

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:

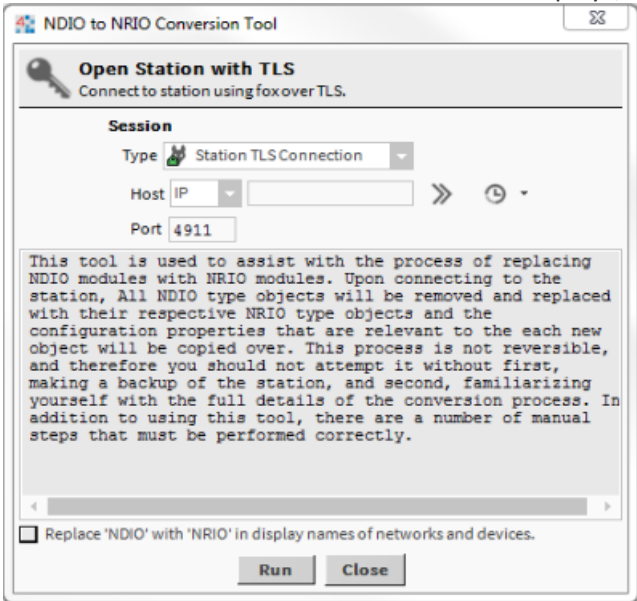
- The nrioConversion-wb module is installed on machine running Workbench.
- Updated version of nrio-rt module installed on remote platform
- Existing station is running on Niagara 4 (regardless of whether or not the host supports NDIO). The station has an NDIO network with points.
- Credentials for a 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
3. Click **Tools > NDIO to NRIO Conversion Tool**.

The NDIO to NRIO Conversion Tool window displays, as shown here.

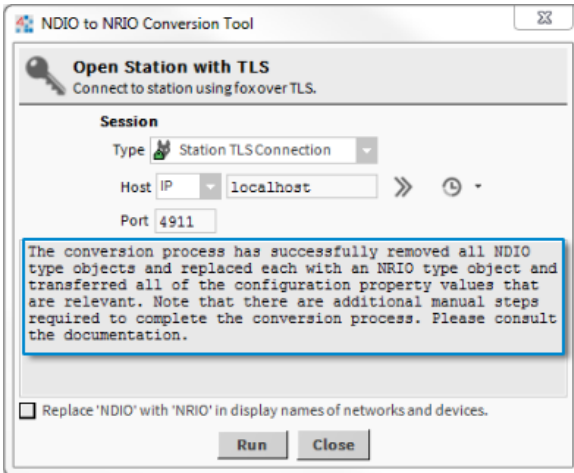


4. Enter the following connection values:
 - Host: <IP address>
 - Change the connection type to TLS, if applicable.
 - If desired, click the checkbox labeled: **Replace 'NDIO' with 'NRIO' in display names of Ndio networks and devices.** This affects only display names, not slot names.

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.



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 \(Parent Topic\)](#)