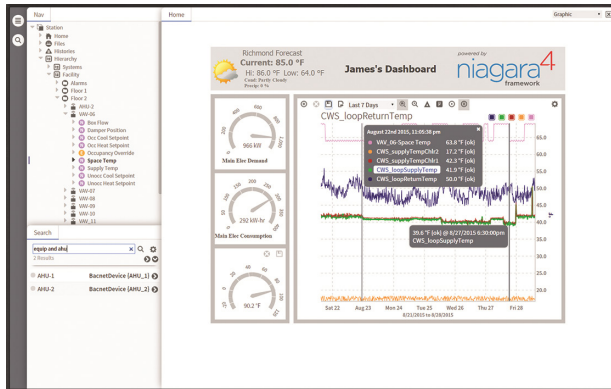# Niagara 4 Supervisor

SPECIFICATIONS

SYSTEM REQUIREMENTS

Note: These are recommended specifications. While Niagara 4 Supervisor may run on a computer that does not meet these specifications, a computer meeting or exceeding the recommended specifications should be used to ensure efficient operation.

Processor
Intel® Xeon® CPU E5-2640 x64 (or better). Compatible with dual- and quad-core processors.

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).

Operating System
Windows 10, 64-bit Windows 8.1 Enterprise, Windows Server 2012 Standard, and 2012 R2 Standard.

Specifications continued on next page.

INTRODUCTION

The Niagara 4 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 provides insights to optimize their system.

The Niagara 4 Supervisor allows multiple Niagara-based JACE® controllers to be networked with other IP-based controllers. It serves real-time graphical information to standard Web-browser clients, and provides server-level functions such as centralized data logging and trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, and database management. Niagara 4 also features a comprehensive graphical engineering toolset for application development, and it allows integration with other enterprise software applications through an XML interface (oBIX standard).

FEATURES

- HTML5 and Java-enabled user interface (UI); JavaScript data interface library included (BajaScript).

- Supports an almost unlimited number of users over the Internet or intranet with a standard Web browser.

- Optional enterprise-level data archiving using SQL, MySQL, or Oracle database 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 that includes e-mail alarm acknowledging.

- Access to alarms, logs, graphics, schedules, and configuration data using a standard Web browser.

- Follows industry best practices for cyber security, with support for strong hashed passwords, TLSv1 for secure communications, and certificate management tools for authentication.

Features continued on next page.

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Specifications continued from first page.

COMMUNICATIONS

Full-time high-speed ISP connection recommended for remote site access (i.e., T1, ADSL, cable modem).

COMPATIBILITY

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

When connecting to ENC/JACE controllers that are running older versions of Niagara, the following compatibility guidelines apply:

- I/A Series G3: Niagara 4 Supervisors can connect to ENC/JACE controllers running I/A Series G3 versions 3.6u4, 3.7u1, 3.8R, and higher.

Features continued from first page.

- HTML-based help system that includes comprehensive on-line system documentation.
- Supports multiple Niagara-based controllers connected to a local Ethernet or the Internet.
- Provides on-line and off-line use of the Workbench™ graphical application configuration tool and a comprehensive Java Object Library.
- Optional support available for Ethernet-based drivers for most Open IP field bus protocols.

MODELS

Part Number	Description
TRD-SUP-0	No Niagara network – devices only (18 month SMA required)
TRD-SUP-0-SMA-INIT	18 month initial SMA (3 year or 5 year can be substituted)
TRD-SUP-1	1 Niagara network connection (18 month SMA required)
TRD-SUP-1-SMA-INIT	18 month initial SMA (3 year or 5 year can be substituted)
TRD-SUP-2	2 Niagara network connections (18 month SMA required)
TRD-SUP-2-SMA-INIT	18 month initial SMA (3 year or 5 year can be substituted)
TRD-SUP-3	3 Niagara network connections (18 month SMA required)
TRD-SUP-3-SMA-INIT	18 month initial SMA (3 year or 5 year can be substituted)
TRD-SUP-10	10 Niagara network connections (18 month SMA required)
TRD-SUP-10-SMA-INIT	18 month initial SMA (3 year or 5 year can be substituted)
TRD-SUP-100	100 Niagara network connections (18 month SMA required)
TRD-SUP-100-SMA-INIT	18 month initial SMA (3 year or 5 year can be substituted)
TRD-SUP-UNL	Unlimited Niagara network connections (18 month SMA required)
TRD-SUP-UNL-SMA-INIT	18 month initial SMA (3 year or 5 year can be substituted)
TRD-SUP-UP-1	Adds one additional Niagara connection to Supervisor
TRD-SUP-UP-100	Upgrades small Supervisor to 100 Niagara connections
TRD-SUP-UP-UNL	Upgrades Supervisor 100 to unlimited Niagara connections

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Part Number	Description
TRD-SUP-DEVICE-10	10 device core (standard drivers included)
TRD-SUP-DEVICE-25	25 device core (standard drivers included)
TRD-SUP-DEVICE-50	50 device core (standard drivers included)
TRD-SUP-DEVICE-100	100 device core (standard drivers included)
TRD-SUP-DEVICE-200	200 device core (standard drivers included)
TRD-SUP-AX	Enables Supervisor to run Niagara AX (v3.8)
TRD-SUP-[0-UNL]-SMA-[1,3,5]YR	Supervisor [0-UNL] Maintenance – [1,3,5] year extensions

OPTIONS

Many open protocol IP drivers are included with Niagara 4 Supervisor. Others can be purchased separately. For an up-to-date list of supported drivers, visit the resource library at tridium.com.

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