003M3-6	License that enables 3 additional years of software maintenance for FX Server with 3 Niagara network connections.
FX-SL003M5-6	License that enables 5 additional years of software maintenance for FX Server with 3 Niagara network connections.
FX-SL010M1-6	License that enables 1 additional year of software maintenance for FX Server with 10 Niagara network connections.
FX-SL010M3-6	License that enables 3 additional years of software maintenance for FX Server with 10 Niagara network connections.
FX-SL010M5-6	License that enables 5 additional years of software maintenance for FX Server with 10 Niagara network connections.
FX-SL100M1-6	License that enables 1 additional year of software maintenance for FX Server with 100 Niagara network connections.
FX-SL100M3-6	License that enables 3 additional years of software maintenance for FX Server with 100 Niagara network connections.
FX-SL100M5-6	License that enables 5 additional years of software maintenance for FX Server with 100 Niagara network connections.
FX-SLUNLM1-6	License that enables 1 additional year of software maintenance for FX Server with unlimited Niagara network connections.
FX-SLUNLM3-6	License that enables 3 additional years of software maintenance for FX Server with unlimited Niagara network connections.
FX-SLUNLM5-6	License that enables 5 additional years of software maintenance for FX Server with unlimited Niagara network connections.

ⓘ **Note:** In addition to providing additional software maintenance on FX Servers at or above Release 14.0, some of these parts are required to migrate a legacy FX Server at Release 6.x to Release 14.0 and later. Refer to *Discontinuation of Facility Explorer supervisory hardware models FX30, FX60, and FX70 and Facility Explorer 6.x software (LIT-12001208)* for further information.

ⓘ **Note:** AX (6.x) to N4 (14.x) migration parts will no longer be offered after July 1, 2023.

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Table 12: Base+E

Product code number	Description
FX-SL000M1-6E	License that enables 1 additional year of software maintenance for FX Server with 0 Niagara network connections.
FX-SL000M3-6E	License that enables 3 additional years of software maintenance for FX Server with 0 Niagara network connections.
FX-SL000M5-6E	License that enables 5 additional years of software maintenance for FX Server with 0 Niagara network connections.
FX-SL001M1-6E	License that enables 1 additional year of software maintenance for FX Server with 1 Niagara network connection.
FX-SL001M3-6E	License that enables 3 additional years of software maintenance for FX Server with 1 Niagara network connection.
FX-SL001M5-6E	License that enables 5 additional years of software maintenance for FX Server with 1 Niagara network connection.
FX-SL010M1-6E	License that enables 1 additional year of software maintenance for FX Server with 10 Niagara network connections.
FX-SL010M3-6E	License that enables 3 additional years of software maintenance for FX Server with 10 Niagara network connections.
FX-SL010M5-6E	License that enables 5 additional years of software maintenance for FX Server with 10 Niagara network connections.
FX-SL100M1-6E	License that enables 1 additional year of software maintenance for FX Server with 100 Niagara network connections.
FX-SL100M3-6E	License that enables 3 additional years of software maintenance for FX Server with 100 Niagara network connections.
FX-SL100M5-6E	License that enables 5 additional years of software maintenance for FX Server with 100 Niagara network connections.
FX-SLUNLM1-6E	License that enables 1 additional year of software maintenance for FX Server with unlimited Niagara network connections.
FX-SLUNLM3-6E	License that enables 3 additional years of software maintenance for FX Server with unlimited Niagara network connections.
FX-SLUNLM5-6E	License that enables 5 additional years of software maintenance for FX Server with unlimited Niagara network connections.

Note: In addition to providing additional software maintenance on FX Servers at or above Release 14.0, some of these parts are required to migrate a legacy FX Server at Release 6.x to Release 14.0 and later. Refer to *Discontinuation of Facility Explorer supervisory hardware models FX30, FX60, and FX70 and Facility Explorer 6.x software (LIT-12001208)* for further information.

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Table 13: FX Server - Niagara Analytics: Base

Product code number	Description
FX-ASL0250-0	License that enables 250 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL1000-0	License that enables 1,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL2500-0	License that enables 2,500 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL010K-0	License that enables 10,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL050K-0	License that enables 50,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL100K-0	License that enables 100,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASLUNL-0	License that enables unlimited analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.

Table 14: Base+E

Product code number	Description
FX-ASL0250-0E	License that enables 250 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL1000-0E	License that enables 1,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL2500-0E	License that enables 2,500 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL010K-0E	License that enables 10,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.
FX-ASL050K-0E	License that enables 50,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater..
FX-ASL100K-0E	License that enables 100,000 analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater..
FX-ASLUNL-0E	License that enables unlimited analytics points for Niagara Analytics on an FX Server at FX Supervisory Family Software Release 14.2 or greater.

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Table 15: FX Server - ESIGN and FIPS 140-2 accessories: Base

Product code number	Description
FX-SLFIPS-0	Provides FIPS 140-2 Level 1 conformance that uses the integrated FIPS certified BouncyCastle module for a FX Server. Compatible with FX version 14.6 and later.
FX-SLES1000-0	License that enables e-signature application with 1,000 points for FX Server.
FX-SLESUNL-0	License that enables e-signature application with unlimited points for FX Server.
FX-SLESUP1K-0	License adding 1,000 e-signature points for FX Server.
FX-TSES-0	E-signature technical support - up to 8 hours in 90-day period following order placement.

ⓘ **Note:** FX-TSES-0 is required with the first ESIGN order.

Table 16: FX Server - ESIGN E-codes

Product code number	Description
FX-SLES1000-0E	License that enables e-signature application with 1,000 points for FX Server.
FX-SLESUNL-0E	License that enables e-signature application with unlimited points for FX Server.
FX-SLESUP1K-0E	License adding 1,000 e-signature points for FX Server.
FX-TSES-0E	E-signature technical support - up to 8 hours in 90-day period following order placement.
FX-ESIGNELRN-0E	FX Niagara 4 E-signature Certification (E-learning).

ⓘ **Note:** FX-TSES-0E is required with the first ESIGN order.

Table 17: FX Server - JSON and HTTP Client software licenses

Product code number	Description
FX-SLJSON-0	License that enables JSON Toolkit for FX Server (Valid Software Maintenance required).
FX-SLHTTP-0	License enabling HTTP Client to integrate webservices and RESTful API endpoints for FX Server (Valid Software Maintenance required)

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Table 18: FX Server - JSON and HTTP Client software licenses (EMEA only)

Product code number	Description
FX-SLJSON-0E	License that enables JSON Toolkit for FX Server (Valid Software Maintenance required)
FX-SLHTTP-0E	License enabling HTTP Client to integrate webservices and RESTful API endpoints for FX Server (Valid Software Maintenance required)

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Technical specifications

Table 19: FX Server technical specifications

Specification	Description
Processor	Intel® Xeon® CPU E5-2640, 64-bit (or better), compatible with dual and quad core processors
Operating system	64-bit: Windows® 10, Windows Server 2016, Windows Server 2019 ⓘ **Note:** Windows 10 Home is not supported.
Web browser	Mozilla® Firefox®, Google Chrome™, or Microsoft Edge®
Memory	6 GB minimum, 8 GB or more for larger systems
Hard drive	4 GB minimum, more recommended depending on archiving requirements
Display	Video card and monitor capable of displaying 1024 x 768 pixel resolution or greater
Network support	Ethernet adaptor (10/100 MB with RJ-45 connector)
Connectivity	Always on, high-speed Internet Service Provider (ISP) connection recommended for remote site access (DSL, T1, or cable modem) and IPv6 compliant

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable end-user license, open-source software information, and other terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Patents

Patents: https://jcipat.com

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