Niagara 4.7

Features Overview

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Release Summary

Niagara 4.7 brings support for our newest platform, the Niagara Edge 10 controller! By leveraging the Niagara Framework®, Edge 10 offers 20,000+ Niagara certified professionals a single open programming tool infrastructure and the ability to create smarter more efficient systems with world-class cyber security.

The benefits of Niagara 4.7 are not just limited to the Edge 10. Niagara 4.7 benefits all Niagara devices from the JACE® to portability partner offerings by expanding on 4.6 functionality adding even more tools to streamline installation, configuration, and maintenance tasks including:

- New provisioning steps for common processes such as updating Niagara distributions, updating security settings including certificates, and configuring out of the box Niagara devices.
- A new template type called ‘Application Templates’ that allow for creating templates of entire applications and deploying them to running stations.
- The ability to set the secondary port of the JACE® as a DHCP server.

Support for Edge 10 Platform

IP-based IO controller
Powered by Niagara Framework
5 UI • 3 DO • 2 AO
1 485 Serial Port
Expansion via single IO-R 34
2 Ethernet Ports capable of daisy chaining

Fan Coil Unit • Single Stage AHU
Water Source HP • Pressure Dep Zone Control
Boiler Hot Water Reset, etc....

Single Tool	Cybersecurity	Time & labor savings
Familiar Niagara Environment	Built-in Niagara security	Enhanced Niagara workflows

Niagara Edge 10 is 10-point IP-based field equipment controller that runs the Niagara Framework® at the edge. By leveraging the Niagara Framework, Niagara Edge 10 offers a single-tool infrastructure, the ability to create smarter, more efficient systems, and world-class cybersecurity.

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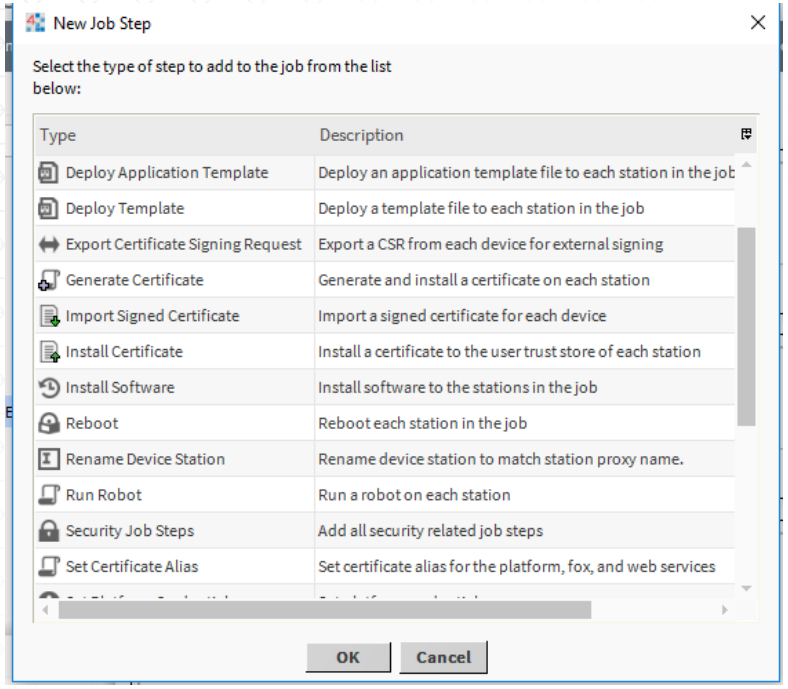
Enhanced Provisioning Tools



New Niagara provisioning steps have been developed to allow systems integrators to operate on multiple Niagara devices simultaneously. Developed to be a superset of the commissioning process steps, systems integrators can use the new provisioning steps to for common processes such as updating Niagara distributions, updating security settings including certificates, and configuring out of the box Edge devices.

Provisioning Steps Documentation

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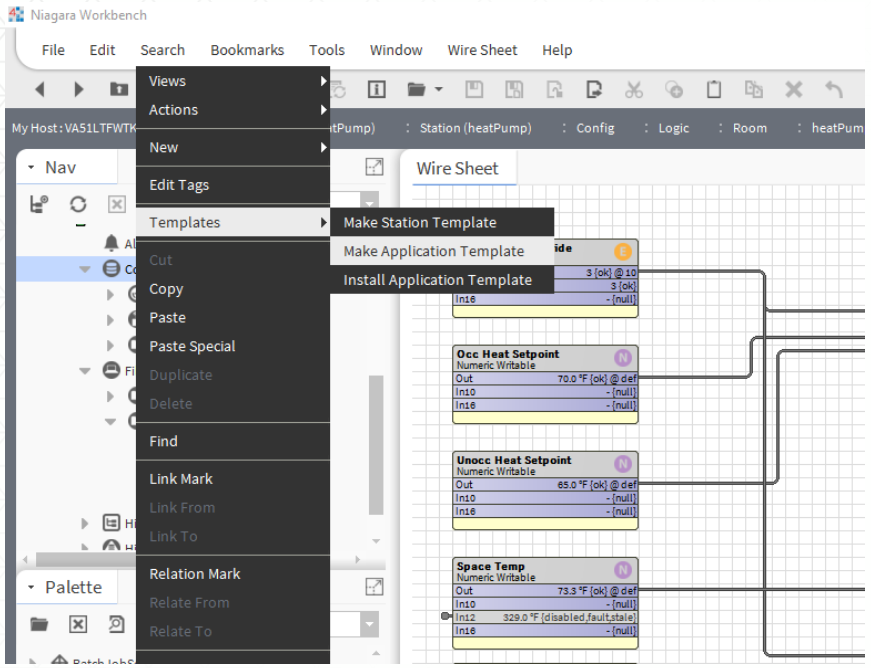
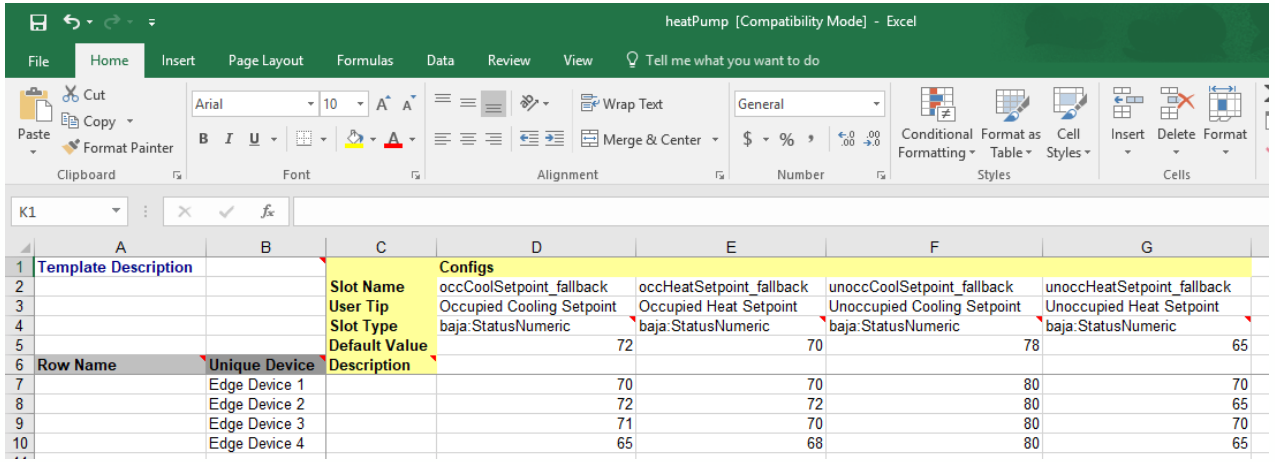
Application Templates





	A	B	C	D	E	F	G
1	Template Description			Configs			
2			Slot Name	occCoolSetpoint_fallback	occHeatSetpoint_fallback	unoccCoolSetpoint_fallback	unoccHeatSetpoint_fallback
3			User Tip	Occupied Cooling Setpoint	Occupied Heat Setpoint	Unoccupied Cooling Setpoint	Unoccupied Heat Setpoint
4			Slot Type	baja:StatusNumeric	baja:StatusNumeric	baja:StatusNumeric	baja:StatusNumeric
5			Default Value	72	70	78	65
6	Row Name	Unique Device	Description				
7		Edge Device 1		70	70	80	70
8		Edge Device 2		72	72	80	65
9		Edge Device 3		71	70	80	70
10		Edge Device 4		65	68	80	65

Application Templates allow systems integrators to quickly create and deploy complete applications to running stations. Unlike component templates, application templates allow you to capture multiple root components in a station giving you a single template to manage. Pair application templates with provisioning to create your application once and deploy to multiple running devices with different settings per device using an excel based configuration file.

Application Template Documentation

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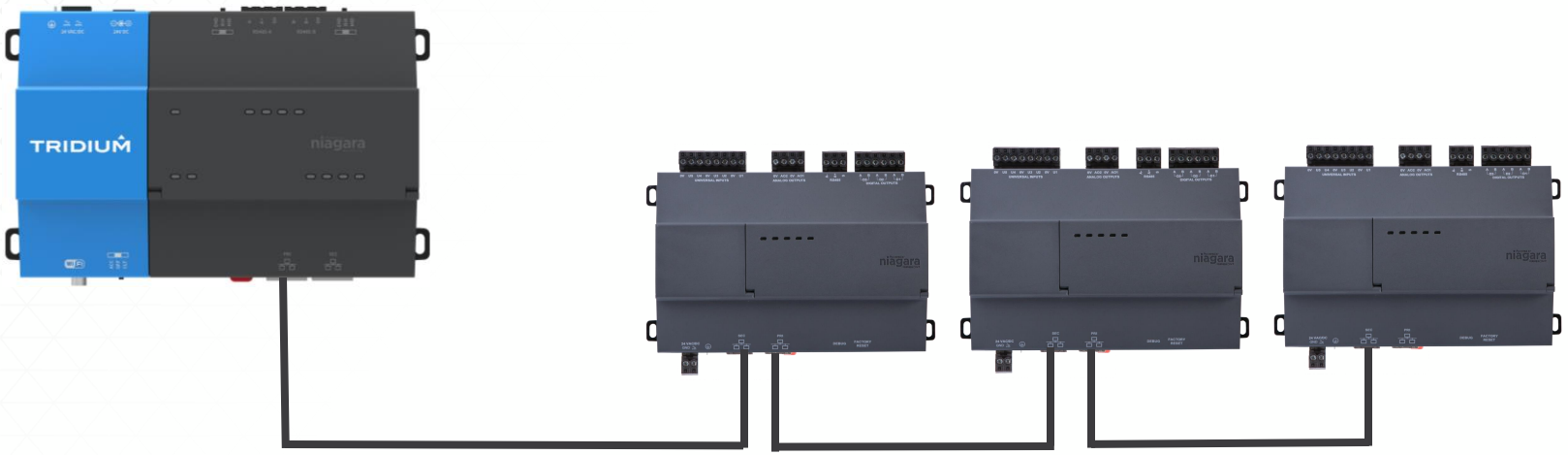
JACE as a DHCP Server



To facilitate the use of Edge Devices on an IP network, the secondary Ethernet port on the JACE can be configured to be a DHCP server. This functionality will allow for a private network of devices to be run from the secondary port of the JACE. In this scenario, the devices will be isolated from the main JACE network and all management will be done from the JACE. This feature allows you to secure devices behind an isolated Ethernet port as well as simplify the discovery of Niagara devices which eases setup and configuration.

Enabling DHCP on JACE secondary port documentation

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