

# WEBs-N4 Supervisor

## SPECIFICATION DATA

## APPLICATION

The WEBs-N4 Supervisor is an IoT (Internet of Things) software platform used in server-class applications. It makes managing all buildings at an enterprise level possible, giving facilities managers the ability to quickly respond to problems and insights to optimize their system.

The WEBs-N4 Supervisor allows multiple Niagara-based WEB controllers, along with other IP-based controllers, to be networked together. It serves realtime graphical information to standard Web-browser clients and provides server-level functions. These functions include centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management, and integration with other enterprise software applications through an XML interface (oBIX standard). Also, it provides a comprehensive graphical engineering toolset for application development.

## SPECIFICATIONS

- HTML5 and Java-enabled user interface (UI); JavaScript data interface library included (BajaScript)
- Supports an unlimited number of users over the Internet/intranet with a standard Web browser (depending on the host PC resources)
- Optional enterprise-level data archival using SQL, MySQL or Oracle databases and HTTP/HTML/XML, CSV or text formats
- "Audit Trail" of database changes, database storage and backup, global time functions, calendar, central scheduling, control and energy management routines
- Sophisticated alarm processing and routing, including email alarm acknowledging
- Access to alarms, logs, graphics, schedules and configuration data with a standard Web browser
- Niagara follows industry best practices for cyber security, with support for features such as strong hashed passwords, TLSv1 for secure communications and certificate management tools for authentication
- HTML-based help system that includes comprehensive online system documentation
- Supports multiple WEBs-based stations connected to a local Ethernet network, or the Internet
- Provides online/offline use of the Niagara Framework® Workbench AX graphical configuration tool and a comprehensive Java Object Library
- Optional direct Ethernet-based driver support for most Open IP field bus protocols (see supported drivers document)

## FEATURES

- **Centralized system management**
- **Quickly navigate to individual buildings using tags to diagnose problems**
- **Compare data between buildings**
- **Export system data to external databases**
- **Integrate BAS to other enterprise applications**
- **Integrate to other applications, such as work order management, analytics, etc.**
- **Single tool used to program WEB controllers and Supervisor**
- **Remotely back up WEB applications to Supervisor**
- **Batch provisioning of WEB firmware upgrades from Supervisor**
- **Robust built-in analytic capabilities supported by standard Niagara components and visualizations**
- **Compatibility with Niagara Analytics 2.0, adding data source, functional and mathematical programming blocks to enable sophisticated analytic algorithms.**

## Supported Drivers

Many open protocol IP drivers are included with WEBs-N4 software Others can be purchased separately à la carte. For an up-to-date list of supported drivers, please check your price list.

## Compatibility

In any given WEBs system, the WEBs Supervisor must be running the highest version of any Niagara instance in the architecture.

When connecting to WEB Controllers that are running older versions of WEBs software, these compatibility guidelines apply:

- **WEBs AX:** WEB N4 Supervisors can connect to WEB Controllers running WEBs AX versions 3.6u4, 3.7u1, 3.8.41 and higher.



- **R2:** WEBs AX and WEBs N4 Supervisors can connect to WEB Controllers running R2 through the oBIX XML interface only. oBIX is included in all WEBs AX and WEBs N4 Supervisors as a means of integrating Niagara-based Release 2 (R2) WEB Controllers With WEBs Release 2.3.522 or higher, the oBIX driver can be added to expose all data points, schedules, trends and alarms to a WEBs AX or WEBs N4 system. This oBIX driver is both a client and a server.

## Platform Requirements for WEBs-N4.2

WEBs-N4 Supervisor may run acceptably on lower-rated platforms, or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, etc.

- Processor: Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors
- Operating System: Windows 10, 64-bit Windows 8.1 Enterprise, Windows Server 2012 Standard and 2012 R2 Standard, RHEL-7
- Memory: 1 GB minimum, 4 GB or more recommended for larger systems
- Hard Drive: 4 GB minimum, more recommended depending on archiving requirements
- Display: Video card and monitor capable of displaying 1024 x 768 pixel resolution or greater
- Network Support: Ethernet adapter (10/100 Mb with RJ-45 connector)
- Connectivity: Full-time high-speed ISP connection recommended for remote site access (i.e., T1, ADSL, cable modem)

Platform requirements for older versions of Niagara Supervisors are included in the Release Notes for each particular version.

## Ordering Information

Part number	Description
WEB-S-0-N4	No Niagara network – Devices only (1.8mo SMA req)
SUP-0-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
WEB-S-1-N4	1 Niagara network connection (1.8mo SMA req)
SUP-1-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
WEB-S-2-N4	2 Niagara network connections (1.8mo SMA req)
SUP-2-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
WEB-S-3-N4	3 Niagara network connections (1.8mo SMA req)
SUP-3-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
WEB-S-10-N4	10 Niagara network connections (1.8mo SMA req)
SUP-10-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
WEB-S-100-N4	100 Niagara network connections (1.8mo SMA req)
SUP-100-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
WEB-S-UNL-N4	Unlimited Niagara network connections (1.8mo SMA req)
SUP-UNL-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
SUP-DEMO	Niagara 4 Supervisor demo
SUP-UP-1	Adds one additional Niagara connection to Supervisor
SUP-UP-100	Upgrades small Supervisor to 100 Niagara connections
SUP-UP-UNL	Upgrades Supervisor 100 to unlimited Niagara connections
SUP-DEVICE-10	10 device core ( STD drivers included)
SUP-DEVICE-25	25 device core ( STD drivers included)
SUP-DEVICE-50	50 device core ( STD drivers included)
SUP-DEVICE-100	100 device core ( STD drivers included)
SUP-DEVICE-200	200 device core ( STD drivers included)
SUP-AX	Enables Supervisor to run Niagara AX (v3.8)
SUP-[0-UNL]-SMA-[1,3,5]YR	Supervisor [0-UNL] Maintenance – [1,3,5] YR extensions

\*If Maintenance coverage is not purchased for any period, the price of Maintenance for the next period for which it is purchased will be (i) the Maintenance fee for the period(s) for which Maintenance was not purchased, up to a maximum of 5 years; and (ii) the Maintenance fee for the next year.

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### Automation and Control Solutions

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31-00106-02 M.S. Rev. 10-16  
Printed in United States