

# Integra N4 Supervisor Network Server

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 Integra controllers, along with other IP-based controllers, 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.

## FEATURES

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 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 (see supported drivers document)



## COMPATIBILITY

In any given Niagara system, the Niagara Supervisor must be running the highest version of any Niagara instance in the architecture. When connecting to Integra controllers that are running older versions of Niagara, these compatibility guidelines apply:

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

## ORDERING INFO

Part number	Description
SUP-0	Niagara 4 Supervisor: No Niagara network – Devices only (18mo SMA req)
SUP-0-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
SUP-1	Niagara 4 Supervisor: 1 Niagara network connection (18mo SMA req)
SUP-1-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
SUP-2	Niagara 4 Supervisor: 2 Niagara network connections (18mo SMA req)
SUP-2-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
SUP-3	Niagara 4 Supervisor: 3 Niagara network connections (18mo SMA req)
SUP-3-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
SUP-10	Niagara 4 Supervisor: 10 Niagara network connections (18mo SMA req)
SUP-10-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)

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.

Part number	Description
SUP-100	Niagara 4 Supervisor: 100 Niagara network connections (18mo SMA req)
SUP-100-SMA-INIT	18mo initial SMA (3YR or 5YR can be substituted)
SUP-UNL	Niagara 4 Supervisor: Unlimited Niagara network connections (18mo 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 Niagara 4 Supervisor
SUP-UP-100	Upgrades small Niagara 4 Supervisor to 100 Niagara connections
SUP-UP-UNL	Upgrades Niagara 4 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 a Niagara 4 Supervisor to run Niagara AX (v3.8)
SUP-[0-UNL]-SMA-[1,3,5] YR	Supervisor [0-UNL] Maintenance – [1,3,5] YR extensions

## SPECIFICATIONS

### SYSTEM REQUIREMENTS

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

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

1GB min RAM, 4GB recommended for larger systems

4GB min HDD, more recommended for larger archival requirements

Video card and monitor capable of 1024x768 resolution

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

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

### SPECIAL NOTE(S)

Niagara 4 Supervisor may run acceptably on lower-rated platforms, or may even require more power platforms, depending on the application number of data points integrated, data poll rate, number of concurrent users, performance expectations, etc.

Platform requirements for older versions of Niagara Supervisor are included in the release notes for each particular version



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