Honeywell

WEBs-N4 SUPERVISOR

PRODUCT DEFINITION

The WEBs-N4 Supervisor is part of the portfolio of Java-based controller and server products, software applications, and tools powered by the Niagara Framework®. It provides server-level functions for a network of WEB-8000, CIPer Model controllers, and other field devices. The WEBs-N4 Supervisor serves real-time graphical information to standard web-browser clients and performs other functions like centralized data logging / trending, archiving to external databases, alarming, dashboarding, system navigation, global scheduling, database management, and integration with other enterprise software applications through an XML interface (oBIX standard). It also provides a comprehensive graphical engineering toolset for application development.

KEY FEATURES

- Centralized system management
- Utilize tags to quickly navigate to buildings, systems and equipment when diagnosing operational problems or emergencies
- 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, CIPer Model 10, 30, and 50 controllers and Supervisor stations
- Remotely back up WEB-8000, CIPer Model 10, 30, and 50 applications to Supervisor
- Batch provisioning of WEB-8000, CIPer Model 10, and CIPer Model 30 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, which features data source, functional and mathematical programming blocks that enable sophisticated analytic algorithms
- Compatibility with WEBs Enterprise Security access control application. Allows integration of 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 controllers like WEB-8000, CIPer Model 10, CIPer Model 30, and CIPer Model 50. 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 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, 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 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)

SOFTWARE & DRIVERS

Every WEBs-N4 Supervisor comes with a Niagara 4 software license, along with multiple open-protocol IP drivers that are compatible with standard control networks. If required, other drivers can be purchased separately. For an up-to-date list of supported drivers, contact customer support.

SOFTWARE MAINTENANCE

Purchase of a Software Maintenance Agreement (SMA) is required with initial WEBs-N4 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	No Niagara network connections – Devices only. (18mo SMA required)
SUP-0-SMA-INIT	18-month initial SMA required (3yr or 5yr can be substituted)
WEB-S-1-N4	1 Niagara network connection* (18mo SMA required)
SUP-1-SMA-INIT	18-month initial SMA required (3yr or 5yr can be substituted)
WEB-S-2-N4	2 Niagara network connections* (18mo SMA required)
SUP-2-SMA-INIT	18-month initial SMA required (3yr or 5yr can be substituted)
WEB-S-3-N4	3 Niagara network connections* (18mo SMA required)
SUP-3-SMA-INIT	18-month initial SMA required (3yr or 5yr can be substituted)
WEB-S-10-N4	10 Niagara network connections* (18mo SMA required)
SUP-10-SMA-INIT	18-month initial SMA required (3yr or 5yr can be substituted)
WEB-S-100-N4	100 Niagara network connections* (18mo SMA required)
SUP-100-SMA-INIT	18-month initial SMA required (3yr or 5yr can be substituted)
WEB-S-UNL-N4	Unlimited Niagara network connections* (18mo SMA required)
SUP-UNL-SMA-INIT	18-month initial SMA required (3yr or 5yr can be substituted)
WEB-S-DEMO-N4	Niagara 4 Supervisor demo
SUP-UP-1	Adds one additional Niagara connection to Supervisor
SUP-UP-100	Upgrades small Supervisor to 100 Niagara connections

Part number	Description
SUP-UP-UNL	Upgrades Supervisor 100 to unlimited Niagara connections
SUP-DEVICE-10	10 device upgrade (standard drivers included)
SUP-DEVICE-25	25 device upgrade (standard drivers included)
SUP-DEVICE-50	50 device upgrade (standard drivers included)
SUP-DEVICE-100	100 device upgrade (standard drivers included)
SUP-DEVICE-200	200 device upgrade (standard drivers included)
SUP-DEVICE-500	500 device upgrade (standard drivers included)
SUP-DEVICE-1000	1000 device upgrade (standard drivers included)
SUP-STATION-5UP	Allows running multiple stations with 1 Niagara license Each instance of the part purchased increases the limit by 5 stations
SP-S-FIPS	Provides FIPS 140-2 Level 1 conformance for 4.6 and later
SUP-[0-UNL]-SMA-[1,3,5] YR	Supervisor [0-UNL] Maintenance – [1,3,5] yr extensions

*CIPer Model 10 and the CIPer Model 30 with a 150 points or less based capacity license now count as a $1/10^{th}$ of a standard Niagara device connection.

COMPATIBILITY

In any given WEBs Niagara system, the Supervisor must be running the highest version of any WEBs-N4 instance in the architecture.

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

- WEBs-AX: WEBs-N4 Supervisors can connect to WEBs JACE running WEBs-AX-3.8 and higher.
- R2: WEBs-N4 Supervisors can connect to WEBs JACE running R2 through the oBIX XML interface only.

PLATFORM REQUIREMENTS FOR WEBs-N4 SUPERVISOR

WEBs-N4 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**:
  - o   Windows 10 (64-bit)
  - o   Windows Server 2016
  - o   Windows Server 2019
  - o   Red Hat Enterprise Linux 7.7/8.1 (64-bit)
  - o   VMware – ESXi 6.7

- **Mobile operating system**: Android 8 Oreo, Android 9 Pie, Android 10, Android Q, iOS 12, iOS 13

- **Browser**: Chrome, Mozilla Firefox, Microsoft Edge, Niagara Web Launcher

- **Mobile Browser**: Chrome on Android (8, 9, 10) , Safari on iOS (12, 13)

- **Relational Database**: MySQL 8.0, MS SQL 2016, 2017, 2019, Oracle 19c. , 18c ….12.2/12.1
  NOTE: Oracle 12g is not supported. MySQL 8.0 and MySQL 5.7 are both tested with connector version: 8.0.13. Connector 5.1.46 works with MySQL 5.7.

- **RAM Memory**: 6 GB minimum, 8 GB or more recommended for 64-bit installation or larger systems

- **Hard Drive**: 4 GB minimum, 10 GB recommended for any Supervisor

- **Display**: Video card and monitor capable of displaying 1024 x 768-pixel resolution, 1080p (1920 x 1080) minimum resolution recommended

- **Network Support**: Ethernet adapter (10/100 Mb with RJ-45 connector), 100 Mbit or 1 Gbit NIC (network interface card) with TCP/IP

- **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 Supervisors are included in the release notes for each particular version.

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