



NIAGARA 4 SUPERVISOR

SUPERVISORY SOFTWARE OPEN 4 INNOVATION

PRODUCT DEFINATION

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 insights to optimize their system.

The Niagara 4 Supervisor allows multiple Niagara-based JACE controllers, along with other IP-based controllers and field devices, to be networked together. It serves real-time 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.

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 a Building Automation System (BAS) with other enterprise applications
- Integrate with other applications, such as work order management, analytics, etc.
- Single tool used to program JACE, Niagara Edge controllers and Supervisor
- Remotely back up JACE and Edge applications to Supervisor
- Batch provisioning of JACE and Edge 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 Niagara Enterprise Security access control and security 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 NIAGARA SUPERVISOR ALLOWS THE NETWORKING OF MULTIPLE NIAGARABASED JACE® AND NIAGARA EDGE® CONTROLLERS, ALONG WITH OTHER IP-BASED CONTROLLERS AND FIELD DEVICES. IT ENABLES THE DESIGN, CONFIGURATION AND MAINTENANCE OF A UNIFIED, REAL-TIME CONTROLS NETWORK.



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NIAGARA 4 SUPERVISOR

SPECIFICATIONS

PLATFORM REQUIREMENT

Processor

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

Operating System

- Windows 11 and 10 Pro x64-bit
- Windows Server 2019 and 2016
- Linux x64-bit – RedHat
- Enterprise Linux 8.5
- Ubuntu 20.04

Browser:

- Chrome
- Firefox
- Microsoft Edge

Database

- MS SQL Server 2019
- 2016; Oracle 19c
- MySQL 8.0

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, 1080p (1920 x 1080) minimum resolution recommended.

Network support

- Ethernet adapter (10/100 Mb with RJ-45 connector).

AGENCY LISTINGS

- UL 916
- CE EN 61326-1
- FCC PART 15 SUBPART B, CLASS B
- FCC PART 15 SUBPART C
- C-UL LISTED TO CANADIAN STANDARDS ASSOCIATION (CSA) C22.2 NO. 205-M1983
- "SIGNAL EQUIPMENT"
- 1999/5/EC R&TTE DIRECTIVE
- CCC
- SRRC
- RSS
- ROHS

SPECIFICATIONS

- Features a HTML5 and Java-enabled user interface (UI), and includes a JavaScript data interface library (Baja Script)
- 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)



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NIAGARA 4 SUPERVISOR

ORDERING INFORMATION

CODE NUMBER	DESCRIPTION
S-N4-0	Supervisor with 0 Niagara network connections
SUP-0-SMA-1YR	18mo initial SMA required (3YR or 5YR can be substituted)
S-N4-1	Supervisor with 1 Niagara network connections
SUP-1-SMA-INIT	18mo initial SMA required (3YR or 5YR can be substituted)
S-N4-2	Supervisor with 2 Niagara network connections
SUP-2-SMA-1YR	18mo initial SMA required (3YR or 5YR can be substituted)
S-N4-3	Supervisor with 3 Niagara network connections
SUP-3-SMA-INIT	18mo initial SMA required (3YR or 5YR can be substituted)
S-N4-10	Supervisor with 10 Niagara network connections
SUP-10-SMA-1YR	18mo initial SMA required (3YR or 5YR can be substituted)
S-N4-100	Supervisor with 100 Niagara network connections
SUP-100-SMA-INIT	18mo initial SMA required (3YR or 5YR can be substituted)
S-N4-UNL	Supervisor with Unlimited Niagara network connections
SUP-UNL-SMA-INT	18mo initial SMA required (3YR or 5YR can be substituted)
SUP-UP-1	Adds one additional Niagara connection to Supervisor.
SUP-UP-100	Upgrades supervisor to 100 Niagara connections.
SUP-UP-UNL	Upgrades supervisor 100 to unlimited Niagara connections.
SUP-DEVICE-10	Supervisor 10 field Device pack (Standard drivers included)
SUP-DEVICE-25	Supervisor 25 field Device pack (Standard drivers included)
SUP-DEVICE-50	Supervisor 50 field Device pack (Standard drivers included)
SUP-DEVICE-100	Supervisor 100 field Device pack (Standard drivers included)
SUP-DEVICE-200	Supervisor 200 field Device pack (Standard drivers included)
SUP-DEVICE-500	Supervisor 500 field Device pack (Standard drivers included)
SUP-DEVICE-1000	Supervisor 1000 field Device pack (Standard drivers included)
SUP-[0-UNL]-SMA-[1,3,5]YR	Supervisor [0-UNL] Maintenance - [1,3,5] YR extensions



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