Technical Document

Getting Started with Niagara

October 1, 2019

niagara

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Converting NDIO modules to NRIO

Use the NDIO to NRIO Conversion Tool to easily convert NDIO proxy extensions to NRIO proxy extensions. This is necessary when replacing a legacy JACE with a JACE-8000 which does not support NDIO.

Prerequisites:

- The nrioConversion-wb module is installed on machine running Workbench.
- Updated version of nrio-rt module installed on remote platform
- Existing station is running on Niagara 4 (regardless of whether or not the host supports NDIO). The station has an NDIO network with points.
- Credentials for a Super User on the target station.

CAUTION: This process is not reversible, therefore you should not attempt it without first making a backup of the station and familiarizing yourself with the full details of the conversion process.

Perform the following steps:

- 1. Backup the JACE station that contains the NDIO module(s) to be converted.
- 2. Confirm that both the NRIO and NDIO modules are installed on the JACE
- Click Tools > NDIO to NRIO Conversion Tool. The NDIO to NRIO Conversion Tool window displays, as shown here.

NDIO to NRIO Conversion Tool
Open Station with TLS Connect to station using fox over TLS.
Session
Type 🌌 Station TLS Connection 🧹
Host IP • > > • • • • • • • • • • • • • • • •
This tool is used to assist with the process of replacing NDIO modules with NRIO modules. Upon connecting to the station, All NDIO type objects will be removed and replaced with their respective NRIO type objects and the configuration properties that are relevant to the each new object will be copied over. This process is not reversible, and therefore you should not attempt it without first, making a backup of the station, and second, familiarizing yourself with the full details of the conversion process. In addition to using this tool, there are a number of manual steps that must be performed correctly.
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Replace Nulo with Nkio in display names of networks and devices.
Run Close

- 4. Enter the following connection values:
 - Host: <IP address>
 - Change the connection type to TLS, if applicable.
 - If desired, click the checkbox labeled: Replace 'NDIO' with 'NRIO' in display names of Ndio networks and devices. This affects only display names, not slot names.

- 5. Click Run.
 - If already connected to the station you are not prompted for credentials.
 - If not connected, an Authentication window displays. Enter your credentials and click **OK**to continue.

NOTE: The conversion requires you to provide Super User credentials for the remote station. If you login as a non-Super User, you will receive an error message. In this case, you must logout and log back in as a Super User.

On completion, the window displays notification that the conversion was successful, as shown here.

NDIO to NRIO Conversion Tool	23	
Open Station with TLS Connect to station using fox over TLS.		
Session		
Type 🎽 Station TLS Connection 🧹		
Host IP - localhost 📎 🕚 -		
Port 4911		
The conversion process has successfully removed all ND type objects and replaced each with an NRIO type object transferred all of the configuration property values t are relevant. Note that there are additional manual st required to complete the conversion process. Please co the documentation.	IO t and hat eps nsult	
Replace 'NDIO' with 'NRIO' in display names of networks and devices.		
Run Close		

- 6. Click Close.
- 7. Check the newly created NRIO Network(s) for proper conversion.

NOTE: If an NDIO device has more points than can be accommodated by an NRIO-16 module (UI>8, AO>4, DO>4), it will be migrated to an NRIO-34 module. Otherwise, it will be migrated to an NRIO-16 module.

8. Open the NRIO Device Manager for one of the new NRIO Networks. Use the **Discover** and **Match** functions to match the converted NRIO devices to the connected ones. Repeat this step for each network.

The conversion process is now complete.

Related Links

• NDIO to NRIO Conversion Tool (Parent Topic)