niagara
enterprise security

PRODUCT DEFINITION

Niagara Enterprise Security is a full-featured access control and security application built on Tridium's 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 current requirements for integrated efficient buildings.

KEY ADVANTAGES

- Unified graphical tool set for all connected building systems

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

- Scaleable 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
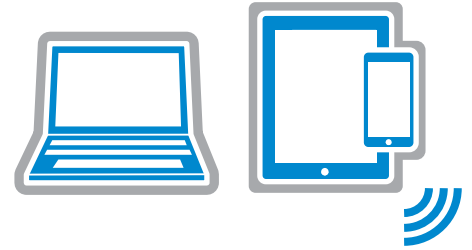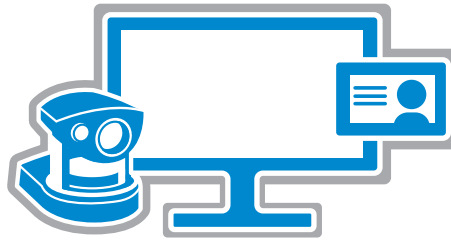
- Unified user interface for building systems

Form a secure integrated ecosystem

powered by

niagara
framework®

Niagara Enterprise Security Supervisor
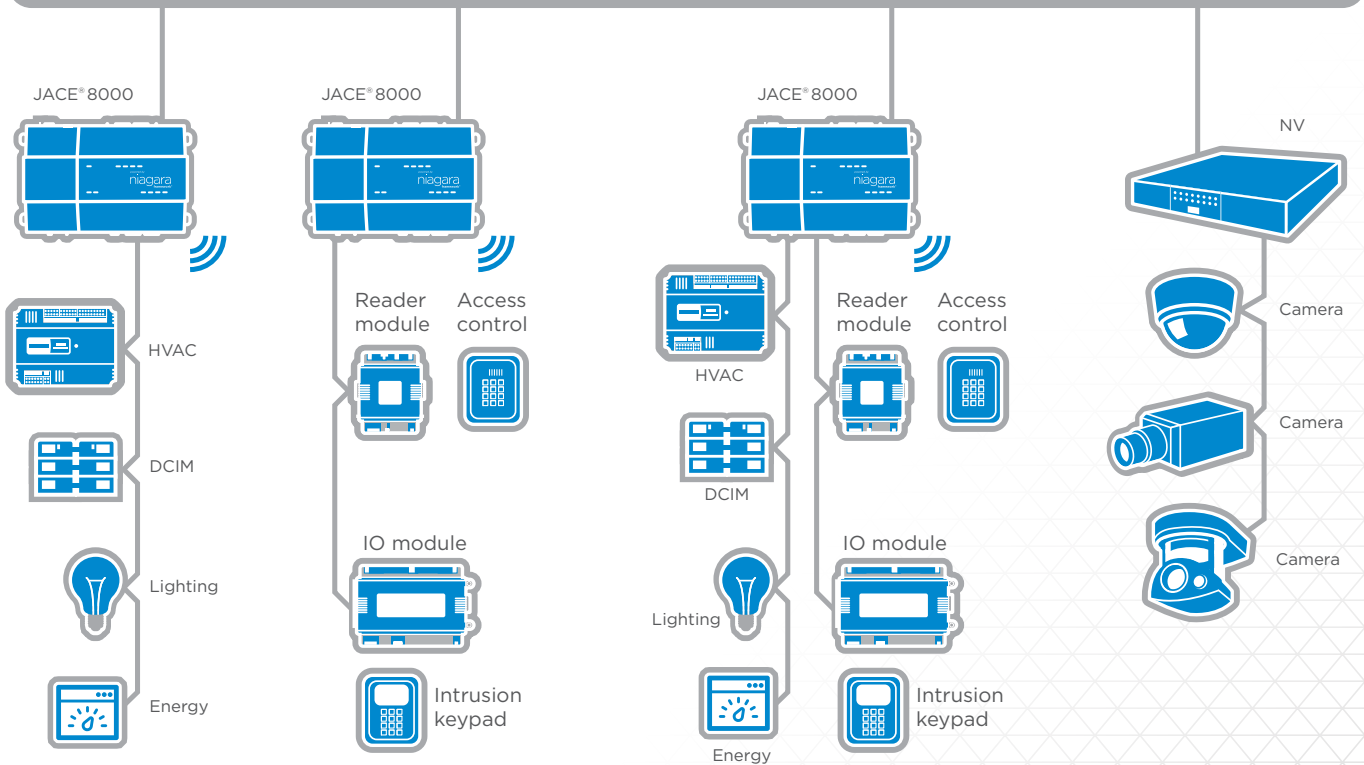
Visitor management photo ID

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

NV

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

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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

NIAGARA ENTERPRISE SECURITY SUPERVISOR
PLATFORM REQUIREMENTS

The Niagara Enterprise Security Supervisor may run acceptably on lower-rated platforms, or may require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, etc. Minimum platform requirements for a Niagara Enterprise Security server:

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

- **Operating system:** Windows® 7, Windows 8.1 Enterprise, Windows Server 2008, Windows Server 2012 Standard and 2012 R2 Standard, Windows 10

- **Memory:** 4 GB or more recommended

- **Hard drive:** 500 GB or more recommended

- **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)

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

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ORDERING INFORMATION

Niagara Enterprise Security Supervisor	
Niagara AX Supervisor with Niagara Enterprise Security Appliance. Licensed for 32 readers, MySQL and MSSQL database drivers. May be upgraded to include BAS driver functionality with optional upgrade part.	
T-SEC-ENT-6	Small Facility Security Supervisor for up to 6 JACE connections
T-SEC-ENT-100	Medium Facility Security Supervisor for up to 100 JACE connections
T-SEC-ENT-250	Large Facility Security Supervisor for up to 250 JACE connections
Niagara Enterprise Security Supervisor integrated	
Niagara AX Supervisor with Niagara Enterprise Security Appliance. Licensed for 32 readers, MySQL and MSSQL database drivers. Optional BAS drivers available.	
T-S-AX-10-INT	Small Facility Integrated Security Supervisor for up to 10 JACE connections
T-S-AX-100-INT	Medium Facility Integrated Security Supervisor for up to 100 JACE connections
T-S-AX-250-INT	Large Facility Integrated Security Supervisor for up to 250 JACE connections
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 upgrades	
SEC-BAS-U	Upgrade Niagara Enterprise Security Supervisor to allow BAS driver functionality
SEC-ENT-U	Upgrade Niagara BAS Supervisor to Niagara Enterprise Security Supervisor with MySQL, MS SQL and 32 readers
SEC-U-100	Upgrade Niagara Enterprise Security Supervisor from small to medium
SEC-U-250	Upgrade Niagara Enterprise Security Supervisor from medium to large
SUP-UP-1	Add one JACE connection to the Niagara Enterprise Security Supervisor
Niagara Enterprise Security Supervisor video options	
DR-S-AXS-AX	Axis IP Camera Base Supervisor Driver for 16 cameras
DR-S-AXS-4	Additional 4 Camera Block for Axis IP Camera Supervisor Driver
DR-S-DED-AX	Dedicated Micros Base Supervisor Driver for 16 cameras
DR-S-DED-4	Additional 4 Camera Block for Dedicated Micros Supervisor Driver
DR-S-MLS-AX	Milestone Base Supervisor Driver for 16 cameras
DR-S-MLS-4	Additional 4 Camera Block for Milestone System Supervisor Driver
DR-S-RPD-AX	Honeywell Rapid Eye™ Base Supervisor Driver for 16 cameras
DR-S-RPD-4	Additional 4 Camera Block for Honeywell Rapid Eye Supervisor 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 Supervisor revision upgrade	
SEC-REV-6	Security Small Building Revision Upgrade to current Niagara AX version
SEC-REV-100	Security Supervisor Revision Upgrade to current Niagara AX version
SEC-REV-250	Security Large System Revision Upgrade to current Niagara AX version
Niagara Enterprise Security Supervisor maintenance	
Effective for one Maintenance Term (a period of at least 12 months, as defined in Tridium's Software Maintenance Terms and Conditions). Upgrades licenses to Niagara 4 releases issued during the Maintenance Term for which the maintenance is purchased. Subject to Tridium's Software Maintenance Terms and Conditions. The Software Maintenance Terms and Conditions are posted in the resource library on Tridium's website.	
SEC-ENT-6-MA	Security Small Building Maintenance for 1 term
SEC-ENT-100-MA	Security Supervisor Maintenance for 1 term
SEC-ENT-250-MA	Security Large System Maintenance for 1 term
Niagara Enterprise Security JACE 8000 application	
SEC-J8-AX	Niagara AX Security license for JACE 8000 controller. Includes licensing for 32 readers (not included in capacity). And JACE 8000 Niagara AX license option. (JACE-8000-AX). Does not include JACE 8000 controller.
Niagara Security JACE accessories	
T-SEC-R2R	Security module for 2 Readers/Access doors and 2 digital inputs
T-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
T-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.
T-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.
T-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 602/616 video drivers	
DR-AXS-AX-4	Axis IP camera driver for 4 cameras
DR-DED-AX-4	Dedicated Micros video driver for 4 cameras
DR-MLS-AX-4	Milestone video driver for 4 cameras
DR-RPD-AX-4	Honeywell RapidEye™ video driver for 4 cameras
Access control integration drivers	
DR-ISOM	Driver for Easy Lobby Visitor Management System on Niagara Security JACE. Does not include Easy Lobby Visitor Management Software.
DR-LDAP	Provides interface to integrate the Niagara Security JACE card holder database to Active Directory/LDAP. Custom configuration of LDAP/Active Directory Database may be required.

TRIDIUM

SPECIFICATIONS

	Niagara Enterprise Security Supervisor	T-SEC-J-602/616, JACE-8000
Personnel	1,000,000	20,000
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

AGENCY CERTIFICATIONS

T-SEC-J-602, T-SEC-J-616, T-SEC-R2R, T-SEC-RIO, T-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

COMPATIBILITY

Niagara AX 3.8u2 or later

• Niagara Security JACE 602/616 and the JACE 8000 support the Niagara Enterprise Security application

• Security JACEs must be at the same version as the enterprise server

• Standard (non-Niagara Security) JACEs must be at the same or earlier version as the enterprise server; 3.6u4, 3.7u1 and 3.8r and higher are supported

Microsoft® Sequal Server® and Sequal Server Express® 2003 – 2012

MySQL™: Verified with versions up to 5.7.9

Browsers: Internet Explorer® 10 and 11

Current versions of Google Chrome® and Mozilla Firefox® do not support views that require WbApplet

Java® Web Start version 8 Update 73 or later supports WbApplet views without browser support

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.

TRIDIUM

tridium.com

Locations and customer support, worldwide

Headquarters
North America
1 804 747 4771

Support
North America & Latin America
1 877 305 1745

Europe, Middle East & Africa
44 1403 740290

Asia Pacific
8610 5669 7148

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