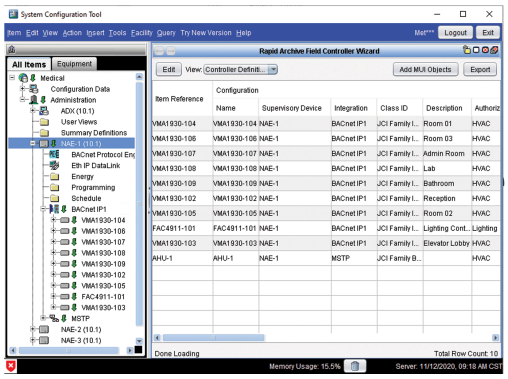
System Configuration Tool Catalog Page

2023-09-06 LIT-1900198 Release 16.0



System Configuration Tool

The System Configuration Tool (SCT) supports the engineering, installation, and commissioning of your building automation system. The SCT application enables fast offline generation and configuration of the complete site, which includes point naming and, depending on your operating system, the integrations in the following table.

Table 1: SCT integrations

Brand	Integrations
Metasys	• N1, N2, BACnet®, and LonWorks® networks • Modbus, M-Bus, KNX, and OPC UA third-party protocols • Integration of local and remote MS/TP devices, definition of tailored summaries and user views, the creation of custom control logic that uses a graphical user interface • Integration of building systems such as C•CURE 9000 access control, victor video management, Simplex® fire, Zettler® fire, and connected lighting systems from preferred vendors. • External Data Connector on 12.0 engines for MQ Telemetry Transport (MQTT).
Facility Explorer	• BACnet/IP for FX IP-based equipment controllers and other third-party BACnet/IP devices. • BACnet MS/TP for FX equipment controllers and TEC equipment controllers, non- FX BACnet controllers, and other third-party BACnet MS/TP devices.

The SCT also includes the SCT Pro web application. SCT Pro includes a subset of the features that are available in the SCT. Each release incorporates and optimizes features from the SCT into SCT Pro to significantly streamline workflows and simplify tasks. For example, SCT Pro features a single, automated process to upgrade network engines. SCT Pro also includes features that are not available in the SCT.

SCT and SCT Pro use the same databases and share the same job scheduling system, called the Action Queue. You can use the SCT and SCT Pro interchangeably and select the most appropriate application for the current task.

You can use SCT or SCT Pro to manage a site with mixed release devices. This depends on your operating system. See the following table for further details.

Table 2: SCT compatible devices

Brand	Devices
Metasys Release 5.2 and higher	• SNE, SNC, Network Automation Engine (NAE), Network Control Engine (NCE), Network Integration Engine (NIE) • Application and Data Server or Extended Application and Data Server (ADS or ADX), Open Application Servers (OAS), Open Data Server (ODS), and the Metasys UI • WRG1830 Wireless Router Gateway, WNC1800 Wireless Network Coordinator (WNC)
Facility Explorer	• F4-SNC

To keep the archive database current, you can schedule regular uploads from the devices on the site.

From SCT Release 14.1 and later, you require device packages, Generic SA Bus packages, and field controller packages to maximize the use of SCT. You can obtain these packages from the License Portal.

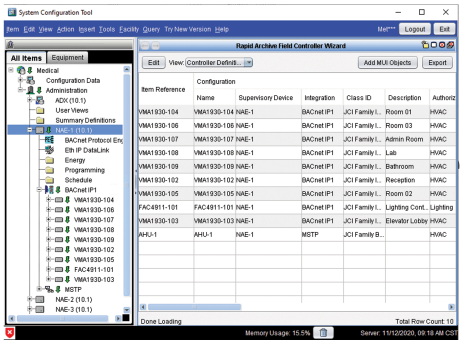
SCT has a simple, one-click installation. The SCT installer installs the required software prerequisites, such as Internet Information Services (IIS) and Microsoft® .NET Framework 4.7.2. If no SQL Server® Express is present, the SCT installer installs SQL Server 2019 CU 18 software.

The SCT installation includes two additional applications: Launcher and Software Manager. Use the Launcher application to access both the SCT

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and the Site Management Portal (SMP). Use the Software Manager application to manage licenses for Johnson Controls® software and features. For example, you can apply or remove licenses for the SCT software, device packages, Generic SA Bus packages, and field controller packages.

Figure 1: SCT user interface



IT security commitment

To provide even higher security, Metasys and Facility Explorer systems employ signed resource files and supervisory devices with site director pairing to ensure encrypted communication.

Both systems use secure HTTP with Transport Layer Security (TLS) 1.2 between the SCT computer, the servers, and, depending on your operating system, Metasys network engines that are upgraded to Metasys Release 8.1 and later, or the F4-SNC. This ensures that unauthorized users and computer hackers cannot view the contents of communications sent between Metasys or Facility Explorer equipment. By default, self-signed certificates are installed on supported products, with the option of configuring trusted certificates configured by an internal IT department or a Certificate Authority. To indicate the active security level, trusted, self-signed, or untrusted, three small security shield icons appear on the SCT logon and SCT UI screens.

Selection chart

Table 3: SCT selection chart

Code number	Description
TL-SCT-0	SCT software for local installations. Provides access to SCT 14.1 and later for both Metasys and Facility Explorer users.
TL-SCT-P	SCT software for local installations. Provides access to SCT 13.x for Metasys users only.
TL-BUNDLEMS-0	Tool Bundle Metasys
TL-BUNDLEFX-0	Tool Bundle Facility Explorer

The SCT software and Trunk Utility features require license activation at SCT Release 13.0 and later. Use the Software Manager to license software and features. The Software Manager installs with the SCT software. For more information on how to license software, refer to the *Software Manager Help (LIT-12012389)*.

SCT technical specifications

Depending on your operating system, refer to the documents in the following table for further information.

Table 4: SCT integrations

Operating system	Integrations
Metasys	For instances where you install SCT on the same computer as the ADS/ADX software, refer to the specifications in the *Application and Data Server (ADS) and Extended Application and Data Server (ADX) Product Bulletin (LIT-1201525)*.
Facility Explorer	Refer to the *F4-SNC Commissioning Guide (LIT-12013549)*

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Notes:

- For specific Microsoft Windows® OS setting requirements for your Metasys system configuration, refer to the *Network and IT Guidance Technical Bulletin (LIT-12011279)*.
- For information on how to license Microsoft SQL Server, refer to the *Microsoft SQL Server Licensing Guide* for your edition of Microsoft SQL Server.

Table 5: SCT system requirements

Specification	Description
Product code	TL-SCT-0 TL-SCT-P TL-BUNDLEMS-0 TL-BUNDLEFX-0
Full server platform	Intel® Core™ i7-8700 processor, Six Core, 3.20GHz. 20 GB minimum free hard disk space available. Use a Solid State Drive (SSD) to significantly improve performance compared to other types of hard disks. 8GB to 16GB 2666MT/s, Dual Rank DDR UDIMM
Desktop computer platform	Intel® Core™ i7-8700 processor, Six Core, 3.20GHz. 20 GB minimum free hard disk space available. Use a Solid State Drive (SSD) to significantly improve performance compared to other types of hard disks. 16 GB RAM
Supported full server platform operating systems and database software ⓘ **Note:** If you install SCT on a standalone server and not on a Metasys or Facility Explorer server, you can also use the Express versions of Microsoft SQL Server when you install SQL Express manually before you install SCT.	**Windows® Server® 2022 (64-bit)** Supports Microsoft SQL Server® 2022 Express (64-bit), SQL Server® 2019 Express with CU18 (64-bit) or, SQL Server® 2017 Express with CU31 (64-bit).
	Windows® Server® 2019 (version 1809 or later) (64-bit) Supports Microsoft SQL Server® 2022 Express (64-bit), SQL Server® 2019 Express with CU18 (64-bit), or SQL Server® 2017 Express with CU31 (64-bit).

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Table 5: SCT system requirements

Specification	Description
Supported desktop computer platform operating systems and database software	Windows® 11 Pro and Windows® 11 Enterprise Editions (version 21H2, 22H2) (64-bit) Supports Microsoft SQL Server® 2022 Express (64-bit), SQL Server® 2019 Express with CU18 (64-bit), or SQL Server® 2017 Express with CU31 (64-bit)
	Windows® 10 Pro and Windows 10 Enterprise Editions versions 21H2, 22H2 (64-bit). Supports Microsoft SQL Server® 2022 Express, SQL Server® 2019 Express with CU18 (64-bit), or SQL Server® 2017 Express with CU31 (64-bit) ⓘ **Note:** Any Windows 10 computer that runs either Metasys 11.0 software, including the ADS, ADX, or Facility Explorer software requires the Windows 10 version 1903 update. Verify this update before you install either Metasys 11.0 or Facility Explorer software. ⓘ **Note:** Metasys specific: If you upgrade to Metasys Release 11.0 and do not have this update, uninstall the previous release of all Metasys software, apply the Windows 10 version 1903 update, then proceed with the Metasys 11.0 upgrade.
Supported web browser software for JCI client computers	Microsoft® Edge® version 101 or later, Apple® Safari® 15.0 or later, and Google® Chrome™ version 101 or later. You can use other browsers, such as Mozilla® Firefox®, but SCT may not fully support them. ⓘ **Note:** Use a web browser to download the Launcher application. After you install the Launcher application, you can use the Launcher to log in to the SCT UI. ⓘ **Note:** Metasys specific: You can also use the web browsers to access the SMP UI, Metasys UI, Johnson Controls System Configuration Tool (JCT) , and SCT Pro sites. You can also add a bookmark to the Metasys UI, JCT, and SCT Pro sites.
Network communication for SCT client computers	Ethernet network interface card 10/100/1000 Mbps (100 Mbps network or better)
Optional software packaging	ⓘ **Note:** Metasys Server software does not include a license for SCT 14.1 or later. Obtain a license for each installation of SCT, device packages, and the Generic SA Bus package, as well as a license for field controller packages to upload and download `.caf` files. The Generic SA Bus package is licensed with CCT, but the device packages and field controller packages are licensed individually through the License Portal.

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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

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Contact information

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