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Application of SmartWire-DT®

How to use the Tag Export Feature in SWD-Assist® and Import the Tags into RSLogix 5000® for EtherNet/IP® Applications

Application

This application note will describe how to export tags from a SWD-Assist project, version 1.41 or later and import them into RSLogix 5000.

The SWD-Assist configuration software for SmartWire-DT applications includes a feature allowing tags generated for a particular SWD project to be exported into a CSV (Comma Separated Values) file, which can then be imported into RSLogix 5000 and applied as aliases to the existing I/O tags for the SmartWire-DT Ethernet gateway.

The SmartWire-DT Ethernet gateway must be added to RSLogix 5000 as a Generic Ethernet Module. This allows the Rockwell® PLC with EtherNet/IP scanner to poll the SmartWire-DT gateway to monitor and control the SmartWire-DT devices connected to the gateway. The tags may then be exported from the SWD-Assist software and imported into RSLogix 5000. This provides a Name and Description for each tag associated with the SWD project.

This feature saves the time otherwise needed to document all the tags manually in RSLogix 5000 and provides a method to change the SWD layout without impacting logic previously developed in the RSLogix 5000 program.

Implementation - General

The implementation of this tag export/import feature is very straight-forward. First, the SmartWire-DT project must be configured using SWD-Assist. See the

application note on “How to use SmartWire-DT on EtherNet/IP and Modbus TCP” (publication number AD05006002E).

Then the tags for the SWD project can be exported using SWD-Assist into a CSV file. This CSV file is then imported into RSLogix 5000 where they are automatically applied to the tags previously created for the SWD system.

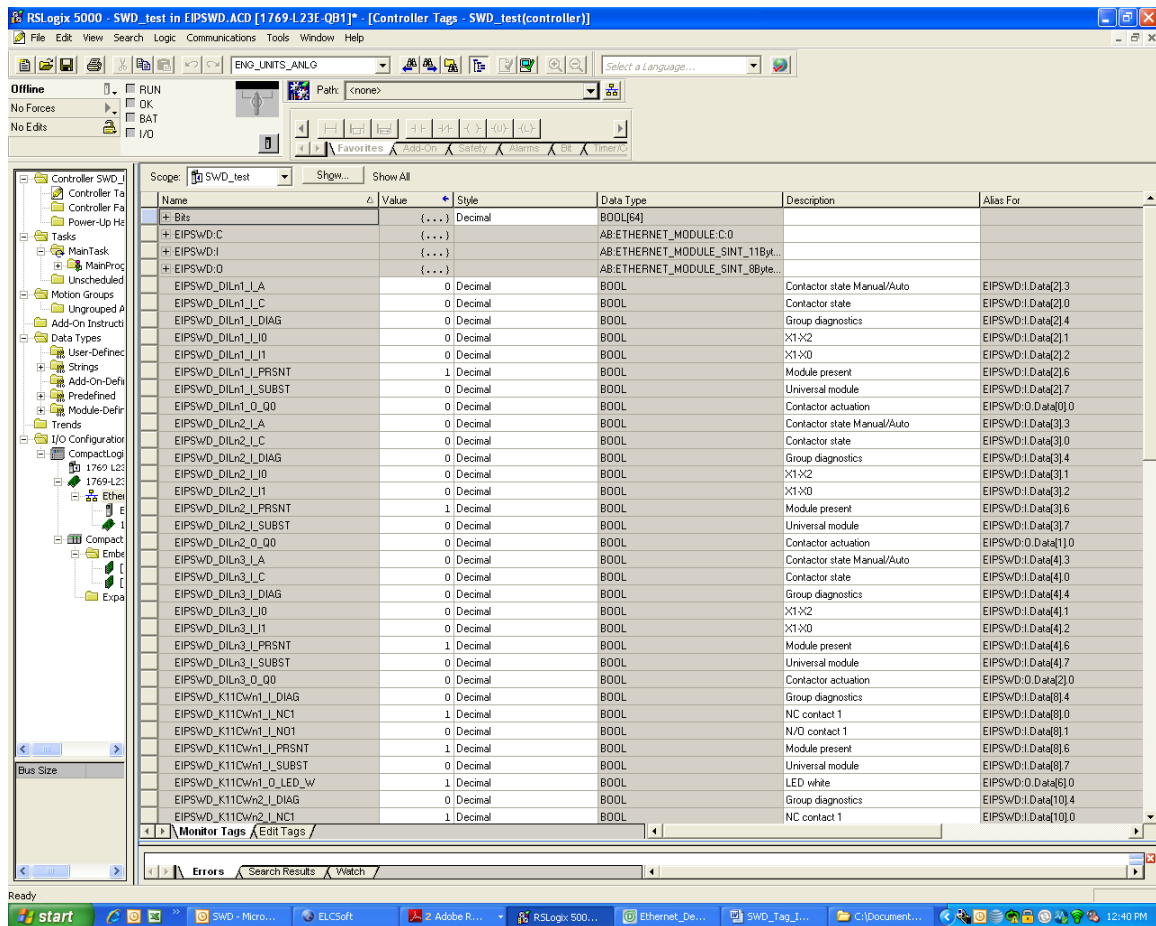
The generic I/O tags created by RSLogix 5000 for the Generic Ethernet Module (SWD EtherNet/IP gateway) are used as alias addresses and a new Name field and Description are applied to these generic I/O tag addresses completing the documentation for the SWD system in RSLogix 5000. The tag names, descriptions and I/O addresses are now the same in RSLogix 5000 as they are in SWD-Assist.

This saves time and eliminates the potential for errors when entering this tag data manually.

Implementation Procedure

The procedure for exporting tags from SWD-Assist is as follows:

1. Create a SWD project per the “How to use SmartWire-DT on EtherNet/IP and Modbus TCP” application note. Be sure to give the EtherNet/IP gateway a name in SWD-Assist like EIPSWD because this name will be used for all tags.
2. When the project is complete in SWD-Assist, select the Project drop down menu and select Export Configuration. Provide a file name and choose where you want the file stored. A CSV file is then created.
3. Once a project is created in RSLogix 5000 and the SWD gateway has been added as a Generic Ethernet Module to be polled by the EtherNet/IP scanner and the amount of I/O data for the SWD gateway in RSLogix 5000 matches the amount of I/O data in the SWD-Assist project, import the tag CSV file into RSLogix 5000. The tags will be accepted and applied to the Name and Description fields for each tag. To import the tag file into RSLogix 5000, select the Tools drop down menu and select Import, then Tags and Logic Comments. Browse for the CSV file previously exported using SWD-Assist and import it into RSLogix 5000.
4. An example of the Controller Tags field in RSLogix 5000 after the tag import for a SWD project follows:



Note that all the tag names, descriptions and I/O addresses under the Name, Description and Alias columns exactly match the tag names, descriptions and I/O addresses in the SWD-Assist project.

If a change is made to your SWD set-up (device added, deleted or moved) just regenerate the CSV file retaining the alias names for the devices that were previously used in your logic program. In RSLogix 5000 change the I/O sizes for the generic module if needed, and import the new CSV file.

Supporting Documentation

Manuals & Files	Reference Number/Name
SmartWire-DT Gateway Manual	MN05013002Z
"How to use SmartWire-DT on EtherNet/IP and Modbus TCP"	AD05006002E
Program Files	EIPSWD.ACD
	Ethernet_Demo_Setup.swd
Software	SWD-Assist, version 1.41 or later
	RSLogix 5000, version 17 or later

Additional Help

In the event additional help is needed, please contact the Technical Resource Center at 1-877-ETN-CARE or 1-877-326-2273.

All other supporting documentation is located on the Eaton web site at www.eaton.com/smawiredt

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