Release Notes

FLEX I/O ControlNet Adapter

Catalog Numbers 1794-ACN15, 1794-ACNR15, 1797-ACNR15
Series C, Firmware Version 5.1

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About This Publication

These release notes supplement the existing documentation supplied with your product.

Before You Begin

ATTENTION



Using any of the Firmware version 5.1 Product Enhancements listed below will impact your ControlNet network. These Enhancements require a new EDS file for RSNetWorx.

Enhancements

Enhancements with Firmware Version 5.1

Enhancement	Description
Updated EDS File	The product's EDS File has been updated and is embedded in the product's firmware. Update the EDS File by using RSNetWorx. Go online and select the version 5.1 adapter (shown as a question mark), then right-click the adapter and select Re-Register Device. The EDS Wizard will start up. Select and use the Upload EDS file(s) from the device option.
Scheduled Connection to HART Command 3 data	With the release of the 1794-ACN(R)15 version 5.1 firmware and the following HART FLEX I/O modules, • 1794-IE8H/B • 1794-OE8H/B • 1794-IF8IH/A • 1794-OF8IH/A • 1797-IE8H/B • 1797-OE8H/B and RSLogix 5000 version 17, there is an option to create a secondary scheduled I/O connection to the HART module's Command 3 HART data. In RSLogix 5000 version 17, select the HART module's properties. In the Comm Format pull down menu, select the "and HART PV" option to create a scheduled connection to the HART module's Command 3 HART data. The PLC-5 controller products will also have the ability to create scheduled connections to the HART Command 3 data with RSNetWorx and the adapter's new EDS file.
32-bit Rack Connections	With the release of the 1794-ACN(R)15 version 5.1 firmware and its new EDS file, the PLC-5 controller products will have the option of creating a 32-bit rack connection. If there are 32-bit discrete I/O modules attached to the adapter, a single optimized 32-bit rack connection could be created and used instead of the individual module connections used in the past.

Corrected Anomalies

Corrected Anomalies for Firmware Revision 5.1

Anomaly	Description
Redundant module connections	Redundant module connections can now be made to the 1794-VHSC module.

Additional Information

Connected Messaging Limits

Network Update Time (NUT)	Supported Connections	Number of HART modules
2.0…2.99 ms	3	1
3.0…3.99 ms	12	4
4.0…7.99 ms	20	6
8.0…750.0 ms	32	8

Considerations for Connection Limits

- At the lower NUT rates (10 ms or less), it is recommended that all the Module Connections have their RPI (Requested Packet Interval) times set at or above their default RPI rate as specified by the software when creating the connection.
- The Rack Connection RPI may be set as low as the NUT.
- HART I/O Modules support a dual connection to both the Real Time I/O Data (RPI user adjustable) and the HART Command 3 Data (RPI fixed at 750 ms). When the dual connection is used, the Adapter counts this as 3 Connection Resources.

IMPORTANT

HART Pass Through Message

When sending HART Command data to a HART device with a Pass Through Message, ensure that the Message Source Length is set to the size of the selected HART request/response buffer (attribute/assembly index) in the module.

Additional Resources

You can view or download publications at http://literature.rockwellautomation.com. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.

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Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At http://support.rockwellautomation.com, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit http://support.rockwellautomation.com.

Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States	1.440.646.3434 Monday – Friday, 8 a.m. – 5 p.m. EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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Publication 1794-RN071A-EN-P - November 2008 PN-34476

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