



AADvance-Trusted SIS Workstation Software Installation Guide

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Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.



WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.



ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

IMPORTANT Identifies information that is critical for successful application and understanding of the product.

Labels may also be on or inside the equipment to provide specific precautions.



SHOCK HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.



BURN HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.



ARC FLASH HAZARD: Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this publication are not in alignment with the movement toward inclusive language in technology. We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.

This manual includes new and updated information. Use these reference tables to locate changed information.

Grammatical and editorial style changes are not included in this summary.

Global changes

None for this release.

New or enhanced features

This table contains a list of topics changed in this version, the reason for the change, and a link to the topic that contains the changed information.

Topic name	Reason
Supported hardware controllers/processors on page 11	Updated to indicate AADvance Control System release 1.41.
Software requirements on page 12	Changes in operating system requirements.
Legal Notices on page 23	Updated content.

Summary of changes

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About this manual

This installation guide describes AADvance®-Trusted® SIS Workstation software, the detailed installation steps, and how to obtain an authorized license. Contents of this installation guide are in the order of use during installation.

- *AADvance-Trusted SIS Workstation software basics* provides an overview of the system layout.
- *Hardware, system requirements, and prerequisites information* identifies supported controllers and processors, and requirements for the computers and operating systems.
- *AADvance-Trusted SIS Workstation software installation* provides the information that is required to prepare and install the components for a complete installation.
- *AADvance-Trusted SIS Workstation software applications licensing* provides the procedures for obtaining an authorized license that enables the development of AADvance or Trusted applications and for removing a license.

See also

[AADvance-Trusted SIS Workstation software basics](#) on [page 9](#)

[Hardware, system requirements, and prerequisites information](#) on [page 11](#)

[AADvance-Trusted SIS Workstation software installation](#) on [page 15](#)

[AADvance-Trusted SIS Workstation software applications licensing](#) on [page 19](#)

About the AADvance-Trusted SIS Workstation software documentation

Along with the AADvance-Trusted SIS Workstation software Installation Guide, the AADvance-Trusted SIS Workstation software user assistance includes:

- **Online help** contains procedures and reference information. Access from the **Help** menu in AADvance-Trusted SIS Workstation software, and from editors and dialog boxes used in AADvance and Trusted applications.
- **User documentation** contains procedures and reference information in a PDF format. Access from the Rockwell Automation Literature Library.



Tip: Acrobat® Reader may be required to view the manuals. For information about how to use Acrobat Reader, see the product documentation.

- **Release notes** contain information that is needed before installing or working with AADvance-Trusted SIS Workstation software. Access the Release Notes from **Help > View Release Notes** and from the Rockwell Automation Product Compatibility and Download Center.

Where to get this manual

The Installation Guide is available in PDF format from the AADvance-Trusted SIS Workstation software installation package and from the Rockwell Automation Literature Library.



Tip: In the Literature Library, to find the current version of the Installation Guide and the user documentation, search for publication numbers that contain the string *ICSTT*.

See also

[About the AADvance-Trusted SIS Workstation software documentation](#) on [page 7](#)

[Hardware, system requirements, and prerequisites information](#) on [page 11](#)

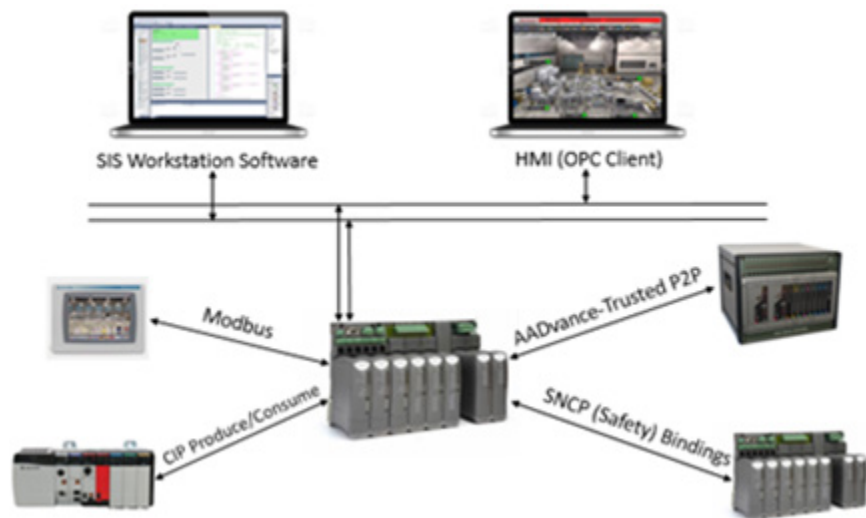
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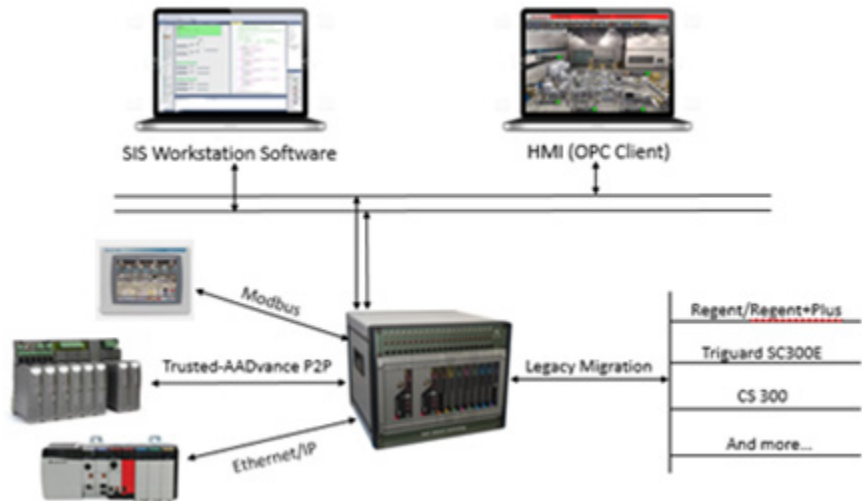
AADvance-Trusted SIS Workstation software basics

AADvance®-Trusted® SIS Workstation software is a complete design, configuration, and maintenance software environment that enables the design of a complete multi-controller safety strategy as a single project, and then targets parts of the strategy for each controller. Use AADvance-Trusted SIS Workstation software to create SIL 2-3, fail-safe to fault tolerant, and triple modular redundant (TMR) software architecture that supports Safety Instrumented System requirements.

AADvance-Trusted SIS Workstation software supported IEC 61131 languages for AADvance applications are: Function Block Diagram (FBD), Ladder Diagram (LD), Sequential Function Chart (SFC), and Structured Text (ST). Other than SFC, all produced code is validated for use in safety applications. AADvance-Trusted SIS Workstation software does not validate SFC code. AADvance-Trusted SIS Workstation software communicates across all aspects of an AADvance system.



AADvance-Trusted SIS Workstation software supported IEC 61131 languages for Trusted® applications are: Function Block Diagram (FBD), Ladder Diagram (LD), and Structured Text (ST). All produced code is validated for use in safety applications. AADvance-Trusted SIS Workstation software communicates across all aspects of a Trusted system.



Hardware, system requirements, and pre-requisites information

This section introduces AADvance and Trusted® supported hardware processors, computer, and Microsoft® Windows® support information for the AADvance®-Trusted® SIS Workstation software.

Review the system requirements before installation.

See also

[Supported hardware controllers/processors](#) on [page 11](#)

[Hardware requirements](#) on [page 11](#)

[Software requirements](#) on [page 12](#)

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Supported hardware controllers/processors

AADvance®-Trusted® SIS Workstation software is a complete design, configuration, and maintenance software environment that enables the design of a complete multi-controller safety strategy as a single project. Create either AADvance or Trusted® projects from AADvance-Trusted SIS Workstation software.

AADvance projects download to any AADvance® Control System. Trusted projects download to any Trusted Safety System.

This version of AADvance®-Trusted® SIS Workstation software is associated with Trusted® system release 4.0 and AADvance Control System release 1.41. AADvance and Trusted controllers compatible for these system release versions are compatible for use with AADvance-Trusted SIS Workstation software.

See also

[Hardware requirements](#) on [page 11](#)

[Software requirements](#) on [page 12](#)

[Prerequisite requirements](#) on [page 12](#)

Hardware requirements

The computer hardware to install and operate the AADvance®-Trusted® SIS Workstation software must be adequate for the demands of each component.

Based specifications on the hardware that the software and supported operating systems require.

For this release of AADvance-Trusted SIS Workstation software, minimum hardware requirements are:

- 2 GB of RAM
- 3 GB of available space on the hard disk drive
- 1.6-GHz processor or greater
- 5400-RPM hard disk drive

See also

[Supported hardware controllers/processors](#) on [page 11](#)

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[Prerequisite requirements](#) on [page 12](#)

Software requirements

AADvance®-Trusted® SIS Workstation software is tested on operating systems that are installed from original Microsoft® media only.

AADvance-Trusted SIS Workstation software requires the following software and operating system:

- A 64-bit operating system:
 - Windows Server® 2016 Standard Edition
 - Windows Server 2019 Standard Edition
 - Windows® 10 Professional
 - Windows 10 Enterprise, Long-Term Servicing Channel (LTSC) v1809
 - Windows 10 Enterprise, Semi-Annual Channel v20H2
- .NET Framework 3.5 SP1
- Adobe® Reader® XI (11)

Rockwell Software products are expected to be compatible with most antivirus protections on the market. However, proper configuration is required. It is important to understand that any of these antivirus protections can impact operation if the configuration is too restrictive. These configurations are generally in the area of firewalls, network threat protections, and access controls.

See also

[Hardware requirements](#) on [page 11](#)

[Supported hardware controllers/processors](#) on [page 11](#)

[Prerequisite requirements](#) on [page 12](#)

Prerequisite requirements

These prerequisites are required on the computer that runs the AADvance®-Trusted® SIS Workstation software. During installation, these

prerequisites automatically install. If the prerequisites fail to install, manually install them from the Prerequisites folder that is in the installation build.

- OPC® Core Components, version 105.1
- Microsoft® Visual C++® 2008 SP1 Redistributable Package
- Microsoft Visual C++ 2010 SP1 Redistributable Package
- Microsoft Visual C++ 2013 Redistributable Package
- Microsoft Visual Studio 2013 Isolated Shell

To correct the incomplete display of some or all toolbox items upon resetting for FBD, LD, SFC, or ST programming languages.

- (optional) Microsoft Visual Studio 2013 Update 5 available at:
<https://docs.microsoft.com/en-us/visualstudio/releases/notes/vs2013-update5-vs>

AADvance-Trusted SIS Workstation software also has dependencies on Microsoft .NET Framework 4.5.1. If this software component is not present, Microsoft .NET Framework 4.7.2 installs and updates if necessary.

Important: Uninstalling AADvance-Trusted SIS Workstation software does not remove these components. After verifying that other software does not rely on them, remove these components manually.

AADvance-Trusted SIS Workstation software also requires the following software components.

- Microsoft .NET Framework 3.5 Service Pack 1

See also

[Install the Microsoft .NET Framework 3.5 Service Pack 1](#) on [page 17](#)

AADvance-Trusted SIS Workstation software installation

Read this section before installing the AADvance®-Trusted® SIS Workstation software.

Important: The AADvance-Trusted SIS Workstation software installation requires administrator rights in Windows.

Install AADvance-Trusted SIS Workstation software

The installation is interrupted and resumes after installing those prerequisites when the AADvance®-Trusted® SIS Workstation software installation does not detect some prerequisites.

Prerequisites

- Verify that the installation drive supports 8dot3 filenames.
- Assign administrator rights in Windows.
- Set region and language settings to English (US).
- Install .NET Framework 3.5 SP1
- Install all Windows updates.
- Close all programs and do not run any programs until the installation completes.

To install AADvance-Trusted SIS Workstation software

1. Install from either:
 - A compressed archive such as a zip file. Make a local copy of the archive on the hard disk drive, place the archive in a temporary folder on the hard disk drive, and decompress the archive file. Locate and double-click the Setup.exe file.
 - DVD. Place the disk into the DVD-ROM drive and wait for the disk to Autorun. If the installer does not start, locate and double-click the Setup.exe file.
2. Follow the on-screen instructions.
3. If the OPC® core components are not installed on the computer, the core components installation automatically starts.

The AADvance-Trusted SIS Workstation software installation resumes upon completion of the core components installation.

4. If the Visual Studio 2013 isolated shell is not installed, select **Yes** when the installation prompts to install the shell.

The AADvance-Trusted SIS Workstation software installation resumes upon completion of the isolated shell installation.

5. Upon completion of the AADvance-Trusted SIS Workstation software installation, check whether to run the workstation and show the release notes for the software, and then select **Finish**.
6. (optional) Install the Visual Studio® version 2013 Update 5 available at <https://docs.microsoft.com/en-us/visualstudio/releases/notes/vs2013-updates5-vs>.

This installation corrects the incomplete display of some or all Toolbox items when resetting for FBD, LD, SFC, or ST programming languages.

See also

[Install the OPC core components](#) on [page 16](#)

[Install the Microsoft Visual Studio 2013 isolated shell](#) on [page 17](#)

[Install the Microsoft .NET Framework 3.5 Service Pack 1](#) on [page 17](#)

[License AADvance applications](#) on [page 19](#)

[License Trusted applications](#) on [page 20](#)

Install the OPC core components

The AADvance-Trusted SIS Workstation software installation automatically launches the OPC® core components installation when these components are not detected on the computer.

Install OPC core components

1. On the OPC Core Components Redistributable page, read and agree to the terms of the agreement, and then select **Next**.
2. On the Select Installation Folder page, specify the folder for the OPC core components and whether to install for everyone or just you, and then select **Next**.
3. On the Confirm Installation page, select **Next**.

A progress bar indicates the advancement of the OPC core components installation.

4. On the Installation Complete page, select **Close**.

The OPC core components are installed. The AADvance-Trusted SIS Workstation software installation verifies if the Microsoft® Visual Studio® 2013 isolated shell is installed.

See also

[Install AADvance-Trusted SIS Workstation software](#) on [page 15](#)

Install the Microsoft Visual Studio 2013 isolated shell

The AADvance-Trusted SIS Workstation software installation automatically prompts to install the Microsoft® Visual Studio® 2013 isolated shell when not detected on the computer.

Install the Visual Studio isolated shell

1. On the Visual Studio 2013 isolated shell page, read the warnings, and then select **Continue**.



Tip: If installation stops while installation of the isolated shell, let the installer run for at least ten minutes before investigating a possible problem.

2. On the Setup page, specify the installation folder and check to agree to the license terms and privacy policy, and then select **INSTALL**.

Progress bars indicate the advancement of the Visual Studio 2013 isolated shell installation.

3. When the Setup Successful page appears, select **Close**.

See also

[Install AADvance-Trusted SIS Workstation software](#) on [page 15](#)

Install the Microsoft .NET Framework 3.5 Service Pack 1

AADvance-Trusted SIS Workstation software requires Microsoft® .NET Framework 3.5 SP1 for these operating systems:

- Windows 7 (32 bit and 64 bit)
- Windows 8 (32 bit and 64 bit)
- Windows 8.1 (32 bit and 64 bit)
- Windows Server 2012
- Windows Server 2012 R2
- Windows 10 (32 bit and 64 bit)

Prerequisites

Choose one of the following:

- With an Internet connection, install .NET Framework 3.5 SP1 via Control Panel.
- Without an Internet connection, install .NET Framework 3.5 SP1 with DISM (Deployment Image Servicing and Management) command-line tool. You need the original Windows installation DVD and administrative rights in the operating system. Perform the following steps.

Install Microsoft .NET Framework

1. Insert the Windows installation DVD.
2. Open a **Command Prompt** window with administrative credentials (that is, select **Search** in the charms bar, type *CMD* in the search box; in the searching results, right-click the Command Prompt icon, and select **Run as administrator**.)
3. In the **Command Prompt** window, type the following command, and then press **Enter**:

```
DISM /Online /Enable-Feature /FeatureName:NetFx3 /All /LimitAccess  
/Source:E:\sources\sxs
```



Tip: In the command, the */Source:* specifies the location of the files that are needed for the .NET Framework 3.5 SP1 installation. You must specify this location according to the path to your Windows installation DVD. In this example, the location is *E:\sources\sxs*. When the installation is completed, the following message shows in the Command Prompt window: "The operation completed successfully."

See also

<http://msdn.microsoft.com/en-us/library/hh506443.aspx>

<http://support.microsoft.com/kb/2734782>

[Install AADvance-Trusted SIS Workstation software](#) on [page 15](#)

AADvance-Trusted SIS Workstation software applications licensing

License the AADvance®-Trusted® SIS Workstation software to develop AADvance or Trusted® applications to create virtual machines that run on hardware components, called targets. A Demo license delivers with the product available as a 30-day trial of the fully operational version for testing the product.

License AADvance applications

Use the AADvance®-Trusted® SIS Workstation software to create virtual machines that run on hardware components, called targets.

For AADvance applications, use the AADvance-Trusted SIS Workstation software with these types of software licenses:

- **Demo License:** delivered with the product and available for testing the product. This license provides a 30-day trial of the fully operational version of the AADvance-Trusted SIS Workstation software for AADvance applications.
- **Full License:** obtained by manually activating an unlicensed version of the product. The Full License is a fully operational version of the product that enables the creation of AADvance projects that contain multiple controllers.

The obtained license is specific to a computer. The Full license persists through all uninstall and reinstall operations. To move the license to another computer, contact the support team to remove the license and then reauthorize it on another computer.

See also

[Obtain an authorized Full license](#) on [page 19](#)

[Remove an authorized license](#) on [page 20](#)

Obtain an authorized Full license

After the Demo License expires, obtain a Full license to continue using the AADvance®-Trusted® SIS Workstation software for AADvance applications.

To obtain a Full license

1. From the **Help** menu, select **Licensing AADvance**.

The licensing information displays along with three User Codes.

2. Send an email that contains the required license type and all three **User Codes** to the support team:

keymaster@ra.rockwell.com

3. The support team emails you back **Registration Keys 1** and **2**.
4. Enter the registration keys in their respective fields and select **Validate**.



Tip: The User Codes may have changed since last displayed; the Registration Keys returned by the support team becomes invalid. Request new Registration Keys by sending the displayed User Codes.

The AADvance-Trusted SIS Workstation software is licensed for use with AADvance applications.

See also

[Remove an authorized license](#) on [page 20](#)

Remove an authorized license

To move the license to another computer, contact the support team to remove the license and then reauthorize it on another computer.

To remove an authorized license

1. From the **Help** menu, select **Licensing AADvance**.
The licensing information displays along with three User Codes.
2. Send an email that contains all three user codes to the support team:
keymaster@ra.rockwell.com
3. The support team emails you back **Registration Keys 1** and **2**.
4. Insert the registration keys in their respective fields and select **Validate**.

A confirmation code appears.

5. Send an email that contains the confirmation code to the support team:

keymaster@ra.rockwell.com

The AADvance®-Trusted® SIS Workstation software is no longer licensed for AADvance applications.

See also

[Obtain an authorized Full license](#) on [page 19](#)

License Trusted applications

Use the AADvance®-Trusted® SIS Workstation software to create virtual machines that run on hardware components, called targets.

For Trusted applications, the AADvance-Trusted SIS Workstation software is available for use with the following types of software licenses:

- Demo License: delivered with the product and available for testing the product. This license provides a 60-day trial of the fully operational version of the AADvance-Trusted SIS Workstation software for Trusted applications.
- Full License: obtained by manually activating an unlicensed version of the product. The Full License is a fully operational version of the product that enables the creation of Trusted projects that contain one device.

The obtained license is specific to a computer. The Full license persists through all uninstall and reinstall operations. To move the license to another computer, contact the support team to remove the license and then reauthorize it on another computer.

See also

[Obtain an authorized Full license](#) on [page 21](#)

[Remove an authorized license](#) on [page 22](#)

Obtain an authorized Full license

After the Demo License expires, obtain a Full license to continue using the AADvance-Trusted SIS Workstation software for Trusted applications.

To obtain an authorized Full license

1. From the **Help** menu, select **Licensing CAM Trusted**.
The licensing information displays along with three User Codes.
2. Send an email that contains the required license type and all three **User Codes** to the support team:
keymaster@ra.rockwell.com
3. The support team emails you back **Registration Keys 1** and **2**.
4. Enter the registration keys in their respective fields and select **Validate**.



Tip: The User Codes may have changed since they were last displayed; the Registration Keys returned by the support team becomes invalid. You must request new Registration Keys by sending the displayed User Codes.

The AADvance-Trusted SIS Workstation software is licensed for use with Trusted applications.

See also

[Remove an authorized license](#) on [page 22](#)

[License Trusted applications](#) on [page 20](#)

Remove an authorized license

To move the license to another computer, contact the support team to remove the license and reauthorize it on another computer.

Prerequisites

- Gather authorized license information.
- Contact the support team.

To remove an authorized license

1. From the **Help** menu, select **Licensing CAM Trusted**.
The licensing information displays along with three User Codes.
2. Send an email that contains all three user codes to the support team:
keymaster@ra.rockwell.com
3. The support team emails you back **Registration Keys 1 and 2**.
4. Enter the registration keys in their respective fields and select **Validate**.
A confirmation code appears.
5. Send an email that contains the confirmation code to the support team:
keymaster@ra.rockwell.com
The AADvance-Trusted SIS Workstation software is no longer licensed for Trusted applications.

See also

[Obtain an authorized Full license](#) on [page 21](#)

Legal Notices

Legal Notices

Rockwell Automation publishes legal notices, such as privacy policies, license agreements, trademark disclosures, and other terms and conditions on the [Legal Notices](#) page of the Rockwell Automation website.

End User License Agreement (EULA)

You can view the Rockwell Automation End User License Agreement (EULA) by opening the license.rtf file located in your product's install folder on your hard drive.

The default location of this file is:

```
C:\Program Files (x86)\Rockwell Automation\SIS Workstation <version number>\ACP\License.rtf.
```

Open Source Software Licenses

The software included in this product contains copyrighted software that is licensed under one or more open source licenses.

You can view a full list of all open source software used in this product and their corresponding licenses by opening the oss_license.txt file located your product's OPENSOURCE folder on your hard drive. This file is divided into these sections:

- **Components**
Includes the name of the open source component, its version number, and the type of license.
- **Copyright Text**
Includes the name of the open source component, its version number, and the copyright declaration.
- **Licenses**
Includes the name of the license, the list of open source components citing the license, and the terms of the license.

The default location of this file is:

```
C:\Program Files (x86)\Rockwell Automation\SIS Workstation <version number>\ACP\ATSIWS Release Notes\OPENSOURCE\oss_licenses.txt.
```

You may obtain Corresponding Source code for open source packages included in this product from their respective project web site(s).

Alternatively, you may obtain complete Corresponding Source code by contacting Rockwell Automation via the **Contact** form on the Rockwell Automation website:

<http://www.rockwellautomation.com/global/about-us/contact/contact.page>.

Please include "Open Source" as part of the request text.

Rockwell Automation support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	rok.auto/support
Knowledgebase	Access Knowledgebase articles.	rok.auto/knowledgebase
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	rok.auto/pcdc

Documentation feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at rok.auto/docfeedback.

Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.





Rockwell Automation maintains current product environmental information on its website at rok.auto/pec.

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