



New Product Release

Date: January 19, 2016
Announcing: FX Supervisory Family Software Release 14.0.0
From: Facility Explorer Product Management
Released To: Facility Explorer Authorized Building Controls Specialists (ABCS)

Johnson Controls is pleased to announce FX Supervisory family software release 14.0.0, which includes the following new features and enhancements.

- **New User Interface**

- Features a bold and intuitive new interface that is modern and easy to use.
- Provides an HTML5 profile that provides a more robust web experience and reduced reliance on the client-side Java® plug-in.

- **New Powerful Cyber Security**

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

- **New Migration Capabilities**

The HTML5 profile capability alone is reason to migrate existing FX Servers and FX Supervisory Controllers. However, not all existing devices are capable of migrating. Not only have we thoroughly updated our product literature, we have also provided new tools to assist in making migration decisions and successfully migrate when applicable.

- **Introduction of New Tagging, Search, Device Templates, and Hierarchies**

Future releases of FX Supervisory Software 14.0 will continue to build upon this new secure and robust platform.

Most of the changes to FX Supervisory Family Software are behind the scenes leaving much of the existing functionality right where you would expect it.

This section covers the new features in FX Supervisory Family Software 14.0.

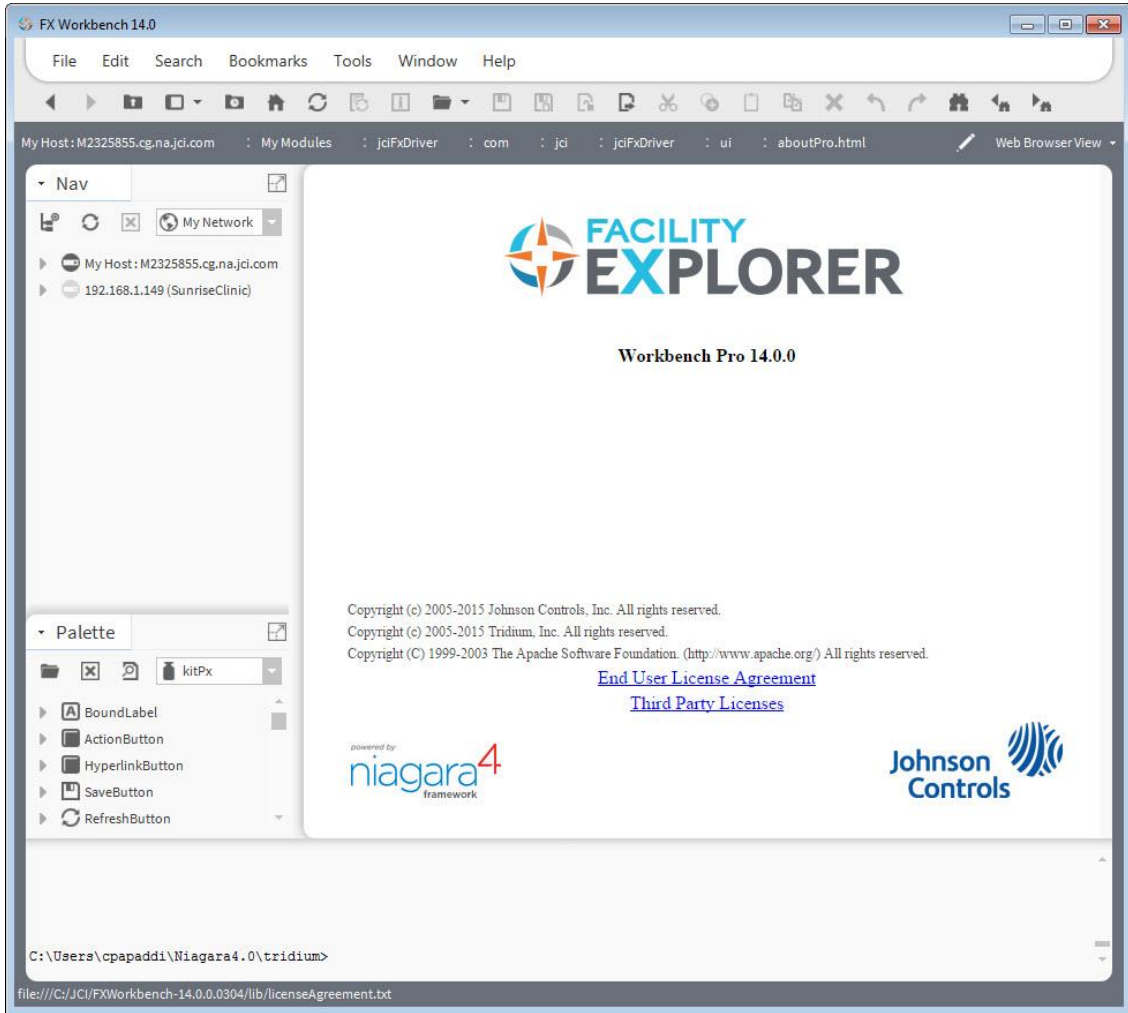


Figure 1: FX Supervisory Family Software Release 14.0 User Interface

Release Numbering

Although FX Supervisory Family Software provided leading productivity and usability features for the last 10 years, we are excited to begin our new journey with the latest Niagara platform, Niagara 4.

The platform change is so fundamentally different, that we decided to change our release numbers. The FX Supervisory Family Software moves from Release 6 to Release 14. This change not only signifies the large architectural change, but it also maintains consistency in numbering with the Niagara platform.

FX Supervisory Family Software Release 14.0.0

14.0.0

The **4.0** in the build number always matches the Niagara release that the FX Supervisory Family Software Release was built upon.

The **.0** in the build number is the FX Supervisory Family Software interim release number.

A **1** is incremented as the Niagara release requires.

So, for example, if we develop two releases of FX Supervisory Family Software built upon Niagara Release 4.2, the FX Supervisory Family Software Releases would be **14.2.0** and **14.2.1**.

User Interface

The user interface for FX Supervisory Family Software Release 14.0 has changed dramatically. Previous releases of FX Supervisory Family Software had a very colorful user interface, but the colors did not assist with managing the building environment.

The new user interface is grayscale and uses colors solely to bring attention to the most important features and is the basis for future releases of FX Supervisory Family Software enhancements.

The most anticipated new feature is the introduction of the HTML5 Hx Profile.

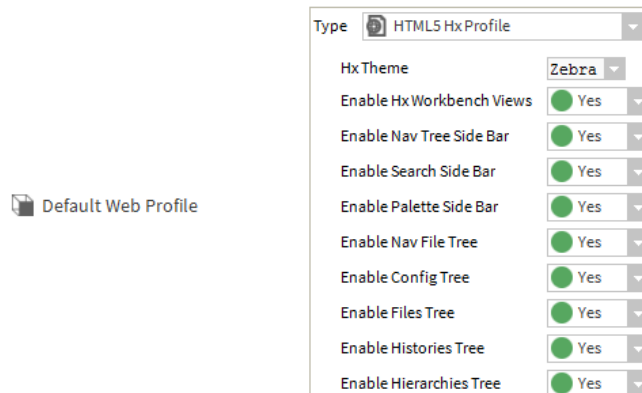


Figure 2: Default Web Profile showing HTML5 Hx Profile

The HTML5 Hx Profile addresses the difficulties of managing Java® plug-ins used for web access in previous releases of FX Supervisory Family Software. FX Supervisory Family Software Release 14 provides HTML5 functionality for most of the capabilities an end user may need. Future releases will expand the capabilities to include HTML5-based wire sheets and device managers.

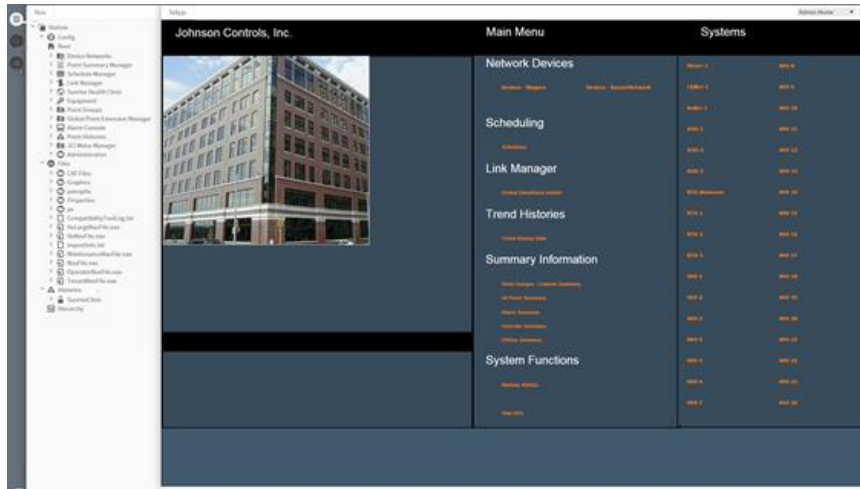


Figure 3 Migrated Station viewed with HTML5 Hx Profile

Cyber Security

Cyber security changes play an important part in FX Supervisory Family Software Release 14.0.

The file system structure for FX Supervisory Family Software has now been split. FX Supervisory Family Software files now reside in two primary locations: the **System Home** and the **User Home**. Generally, more sensitive data is in the System Home while less sensitive data resides in the User Home. The System Home is encrypted and protected with the **passphrase**.

A passphrase is required for certain operations, such as restoring a backup. Therefore, be sure to create and manage secure passphrases for your FX Supervisory Controller and FX Server Release 14 hosts.

Another enhancement to the FX Supervisory Controllers and FX Servers security is the management of sensitive information like users and passwords. Secure connections to stations and platforms are now **required** for certain operations. For example, to add a new user or to change a user password, the functionality is disabled if you try to make the changes with the **Station Connection**. Instead you now need to use the **Station TLS Connection**.

Note: We recommend that you disable the non-secure Platform and Station Connections and use only the secure Platform and Station connections. A padlock icon representing the secure connection appears next to the station to help you differentiate one from the other.

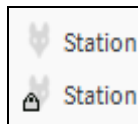


Figure 4: Non Secure and Secure Station Connection Icons

Migration Capabilities

Migration is similar to upgrading, but signifies a larger change in software. Migration typically requires more steps and conversions to move forward.

FX Supervisory Family Software Release 14 provides the information and tools necessary to assist in making the best decisions about whether migration is possible and the best solution for your application.

We provide a high level migration checklist, detailed migration documentation, the FX 14 Upgrade Assessment Tool, and the Migrate Station tool to assist with your migration needs.

New Tagging, Search, Device Templates, and Hierarchies

Tagging, search, device templates, and hierarchies provided by Niagara 4 offer technology to resolve problems that FX Supervisory Family Software solved many releases ago. Our project file, import managers, and system libraries have always reduced the time necessary to develop a custom station with associated points, histories, graphics, and navigations.

In this release, the Niagara platform has included its version of some of these capabilities, which are now available for use. We are evaluating the core capabilities of these features as a consideration for updating our current approach in future releases.

New Licensing Model

FX Supervisory Family Software Release 14.0 has a new approach to licensing. Generally, the new model shifts pricing from a pay for integration approach (LP- product codes) to a pay for device/points approach (FX- product codes).

The most common integration drivers such as BACnet®, LONWORKS®, and Modbus® are included with every new purchase of FX Server Release 14 (and later) products. This licensing model also is extended to the new FX80 Supervisory Controller to be released later this year.

There are a few exceptions to this general licensing model. Be sure to check the new product codes and product literature for details.

New Software Maintenance

We now offer a new approach to keeping your software up-to-date. In past releases of FX Supervisory Family Software, upgrade licenses were required to acquire the next highest major revision level of the software. For example, the LP-FX40UPG-0 would need to be purchased to upgrade an FX60 from Release 5.0 to Release 6.0.

Starting with FX Supervisory Family Software Release 14, a software maintenance replaces the existing upgrade parts. Software maintenance gives you a license for all available FX Supervisory Family software released during the time period of the license.

Software maintenance is also required to migrate existing FX Workbench, FX Servers, and FX Supervisory Controllers to FX Supervisory Family Software Release 14.

Note: After migrating an existing FX Server or FX Supervisory Controller, **LP-** product codes must still be used for software and hardware accessories, such as network drivers, communication cards, and I/O modules.

The LP-FX40UPG-0 part number is required to get these devices to Release 6.x (as it is a requirement to be at Release 6.x prior to migrating to Release 14.x).

The FX-xxxxxM#-6 part numbers:

- migrate existing hosts from Release 6 to Release 14
- maintain software maintenance past Release 14

See below for an example of software maintenance and lapse periods.

Training and TCP Certification

Johnson Controls is taking a new approach to training that not only educates you on FX Supervisory Family Software, but also provides Niagara TCP certification.

All Authorized Building Controls Specialists (ABCS) have been required to take the **4701 Facility Explorer Supervisory Controllers Engineering and Setup** training course. The completion of this course will be accepted as a prerequisite for Tridium's new online Niagara 4 Cross Over Training. This is a self-paced online training course that trains and certifies you for Niagara TCP. We have a new product code available to order this crossover training.

In addition, we are announcing the development of a new Johnson Controls FX Supervisory Family Software certification course (to replace 4701) in conjunction with Tridium to provide all training that is necessary for FX Supervisory Family Software and Niagara 4 later this year.

Existing Product Codes

We are providing new product codes for FX Supervisory Family Software Release 14; however, we plan to continue supporting our existing products.

We plan to sell FX Supervisory Family Software Release 6.x and 14.x products concurrently. Also, current FX Supervisory Controllers will continue to be shipped with Release 6.x software (even after Release 14 becomes available).

To reduce confusion, product codes beginning with an LP- prefix is delivered with Release 6.x. Also, hardware and software accessories for these products should still be ordered with the appropriate **LP-** product code. The only FX- product code to be used with existing LP-product code products is software maintenance (for migration and continued software maintenance).

It is important that migrating an **LP-** product does not move that product into the new licensing model. For example, if you wanted to add BACnet MSTP to the migrated FX60 controller (post migration to Family Software Release 14.0.0), you will still need to order the LP-FXBACMS-0 product code to add that functionality.

Product codes beginning with an **FX-** prefix will be delivered with Release 14 and beyond.

The table below will help you to cross reference LP product codes with the equivalent FX product codes.

Table 1: Release 6.x to Release 14.x Cross Reference

FX 6.x Product Code	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
NA	NA	FX-SL000-0	License enabling FX Server with 0 Niagara network connections. For use with TCP/IP devices.
LP-FXWBE-0	License enabling the End User version of FX Workbench client software. Enables those features needed to operate and re-configure FX Supervisory Controllers and FX Server stations only through an online connection (cannot create new stations offline). Intended for end users (operators). Never expires. Order (LP-FXWB-COPY) or download software separately.	FX-SL001-0	License enabling FX Server with 1 Niagara network connection. Well suited for use as a client FX Workbench offering.
NA	NA	FX-SL002-0	License enabling FX Server with 2 Niagara network connections.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWS-3	License enabling a 3-device FX Server. Allows integration of up to three FX Supervisory Controllers. Supports 32-bit or 64-bit computer platforms. Includes Niagara Historical Database, FX Workbench, Niagara driver, and oBix client/server driver (only for connecting to Niagara-based controllers). Order LP-FXWB-COPY or download software separately.	FX-SL003-0	License enabling FX Server with 3 Niagara network connections.
LP-FXWS-100	License enabling 100-device FX Server. Allows integration of up to 100 FX Supervisory Controllers. Supports 32-bit or 64-bit computer platforms. Includes Niagara Historical Database, FX Workbench, Niagara driver, and oBix client/server driver (only for connecting to Niagara-based controllers). Order LP-FXWB-COPY or download software separately.	FX-SL100-0	License enabling FX Server with 100 Niagara network connections.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWS-UNL	License enabling unrestricted FX Server. 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 or 64-bit computer platforms. Includes Niagara Historical Database, FX Workbench, Niagara driver, and oBix client/server driver (only for connecting to Niagara-based controllers). Order LP-FXWB-COPY or download software separately.	FX-SLUNL-0	License enabling FX Server with unlimited Niagara network connections.
NA	NA	FX-SL000M1-0 ¹	License enabling initial 1 year of software maintenance for FX Server with 0 Niagara connections.
NA	NA	FX-SL001M1-0 ¹	License enabling initial 1 year of software maintenance for FX Server with 1 Niagara connections.
NA	NA	FX-SL002M1-0 ¹	License enabling initial 1 year of software maintenance for FX Server with 2 Niagara connections.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
NA	NA	FX-SL003M1-0 ¹	License enabling initial 1 year of software maintenance for FX Server with 3 Niagara connections.
NA	NA	FX-SL010M1-0 ¹	License enabling initial 1 year of software maintenance for FX Server with 10 Niagara connections.
NA	NA	FX-SL100M1-0 ¹	License enabling initial 1 year of software maintenance for FX Server with 100 Niagara connections.
NA	NA	FX-SLUNLM1-0 ¹	License enabling initial 1 year of software maintenance for FX Server with unlimited Niagara connections.
LP-FXSWUPG-0	License file enabling a one-time software upgrade for one copy of FX Server or 1 copy of FX Workbench-End User Version or 1 copy of FX Alarm Portal	FX-SL001M1-6	License enabling 1 additional year of software maintenance for FX Server with 1 Niagara network connection.
NA	NA	FX-SL001M3-6	License enabling 3 additional years of software maintenance for FX Server with 1 Niagara network connection.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
NA	NA	FX-SL001M5-6	License enabling 5 additional years of software maintenance for FX Server with 1 Niagara network connection.
NA	NA	FX-SL002M1-6	License enabling 1 additional year of software maintenance for FX Server with 2 Niagara network connections.
NA	NA	FX-SL002M3-6	License enabling 3 additional years of software maintenance for FX Server with 2 Niagara network connections.
NA	NA	FX-SL002M5-6	License enabling 5 additional years of software maintenance for FX Server with 2 Niagara network connections.
LP-FXSWUPG-0	License file enabling a one-time software upgrade for one copy of FX Server or 1 copy of FX Workbench-End User Version or 1 copy of FX Alarm Portal	FX-SL003M1-6	License enabling 1 additional year of software maintenance for FX Server with 3 Niagara network connections.
NA	NA	FX-SL003M3-6	License enabling 3 additional years of software maintenance for FX Server with 3 Niagara network connections.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
NA	NA	FX-SL003M5-6	License enabling 5 additional years of software maintenance for FX Server with 3 Niagara network connections.
NA	NA	FX-SL010M1-6	License enabling 1 additional year of software maintenance for FX Server with 10 Niagara network connections.
NA	NA	FX-SL010M3-6	License enabling 3 additional years of software maintenance for FX Server with 10 Niagara network connections.
NA	NA	FX-SL010M5-6	License enabling 5 additional years of software maintenance for FX Server with 10 Niagara network connections.
LP-FXSWUPG-0	License file enabling a one-time software upgrade for one copy of FX Server or 1 copy of FX Workbench-End User Version or 1 copy of FX Alarm Portal	FX-SL100M1-6	License enabling 1 additional year of software maintenance for FX Server with 100 Niagara network connections.
NA	NA	FX-SL100M3-6	License enabling 3 additional years of software maintenance for FX Server with 100 Niagara network connections.
NA	NA	FX-SL100M5-6	License enabling 5 additional years of software maintenance for FX Server with 100 Niagara network connections.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXSWUPG-0	License file enabling a one-time software upgrade for one copy of FX Server or 1 copy of FX Workbench-End User Version or 1 copy of FX Alarm Portal	FX-SLUNLM1-6	License enabling 1 additional year of software maintenance for FX Server with unlimited Niagara network connections.
NA	NA	FX-SLUNLM3-6	License enabling 3 additional years of software maintenance for FX Server with unlimited Niagara network connections.
NA	NA	FX-SLUNLM5-6	License enabling 5 additional years of software maintenance for FX Server with unlimited Niagara network connections.
LP-FXWBDEM-0	License enabling the Engineering/Demo version of FX Workbench client software: Enables all features needed to engineer or demonstrate FX Supervisory Controllers and FX Server Stations. Intended for installing contractors. Requires annual support fee. Expires yearly. Order LP-FXWB-COPY or download software separately.	FX-SLDEMO-0	Engineering/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. Requires support fee. Expires yearly.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
NA	NA	FX-SLU001-6	License enabling 1 additional Niagara network connection for FX Server.
LP-FXWSU-100	License update to convert a three-device FX Server license to a 100-device FX Server license	FX-SLU100-6	License enabling up to 100 Niagara network connections for FX Server.
LP-FXWSU-UNL	License update to convert a 100-device FX Server license to an unrestricted FX Server license	FX-SLUUNL-6	License enabling unlimited Niagara network connections for FX Server.
NA	NA	FX-SLDL010-0	License enabling 10 IP device support for FX Server
NA	NA	FX-SLDL025-0	License enabling 25 IP device support for FX Server
NA	NA	FX-SLDL050-0	License enabling 50 IP device support for FX Server
NA	NA	FX-SLDL100-0	License enabling 100 IP device support for FX Server
NA	NA	FX-SLDL200-0	License enabling 200 IP device support for FX Server
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWSBACC-0	License enabling the BACnet/IP client driver (first 500 points) for one FX Server	NA	All BACnet Drivers come with the purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
LP-FXWSBACS-0	License enabling the BACnet/IP server driver (first 500 points) for one FX Server	NA	All BACnet Drivers come with the purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
LP-FXWSBACCS-0	License enabling combination of the BACnet/IP client and server driver (first 500 points) for one FX Server. Note Adding B-AWS or B-OWS to this license invalidates the BTL listing.	NA	All BACnet Drivers come with the purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
LP-FXWSBACSU-0	License to add the BACnet/IP server driver to an FX Server that has already been licensed with the BACnet/IP client driver	NA	All BACnet Drivers come with the purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWSBACCU-0	License to add the BACnet/IP client driver to an FX Server that has already been licensed with the BACnet/IP server driver.	NA	All BACnet Drivers come with the purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
LP-FXWSBAC5-0	License enabling 500 additional BACnet/IP points for one FX Server	NA	All BACnet Drivers come with the purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
LP-FXWSBACOW-0	License enabling the BACnet Operator Workstation (B-OWS) for one FX Server (requires the BACnet/IP client driver)	NA	FX Server 14.x is not BTL listed.
LP-FXWSBACAW-0	License enabling the BACnet Advanced Operator Workstation (B-AWS) for one FX Server (requires the BACnet/IP client driver)	NA	FX Server 14.x is not BTL listed.
LP-FXWSBACAWU-0	License to upgrade a BACnet Operator Workstation (B-OWS) to a BACnet Advanced Operator Workstation (B-AWS)	NA	FX Server 14.x is not BTL listed.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWSMDB-0	License enabling Modbus TCP client driver (500 points) for one FX Server	NA	All Modbus Drivers come with purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
LP-FXWSMDB5-0	License enabling 500 additional Modbus TCP client driver points for one FX Server	NA	
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.	NA	
LP-FXWSMDBS5-0	License enabling 500 additional Modbus TCP slave driver points for one FX Server	NA	
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWSOPC-0	License enabling OPC driver (500 points) for one FX Server	FX-SLOPCCL-0	License enabling OPC client support for FX Server
LP-FXWSOPC5-0	License enabling 500 additional OPC points for one FX Server	FX-SLOPCCL-0	
LP-FXWSOBX-0	License enabling oBix driver (500 points) for one FX Server	NA	All oBix Drivers come with purchase of FX Server. Device Licenses are required for each TCP/IP device being managed. See the FX-SLD###-0 product codes.
LP-FXWSOBX5-0	License enabling 500 additional oBix points for one FX Server	NA	
LP-FXWSSNMP-0	License enabling SNMP driver (500 points) for one FX Server	NA	All SNMP Drivers come with purchase of FX Server 14.x. Device Licenses are required for each TCP/IP device being managed. See the FX-SLDxxx-0 product codes.
LP-FXWSSNMP5-0	License enabling 500 additional SNMP points for one FX Server	NA	
NA	NA	FX-SLMYSQL-0	License enabling SQL database support for FX Server
LP-FXWSORCL-0	License enabling Oracle database driver for one FX Server	FX-SLORCL-0	License enabling Oracle database support for FX Server
LP-FXWSSQL-0	License enabling SQL database driver for one FX Server	FX-SLSQL-0	License enabling SQL database support for FX Server
LP-FXWSCSV-0	License enabling *.xls and *.csv file data to be imported into one FX Server	FX-SLCSV-0	License enabling CSV support for FX Server
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWSDB2-0	License enabling IBM DB2 database driver for one FX Server	NA	NA
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 point licenses (LP-FXEPN) as required to complete a solution.	NA	NA
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. Can be combined with station licenses (LP-FXESTA) as required to complete a solution.	NA	NA
LP-FXWSSADR-0	License enabling the Simple OpenADR software driver for one FX Server. Allows communication to the DRAS. Limited to one DRAS client connection to the DRAS. Includes a CRYPTO license for the SSL connection.	NA	NA
LP-FXWSSADR1-0	License enabling one additional DRAS client server connection. The FX Server must already contain part number LP-FXWSSADR-0.	NA	NA
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
LP-FXWBALM-0	License enabling FX Alarm Portal Client software. Enables only FX Alarm Portal and Alarm Console features. Intended for end users. Never expires. Order LP-FXWB-COPY or download software separately.	NA	No equivalent. However, the LP-FXWBALM-0 can interact with Release 14 hosts.
LP-FX40UPG-0	License enabling a one-time software upgrade for 1 FX20/FX40/FX60/FX70	FX-SC3EM1-6	License enabling 1 year of 14.x software maintenance for FX30E.
NA	NA	FX-SC3EM3-6	License enabling 3 years of 14.x software maintenance for FX30E.
NA	NA	FX-SC3EM5-6	License enabling 5 years of 14.x software maintenance for FX30E.
LP-FX40UPG-0	License enabling a one-time software upgrade for 1 FX20/FX40/FX60/FX70	FX-SC6EM1-6	License enabling 1 year of 14.x software maintenance for FX60E.
NA	NA	FX-SC6EM3-6	License enabling 3 years of 14.x software maintenance for FX60E.
NA	NA	FX-SC6EM5-6	License enabling 5 years of 14.x software maintenance for FX60E.
LP-FX40UPG-0	License enabling a one-time software upgrade for 1 FX20/FX40/FX60/FX70	FX-SC7M1-6	License enabling 1 year of 14.x software maintenance for FX70.
NA	NA	FX-SC7M3-6	License enabling 3 years of 14.x software maintenance for FX70.
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FX 6.x Product Code (Cont.)	FX 6.x Description	FX 14.x Product Code	FX 14.x Description
NA	NA	FX-SC7M5-6	License enabling 5 years of 14.x software maintenance for FX70.
LP-FXWB-COPY	FX Supervisory Controller family software, delivered on DVD. Contains installation images for FX Server, FX Workbench, and FX Alarm Portal Client. Licenses not included. Order licenses separately.	FX-DVD-COPY	FX Supervisory Controller family software, delivered on DVD. Contains latest installation images for FX Server, and FX Workbench. Licenses not included—order licenses separately.

1. FX-SLxxxM1-0 part numbers should be used on initial purchase. FX-SLxxxM1-6 should be used after initial purchase.

Ordering Information

Software installation images and software licenses are sold and delivered separately. To acquire the Release 14.0 software installation images, you can order part number FX-DVD-COPY to obtain a DVD, or you can download the images from the Pro FX User connected community.

The following tables list the product ordering codes, descriptions, and confidential list prices for all new offerings introduced in this letter.

To place your order, contact Johnson Controls® Product Software Sales at 1-414-525-7906 or 1-800-275-5676, email jciorder@jci.com, or fax to 1-800-356-1191. For answers to pricing questions, contact your Channel Account Manager.

Table 2: FX Server Ordering Information

Product Code Number	Description	List Price (USD)
FX-SL000-0	License enabling FX Server with 0 Niagara network connections. For use with TCP/IP devices.	\$953.70
FX-SL001-0	License enabling FX Server with 1 Niagara network connections.	\$1,343.34
FX-SL002-0	License enabling FX Server with 2 Niagara network connections.	\$1,734.00
FX-SL003-0	License enabling FX Server with 3 Niagara network connections.	\$2,123.64
FX-SL010-0	License enabling FX Server with 10 Niagara network connections.	\$4,855.20
FX-SL100-0	License enabling FX Server with 100 Niagara network connections.	\$7,369.50
FX-SLUNL-0	License enabling FX Server with unlimited Niagara network connections.	\$12,658.20
FX-SLAX-0	License enabling the capability to run Niagara AX.	-
FX-SL000M1-0	License enabling initial 1 year of software maintenance for FX Server with 0 Niagara connections.	\$168.30
FX-SL001M1-0	License enabling initial 1 year of software maintenance for FX Server with 1 Niagara connections.	\$237.66
FX-SL002M1-0	License enabling initial 1 year of software maintenance for FX Server with 2 Niagara connections.	\$306.00
FX-SL003M1-0	License enabling initial 1 year of software maintenance for FX Server with 3 Niagara connections.	\$375.36
FX-SL010M1-0	License enabling initial 1 year of software maintenance for FX Server with 10 Niagara connections.	\$856.80
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Product Code Number (Cont.)	Description	List Price (USD)
FX-SL100M1-0	License enabling initial 1 year of software maintenance for FX Server with 100 Niagara connections.	\$1,300.50
FX-SLUNLM1-0	License enabling initial 1 year of software maintenance for FX Server with unlimited Niagara connections.	\$2,233.80
FX-SLDEMO-0	Engineering/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. Requires support fee. Expires yearly.	\$816.00
FX-DVD-COPY	FX Supervisory Controller family software, delivered on DVD. Contains latest installation images for FX Server and FX Workbench. Licenses not included—order licenses separately ¹ .	\$50.00

1. At FX Supervisory Family Software 14.0, there is no equivalent to the Alarm Console. However, the FX Supervisory Family Software Alarm Console Release 6.x will communicate with and display alarms from FX Servers and FX Supervisory Controllers running FX Supervisory Family Software 14.0.

FX Server Device License Information

FX Server Release 14.0 and beyond do not require additional licenses for BACnet, LON, Modbus, KNX, or SNMP integrations.

FX Server Device Licenses are required when the FX Server will manage TCP/IP field controllers. Choose multiple Device License parts to total the amount of TCP/IP field controllers. For example, if the FX Server is to manager 58 TCP/IP field controllers, choose FX-SLDL050-0 and FXSLDL010-0 for a total of 60 TCP/IP field controllers.

The FX Server FX-SL000-0 should be chosen for systems that are made up of ONLY TCP/IP Field Controllers and do not require an FX Supervisory Controller. However, FX Server device licenses are not restricted to just that model of FX Server.

Note: Device licenses are also limited by proxy points. There is a limit of 50 proxy points per device. Be sure to account for both devices and proxy points when you place orders.

See below for ordering information on FX Server Device Licenses.

Table 3: FX Server Device License Ordering Information

Product Code Number	Description	List Price (USD)
FX-SLDL010-0	License enabling 10 IP device support for FX Server	\$1,479.00
FX-SLDL025-0	License enabling 25 IP device support for FX Server	\$2,014.50
FX-SLDL050-0	License enabling 50 IP device support for FX Server	\$4,029.00
FX-SLDL100-0	License enabling 100 IP device support for FX Server	\$6,120.00
FX-SLDL200-0	License enabling 200 IP device support for FX Server	\$9,384.00

Table 4: FX Server Software Accessories Ordering Information

Product Code Number	Description	List Price (USD)
FX-SLMYSQL-0	License enabling MYSQL database support for FX Server	\$2,677.50
FX-SLORCL-0	License enabling Oracle database support for FX Server	\$2,677.50
FX-SLSQL-0	License enabling SQL database support for FX Server	\$2,677.50
FX-SLCSV-0	License enabling CSV support for FX Server	\$2,677.50
FX-SLOPCCL-0	License enabling OPC client support for FX Server	\$831.30

Table 5: FX Server Upgrade Ordering Information

Product Code Number	Description	List Price (USD)
FX-SLU001-6	License enabling 1 additional Niagara network connection for FX Server.	\$459.00
FX-SLU100-6	License enabling up to 100 Niagara network connections for FX Server.	\$7,548.00
FX-SLUUNL-6	License enabling unlimited Niagara network connections for an FX 100 Server.	\$6,222.00

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

FX Server Software Maintenance Information

FX Server Release 14.0 and later require a software maintenance license with each FX Server purchase. Software maintenance allows you to install FX Server software, which is available during the software maintenance period purchased.

Note: Use the ordering codes in Table 2 to order the initial 1 year software maintenance and the ordering codes in Table 6 for when the initial 1 year maintenance period has expired.

Table 6: FX Server Software Maintenance Ordering Information

Product Code Number	Description	List Price (USD)
FX-SL000M1-6	License enabling 1 additional year of software maintenance for FX Server with 0 Niagara network connections.	\$168.30
FX-SL000M3-6	License enabling 3 additional years of software maintenance for FX Server with 0 Niagara network connections.	\$336.60
FX-SL000M5-6	License enabling 5 additional years of software maintenance for FX Server with 0 Niagara network connections.	\$561.00
FX-SL001M1-6¹	License enabling 1 additional year of software maintenance for FX Server with 1 Niagara network connection.	\$237.66
FX-SL001M3-6¹	License enabling 3 additional years of software maintenance for FX Server with 1 Niagara network connections.	\$474.30
FX-SL001M5-6¹	License enabling 5 additional years of software maintenance for FX Server with 1 Niagara network connections.	\$790.50
FX-SL002M1-6	License enabling 1 additional year of software maintenance for FX Server with 2 Niagara network connections.	\$306.00
FX-SL002M3-6	License enabling 3 additional years of software maintenance for FX Server with 2 Niagara network connections.	\$612.00
Continued on next page . . .		

Product Code Number (Cont.)	Description	List Price (USD)
FX-SL002M5-6	License enabling 5 additional years of software maintenance for FX Server with 2 Niagara network connections.	\$1,020.00
FX-SL003M1-6 ¹	License enabling 1 additional year of software maintenance for FX Server with 3 Niagara network connections.	\$375.36
FX-SL003M3-6 ¹	License enabling 3 additional years of software maintenance for FX Server with 3 Niagara network connections.	\$749.70
FX-SL003M5-6 ¹	License enabling 5 additional years of software maintenance for FX Server with 3 Niagara network connections.	\$1,249.50
FX-SL010M1-6	License enabling 1 additional year of software maintenance for FX Server with 10 Niagara network connections.	\$856.80
FX-SL010M3-6	License enabling 3 additional years of software maintenance for FX Server with 10 Niagara network connections.	\$1,713.60
FX-SL010M5-6	License enabling 5 additional years of software maintenance for FX Server with 10 Niagara network connections.	\$2,856.00
FX-SL100M1-6 ¹	License enabling 1 additional year of software maintenance for FX Server with 100 Niagara network connections.	\$1,300.50
FX-SL100M3-6 ¹	License enabling 3 additional years of software maintenance for FX Server with 100 Niagara network connections.	\$2,601.00
FX-SL100M5-6 ¹	License enabling 5 additional years of software maintenance for FX Server with 100 Niagara network connections.	\$4,335.00
FX-SLUNLM1-6 ¹	License enabling 1 additional year of software maintenance for FX Server with unlimited Niagara network connections.	\$2,233.80
FX-SLUNLM3-6 ¹	License enabling 3 additional years of software maintenance for FX Server with unlimited Niagara network connections.	\$4,467.60
FX-SLUNLM5-6 ¹	License enabling 5 additional years of software maintenance for FX Server with unlimited Niagara network connections.	\$7,446.00

1. In addition to providing additional software maintenance on FX Servers at or above Release 14.0, these same parts are required to migrate a legacy FX Server at Release 6.x to Release 14.0 and later.

Note: Migrating sites that are at Release 5.x or lower require an order for the LP-FXSWUPG-0 in addition to one of the part numbers above.

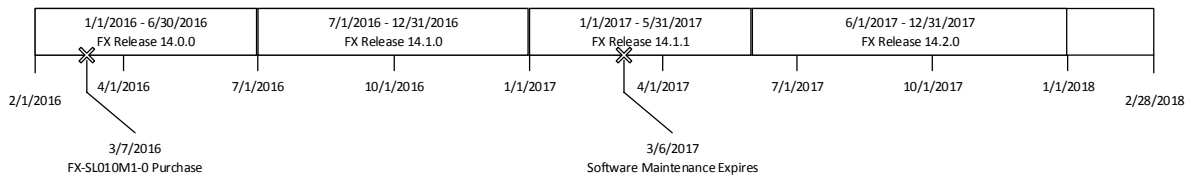
Table 7: FX Supervisory Controller Software Maintenance Ordering Information

Product Code Number	Description	List Price (USD)
FX-SC3EM1-6	License enabling 1 year of 14.x software maintenance for FX30E.	\$257.04
FX-SC3EM3-6	License enabling 3 years of 14.x software maintenance for FX30E.	\$379.44
FX-SC3EM5-6	License enabling 5 years of 14.x software maintenance for FX30E.	\$856.80
FX-SC6EM1-6	License enabling 1 year of 14.x software maintenance for FX60E.	\$780.30
FX-SC6EM3-6	License enabling 3 years of 14.x software maintenance for FX60E.	\$1,560.60
FX-SC6EM5-6	License enabling 5 years of 14.x software maintenance for FX60E.	\$2,601.00
FX-SC7M1-6	License enabling 1 year of 14.x software maintenance for FX70.	\$1,196.46
FX-SC7M3-6	License enabling 3 years of 14.x software maintenance for FX70.	\$2,392.92
FX-SC7M5-6	License enabling 5 years of 14.x software maintenance for FX70.	\$3,988.20

Examples:

Initial Maintenance Period:

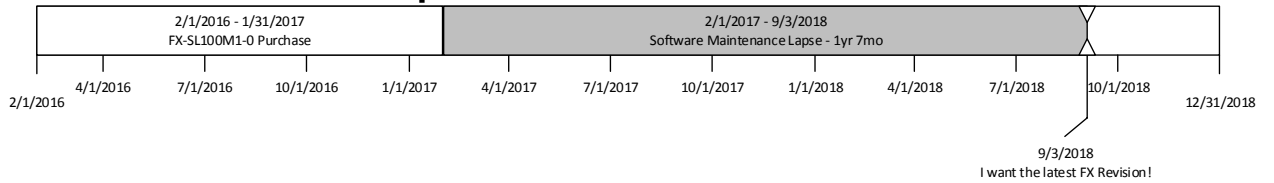
Release Dates, Names, Numbers, etc. are NOT real. Timeline is for explanation purposes ONLY!



Look at the above **example** of an FX release timeline.

The FX-SL010-0 and FX-SL010M1-0 is purchased on 3/7/15. Since it is purchased with 1 year software maintenance, that maintenance expires on 3/6/16. If no additional software maintenance is purchased, the only FX Releases allowed to be installed on that FX Server would be 14.0.0, 14.1.0, and 14.1.1. The software does not cease to work on 3/7/15; it continues to run, but is not upgradeable to 14.2.0 until an additional software maintenance has been purchased.

Software Maintenance Lapse Periods:



Although we recommend keeping the FX Server up to date with software maintenance, there is no requirement to do so after the initial purchase. If, however, the FX Server software maintenance lapses and you want the update after it lapses, software maintenance must be purchased for the lapsed period.

In the example timeline above, the FX-SL010-0 and FX-SL100M1-0 was purchased on 2/1/16. Since it was purchased with a 1 year software maintenance, the software maintenance expires on 1/31/17 (the software continues to run).

On 9/3/2018, although the FX Server had not previously purchased a software maintenance upgrade, a new FX Server software has been released and is desired for an upgrade. Since the software maintenance has expired, the FX Server must have it upgraded prior to installing the new release.

The one year software maintenance upgrade FX-SL100M1-6 cannot be purchased as the software maintenance has already lapsed more than a year. Instead, the 3 year software maintenance upgrade FX-SL100M3-6 must be purchased. The software maintenance will start retroactively on 2/1/2017 and be good through 1/31/20.

Table 8: Niagara 4 Online Crossover Training Ordering Information

Product Code Number	Description	List Price (USD)
FX-N4XOOT-0	FX Niagara 4 crossover self-paced online training. Students who pass the online test will be Niagara 4 certified. Prerequisite: 4701 Facility Explorer® (FX) Supervisory Controllers Engineering and Setup	\$2,500.00

Release Schedule

Table 9: Release Schedule

Product	Date
FX Supervisory Family Software Release 14.0.0 Available to Order	January 19, 2015
FX Supervisory Family Software Release 14.0.0 Available to Ship	January 25, 2015

Documentation and Training

The following table provides titles and code numbers for the new and revised Facility Explorer related documents for the offerings introduced in this letter. Note that for the revised literature, only the documents that incurred changes directly related to the release are listed.

Table 14: New or Revised Document

Document Name	LIT Number
<i>FX Supervisory Controller Upgrade and Migration Instructions Technical Bulletin</i>	<i>LIT- 12011441</i>
<i>FX Supervisory Controller Product Bulletin</i>	<i>LIT-12011406</i>
<i>FX Supervisory Controller Catalog Page</i>	<i>LIT-1900552</i>
<i>FX Server 14.0 Product Bulletin</i>	<i>LIT-12012251</i>
<i>FX Server 14.0 Catalog Page</i>	<i>LIT-1901000</i>
<i>FX Supervisory Controller Family Software Products (Release 14.x) Installation Instructions</i>	<i>LIT-12012253</i>
<i>FX Workbench User's Guide</i>	<i>LIT-12011149</i>

Sincerely,

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