niagara⁴

open 4 innovation

Niagara 4 continues the legacy of the Niagara Framework® in new and exciting ways. It's less reliant on browser plug-ins, faster and easier to use. End users can now directly access, analyze and act on a wide range of operational data as a result of several innovative changes.

MODERN USER INTERFACE
Niagara 4 features a bold and intuitive interface. Modern and easy to use, the platform utilizes HTML5 to provide an array of rich features.

MOVING NIAGARA TO THE EDGE
Niagara 4 is available on the Niagara Edge 10 controller and has been ported to a variety of partner-branded IP-based controllers. As a result, users have choice and great advantages in a single-tool infrastructure from edge to cloud, saving training costs and speeding learning curves.

EASIER INTEGRATION
Niagara 4's 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.

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 security log for traceability. A built-in Security Dashboard provides a comprehensive and actionable view of the security posture of your Niagara environment.

### 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. Anyone familiar with open Web development can now create a custom UI in Niagara.

MORE DATA AT YOUR FINGERTIPS
With a simple point-and-click or drag-and-drop, users can instantly find and display critical information from their desktop, tablet or mobile device.

CLEAR TRANSITION FROM NIAGARA AX TO NIAGARA 4
Tridium has engineered Niagara 4 and the JACE® controllers to be easy to add to, or upgrade from, your current Niagara-based systems.
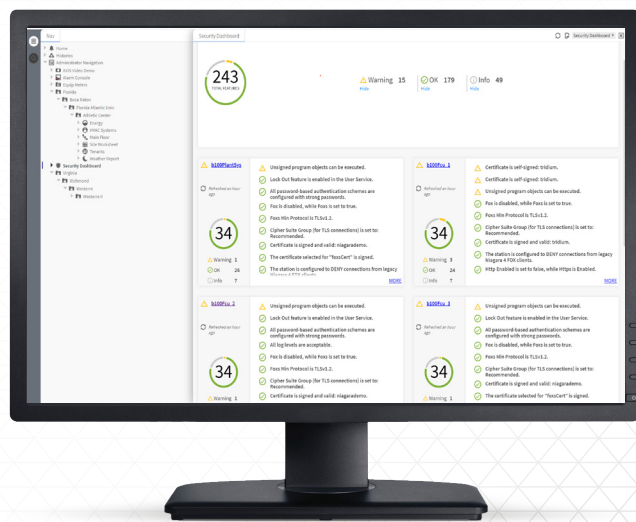
Niagara 4
features and advantages

AN ADVANCED, MODERN USER INTERFACE—INTUITIVE AND CUSTOMIZABLE

- New UX framework with HTML5 provides rich UI features

- Common design language for a unified experience between desktop, tablet and mobile

- Intuitive charting, alarm console, scheduler, navigation tree and property sheets

- BajaScript 2.0 makes it easier to develop custom UI

- Optimized workflows for common tasks— fewer clicks, more intuitive interaction

- No need to update a navigation file every time a new device is added to system

MORE DATA AT YOUR FINGERTIPS TO FIND, VISUALIZE AND TAKE CONTROL OF YOUR OPERATIONS

- Access data quickly with Niagara Search using tags

- Drag-and-drop customizable charting for fast information visualization

- Feature-rich charts make comparing data easier

- Customizable dashboards and data cleansing for accuracy and precision

POWERFUL SECURITY

- "Defense-in-depth" approach

- Secure by default

- At-a-glance view into cyber defenses across a network of Niagara stations through a convenient Security Dashboard

- Encryption of data in motion and sensitive data at rest

- Role-Based Access Control (RBAC) for less error-prone and easy-to-configure user permissions

- Single-sign-on capability with or without existing systems such as LDAP and Kerberos

- Security log of all user actions and security-related events for traceability

FASTER, MORE POWERFUL DEVELOPMENT AND SUPPORT

- Rich set of public APIs

- Improved documentation with code examples

- Semantic data modeling—developers can build applications directly compatible with Niagara

- New UX framework is easy for Web developers to extend

EASIER INTEGRATION AND DEVICE MANAGEMENT

- Applications and devices can be pre-built using templates and also include tags

- Provisioning functionality to manage multiple Niagara stations simultaneously

Niagara 4 is 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, or if you are an original equipment manufacturer and would like to add Niagara 4 to your suite of offerings, please contact your VYKON partner.

VYKON by TRIDIUM