

Studio 5000 Data Adapter Tool



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.

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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).

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Introduction

The Studio 5000® environment combines engineering and design elements into one standard framework that enables optimized productivity and reduced commissioning time, including a programming interface for the PLC and IO devices in your system. The content is arranged and configured with a focus on logical programming of system elements. Autodesk® AutoCAD® Electrical is used to design electrical schematics and electro-mechanical layouts for automation systems. The content is arranged and represented with a focus on physical layout and interconnectivity.

Studio 5000 Data Adapter Tool empowers the user to perform Rockwell Automation® PLC and IO hardware configuration data exchange between Studio 5000 and Autodesk AutoCAD Electrical. It enables greater productivity by exchanging data from previously configured elements in Studio 5000 and automatically generating two dimensional PLC/IO footprint (layout) and electrical schematic drawing content in Autodesk AutoCAD Electrical. Use the Studio 5000 Data Adapter Tool for a more streamlined workflow and better data quality in managing electrical system CAD drawing packages.

Important: The Studio 5000 Data Adapter Tool uses a unique set of PLC footprint and IO schematic symbols, generated in the NFPA standard, for the Rockwell Automation part catalog numbers.

The data exchange content provides information from one software tool to another and is meant to give a head start in designing the drawing package in Autodesk AutoCAD Electrical. Review drawing output and complete all required connections prior to installation, configuration, operation, and maintenance of the system.



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

See also

[Data exchange workflow](#) on [page 11](#)

[Log files in the Studio 5000 Data Adapter Tool](#) on [page 25](#)

Installation

This section provides instructions on how to install the Studio 5000 Data Adapter Tool.

Important: Administrator rights are required to install the Studio 5000 Data Adapter Tool.

Install the Studio 5000 Data Adapter Tool

Install the Studio 5000® Data Adapter Tool to perform the hardware configuration data exchange between Studio 5000® and Autodesk® AutoCAD® Electrical.

Prerequisites

- Autodesk AutoCAD Electrical installed on the same computer.
- Review the Studio 5000 Data Adapter Tool Release notes prior to installation.

To install the Studio 5000 Data Adapter Tool

1. Go to the PCDC website:

<http://compatibility.rockwellautomation.com/Pages/home.aspx>

To use this site, you must register and log in.

2. In the **Downloads** area, click **Find Downloads**.
3. In the **Find Downloads** page, enter **Studio 5000 Data Adapter Tool** and click **Search**.
4. Select the row of **Studio 5000 Data Adapter Tool** and click **Downloads** to continue.
5. In this page, click the **Show downloads** icon to show the available downloads.
6. In the **Available Downloads** page, select **Studio 5000 Data Adapter Tool** and click **Downloads**.
7. Follow instructions on the web to download the installation package.

8. Run Setup.exe.
9. On the **Setup** page, select **Studio 5000 Data Adapter Tool**, then select **Install Now**.
10. On the **End User License Agreements** page, review the agreement and select **Accept all**.
11. Select **Close**.

See also

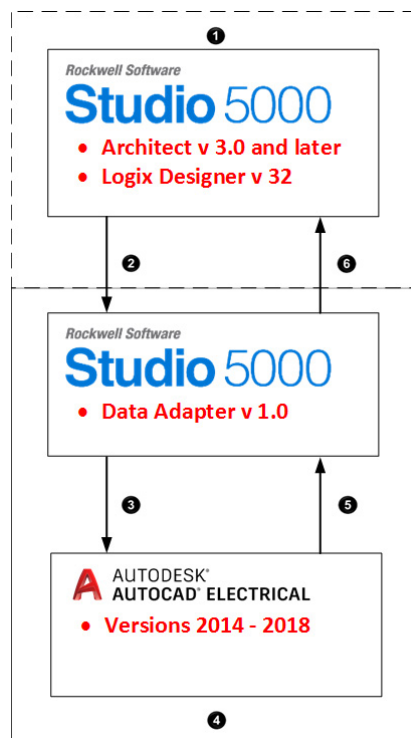
[Data exchange workflow](#) on [page 11](#)

Data exchange workflow

Use the Studio 5000® Data Adapter Tool to perform Rockwell Automation® PLC and IO hardware configuration data exchange between Studio 5000 and Autodesk AutoCAD Electrical. Convert data from previously configured elements in Studio 5000 and automatically generate two dimensional PLC/IO footprint (layout) and electrical schematic drawing content in Autodesk AutoCAD Electrical. Use the Studio 5000 Data Adapter Tool to streamline workflow and enable better data quality in your electrical system CAD drawing packages.

Important: For Autodesk AutoCAD Electrical data to be exported to Studio 5000, the Studio 5000 Data Adapter Tool must first be used to generate the Autodesk AutoCAD Electrical drawing files.

Supported Studio 5000 to Autodesk AutoCAD Electrical workflow starting in Studio 5000 only



Item	Description
①	Studio 5000 options: <ul style="list-style-type: none"> • Studio 5000 Architect v 3.0 or later <ul style="list-style-type: none"> • Multiple controller environment • Hardware device configuration exchange • IO Point tag (alias) exchange • Round trip/merge exchange • Studio 5000 Logix Designer v 32 <ul style="list-style-type: none"> • Single controller environment • Hardware device configuration exchange • Round trip/merge data exchange not supported, must bring changes into new .ACD file
②	User-initiated manual exchange (.RDF file)
③	Auto-generate new drawings (PLC/IO footprint and schematic)
④	Autodesk AutoCAD Electrical <ul style="list-style-type: none"> • Versions 2014 - 2018 <ul style="list-style-type: none"> • Rockwell Automation PLC and IO footprint symbol placement • PLC and IO schematic symbol placement • IO point name placement from Studio 5000 Architect only • Make IO point name edits, use tool to bring back into Studio 5000 Architect only
⑤	Auto-generate new data file with IO point name changes
⑥	User-initiated manual exchange (.RDF file)

Tip: Data exchange features differ between Studio 5000 Logix Designer and Studio 5000 Architect. Use the data exchange interface in Studio 5000 Architect to exchange I/O point tag/alias data and to conduct merge workflows into Studio 5000.

See also

[Import data to Autodesk AutoCAD Electrical](#) on [page 12](#)

[Export data to Studio 5000](#) on [page 14](#)

[Required data for successful data exchange](#) on [page 15](#)

Import data to Autodesk AutoCAD Electrical

Use the Studio 5000® Data Adapter Tool to perform Rockwell Automation® PLC and IO hardware configuration data exchange between Studio 5000 Logix Designer® or Studio 5000 Architect® and Autodesk® AutoCAD® Electrical with a manually exported .rdf file.

Web Ontology Language (OWL) uses an .rdf file to exchange data. Recommended for the most rich data exchange with all Rockwell Automation

specific features identified for data exchange. The RDF (Resource Description Framework) serves for data representation, OWL (Web Ontology Language) builds on RDF and defines the dictionary. Both are open standards for data exchange. They are used as a basis for a Rockwell Automation specific data format.

Prerequisites

- Open Autodesk AutoCAD Electrical and activate the project to import data into.
- Open a drawing from the active project where the PLC/IO footprint symbols will be placed.

To import data to Autodesk AutoCAD Electrical

1. Open the Studio 5000 Data Adapter Tool.
2. On the **Home** screen, select either **Studio 5000 Architect** or **Studio 5000 Logix Designer**.
3. On the **Home** screen, select **Import data to AutoCAD Electrical**. The **Import to AutoCAD Electrical** window opens.
4. In the **Select version** box, select the version of Autodesk AutoCAD Electrical.
5. In the **.rdf** file area, select **Browse**.
6. Select the appropriate directory and select **OK** to return to the **Import to AutoCAD Electrical** window. The selected directory path name is inserted into the **.rdf file** box.
7. Select **Import** to convert Studio 5000 data format to Autodesk AutoCAD Electrical data format.

Studio 5000 Data Adapter Tool accesses the open Autodesk AutoCAD Electrical drawing to place footprint symbols, then creates additional drawings with the associated PLC schematic symbols.

Tip: Open the Studio 5000 Data Adapter Tool log file to check for issues encountered during the import process.

Important: The Studio 5000 Data Adapter Tool does not merge changes into an existing Autodesk AutoCAD Electrical drawing set.

See also

[Export data to Studio 5000](#) on [page 14](#)

Export data to Studio 5000

Use the Studio 5000 Data Adapter Tool to export data to Studio 5000 Logix Designer or Studio 5000 Architect from Autodesk AutoCAD Electrical.

Important: For Autodesk AutoCAD Electrical data to be exported to Studio 5000, the Studio 5000 Data Adapter Tool must first be used to generate the Autodesk AutoCAD Electrical drawing files.

Prerequisites

- Open Autodesk AutoCAD Electrical and activate the project to export data from.
- Open a drawing from the active project in Autodesk AutoCAD Electrical.

To export data to Studio 5000

1. Open the Studio 5000 Data Adapter Tool.
2. On the **Home** screen, select **Studio 5000 Architect** or **Studio 5000 Logix Designer**.
3. On the **Home** screen, select **Export data to Studio 5000**. The **Export to Studio 5000 .rdf file** window opens.
4. In the **Select version** box, select the version of Autodesk AutoCAD Electrical.
5. In the .rdf file area, select **Browse**.
6. Select the appropriate directory and select **OK** to return to the **Export to Studio 5000 .rdf file** window. The selected directory path name is inserted into the **Path for .rdf file** box.
7. Select **Next**.

8. In the **Select footprint drawing files to be exported** section, select the drawing files containing footprint symbol data to export back into Studio 5000.
9. Select **Export** to convert Autodesk AutoCAD Electrical data format to Studio 5000 data format.

- Tips:**
- Open the Studio 5000 Data Adapter Tool log file to check for issues encountered during the export process.
 - Verify that the attribute settings in the Autodesk AutoCAD Electrical project meet the requirements prior to importing.

See also

[Data exchange workflow](#) on [page 11](#)

[Import data to Autodesk AutoCAD Electrical](#) on [page 12](#)

[Required data for successful data exchange](#) on [page 15](#)

Autodesk AutoCAD Electrical symbol attributes for data exchange

The Studio 5000 Data Adapter Tool requires symbol attributes for successful exchange of PLC/IO data to the Autodesk AutoCAD Electrical drawing environment. These symbol attributes are summarized in this section.

The PLC and footprint symbol attributes are grouped by common properties for each of the supported device types. Not all Rockwell Automation® devices or properties are supported for exchange. Refer to the online help files within Studio 5000 Logix Designer or Studio 5000 Architect to determine devices and properties supported for data exchange from each tool.

- PLC I/O schematic
- Chassis/DIN data
- I/O module placement/relational data
- Stratix™ Ethernet switch port data
- Kinetix® Drive footprints
- PowerFlex® Drive footprints

Important: Only the application specific data is editable for exchange back to Studio 5000. Issues with the data exchange may occur if the required data placed in the attributes by Studio 5000 Data Adapter Tool has been changed.

PowerFlex® and Kinetix® footprint data is exchanged for supported drive types. Content is generated in the footprint drawing only. The drive add-on modules, accessories and schematic symbols are not supported for exchange.

PLC I/O Schematic

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
CAT	Rockwell Automation Catalog number.	Matches Studio 5000 device catalog number to the appropriate PLC schematic.	Do not edit.
TAG	User-entered device name from the device profile in Studio 5000 Architect® or Studio 5000 Logix Designer®.	Inserts device name from Studio 5000 Architect or Studio 5000 Logix Designer. This attribute matches the P_TAG1 attribute in the associated footprint symbol to enable linking in Autodesk AutoCAD Electrical.	If the device is retagged in Autodesk AutoCAD Electrical, the updated P_TAG1 attribute value is written to the corresponding device name property when exchanging data back to Studio 5000 Architect. Value must conform to Studio 5000 syntax for device name or import back to Studio 5000 fails.
DESC	User-entered device description from device profile in Studio 5000.	Inserts device description from Studio 5000 Architect or Studio 5000 Logix Designer. This attribute matches the DESC3 attribute in the associated footprint symbol.	Edit both DESC and DESC3 to update the device description in Autodesk AutoCAD Electrical and exchange back to Studio 5000, so they match. The updated attribute value is written into the corresponding device description property when exchanged back to Studio 5000 Architect.
DESCAxx	User-entered IO point tag name (alias tag name) from Studio 5000 Architect.	Inserts IO point tag name (alias tag name) from Studio 5000 Architect.	Value can be changed in Autodesk AutoCAD Electrical for exchange back to Studio 5000 Architect. Must conform to Studio 5000 syntax for IO point tag/alias name.
DESCBxx	User-entered IO point tag description (alias tag description) from Studio 5000 Architect.	Inserts IO point tag description (alias tag description) from Studio 5000 Architect.	Value can be changed in Autodesk AutoCAD Electrical for exchange back to Studio 5000 Architect. Must conform to Studio 5000 syntax for IO point tag/alias description.
LOC	Location (slot number) of the I/O module/adaptor in the rack in Studio 5000 Architect or Studio 5000 Logix Designer.	Inserts slot number from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
LINE1	Studio 5000 Rack ID.	Insert Rack ID number.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
LINE2	Studio 5000 Slot ID.	Inserts Slot ID number.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.

Chassis/DIN footprints

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
CAT	Rockwell Automation Catalog number.	Matches Studio 5000 device catalog number to the appropriate footprint.	Do not edit.
P_TAG1 (for Chassis)	User-entered chassis device name from device profile in Studio 5000.	Inserts chassis device name from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
P_TAG1 (for DIN)	User-entered DIN device name from device profile in Studio 5000, with _Din appended.	Inserts DIN device name from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_NAME	Represents the Global unique identifier (GUID).	Inserts GUID.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
LOC (for DIN)	Location of the controller/adaptor on the DIN rack in Studio 5000. For example, used in CompactLogix™ and Compact I/O™ extended racks.	Inserts the slot number of the ControlLogix controller or adaptor.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_DIN_CHASSIS_COUNT (for DIN)	Total number of modules in the DIN rack. Used for CompactLogix and Compact I/O extended racks.	Inserts total number of modules in the DIN rack from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_RIGHT_RACK_SIZE (for DIN)	Number of slots available for the DIN rack. Used for CompactLogix and Compact I/O extended racks.	Inserts total number of available slots in the DIN rack from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
DESC1	Studio 5000 Rack ID.	Inserts Rack ID number.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
DESC2	Studio 5000 Slot ID.	Inserts Slot ID number.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
DESC3 (for DIN)	DIN description from device profile in Studio 5000.	Inserts DIN device description from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
DESC3 (for Chassis)	User-entered chassis description from the device profile in Studio 5000.	Inserts chassis device description from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.

Module footprints

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
CAT	Rockwell Automation Catalog number.	Matches Studio 5000 device catalog number to appropriate footprint.	Do not edit.
P_TAG1	User-entered device name from the device profile in Studio 5000.	Inserts device name from Studio 5000 Architect or Studio 5000 Logix Designer. This attribute matches the TAG attribute in the associated PLC I/O schematic symbol to enable linking in Autodesk AutoCAD Electrical.	If the device is retagged in Autodesk AutoCAD Electrical, the updated P_TAG1 attribute value is written to the corresponding device name property when exchanging data back to Studio 5000 Architect. Value must conform to Studio 5000 syntax for device name or import back to Studio 5000 fails.
RA_NAME	Represents the Global Unique Identifier (GUID) number.	Inserts GUID.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_IS_USED_BY_CATALOG	Controller that utilizes this device in Studio 5000 Architect or Studio 5000 Logix Designer.	Inserts catalog number of controller with primary ownership.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required. Data for primary owner is exchanged, but the multiple ownership configuration exchange back to Studio 5000 is not supported.
RA_IP_ADDRESS	User-entered IP Address from the device profile in Studio 5000 Architect or Studio 5000 Logix Designer.	Inserts device IP address from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
DESC1	Studio 5000 Rack ID.	Inserts Rack ID number.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
DESC2	Studio 5000 Slot ID.	Inserts Slot ID number.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
DESC3	User-entered device description from the device profile in Studio 5000.	Inserts device description from Studio 5000 Architect or Studio 5000 Logix Designer. This attribute matches the DESC attribute in the associated PLC I/O schematic symbol.	Edit both DESC and DESC3 to update the device description in Autodesk AutoCAD Electrical and exchange back to Studio 5000, so they match. The updated attribute value is written into the corresponding device description property when exchanged back to Studio 5000 Architect.

Stratix Switch footprints

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
CAT	Rockwell Automation Catalog number.	Matches Studio 5000 device catalog number to appropriate footprint.	Do not edit.
P_TAG1	User-entered device name from the device profile in Studio 5000.	Inserts device name from Studio 5000 Architect or Studio 5000 Logix Designer.	To bring updated device name from Autodesk AutoCAD Electrical back to Studio 5000 Architect or Studio 5000 Logix Designer, update this attribute with new device name. Name must conform to Studio 5000 syntax for device description or import back to Studio 5000 fails.
RA_NAME	Represents the Global Unique Identifier (GUID) number.	Inserts GUID.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_IS_USED_BY_CATALOG	Controller that uses this device in Studio 5000 Architect or Studio 5000 Logix Designer.	Inserts catalog number of controller with primary ownership.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required. Data for primary owner is exchanged, but the multiple ownership configuration exchange back to Studio 5000 is not supported.
RA_IP_ADDRESS	User-entered IP Address from the device profile in Studio 5000.	Inserts device IP address from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_NUMBER_OF_PORTS	Total number of ports for communication into the Ethernet switch.	Inserts number of ports from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
RA_IS_EXPANSION_OF	Identifies if switch footprint is an expansion module of the base switch. Used for switches with expansion only, including the Stratix 8000 family.	Inserts catalog number of the base switch from Studio 5000 Architect or Studio 5000 Logix Designer. For example, 1783-MS06T.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_POSITION_IN_EXPANSION_SET	Identifies what position the switch footprint takes as part of an assembled modular switch. The position number is stored.	Inserts position number of switch from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
DESC3	User-entered switch device description from the device profile in Studio 5000.	Inserts switch device description from Studio 5000 Architect or Studio 5000 Logix Designer.	To bring updated device description from Autodesk AutoCAD Electrical back to Studio 5000 Architect or Studio 5000 Logix Designer, update this attribute with new device description. Description must conform to Studio 5000 syntax for device description or import back to Studio 5000 fails.

Kinetix Drive footprints

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
CAT	Rockwell Automation Catalog number.	Matches Studio 5000 device catalog number to the appropriate footprint.	Do not edit.
P_TAG1	Device name from the device profile in Studio 5000.	Inserts device name from Studio 5000 Architect or Studio 5000 Logix Designer.	To bring updated device name from Autodesk AutoCAD Electrical back to Studio 5000 Architect or Studio 5000 Logix Designer, update this attribute with new device name. Name must conform to Studio 5000 syntax for device name or import back to Studio 5000 fails.
RA_NAME	Represents the Global Unique Identifier (GUID) number.	Inserts GUID.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_IS_USED_BY_CATALOG	Controller that uses this device in Studio 5000 Architect or Studio 5000 Logix Designer.	Inserts catalog number of controller with primary ownership.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required. Data for primary owner is exchanged, but the multiple ownership configuration exchange back to Studio 5000 is not supported.

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
RA_IP_ADDRESS	User-entered IP Address from device profile in Studio 5000.	Inserts device IP address from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
DESC3	User-entered device description from the device profile in Studio 5000.	Inserts device description from Studio 5000 Architect or Studio 5000 Logix Designer.	To bring updated device description from Autodesk AutoCAD Electrical back to Studio 5000 Architect or Studio 5000 Logix Designer, update this attribute with new device description. Description must conform to Studio 5000 syntax for device description or import back to Studio 5000 fails.

PowerFlex® Drive footprints

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
CAT	Rockwell Automation Catalog number.	Matches Studio 5000 device catalog number to available footprint.	Do not edit.
P_TAG1	User-entered device name from the device profile in Studio 5000.	Inserts device name from Studio 5000 Architect or Studio 5000 Logix Designer.	To bring updated device name from Autodesk AutoCAD Electrical back to Studio 5000 Architect or Studio 5000 Logix Designer, update this attribute with new device name. Name must conform to Studio 5000 syntax for device name or import back to Studio 5000 fails.
RA_NAME	Represents the Global Unique Identifier (GUID) number.	Inserts GUID.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.
RA_IS_USED_BY_CATALOG	Controller that uses this device in Studio 5000 Architect or Studio 5000 Logix Designer.	Inserts catalog number of controller with primary ownership.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required. Data for primary owner is exchanged, but the multiple ownership configuration exchange back to Studio 5000 is not supported.
RA_IP_ADDRESS	User-entered IP Address from the device profile in Studio 5000.	Inserts device IP address from Studio 5000 Architect or Studio 5000 Logix Designer.	Do not change this value in Autodesk AutoCAD Electrical if data exchange back to Studio 5000 is required.

Attribute	Description	Studio 5000 Data Adapter Tool Action	Workflow consideration
DESC3	User-entered device description from the device profile in Studio 5000.	Inserts device description from Studio 5000 Architect or Studio 5000 Logix Designer.	To bring updated device description from Autodesk AutoCAD Electrical back to Studio 5000 Architect or Studio 5000 Logix Designer, update this attribute with new device description. Description must conform to Studio 5000 syntax for device description or import back to Studio 5000 fails.

Tip: PowerFlex Drive footprint generation is limited in Studio 5000 Data Adapter Tool version 1.0. See *PowerFlex Drive footprint generation* for more information.

PowerFlex Drive footprint generation

Footprint drawing generation is limited in Studio 5000 Data Adapter Tool version 1.0.

- Kinetix® Drive and PowerFlex Drive
 - Drive peripherals are not supported or generated.
 - Drive schematics are not supported or generated.
- PowerFlex Drive
 - Data for drive frame size or enclosure type is not exchanged, therefore one generically represented drive footprint is generated.

This table displays the output generated by Studio 5000 Data Adapter Tool for each of the supported PowerFlex drive families.

Tip: If the representative frame sizes generated by the tool do not meet your needs, manual intervention is required. PowerFlex drive .dxf drawings for use in Autodesk AutoCAD Electrical are found at [Rockwell Automation Product Drawings](#).

Studio 5000 Logix Designer drive profile catalog string	Studio 5000 Architect drive profile catalog string	Frame size footprint drawing generated with Studio 5000 Data Adapter Tool	Enclosure type footprint drawing generated with Studio 5000 Data Adapter Tool
POWERFLEX-755-EENET	20G	2	NEMA/UL type open
POWERFLEX-755-ENETR	20G	2	NEMA/UL type open
POWERFLEX-755-NET-E	20G	2	NEMA/UL type open

Studio 5000 Logix Designer drive profile catalog string	Studio 5000 Architect drive profile catalog string	Frame size footprint drawing generated with Studio 5000 Data Adapter Tool	Enclosure type footprint drawing generated with Studio 5000 Data Adapter Tool
POWERFLEX-755-EENET-CM	20G	2	NEMA/UL type open
POWERFLEX-755-EENET-CM-S	20G	2	NEMA/UL type open
POWERFLEX-755-EENET-CM-S1	20G	2	NEMA/UL type open
POWERFLEX-755-HIPWR-EENET	Not Supported	Not Supported	Not Supported
POWERFLEX-755-HIPWR-EENET-CM	Not Supported	Not Supported	Not Supported
POWERFLEX-755-HIPWR-EENET-CM-S	Not Supported	Not Supported	Not Supported
POWERFLEX-755-HIPWR-EENET-CM-S1	Not Supported	Not Supported	Not Supported
POWERFLEX-755-HIPWR-ENETR	Not Supported	Not Supported	Not Supported
POWERFLEX-755-HIPWR-NET-E	Not Supported	Not Supported	Not Supported
POWERFLEX-753-ENETR	20F	2	NEMA/UL type open
POWERFLEX-753-NET-E	20F	2	NEMA/UL type open
POWERFLEX-527-STO-CIP-SAFETY	25C	A	NEMA/UL type open
POWERFLEX-525-E	25B	B	NEMA/UL type open
POWERFLEX-525-E2P	25B	B	NEMA/UL type open
POWERFLEX-525-EENET	25B	B	NEMA/UL type open
POWERFLEX-525-EENET-MULTI	25B	B	NEMA/UL type open
POWERFLEX-523-E	25A	A	NEMA/UL type open
POWERFLEX-523-E2P	25A	A	NEMA/UL type open

See also

[Export data to Studio 5000 on page 14](#)

Log files in the Studio 5000 Data Adapter Tool

To capture daily activity or errors in the Studio 5000 Data Adapter Tool, logging must be enabled. The Studio 5000 Data Adapter Tool log file is generated once per day, and each use of the tool appends information to the daily log.

The location of the log file is displayed in the **Log File** area in the **Logging** window and is not editable. By default, this location is the Data Adapter Temp folder. The log filename is created based on the date: `DAT_Log_10102018.txt`.

Tip: When logging is **Disabled**, no log files are generated.

See also

[Enable or disable logging in the Studio 5000 Data Adapter Tool](#) on [page 25](#)

Enable or disable logging in the Studio 5000 Data Adapter Tool

To capture daily activity or view errors in the Studio 5000 Data Adapter Tool, enable logging.

To enable or disable logging in the Studio 5000 Data Adapter Tool

1. Open the Studio 5000 Data Adapter Tool.
2. In the **Home** screen, select **Logging**.
3. Select **Enabled** or **Disabled**.
4. Select **Submit**.
5. Select **OK**.

See also

[Log files in the Data Adapter Tool](#) on [page 25](#)

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Customer Support Telephone — 1.440.646.3434

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Rockwell Automation Publication Studio 5000 Data Adapter Tool User Manual DATAAT-UM001A-EN-D - March 2019