

# WEBS N4.8 SUPERVISOR

## Data Sheet

### PRODUCT DEFINITION

The WEBS Niagara Supervisor is part of the portfolio of Java-based controller/server products, software applications, and tools powered by the Niagara Framework®. It provides server-level functions for a network of WEB, Niagara Edge, and other field devices. The WEBS Niagara Supervisor serves real-time graphical information to standard web-browser clients and performs other functions like analytics, centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management, and integration with other enterprise software applications. Also, it provides a comprehensive graphical engineering toolset for application development.

### KEY 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-8000 supervisor and CIPer controllers
- Remotely back up WEB-8000 and CIPer Model 10 applications to Supervisor
- Batch provisioning of WEB-8000 and CIPer Model 10 firmware upgrades, security credentials, applications, and commissioning options from Supervisor
- Robust built-in analytic capabilities supported by standard Niagara components and visualizations
- Includes Niagara Analytics, adding data source, functional, and mathematical programming blocks to enable sophisticated analytic algorithms
- Compatibility with WEBS Enterprise Security access control and security application. Allows integration of a BAS and access control to save energy and optimize operations
- Eligible for accreditation under the Federal Risk Management Framework (RMF)
- FIPS 140-2 Level 1 conformance available

The WEBS Niagara Supervisor allows the networking of multiple Niagara-based WEB-8000 and CIPer Model 10 controllers, along with other IP-based controllers and field devices. It enables the design, configuration, and maintenance of a unified, real-time controls network.

## 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 Trial” 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, TLS for secure communications, and certificate management tools for authentication. A built-in Security Dashboard provides a comprehensive and actionable view of the security posture of your Niagara deployment
HTML-based help system that includes comprehensive online system documentation
Supports multiple Niagara-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

## SOFTWARE & DRIVERS

Every WEBs N4 Supervisor comes with a Niagara 4 software license and many open-protocol IP drivers that cover standard control situations. Other drivers can be purchased separately à la carte. For an up-to-date list of supported drivers, visit the resource library on tridium.com

## SOFTWARE MAINTENANCE

Purchase of Software Maintenance Agreement (SMA) is required with initial WEBs Supervisor licensing. The initial SMA is for 18 months, with extended agreements of 3 years and 5 years available for discounted rates.

If a Software Maintenance Agreement is not in effect for any period, the price of maintenance for the next period for which it is purchased will be priced at a cost equal to the maintenance fee for the period(s) for which maintenance was not purchased, up to a maximum of 5 years, plus the maintenance fee for the next year.

## ORDERING INFORMATION

Part Number	Description
WEB-S-0-N4	Supervisor with 0 Niagara network connections - for managing IP field devices only.
SSUP-0-SMA-INIT	Supervisor 100 - Initial 18-month maintenance must be purchased in conjunction with Supervisor software. Optional 3YR or 5YR maintenance may be substituted.
WEB-S-1-N4	Supervisor with 1 Niagara network connection.
SSUP-1-SMA-INIT	Supervisor 1 - Initial 18-month maintenance must be purchased in conjunction with Supervisor software. Optional 3YR or 5YR maintenance may be substituted.
WEB-S-2-N4	Supervisor with 2 Niagara network connections.
SSUP-2-SMA-INIT	Supervisor 2 - Initial 18-month maintenance must be purchased in conjunction with Supervisor software. Optional 3YR or 5YR maintenance may be substituted.
WEB-S-3-N4	Supervisor with 3 Niagara network connections.
SSUP-3-SMA-INIT	Supervisor 3 - Initial 18-month maintenance must be purchased in conjunction with Supervisor software. Optional 3YR or 5YR maintenance may be substituted.
WEB-S-10-N4	Supervisor with 10 Niagara network connections.
SSUP-10-SMA-INIT	Supervisor 10 - Initial 18-month maintenance must be purchased in conjunction with Supervisor software. Optional 3YR or 5YR maintenance may be substituted.
WEB-S-100-N4	Supervisor with 100 Niagara network connections.
SSUP-100-SMA-INIT	Supervisor 100 - Initial 18-month maintenance must be purchased in conjunction with Supervisor software. Optional 3YR or 5YR maintenance may be substituted.
WEB-S-UNL-N4	Supervisor with Unlimited Niagara network connections.
SSUP-UNL-SMA-INIT	Supervisor UNL - Initial 18-month maintenance must be purchased in conjunction with Supervisor software. Optional 3YR or 5YR maintenance may be substituted.
WEB-S-DEMO-N4	Niagara Framework Demo Supervisor software for Windows OS; Includes Niagara Historical Database and Workbench. Includes all available drivers. License will renew annually with the receipt of the annual support fee.
SUP-UP-1	Adds one additional Niagara connection to Supervisor.
SUP-UP-100	Upgrades "small" supervisor (SUP-0 through SUP-10) to 100 Niagara connections. Will maintain any SUP-UP-1 that were added to original license.
SUP-UP-UNL	Upgrades supervisor 100 to unlimited Niagara connections.
SUP-DEVICE-10	Supervisor 10 field Device pack (Standard drivers included). 500 points
SUP-DEVICE-25	Supervisor 25 field Device pack (Standard drivers included). 1,250 points
SUP-DEVICE-50	Supervisor 50 field Device pack (Standard drivers included). 2,500 points
SUP-DEVICE-100	Supervisor 100 field Device pack (Standard drivers included). 5,000 points
SUP-DEVICE-200	Supervisor 200 field Device pack (Standard drivers included). 10,000 points
SUP-DEVICE-500	Supervisor 500 field Device pack (Standard drivers included). 25,000 points
SUP-DEVICE-1000	Supervisor 1000 field Device pack (Standard drivers included). 50,000 points
SSP-FIPS-AX	Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for a N4 Supervisor. Compatible with WEBs version 4.6 and later

## COMPATIBILITY

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

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

- **Niagara AX:** Niagara 4 Supervisors can connect to WEBs running Niagara AX versions 3.6u4, 3.7u1, 3.8R and higher.
- **R2:** Niagara AX and Niagara 4 Supervisors can connect to WEBs running R2 through the oBIX XML interface only. oBIX is included in all Niagara AX and Niagara 4 Supervisors as means of integrating Niagara-based Release 2 (R2) WEBs. With Niagara Release R2 2.3.522 or higher, the oBIX driver can be added to expose all data points, schedules, trends, and alarms to WEB AX or WEB N4 system. This oBIX driver is both a client and a server.

## PLATFORM REQUIREMENTS FOR NIAGARA SUPERVISOR

WEBs Niagara 4 Supervisors 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 7 Professional/Enterprise/Ultimate (64 bit), Windows 8.1 Professional/Enterprise/Ultimate (64 bit), Windows 10 (64 bit), Windows Server 2012 R2 (SP2) Standard/Enterprise, Windows Server 2016, Red Hat Enterprise Linux 7.5
- **Memory:** 6 GB minimum, 8 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) and IPv6 compliant

Platform requirements for older versions of WEBs Niagara Supervisors are included in the release notes for each version.