niagara⁴
enterprise security

PRODUCT DEFINITION

Niagara Enterprise Security is a full-featured access control and security application built on the Niagara software platform. The application features an intuitive graphical user interface for managing access control and security that can be tailored for the end user with custom reports and graphics. When the application is hosted on a JACE® controller, it offers a complete access control and security solution that integrates with building control systems. For larger systems, Niagara Enterprise Security may be hosted on a Supervisor to manage databases and aggregate alarm and history data. This provides a robust distributed network architecture for access control, security, video surveillance and building control which meets the standard for smart building and IoT technologies.

KEY ADVANTAGES

- Unified graphical tool set for all connected building systems

- BACnet® server for integration with almost any building automation system

- Scalable from 2 – 10,000 doors

- Robust, distributed architecture

- Centralized data management and backup

- Integrated video surveillance

- Customizable access control functions using Niagara tools

- Same JACE 8000 hardware platform can be used for both building automation and security

- Advanced threat level management

- Seamless integration between access control and building systems

- Unified user interface for building systems

Form a secure integrated ecosystem

powered by

niagara
framework®

FEATURES

Component	Description
Database API	Increase the security of your facility by accurately registering visitors and screening them against government databases before granting access to your facility with visitor management integration, or integrate with other personnel systems for centralized management of physical access
LDAP database integration	Synchronize physical and logical access and manage from a single point of entry
Role-based users	Control what users view and can access or command
Threat level management	Change building access control based on up to 255 different threat levels
Advanced zone management	Count people in a zone, set min and max occupancy limits, require a Supervisor and prevent passback
Intrusion zone management	Monitor, arm and disarm secured areas
Elevator floor control	Individual floor access control
Intuitive user interface	Featuring context-sensitive help
Web client user interface	System access wherever, whenever you need it without additional client licenses
Configurable Wiegand formats	Support for most proximity card formats. Avoid replacing existing credentials when retrofitting systems
Custom reports	Information presented in various formats
Custom graphic / map creation	Create custom graphics to provide operators with quick access to critical information
Video system integration	View and control cameras from the same console as other building functions. Select associated video from the alarm console, or pop-up video when alarms occur
Integrated identity management	Print badges, verify identity by comparing photo with video feed
Database import	Import data from other access control systems or HR databases to quickly populate the database
Alarm escalation	Escalate alarms to remote consoles or email recipients

AGENCY CERTIFICATIONS

SEC-R2R, SEC-RIO, NPB-PWR-UN Enterprise Security Field hardware parts are listed as compliant for the following:

- UL 294 – Access Control System Units
- CSA C22.2 No. 205 – Signal Equipment

JACE 8000:

- UL 916
- CE EN 61326-1
- RCM
- 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

ORDERING INFORMATION

Niagara Enterprise Security Supervisor	
SEC-SUP-32	Niagara Enterprise Security Application. Includes license for 32 readers, MySQL and MSSQL databases. Niagara Supervisor License must be ordered separately.
Niagara Enterprise Security Supervisor additional reader packs	
SEC-R-16	16 Reader Pack
SEC-R-64	64 Reader Pack
SEC-R-256	256 Reader Pack
SEC-R-1024	1,024 Reader Pack
Niagara Enterprise Security Supervisor video options	
DR-S-MLS-16	Milestone Xprotect® Professional/+ or Corporate 16 camera driver
DR-S-MLS-32	Milestone Xprotect® Professional/+ or Corporate 32 camera driver
DR-S-MLS-64	Milestone Xprotect® Professional/+ or Corporate 64 camera driver
DR-S-MLS-128	Milestone Xprotect® Professional/+ or Corporate 128 camera driver
DR-S-AXIS-16	Axis® 16 camera driver
DR-S-AXIS-32	Axis® 32 camera driver
DR-S-AXIS-64	Axis® 64 camera driver
DR-S-AXIS-128	Axis® 128 camera driver
Niagara Enterprise Security Supervisor photo ID	
DR-SEC-S-ASURE	Photo ID Driver – enables photo import and integrated photo ID management. Integrates with SEC-ASURE-ID (HID® Asure ID SDK) software which is required for designing badge templates, printing badges and capturing photos
SEC-ASURE-ID	HID Asure ID SDK Software – used for photo capture, creating badge templates and printing badges
Niagara Enterprise Security Supervisor database integration	
DR-S-ISOM	Provides a secure restful interface to integrate with the Niagara Enterprise Security Supervisor card holder database. May be used to integrate with Easy Lobby® and other 3rd party systems.
SEC-EL-ACI-Niagara	Easy Lobby Access Control Integration plug-in for Niagara. Requires separately purchased Easy Lobby SVM version 10.
DR-S-LDAP	Provides interface to integrate the Niagara Enterprise Security Supervisor card holder database to Active Directory/LDAP. Custom configuration of LDAP/Active Directory Database may be required.
Niagara Enterprise Security JACE 8000 application	
SEC-J8-32	Niagara Security license for JACE 8000 controller. Includes licensing for 32 readers (not included in capacity). Does not include JACE 8000 controller.
Niagara Security JACE accessories	
SEC-R2R	Security module for 2 Readers/Access doors and 2 digital inputs
SEC-RIO	Security module with 8 supervised inputs, 8 relay outputs and 2 digital inputs
SEC-INT-Keypad	Intrusion keypad with LCD display for arming/disarming security zones
SEC-ENC-LNP	Large Enclosure with keyed lock, door status switch, 2 din rails for mounting JACE 8000 controller and up to 4 Remote Reader Modules or 2 Remote IO Modules. Several other combinations of devices may be mounted in this panel. Dimensions: 17"W x 22"H x 4"D.
NPB-PWR	DIN rail mountable power supply. 24 VAC/VDC input, 15 VDC 30 VA output. May be used to power modules from the same battery-backed 24 VDC power supply that is used for the JACE.
NPB-PWR-UN	DIN rail mountable power supply. Universal input accepts 90-263 VAC 50/60Hz input, 15 VDC 30 Watt output. May be used to power modules where battery backup is not required.
Niagara Security JACE video drivers	
DR-MLS-8	Milestone Xprotect® Professional 8 camera driver. Max 16 cameras per JACE.
DR-AXIS-8	Axis® 8 camera driver. Max 16 cameras per JACE.

SPECIFICATIONS

	Niagara Enterprise Security Supervisor	JACE-8000
Personnel	1,000,000	40,000
Card readers	10,000	32
Access rights	25,000	250
Schedules	1,500	100
Access zones	25,000	50
Simultaneous users	25	10
Area controllers	250	N/A

COMPATIBILITY

Niagara 4.6 or later

• JACE 8000 platform (Not supported on legacy JACE models)

Microsoft® SQL Server and SQL Server Express 2012, 2016, 2017, 2019

MySQL™ 5.7, 8.0, 9.0

Browsers: Firefox, Chrome, and Microsoft Edge. WebLauncher is required to display views that require WbApplet.

PLATFORM REQUIREMENTS FOR NIAGARA ENTERPRISE SECURITY SUPERVISOR
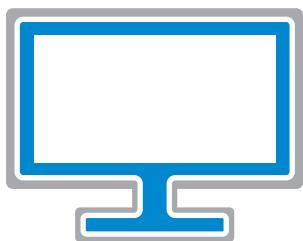
Niagara 4 Supervisors may run acceptably on lower-rated platforms, or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, etc.

Component	Description
Processor	Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors
Operating System	Windows 10 (64 bit), Windows Server 2016, Windows Server 2019 (64 bit), Red Hat Enterprise Linux 7.7, 8.1 (64bit)
Mobile Operating System	iOS 12, iOS13, Android 8 Oreo, Android 9 Pie, Android 10.0
Browser	Chrome, Firefox, Microsoft Edge. Web Launcher required for views that are applet dependent views
Mobile Browser	Safari on iOS, Chrome on Android
Database	MySQL 5.7, 8.0, 9.0; MSSQL 2012, 2016, 2017, 2019
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 minimum, 1080p (1920 x 1080 pixel) or better is recommended.
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
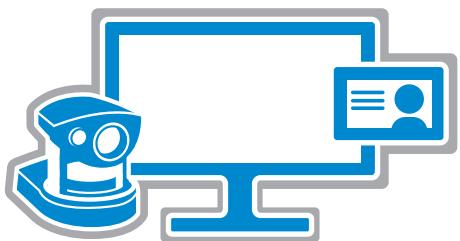
Platform requirements for older versions of Niagara Supervisors are included in the release notes for each version.

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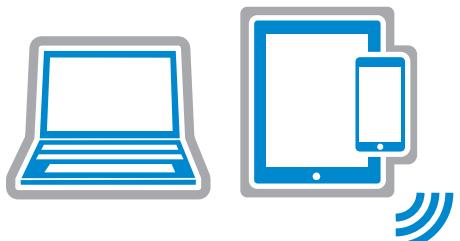
Niagara Enterprise
Security Supervisor

Visitor management
photo ID

Web clients

Internet
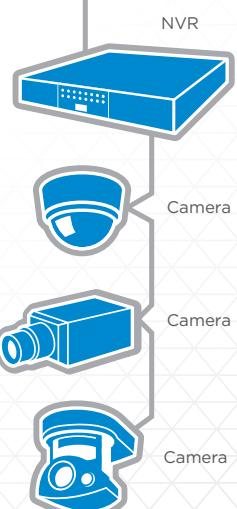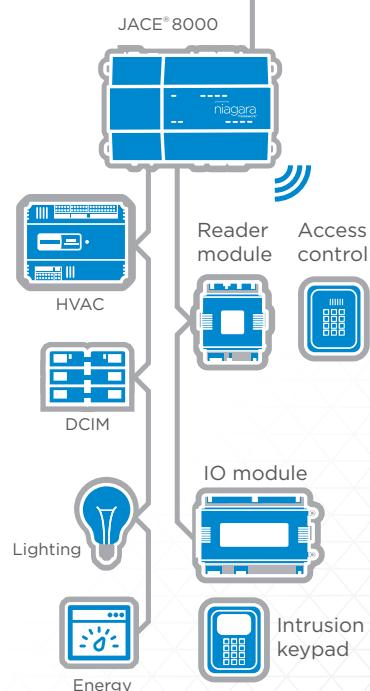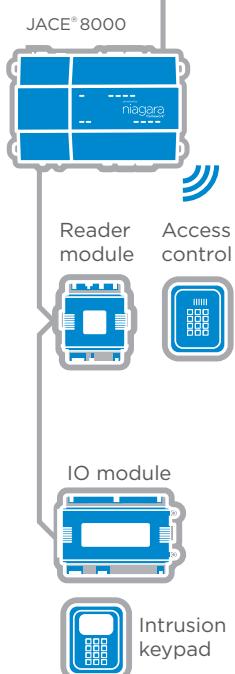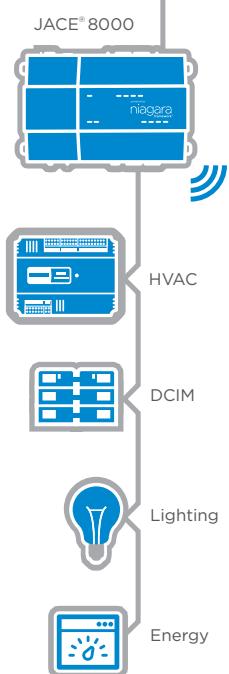
Niagara for
building
automation

Niagara for
enterprise
security

Niagara for
integrated
buildings

Integrated
video

TCPIP Network or WAN

JACE® 8000

JACE® 8000

JACE® 8000

NVR

HVAC

DCIM

Lighting

Energy

Reader
module

Access
control

IO module

Intrusion
keypad

HVAC

DCIM

Lighting

Energy

Reader
module

Access
control

IO module

Intrusion
keypad

Camera

Camera

Camera

powered by

niagara
framework®

Niagara Enterprise Security is available through a wide variety of original equipment manufacturers. Our open distribution business model and open protocol support allow a vendor-neutral application compatible with devices and systems throughout the world.

To learn more about how to purchase and install Niagara Enterprise Security, or if you are an original equipment manufacturer and would like to add this
to your suite of offerings, please contact us.

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