



VYKON Enterprise Security 2.2 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 and video.

# VYKON Enterprise Security Release 2.2



## Overview

VYKON'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<sup>AX</sup> 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 and video.

With Niagara deployed worldwide, the core architecture of 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. 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<sup>AX</sup> Framework is creating better buildings—buildings 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 nonproprietary protocols
- Web based security application – easily managed via a standard browser anytime, anywhere
- Open framework solution for connectivity to edge devices
- Distributed architecture provides robust system performance and reliability
- Common GUI experience regardless of manufacturer or protocol
- Centrally managed card holder and credential database
- Integrated video solution with interfaces to leading video manufacturers
- Photo ID capture and display with custom ID badge design and printing
- Intuitive graphical user interface
- Trigger live video streams and personnel photo as a function of card presentation 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.
- Seamless integration of diverse systems provides a consistent user experience for viewing and monitoring system events
- UL-294 and CE listed systems (Models SEC-201 and SEC-601)

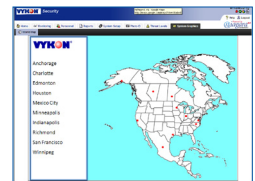


- All-in-one controller that provides access control, HVAC and video from a single device (Model SEC-J-601 only)
- Built on Tridium's highly successfully Niagara<sup>AX</sup> Framework, the industry's leading building automation software platform
- Comprehensive occupancy restriction rules through access zone functionality
- Support for multiple standard and user configured Wiegand card formats
- Configurable Reports that can be exported or sent automatically via email
- Scheduled unlock on first validation
- Multi-level elevator control
- Live credential enrollment from any card reader

## Application Highlights

### Enterprise Level Browser Based System

VYKON's 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.



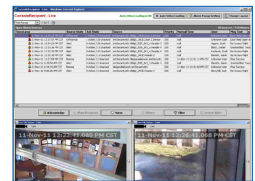
### Video and Graphics Support

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.



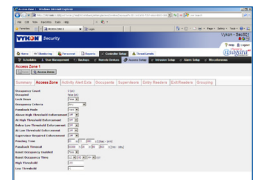
### Activity Monitor

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.



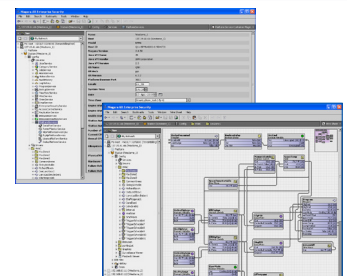
### Extensive Access Zone Management

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.



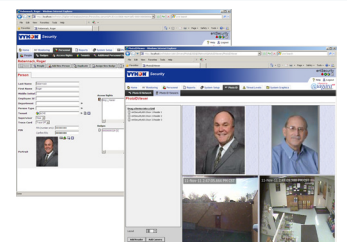
### Powerful Integration Toolset

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.



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

VYKON 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

### VYKON Enterprise Security Server Applications

| Name   | Part Number | Description  |
|--|-------------|--|
| Security Supervisor with MySQL and MS SQL                | 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. License option SEC-BAS-U adds BAS JACE connectivity. 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   | SEC-ENT-64  | Large 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. License option SEC-BAS-U adds BAS JACE connectivity. 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 | 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. License option SEC-BAS-U adds BAS JACE connectivity. 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

| Name                  | Part Number    | Description  |
|-----------------------|----------------|--|
| 16 Reader Pack        | SEC-R-16       | Expands enterprise security license by 16 readers.   |
| 64 Reader Pack        | SEC-R-64       | Expands enterprise security license by 64 readers.   |
| 256 Reader Pack       | SEC-R-256      | Expands enterprise security license by 256 readers.  |
| 1024 Reader Pack      | 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 VYKON Supervisors

| Name   | Part Number | Description   |
|--|-------------|---|
| Security SBS Upgrade   | 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   | SEC-64-U    | Security ENT upgrade. Upgrade and existing SEC-ENT Security AX Supervisor to a SEC-ENT-64 Large system Security AX Supervisor. Supervisor requires additional reader licenses to expand system capacity.  |
| Security BAS Upgrade   | 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 | 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 | SEC-J-601 | SEC-J-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           | 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                                     | 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, Windows 7 or Windows Server 2008 | Windows Server 2008 64Bit |

### Supported Databases:

- MySQL or MS SQL Server 2003 or higher

### Supported Browsers

Mozilla Firefox™ or Internet Explorer™ 5.0 or later

## Architecture

