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VYKON Enterprise Security



Overview

VYKON 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, VYKON 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 VYKON Enterprise Security is proven and designed to solve the complexities of integrating disparate systems in real world scenarios.

VYKON 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. VYKON 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.

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
- Quick access to video playback related to individual alarm events
- UL-294 and CE listed systems available
- All-in-one controller that provides access control, HVAC, and video from single device
- Comprehensive occupancy restriction rules through access zone functionality
- Supervisor rule enforcement
- Occupancy counting
- Scheduled unlock on first validation
- Live credential enrollment from any card reader
- Elevator control

Application Highlights

Enterprise Level Browser Based System

VYKON Enterprise Security solution was 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.



Activity Monitor

Comprehensive system wide event viewer provides instant feedback on card access traffic, system administration changes and status updates on system arm/disarm. System activity is stored as historical data and can be retrieved through comprehensive built in reporting tools. Search using a standard list of pre-defined reports or generate custom reports using powerful ad-hoc reporting capabilities.



Extensive Access Zone Management

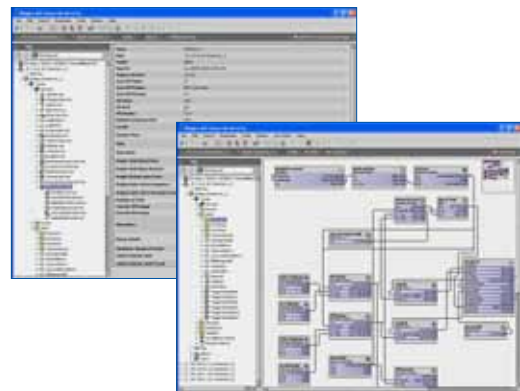
In addition to common access control functions, enterprise security includes comprehensive rule based access control through access zone management. The system provides one click global lock down as well as supervisor rule enforcement thereby restricting access to areas unless appropriate supervisory 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 VYKON 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 their end user's needs — all while working in a powerful drag-and-drop, graphical programming environment.



Ordering Information

VYKON Enterprise Security Server Applications

Part Number	Description
SEC-MYS	Security AX Supervisor bundled part. Includes enterprise security application with 32 reader license, security AX Supervisor and MySQL database driver. Supervisor limited to security JACEs and drivers only and cannot be licensed for BAS JACE connections or drivers. Platform for systems greater than 64 readers. Includes OBIX client/server driver for connecting to Niagara based controllers only.
SEC-SBS-MYS	Security AX Small Building Supervisor bundled part. Includes enterprise security application with 32 reader license, security AX Supervisor and MySQL database driver. Supervisor limited to security JACEs and drivers only and can not be licensed for BAS JACE connections or drivers. SBS limited to max of 6 security JACE connections and 64 readers. Includes OBIX client/server driver for connecting to Niagara based controllers only.
SEC-SQL	Security AX Supervisor bundled part. Includes enterprise security application with 32 reader license, security AX Supervisor and SQL database driver. Supervisor limited to security JACEs and drivers only and can not be licensed for BAS JACE connections or drivers. Platform for systems greater than 64 readers. Includes OBIX client/server driver for connecting to Niagara based controllers only.
SEC-SBS-SQL	Security AX Small Building Supervisor bundled part. Includes enterprise security application with 32 reader license, security AX Supervisor and SQL database driver. Supervisor limited to security JACEs and drivers only and can not be licensed for BAS JACE connections or drivers. SBS limited to max of 6 security JACE connections and 64 readers. Includes OBIX client/server driver for connecting to Niagara based controllers only.

Additional reader licenses to expand security server reader capacity

Part Number	Description
SEC-R-16	Expands enterprise security license by 16 readers.
SEC-R-64	Expands enterprise security license by 64 readers.
SEC-R-256	Expands enterprise security license by 256 readers.
SEC-R-1024	Expands enterprise security license by 1024 readers.

Enterprise security upgrade part numbers for existing Tridium Supervisors

Part Number	Description
SEC-SBS-U	Security SBS upgrade. Removes 64 reader and 6 JACE connection limits. Supervisor requires additional reader licenses to expand system capacity.
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.
SEC-ENT-MYS	Base enterprise security software license to upgrade an existing AX Supervisor, including reader license for 32 readers, enterprise security application and MySQL database driver. Requires AX Supervisor software or small building AX Supervisor software.
SEC-ENT-SQL	Base enterprise security software license to upgrade an existing AX Supervisor, including reader license for 32 readers, enterprise security application and SQL database driver. Requires AX Supervisor software or small building AX Supervisor software.

Specifications

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

Information and specifications published here are current as of the publication date of this document.

Server Platform Minimum Requirements

Component	Number of Controllers	
	1 to 250	251+
Processor	Pentium IV @ 2GHz	Core 2 Duo 2 GHz
Memory	2 GB	4 GB
Disk Capacity	100 GB	250 GB
Operating System	Windows XP	Windows XP 64 or Linux 64

Additional Specifications

Supported Databases:

- Default: MySQL
- Optional: MS SQL Server 2003 or higher

Certified Web Browsers

- IE 6.0, Firefox 2.0

Java VM version - 1.5.0 or higher

Architecture



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