

TRIDIUM

open 4

the internet of things

The reach of Tridium's Niagara Framework® is global—and growing daily. Our pioneering innovations have created a large and active community of innovative developers, integrators, consultants, manufacturers, resellers and end users who understand that Niagara is an essential part of the Internet of Things.

That's the power of open, and the future of innovation.

Niagara 4 and the JACE® 8000 controller are available through a wide variety of original equipment manufacturers. Our open distribution business model and open protocol support allow a vendor-neutral application compatible with devices and systems throughout the world.

To learn more about how to purchase, install and start using Niagara 4 and the JACE 8000 controller, or if you are an original equipment manufacturer and would like to add them to your suite of offerings, please contact us.



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NIAGARA 4 open 4 performance

Niagara 4 builds on the legacy of the Niagara Framework® in new and exciting ways. It's less reliant on browser plug-ins, faster and easier to use. Now end users can directly access, analyze and act on a wide range of operational data. A truly open framework, Niagara 4 delivers a variety of notable improvements to help businesses take full advantage of the Internet of Things, including advanced visualization and new search, security and navigation tools.

MORE DATA AT YOUR FINGERTIPS

Integrators can provide an interface that empowers users to do more on their own. Because devices, systems and data points can be tagged in Niagara 4, users can easily conduct a station-wide search of the most important elements in their operation.

This one-tool solution utilizes tag hierarchies to automatically integrate all data in a navigation tree. Using a standardized dictionary of tagged elements, users choose which points to monitor directly. Users can utilize the standardized dictionary to drive consistency in their building automation systems.

With a simple point-and-click or drag-and-drop, users can create customized charts, allowing them to instantly find and display critical information from their desktop, tablet or mobile device. Systems integrators no longer necessarily need to re-engineer new dashboards each time a customer requirement changes. Building real-time dashboards is straightforward, allows for immediate troubleshooting and quickly displays data with attractive visualizations.

FASTER, MORE POWERFUL DEVELOPMENT

Developers will find improved documentation, a rich open API library, BajaScript 2.0, semantic data modeling via tags and other ready-made tools to greatly speed and support development. In addition, the need for specialized training in the Niagara user interface is reduced—anyone familiar with open Web development can now create a custom UI in Niagara. Niagara 4's new features and public APIs make it easier to extend, develop and build upon the framework.

EASIER INTEGRATION

Niagara 4's new templating feature enables tags to be applied to devices quickly, and allows applications to be prebuilt against a set of standardized templates which then can be quickly created and reused. In other words, once a template is made, it can be redeployed as often as needed in other instances. The result is not only a more functional design for users but also reduced integration time across the board.

POWERFUL SECURITY

Niagara 4 takes a “defense-in-depth” approach to Internet of Things security. Building on the security of previous Niagara versions, Niagara 4 is secure by default. Authentication requires users to choose strong credentials, and both data in motion and sensitive data at rest are encrypted. Niagara 4 also uses Role-Based Access Control (RBAC), making user permissions easy to configure and less error-prone. Niagara 4 also can be integrated with existing enterprise identity and access management systems, such as LDAP and Kerberos. All user actions and security-related events are recorded in Niagara's audit log for traceability.



Niagara 4 key features

- Modern UX framework and design language (HTML5)
- End users are able to easily customize dashboards
- Advanced charting and visualization
- Data tagging
- Tag-based navigation
- Device templating
- Data cleansing capabilities
- Niagara station search
- Workbench workflow improvements
- Role-Based Access Control (RBAC)
- Pluggable authentication schemes
- Improved UI developer experience (BajaScript 2.0)
- Station templating
- Niagara AX to Niagara 4 station migration tool