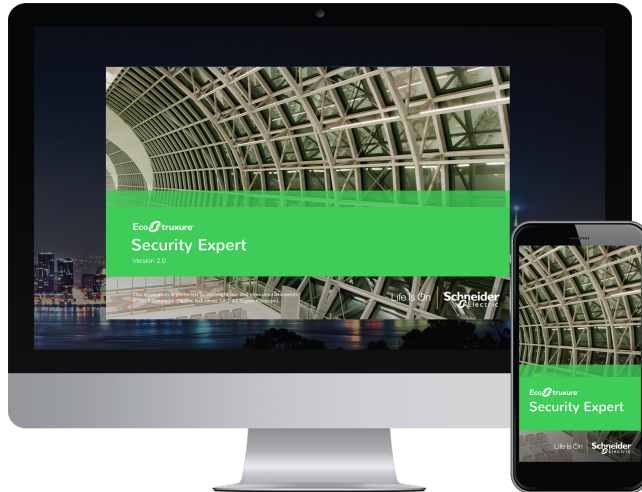# EcoStruxure Security Expert

EcoStruxure Security Expert is an enterprise level integrated access control, intrusion detection and building automation solution with a feature set that is easy to operate, simple to integrate and effortless to extend.

Designed around the end user's needs with an intuitive and user friendly interface, Security Expert is loaded with features that enhance the system further and provide true benefit to any organization.

Integrated Access Control, Intrusion Detection and Building Automation

Using a single system for access control, intrusion detection and building automation not only saves money on the installation, the features it unlocks can lead to improved staff safety, a more user friendly system that is more efficient to operate, and of course a higher level of security.

Flexible System Architecture

The server based architecture makes Security Expert a truly global system, enabling you to securely manage, control and monitor a scalable number of users, doors, areas, and other devices in real time regardless of geographical location. A centralized database improves efficiency and keeps your valuable sensitive data secure - not tucked away on a laptop in the back of a company vehicle.

DIN Rail controllers provide field intelligence, ensuring that independent site operation is not reliant on connectivity with the server. With controllers able to be added to a Security Expert system to meet the needs of the site, scalability is a key focus.

Modular expansion supports system expansion from each controller. This flexibility allows both centrally located, 'home run' control and 'at the edge' intelligence models to be mixed and matched to best fit the application.

Targeted Information

Customizable alarm and event filters enable you to sort and filter what and how information is displayed to an operator. Filtering the noise and showing only what is relevant improves efficiency and ensures an accurate response to incidents.

- Create event filters that match a particular record or event type
- Filter status lists by status, such as open doors or armed areas
- Color code event types to make particular events stand out to the operator
- Include user images inside event and alarm status pages

Floor Plans

Graphical floor plans provide a visual representation of your site and are a quick and efficient way to control and monitor your Security Expert system. You can quickly arm and disarm areas, control doors and outputs, and view input status and live variable information.

- Associate graphical icons with devices to control and monitor the system
- Include buttons for navigating between floor plans and live camera feeds, creating a familiar browser like feel
- Display the real time status of devices and objects on your system
- Using event filters and alarms, jump to a floor plan based on an alarm condition or trigger

Status Pages

Fully customizable status pages provide an intuitive graphical interface that minimizes the learning curve, allowing new users to get up to speed quickly.

The flexible design enables you to include the content relevant to your site, providing a site-wide overview or allowing you to drill down to show more detail. Include any combination of:

- Status lists that dynamically update to display the real time status of attached devices
- Floor plans that display a visual representation of the site and the real time status of devices
- Live video feeds from an integrated DVR/NVR camera
- Event reports filtered to include only the events you wish to view
- Web pages displaying the contents of a defined website or locally stored HTML page
- Muster reports* that provide a 'live pegboard' view of all users within a specified area

* Optional licensed feature.

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Easy

Easy to Operate

Designed with the end user in mind, Security Expert offers an intuitive and user friendly interface for controlling and monitoring your system. Customizable alarm and event filters enable you to sort and categorize event and alarm data to display information relevant to your unique site and setup.

Comprehensive Reporting

The information you need has never been more accessible. With a comprehensive built in reports and the ability to create uniquely defined custom reports, Security Expert offers a commanding range of reporting capabilities, including scheduling reports to be generated automatically and sent to defined users via email. Report types include:

- User reports that contain detailed information on the users or cardholders in your system. At the push of a button, quickly determine information such as which users have access to selected doors, have triggered defined events, or have cards due to expire.
- Event reports that enable you to view exactly what is happening within the system with ease. Events are categorized for easy identification and details can be readily filtered to show only relevant events.
- Attendance reports* that make it easy to track and monitor staff movements on site, assisting with payroll and HR management. View summary pages and detailed reports of employee time and attendance with pinpoint accuracy.
- Muster reports* that enable you to generate lists of all users for specified areas within the system. Utilizing the entry and exit readers associated with a door, the report creates a list of users that are present when the report is generated.

* Optional licensed feature.

Report Filtering

Powerful filtering and flexible reporting options enable you to quickly and easily obtain detailed and relevant event information. The grid view reporting tool makes generation of custom reports a fast and efficient process:

- Live filtering as you type
- Custom complex filters
- Drag and drop to order columns
- Print, save and email directly from the software
- Export reports to a wide range of formats including PDF, HTML, XLS, and CSV

Integrations

An impressive array of 'off the shelf' integrated third party systems ensures Security Expert products add value to the existing technology and infrastructure investments already on site.

- Video management systems
- Wireless locking solutions
- Safe and ATM locking systems
- Elevator systems
- Intercom systems
- Building management systems
- Biometric access control systems

Custom integration tools are also available, allowing you to utilize your own experts to tailor a solution that meets your exact unique needs.

Integrations may require purchasing a specific integration license.

Licensing

Security Expert offers two distinct license packs and a flexible licensing model that reduces barriers to entry and scales as sites expand.

Starter License

The Security Expert Starter License is designed to make implementation more cost-effective.

This option is ideal for smaller organizations who want to adopt an enterprise-level solution while maintaining the flexibility to expand their Security Expert system as their site grows.

The Starter License comes with 32 Doors and is limited to 100 Doors. To license more than 100 Doors, you must upgrade to a Standard License.

Standard License

The Security Expert Standard License is ideal for large organizations with greater system requirements.

The Standard License also adds Calendar Actions and Email on Event features.

In order to integrate high level elevator controls of any kind, you must purchase the Standard License.

Feature Comparison

Both license packs include powerful reporting capabilities, CCTV integration, customizable status pages, graphical floor plans, and no restrictions on the number of users, events, schedules, areas, or hardware expansion modules.

The following table indicates the features and scope included in each license. For information on how to expand the functionality and size of your system, refer to the *Optional Features* section of this document.

Functionality	Starter License	Standard License
Concurrent Client Connections	1	1
Doors *	32	50
Sites	Unlimited	Unlimited
Controllers	Unlimited	Unlimited
Users	Unlimited	Unlimited
Third-party RS-485 readers	Unlimited	Unlimited
Cameras	1	1
Calendar Actions Feature	Not Enabled	Enabled
Email on Event Feature	Not Enabled	Enabled
SOAP Web Service Feature	Enabled	Enabled
Web Client Feature	Enabled	Enabled
Web Operators	3	3

* wireless locks are considered doors and are included in the doors total.

Both license packs allow for any of the third-party integrations noted in the *Optional Features* section, except high level elevator integrations. To integrate high level elevator controls, you need the standard license.

Additional license extensions come in specified quantities. For example, additional door licenses can be purchased in either 10 or 50 door increments.

Upgrading Licenses

To implement additional functionality beyond the specifications of the Starter License, you must upgrade to the Standard License. To upgrade your license pack, use the order item: SX-SRVR-ST-UG.

License Caps

License caps protect enterprise customers from runaway licensing costs.

- Doors are capped at 1,000. Once your system exceeds 1,000 doors you do not need to purchase additional door licenses.
- Cameras are capped at 500. Once your system exceeds 500 cameras you do not need to purchase additional camera licenses.

Site Example	License Requirements
	Starter license
3 concurrent operator logins	2 additional client connection licenses
40 doors	1 Security Expert 10 door license
10 cameras	1 Security Expert 10 camera license
	Standard license
5 concurrent operator logins	4 additional client connection licenses
125 doors	2 Security Expert 50 door licenses
501 cameras	10 Security Expert 50 camera licenses

System Requirements

System hardware and operating system requirements are dependent on system design, including installation size and communication requirements. Use the performance specifications appropriate to your installation.

Please refer to the following documents for more detailed information regarding recommended system architectures and requirements.

- Security Expert architecture guidelines
- System Networking Administrator Guide
- Security Expert Installation Manual
- Security Expert Transition Guides

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Optional Features

Optional features and a flexible licensing model mean that you can add functionality as your needs change. Flexible license packs are available for doors, cameras, and many other features and integration packages, enabling you to easily extend your system as your business grows.

Product Code	Description
Security Expert Software Extensions	
SX-CLNT	**Security Expert Client License**: Provides an additional concurrent operator (thick client) connection.
SX-WEB-OPR	**Security Expert Operator License**: Provides an additional web operator connection.
SX-DB-SYNC	**Security Expert Data Sync Service License**: Enables synchronization of user data from third party systems used for visitor management, HR management, gyms and fitness centers, freight/delivery, and education.
SX-AD-OPR	**Security Expert Active Directory Operator Integration License**: Enables operators to log in to Security Expert automatically using their Windows credentials, providing centralized authentication and the convenience of single sign-on.
SX-AD-USR	**Security Expert Active Directory User Integration License**: Enables organizations to automatically create and maintain Security Expert users based on a defined Windows Active Directory security group.
SX-DOR-10	**Security Expert 10 Door License**: Increases the number of licensed doors on the Security Expert server by an additional 10 doors.
SX-DOR-50	**Security Expert 50 Door License**: Increases the number of licensed doors on the Security Expert server by an additional 50 doors.
SX-SIP-10	**Security Expert 10 SIP Station License**: Licensing for 10 Security Expert VoIP intercom stations per SX-SRVR instance. Each licensed VoIP station is able to make calls to Security Expert client workstations, and operate as master intercom through the workstation user interface.
SX-VIM	**Security Expert Visitor Integration Module License**: Enables organizations to register and track visitors directly from the Security Expert interface, eliminating the need for a separate visitor management system.
SX-MUST	**Security Expert Muster Report License**: Allows organizations to create muster reports to quickly identify who is in a defined area by listing all users that have entered and/or exited via the readers associated with a door.
SX-TNA	**Security Expert Time and Attendance License**: Allows organizations to create time and attendance reports that utilize the access data from Security Expert to provide information on the in-and-out movements of staff, assisting with payroll and HR management.
SX-SOAP-SDK	**Security Expert SOAP Web Service Software Development Kit**: Provides a simple way to access Security Expert via a web platform. Build your own application with a customized interface, or integrate with a physical device to unlock doors and disarm areas. Compatible across multiple platforms/operating systems. Use of the SOAP SDK requires signing a non-disclosure agreement.

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Features marked with an asterisk ***** are not supported by the starter license. An upgrade to a standard license is required to implement these optional features.

Product Code	Description
Security Expert Integration Licenses	
SX-CAM-10	**Security Expert 10 Camera License**: Additional 10 cameras, standalone or for use with supported DVR/NVR systems.
SX-CAM-50	**Security Expert 50 Camera License**: Additional 50 cameras, standalone or for use with supported DVR/NVR systems.
SX-CAM-UN	**Security Expert Unlimited Camera License**: Unlimited cameras, standalone or for use with supported DVR/NVR systems.
SX-TPR-IF	**Security Expert Third-Party Reader Interface License**: Enables integration of third-party card readers and other identification devices over ethernet or the generic reader interface. A license is required for each smart reader configured.
SX-BIO-SP	**Security Expert Suprema Biometric Integration License**: Allows the use of Suprema BioEntry devices for access control directly within Security Expert. One license is required for each Suprema reader that is connected to the system.
SX-BIO-PR	**Security Expert Princeton Identity Biometric Integration License**: Allows integration with the Princeton Identity system for user identification and integrated access control. One license is required for each Princeton Identity reader that is connected to the system.
SX-DOR-ALG	**Security Expert Allegion IP Wireless Door License**: Enables the connection of a supported Allegion wireless door to a system controller. A license is required for each connected wireless door. Requires a compatible RS-485 Allegion Hub.
SX-DOR-AP	**Security Expert Aperio Wireless Door License**: Enables the connection of a supported Aperio wireless door to a system controller. A license is required for each connected wireless door. Requires a compatible RS-485 Aperio Hub
SX-DOR-DSR	**Security Expert ASSA ABLOY DSR Door License**: Enables the connection of a supported ASSA ABLOY DSR system door to a system controller. A license is required for each connected IP-enabled door lock.
SX-DOR-IP	**Security Expert Salto SHIP Door License**: Enables the connection of a supported Salto SHIP wireless door to a system controller. A license is required for each connected wireless door. Requires a compatible RS-485 Salto IP Hub.
SX-DOR-SL	**Security Expert Salto SALLIS Door License**: Enables the connection of a supported Salto SALLIS wireless door to a system controller. A license is required for each connected wireless door. Requires a compatible RS-485 Salto Sallis Hub.
SX-VING-HLI	**Security Expert ASSA ABLOY VingCard Integration License**: Enables integration with the VingCard VisiOnline system.
* SX-ELV-HLI-KN	**Security Expert KONE Elevator High Level Interface License**: Enables integration with new or existing HLI KONE elevator systems. One license is required per KONE destination server to be integrated with Security Expert.
* SX-ELV-HLI-MCE	**Security Expert MCE Elevator High Level Interface License**: Enables integration with new or existing HLI MCE elevator systems. One license is required per MCE destination server to be integrated with Security Expert.
* SX-ELV-MLI-OT	**Security Expert Otis Elevator Medium Level Interface License**: Enables integration with new or existing MLI Otis elevator systems. One license is required per Otis destination server to be integrated with Security Expert.
* SX-ELV-HLI-OT	**Security Expert Otis Elevator High Level Interface License**:

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Product Code	Description
	Enables integration with new or existing HLI Otis elevator systems. One license is required per Otis destination server to be integrated with Security Expert.
* SX-ELV-EMS-OT	**Security Expert Otis Elevator Management System License**: Enables integration with new or existing EMS Otis elevator systems. One license is required per Otis destination server to be integrated with Security Expert.
* SX-ELV-HLI-SC	**Security Expert Schindler Elevator High Level Interface License**: Enables integration with new or existing HLI Schindler PORT Technology elevator systems. One license is required per Schindler PORT destination server to be integrated with Security Expert.
* SX-ELV-HLI-TK	**Security Expert ThyssenKrupp Elevator High Level Interface License**: Enables integration with new or existing HLI ThyssenKrupp elevator systems. One license is required per ThyssenKrupp destination server to be integrated with Security Expert.
SX-KW-TOUCH	**Security Expert KeyWatcher TOUCH High Level Interface License**: Enables KeyWatcher TOUCH server integration with Security Expert, allowing management of users, operators, schedules and access levels in KeyWatcher cabinets from Security Expert.
SX-CIC-KEYSECURE	**Security Expert CIC Technology KeySecure High Level Interface License**: Enables KeySecure server integration with Security Expert, allowing management of users, schedules and access levels in C.Q.R.iT cabinets from Security Expert.
SX-RED	**Security Expert REDWALL IP Detector License**: Enables integration with Optex Redwall laser scan detectors.

Third-Party Reader Interface License

The Security Expert Third-Party Reader Interface License enables you to integrate your Security Expert system with a wide range of non-standard reader devices. Any component that can send identification data to the controller over an ethernet connection can be used in place of a card reader - such as IP cameras in a license plate recognition system. They also allow you to connect with some third-party card readers, saving the time and expense of replacing cards and readers when transitioning from legacy systems to Security Expert.

One Third-Party Reader Interface License is required per third-party reader connected.

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