

Niagara Enterprise Security Release 2.2



Overview

Tridium's Niagara Enterprise Security is a comprehensive access control and security management solution, built on a truly open, IP based platform. Developed using the Niagara^{AX} Framework, Enterprise Security provides unparalleled interoperability not only within traditional security environments, but also extends seamlessly to create a unified, intelligent building by integrating with today's diverse facility systems including environmental controls, lighting, energy management, fire and video.

With Niagara deployed worldwide, the core architecture of Niagara Enterprise Security is proven and designed to solve the complexities of integrating disparate systems in real world scenarios.

Niagara Enterprise Security provides scalability ranging from single door solutions to multi-building/multi-campus deployments. Entirely accessible from any standard web browser, the solution provides flexible anytime, anywhere access into the system, while liberating end users from dedicated client workstations in the traditional client /server model. Enterprise Security is open- open architecture, open framework, open distribution and open protocol support.

By integrating today's diverse building systems such as environmental controls, security, lighting, energy, fire and video, the Niagara^{AX} Framework is creating better buildings—ones that are smarter, use less energy, are more efficient, have lower operating costs, are safer and contribute to a sustainable environment.

Release 2.2 Features

- Truly open solution-connectivity via oBIX, BACnet, SNMP, Modbus, and other non-proprietary protocols
- Web based security application – easily managed via a standard browser anytime, anywhere
- Supports database connectivity to MS SQL Server 2003 and MySQL
- Distributed architecture provides high availability at remote locations
- Common GUI experience regardless of manufacturer or protocol
- Centrally managed card holder and credential database
- Integrated video solution with interfaces to many leading video manufacturers
- Multiple access cards per person
- Step-by-step Guided Wizard initial setup assistance
- Photo ID capture and display with custom ID badge design and printing
- View live video and photo ID as a function of card presentation to a reader in a single view.
- Alarm console supports simultaneous viewing of both live and recorded video when alarm events are selected.
- Extensive support for threat management via hierarchically organized active threat level groups which can impact door lock down and access right assignment policies.
- Monitor and alarm on non-security related events such a temperature, pressure and other analog sensor inputs
- UL-294 and CE listed systems available (Models T-SEC-201 and T-SEC-601)
- All-in-one controller that provides access control, HVAC and video from single device (Model T-SEC-J-601 only)

- Built on Tridium's highly successfully Niagara^{AX} Framework, the industry's leading building automation software platform
- Comprehensive occupancy restriction rules through access zone functionality
- Supervisor rule enforcement
- Occupancy counting
- Scheduled unlock on first validation
- Elevator control
- Live credential enrollment from any card reader

Application Highlights

Enterprise Level Browser Based System

Tridium's Niagara Enterprise Security solution is built from the ground up on web enabled technologies. Complete system functionality, system configuration and monitoring are available anytime, anywhere from any standard browser interface removing the PC requirements present in traditional client/server architectures.



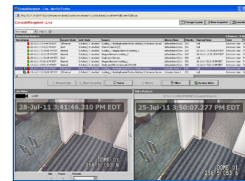
Video and Graphics Support

Complete integrated facility command and control from a common user experience. Accessible through any standard web browser, with real-time information from many different systems presented through an intuitive, easy-to-use interface. Also integrates video with access control, building automation and energy management.



Alarm and Activity Monitor

Comprehensive system-wide event viewer provides instant feedback on alarms, card access traffic, system administration changes and status updates on system arm/disarm. Search using a standard list of pre-defined reports or generate custom reports using powerful ad-hoc reporting capabilities. Alarm console provides simultaneous viewing of both live and recorded video associated with the alarm event.



Extensive Access Zone Management

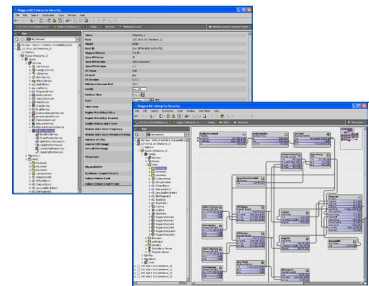
In addition to common access control functions, enterprise security includes comprehensive rule based access control through access zone management. The system provides one-click global lock down as well as supervisor rule enforcement, thereby restricting access to areas unless appropriate supervisory staff is present. The extensive occupancy counting functions allow access restrictions based on maximum and minimum number of occupants. Occupancy data can be used to automatically adjust building comfort controls by leveraging the extensive facility integration capabilities.



Powerful Integration Toolset

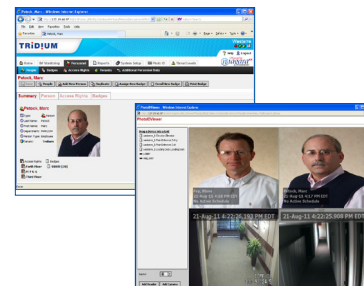
A comprehensive, integrated toolset is a fundamental part of the Niagara Enterprise Security offering. The graphical toolset enables non-programmers (domain experts) to extend the capabilities of the standard product.

Using the toolset, integrators can integrate Building Automation, Energy Management, Lighting Control and a wide range of custom solutions tailored to end user's needs — all while working in a powerful drag-and-drop, graphical programming environment.



Complete Web-based support for Photo ID capture and ID badge printing

Niagara Enterprise Security supports integration to the HID Asure ID photo ID processing software package for template design. Photo ID viewer supports simultaneous viewing of live video and photo ID in conjunction with card presentation to selected readers.



Ordering Information

Enterprise Security Server Applications

Name	Part Number	Description
Security Supervisor with MySQL and MS SQL	T-SEC-ENT	Security AX Supervisor bundled part includes Enterprise Security application with 32 reader license, both MySQL and SQL Server database. Supervisor limited to security JACEs only and cannot be licensed for BAS JACE connections or drivers. This is a platform for system up to 100 JACEs. Includes oBIX client/server driver for connecting to Niagara-based JACEs only.
Security Large System Supervisor with MySQL and MS SQL	T-SEC-ENT-64	Large system Security AX Supervisor bundled part includes Enterprise Security application with 32 reader license, both MySQL and SQL Server database. Supervisor limited to security JACEs only and cannot be licensed for BAS JACE connections or drivers. This is a platform for system up to 250 JACEs. Includes oBIX client/server driver for connecting to Niagara-based JACEs only.
Security Small Building Supervisor with MySQL and MS SQL	T-SEC-SBS	Security AX Small Building Supervisor bundled part includes Enterprise Security application with 32 reader license, both MySQL and SQL Server database. Supervisor limited to security JACEs only and cannot be licensed for BAS JACE connections or drivers. This is a platform for system up to 6 JACEs and 64 readers. Includes oBIX client/server driver for connecting to Niagara-based JACEs only.

Additional reader licenses to expand security server reader capacity or add Photo ID capture and badge printing

Name	Part Number	Description
16 Reader Pack	T-SEC-R-16	Expands enterprise security license by 16 readers.
64 Reader Pack	T-SEC-R-64	Expands enterprise security license by 64 readers.
256 Reader Pack	T-SEC-R-256	Expands enterprise security license by 256 readers.
1024 Reader Pack	T-SEC-R-1024	Expands enterprise security license by 1024 readers.
Photo ID Driver	DR-SEC-S-ASURE	Add support for photo ID badge processing utilizing the HID Asure ID photo software package. Each instance of this option allows connection of one Asure ID workstation to the Niagara Enterprise Security Supervisor. This driver product DOES NOT INCLUDE the HID Asure ID Software (SEC-ASURE-ID)
HID Asure ID Software	SEC-ASURE-ID	Asure ID 7 photo ID software for photo capture, printing and badge template design. This product REQUIRES the DR-SEC-S-ASURE driver to provide a single photo ID workstation.

Enterprise security upgrade part numbers for existing Tridium Supervisors

Name	Part Number	Description
Security SBS Upgrade	T-SEC-SBS-U	Security SBS upgrade. Removes 64 reader and 6 JACE connection limits. Supervisor requires additional reader licenses to expand system capacity.
Security ENT Upgrade	T-SEC-64-U	Security ENT upgrade. Upgrade and existing T-SEC-ENT Security AX Supervisor to a T-SEC-ENT-64 Large system Security AX Supervisor. Supervisor requires additional reader licenses to expand system capacity.
Security BAS Upgrade	T-SEC-BAS-U*	Upgrade security supervisor to allow BAS driver and connection functionality. Allows the addition of non-security controllers to be integrated into the same enterprise security supervisor.
Existing BAS Supervisor Upgrade to Enterprise Security with MySQL and MS SQL	T-SEC-ENT-U*	Base Enterprise Security software license to upgrade an existing AX Supervisor, including reader license for 32 readers, Enterprise Security application, and both MySQL and SQL Server database drivers. This option requires existing AX Supervisor software or Small Building Supervisor software.

* Note: These upgrades are recommended for facilities which require no more than 128 readers and 12 system JACEs total. Please see the user's manual section "Upgrade an existing AX 3.4 or later Supervisor to Enterprise Security" for complete application details.

Specifications

Maximum Number of	Enterprise Server	T-SEC-J-601	T-SEC-J-201
Personnel	1,000,000	20,000	5,000
Card Readers	10,000	32	16
Access Rights*	25,000	250	100
Schedules	1,500	100	25
Access Zones	25,000	50	10
Intrusion Zones	N/A	25	5
Intrusion Keypads	N/A	6	2
On-line Historical Records	50,000	7,500	500
Simultaneous System Users	25	10	5
Area Controllers	250	NA	NA

* The number of access rights assigned to an individual cardholder is limited to 15.

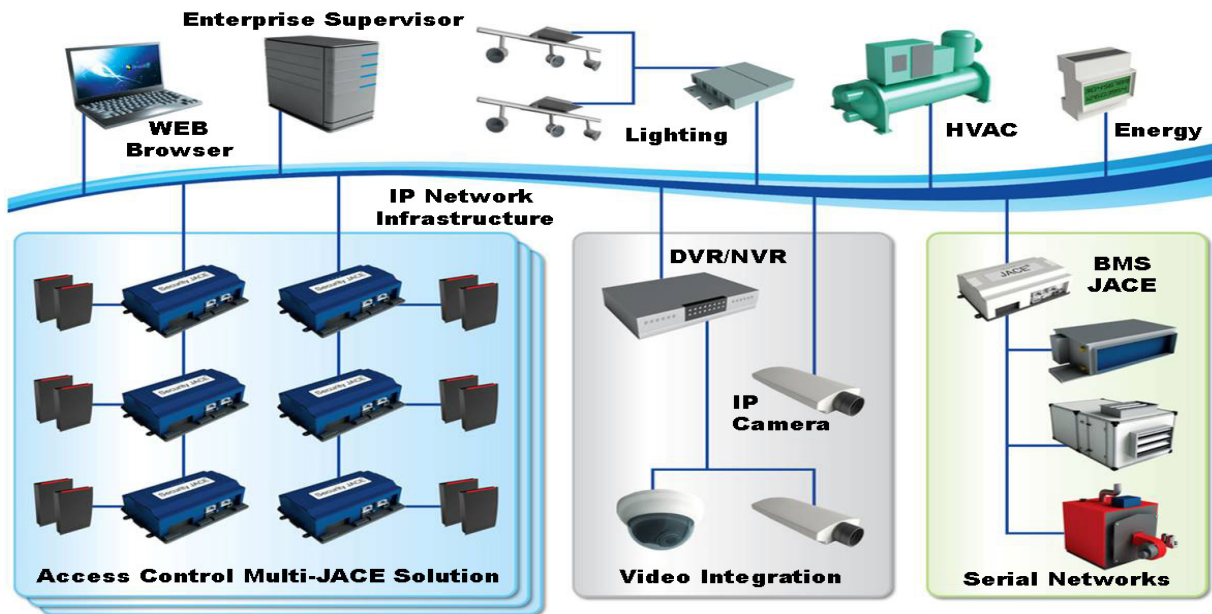
Server Platform Minimum Requirements

Component	Number of Controllers	
	1 to 100	More than 100
Processor	Pentium IV @ 2GHz	Core 2 Duo 2 GHz
Memory	4 GB	8 GB
Disk Capacity	250 GB	500 GB
Operating System	Windows XP or Windows Server 2008	Windows Server 2008 64Bit

Supported Databases:

- Default: MySQL; Optional: MS SQL Server 2003 or higher, Windows 7

Architecture



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