

# OUR NEWEST PRODUCTS ARE OPEN 4 INNOVATION.

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WEB-8000 Series  
and WEBs-N4

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**Honeywell**

# NIAGARA'S TRULY OPEN ENVIRONMENT HARNESSES THE POWER OF THE CONNECTED BUILDING IN WAYS NEVER BEFORE IMAGINED OR POSSIBLE.

For more than 15 years, the Niagara Framework® has fundamentally changed the way devices and systems connect to people—and the ways people can control and optimize those machines.

With nearly half a million instances worldwide, Niagara is quickly becoming the operating system of the connected building. Its open API, open distribution business model connection to cloud services and open protocol support give you the freedom to choose your how you work, what you build and with whom you partner. Niagara enables you to connect

and control devices, while normalizing, visualizing and analyzing data from nearly anywhere or anything.

From buildings and data centers to manufacturing systems and smart cities, the Niagara Framework improves strategic decision-making, allowing for optimized performance and cost

reductions that can help businesses be more competitive and more profitable. And with the release of WEBS-N4 software and the WEB-8000 series of controllers, the opportunity to achieve operational excellence is even greater than before.



# OPEN 4 PERFORMANCE

The WEBS-N4 software platform 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, WEBS-N4 software 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.

## 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. WEBS-N4's new features and public APIs make it easier to extend, develop and build upon the framework.

## POWERFUL SECURITY

WEBS-N4 takes a “defense-in-depth” approach to Internet of Things security. Building on the security of previous Niagara versions, WEBS-N4 is secure by default. Authentication requires users to choose strong credentials, and both data in motion and sensitive data at rest are encrypted. WEBS-N4 also uses Role-Based Access Control (RBAC), making user permissions easy to configure and less error-prone. WEBS-N4 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.

## KEY FEATURES WEBS-N4

- 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
- WEBS-AX to WEBS-N4 station migration tool
- Cloud backup/restore of stations



## **AN ALL-NEW USER INTERFACE**

WEBS-N4 features a bold and intuitive new interface. Modern and easy to use, the platform utilizes HTML5 to provide an array of rich features. Our powerful new UI framework makes the user experience simpler and more robust, giving users maximum control of their data and decisions.

The optimized workflow allows users to find and visualize data points quickly based on a powerful tagging system. New features include a built-in search function, customizable charting and visualization, role-based security, real-time troubleshooting and rapid navigation.

WEBS-N4's use of HTML5 provides a user interface that makes it easier for systems integrators to create and maintain customized views for end users.



## **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 WEBS-N4, 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.



## **EASIER INTEGRATION**

WEBS-N4'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.

# A MODULAR APPROACH 4 GLOBAL DESIGN

Introducing an all-new hardware platform optimized for WEBs-N4: the WEB-8000 series of controllers. This “next-generation” controller features a new global design that functions with legacy systems and has the ability to scale for future needs.

## EFFICIENT GLOBAL DESIGN

The new, modular design of the WEB-8000 controllers makes them easy to install, integrate and deploy. Tool-less installation with expansion capability reduces installation complexity and improves flexibility. Systems integrators can focus on engineering solutions, not assembling components. And their lives will be simplified with a global power supply and improved access to standard enclosures.

## WIRELESS CAPABILITY

Standard Wi-Fi offers enhanced wireless capability when interfacing with the next generation of wireless sensors and devices. WEB-8000 controllers also are configurable as an access point so that mobile phones and tablets can display information and advanced graphics. Expansion also is available when interfacing with other wireless fieldbuses seen in connected buildings.

## OPTIMIZED FOR NIAGARA 4

WEB-8000 controllers leverage the exciting new features of WEBs-N4. It adds to the enhanced user experience, maximizing WEBs-N4’s key advantages: pure Web interface based on HTML5 with HTML5 views, charting and data visualization, a common design language, better reporting, robust security and improved device management.



With simple configuration, tool-less installation, low-cost integration and high-powered performance, the WEB-8000 series controller is a dramatic evolution in connecting and controlling devices worldwide.

## KEY FEATURES WEB-8000 CONTROLLERS

- Powerful WEBs-N4 hardware platform with easy software upgrade capability
- Modular hardware design for fast and easy installation
- Tool-less installation
- Expandable with up to four option modules
- Native Wi-Fi capability
- 24VAC/DC—standard global power supply
- Standard open drivers included
- Easy to select the right capacity license
- Intuitive user interface

# SEAMLESS CONVERSION

**WEBS-AX:** WEBS-N4 and the new WEB-8000 series controllers have been engineered to be easy to add to, or upgrade from, your current WEBS-based systems.

## SYSTEM CAPABILITY

Our native Niagara Fox protocol will work between the WEBS-AX and WEBS-N4 software systems, and the WEBS-N4 software will work with any currently available WEBS hardware.

For those making the conversion to our most up-to-date products, a station conversion tool is available that will adapt WEBS-AX stations to WEBS-N4 stations.

Converted stations will require third-party vendors to provide updated modules for WEBS-N4 versions of their content. However, most modules will require only minor refactoring for developers to make the conversion. We are dedicated to making the conversion between systems as seamless as possible.



## COMPATIBILITY SUMMARY WEBS-AX

- Fox network compatibility between WEBS-AX and WEBS-N4
- Station conversion tool to convert WEBS-AX stations to WEBS-N4 stations (.bog files)
- Public APIs
- Niagara Driver Framework still supported
- WEBS-N4 will run on any controller with HotSpot VM (WEB-300E, WEB-600, WEB-600E and WEB-700)
- WEBS-N4 will run on any WEB-8000 series controller

# OPEN 4 THE CONNECTED BUILDING

The reach of the Niagara Framework® is global—and growing daily. It is supported by 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 connected building.

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

#### **For More Information**

For more information on WEB-800 series controllers, call 1-800-466-3993 or visit [buildingcontrols.honeywell.com](http://buildingcontrols.honeywell.com).

#### **Home and Building Technologies**

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