FX Server

Description

The FX Server is a software product that expands the capabilities of one or more FX Supervisory Controllers. 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 networked together on a single project by providing network-wide automation and coordination, such as master scheduling, system-wide database management, and integration with enterprise software applications.

The FX Server includes a graphical user interface and configuration tool you can access with a web browser. Multiple users can concurrently connect to the FX Server. User security and presentation preferences are managed through user profiles, login IDs, and passwords. Remote access is easily achieved from an intranet, WAN, LAN, and Internet connection.

Refer to the *FX Server Product Bulletin (LIT-12011122)* for important product application information.

Features

- multiple FX Supervisory Controllers integrated together via hub, local intranet, or the Internet
- centralized enterprise-wide information
- large storage repository for alarms, events, and histories
- system that runs on your choice of computer
- web-based user interface
- FX Energy
- BACnet Testing Labs (BTL) Listed B-OWS and B-AWS

FX Server

Selection Charts

FX Server Ordering Information

Product Code Number	Description
LP-FXWB-COPY	FX Supervisory Controller family software, delivered on DVD. Contains latest installation images for FX Server, FX Workbench, and FX Alarm Portal Client. Licenses not included—order licenses separately
LP-FXWS-3	3-device FX Server license. Allows integration of up to three FX Supervisory Controllers. Supports 32-bit and 64-bit Microsoft® Windows® computer platforms. Includes Niagara Historical Database, FX Workbench, Niagara Driver, and oBix client/server driver (only for connecting to Niagara-based controllers)
LP-FXWS-100	100-device FX Server license. Allows integration of up to 100 FX Supervisory Controllers. Supports 32-bit and 64-bit Windows computer platforms. Includes Niagara Historical Database, FX Workbench, Niagara Driver, and oBix client/server driver (only for connecting to Niagara-based controllers)
LP-FXWS-UNL	Unrestricted FX Server license. Allows integration of an unrestricted number of FX Supervisory Controllers (the actual number of FX Supervisory Controllers will be limited only by the power of the host computer platform). Supports 32-bit and 64-bit Windows computer platforms. Includes Niagara Historical Database, FX Workbench, Niagara driver, and oBix client/server driver (only for connecting to Niagara-based controllers)
LP-FXWSU-100	License update to convert a three-device FX Server license to a 100-device FX Server license
LP-FXWSU-UNL[1]	License update to convert a 100-device FX Server license to an unrestricted FX Server license

1. Converting a three device FX Server License to an unrestricted FX Server license requires the purchase of both LP-FXWSU-100 and LP-FXWSU-UNL.

FX Server OWS and AWS Ordering Information

Product Code Number[1]	Description
LP-FXWSBACOW-0[2]	License that enables a BACnet® Operator Workstation (B-OWS) for one FX Server (requires BACnet Client driver: LP-FXWSBACC-0)
LP-FXWSBACAW-0	License that enables a BACnet Advanced Operator Workstation (B-AWS) for one FX Server (requires BACnet Client driver: LP-FXWSBACC-0)
LP-FXWSBACAWU-0	License to upgrade a BACnet Operator Workstation for a BACnet Advanced Operator Workstation

1. Computer must be running FX Server Release 4.1 (Niagara 3.6.47) or higher.
2. BTL listing is only valid when the OWS and AWS driver is added to the BACnet IP client driver. Adding the LP-FXWSBACS-0, LP-FXWSBACCS-0, or LP-FXWSBACCSU-0 license invalidates the listing.

Optional FX Server Driver Licenses Ordering Information (Part 1 of 2)

Product Code Number	Description
LP-FXWSOBX-0	License enabling oBix driver (500 points)
LP-FXWSOBX5-0	License enabling 500 additional oBix points
LP-FXWSBACC-0	License enabling BACnet/IP client driver (first 500 points) for one FX Server
LP-FXWSBACS-0	License enabling BACnet/IP server driver (first 500 points) for one FX Server
LP-FXWSBACCS-0[1]	License enabling BACnet/IP client server driver (first 500 points) for one FX Server

Optional FX Server Driver Licenses Ordering Information (Part 2 of 2)

Product Code Number	Description
LP-FXWSOBX-0	License enabling oBix driver (first 500 points) for one FX Server
LP-FXWSOBX5-0	License enabling 500 additional oBix points
LP-FXWSBACC-0	License enabling BACnet/IP client driver (first 500 points) for one FX Server
LP-FXWSBACS-0	License enabling BACnet/IP server driver (first 500 points) for one FX Server
LP-FXWSBACCS-01[1]	License enabling BACnet/IP client server driver (first 500 points) for one FX Server
LP-FXWSBACSU-01	License to add BACnet/IP server driver to an FX Server that has already been licensed for BACnet I/P client driver
LP-FXWSBACCU-0	License to add BACnet/IP client driver to an FX Server that has already been licensed for BACnet I/P server driver
LP-FXWSBAC5-0	License enabling 500 additional BACnet IP points
LP-FXWSSADR-0	License enabling Simple OpenADR software driver for one FX Server. Allows communication to the Akuacom DRAS. Limits one DRAS client connection to the DRAS
LP-FXWSSADR1-0	License enabling one additional DRAS client server connection. FX Server must already contain part number LP-FXWSSADR-0
LP-FXWSOPC-0	License enabling OPC driver (first 500 points) for one FX Server
LP-FXWSOPC5-0	License enabling 500 additional OPC points
LP-FXWSMDB-0	License enabling MODBUS TCP client driver (500 points)
LP-FXWSMDB5-0	License enabling 500 additional MODBUS TCP client driver points
LP-FXWSMDBS-0	License enabling MODBUS TCP slave driver (first 500 points) for one FX Server. Enables FX Server to serve its data to MODBUS master devices over a MODBUS TCP connection.
LP-FXWSMDBS5-0	License enabling 500 additional MODBUS TCP slave points.
LP-FXWSSQL-0	License enabling Oracle database driver for one FX Server
LP-FXWSSNMP-0	License enabling Microsoft SQL database driver for one FX Server
LP-FXWSSNMP5-0	License enabling SNMP driver (first 500 points) for one FX Server
LP-FXWSDB2-0	License enabling 500 additional SNMP points for one FX Server
LP-FXWSORCL-0	License enabling IBM DB2 database driver for one FX Server
LP-FXWSCSV-0	License enabling *.xls and *.csv file data to be imported into one FX Server
LP-FXESTA-0	License enabling FX Energy to analyze data from one FX Supervisory controller or Station. Analyzes as many points as the designated FX Supervisory controller can support. Can be combined with Base System and Point Licenses, LP-FXEPNT, as required to complete a solution
LP-FXEPNT-0	License enabling FX Energy to analyze a single point of data. Analyzes a single point from an FX Supervisory controller or Station, an instance of Niagara, a meter or a database point. Used with Base System and Station licenses, LP-FXESTA, as required to complete a solution

1. Adding AWS or OWS to this invalidates the BTL listing.

FX Server Upgrade Ordering Information

Product Code Number	Description
LP-FXSWUPG-0[1]	License enabling a one-time software upgrade for one copy of FX Server. Software not included

1. For the latest revision of FX Supervisory software, order LP-FXWB-COPY.

Technical Specifications

FX Server	
Processor	Intel® Pentium® 4 processor, 2 GHz or higher, or Core Duo
Operating System	32-bit: Windows® 8 Pro or Enterprise, Windows 7 Professional, Enterprise, or Ultimate, or Windows XP® Professional 64-bit: Windows® 8.1 Pro or Enterprise, Windows 8 Pro or Enterprise, Windows 7 Professional, Enterprise, or Ultimate, Windows Server 2012 Standard or Enterprise with SP2, or Windows Server® 2012 R2 Standard or Enterprise with SP2
Web Browser	Windows Internet Explorer® web browser version 5 or later or Mozilla™ Firefox™ web browser
Memory	1 GB minimum; 2 GB recommended for large systems, 8 GB or more recommended for Windows 64-bit version
Hard Disk	1 GB minimum; 5 GB recommended
Display	Graphics card and monitor capable of displaying 1024 x 768 pixel resolution or greater
Network Support	Ethernet 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)
Compliance	**BACnet International**: BACnet Testing Laboratories™ (BTL) 135-2004 Listed BACnet Operator Workstation (B-OWS) and BACnet Advanced Operator Workstation (B-AWS)