

# Protege GX Integrated Access Control, Intrusion Detection and Building Automation



Protege GX 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, Protege GX is loaded with features that enhance the system further and provide true benefit to any organization.

## Feature Highlights

- > Integrated access control, intrusion detection and building automation
- > Flexible system architecture ensures operational redundancy and scalability
- > Graphical floor plans provide a visual representation of your site
- > Fully customizable status pages
- > Comprehensive reporting and powerful report filtering
- > Integrations with an extensive range of third-party systems add value to existing technology and infrastructure investment
- > Flexible licensing model helps sites to grow and expand
- > A comprehensive range of licensed inclusions and optional features enables easy customization to the unique needs of each site

## 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.

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## Flexible System Architecture

The server based architecture makes Protege GX 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 Protege GX system to meet the needs of the site, scalability is a key focus.

Modular expansion allows each controller to be extended up to 128 doors and 8000+ inputs and outputs . 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.

If that's not enough, free yourself from the tyranny of cables altogether with the Protege Wireless Lock range. Combine the security of the Protege GX system with the convenience of wireless locks for a truly flexible solution.

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## 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
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## Floor Plans

Graphical floor plans provide a visual representation of your site and are a quick and efficient way to control and monitor your Protege GX 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

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## 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 to Operate

Designed with the end user in mind, Protege GX 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.

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## 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, Protege GX 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.*

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## 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
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## Integrations

An impressive array of 'off the shelf' integrated third party systems ensures Protege GX 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

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

### Starter License

The Protege GX 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 Protege GX system as their site grows.

### Standard License

The Protege GX Standard License is ideal for large organizations with greater system requirements.

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

### Feature Comparison

Both license packs include powerful reporting capabilities, 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 *	10	50
Sites	1	Unlimited
Controllers	Unlimited	Unlimited
Users	Unlimited	Unlimited
Cameras	0	1
DVRs	N/A	Unlimited
Calendar Actions Feature	Not Enabled	Enabled
Email on Event Feature	Not Enabled	Enabled
SOAP Web Service Feature	Enabled	Enabled
Web Client Feature	Not Enabled	Enabled
Web Operators	0	3

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

Additional client, door and camera licenses can be purchased to extend the original configuration. These are only required when exceeding the quantity included in the site's current license.

A starter license will support up to 100 doors (wired or wireless), the features listed as 'Enabled' in the comparison table, and all integrations not marked with \* in the *Optional Features* section. For additional expansion, including camera integration, an upgrade to a standard license is required.

### 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: PRT-GX-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
3 concurrent operator logins 40 doors	Starter license 2 additional client connection licenses 3 Protege GX 10 door licenses
5 concurrent operator logins 105 doors  501 cameras	Standard license 4 additional client connection licenses 1 Protege GX 50 door license 5 Protege GX 1 door licenses 10 Protege GX 50 camera licenses

## 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
<b>Protege GX Software Extensions</b>	
PRT-GX-CLNT	<b>Protege GX Client License:</b> Provides an additional concurrent operator (thick client) connection.
PRT-GX-WEB-OPR	<b>Protege GX Operator License:</b> Provides an additional web operator connection.
PRT-GX-DB-SYNC	<b>ICT Data Sync Service License:</b> Enables synchronization of user data from third party systems used for visitor management, HR management, gyms and fitness centers, freight/delivery, and education.
PRT-GX-AD-OPR	<b>Protege GX Active Directory Operator Integration License:</b> Enables operators to log in to Protege GX automatically using their Windows credentials, providing centralized authentication and the convenience of single sign-on.
PRT-GX-AD-USR	<b>Protege GX Active Directory User Integration License:</b> Enables organizations to automatically create and maintain Protege GX users based on a defined Windows Active Directory security group.
PRT-GX-DOR-10	<b>Protege GX 10 Door License:</b> Increases the number of licensed doors on the Protege GX server by an additional 10 doors.
PRT-GX-DOR-50	<b>Protege GX 50 Door License:</b> Increases the number of licensed doors on the Protege GX server by an additional 50 doors.
PRT-GX-VOIP-10	<b>Protege GX 10 SIP Station License:</b> Licensing for 10 Protege GX VoIP intercom stations per PRT-GX-SRVR instance. Each licensed VoIP station is able to make calls to Protege GX client workstations, and operate as master intercom through the workstation user interface.
PRT-GX-VIM	<b>Protege GX Visitor Integration Module License:</b> Enables organizations to register and track visitors directly from the Protege GX interface, eliminating the need for a separate visitor management system.
PRT-GX-MUST	<b>Protege GX Muster Report License:</b> 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.
PRT-GX-TNA	<b>Protege GX Time and Attendance License:</b> Allows organizations to create time and attendance reports that utilize the access data from Protege GX to provide information on the in-and-out movements of staff, assisting with payroll and HR management.
PRT-GX-PHOTO	<b>Protege GX Photo ID License:</b> Allows operators to create and tailor custom photo ID templates and define the layout and information included on a user's card or label.
PRT-GX-SOAP-SDK	<b>Protege GX SOAP Web Service Software Development Kit:</b> Provides a simple way to access Protege GX 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. <i>Use of the SOAP SDK requires signing a non-disclosure agreement.</i>

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
<b>Protege GX Integration Licenses</b>	
* PRT-GX-CAM-10	<b>Protege GX 10 Camera License:</b> Additional 10 cameras, standalone or for use with supported DVR/NVR systems.
* PRT-GX-CAM-50	<b>Protege GX 50 Camera License:</b> Additional 50 cameras, standalone or for use with supported DVR/NVR systems.
* PRT-GX-VMS-MLSTN-30DR PRT-GX-VMS-MLSTN-99DR PRT-GX-VMS-MLSTN-100+DR	<b>Protege GX Milestone XProtect Bidirectional Integration License</b> Enables integration with Milestone XProtect, allowing operators to use Protege GX devices, events and alarms in the XProtect interface. One license is required per integrated system, alongside an annual care plan. There are three license tiers based on the number of Protege GX doors that will be synchronized to XProtect.
PRT-GX-TPR-IF	<b>Protege GX Third-Party Reader Interface License:</b> 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.
PRT-GX-SR-IF	<b>ICT RS-485 Smart Reader License:</b> Enables integration of third-party card readers over the RS-485 reader interface. A license is required for each smart reader configured. <i>Licenses are not required for OSDP readers.</i>
PRT-GX-BIO-SP	<b>Protege GX Suprema Biometric Integration License:</b> Allows the use of Suprema BioEntry devices for access control directly within Protege GX. One license is required for each Suprema reader that is connected to the system, alongside one annual care plan license per reader.
PRT-GX-BIO-PR	<b>Protege GX Princeton Identity Biometric Integration License:</b> 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.
PRT-GX-IDEMIA-20RD PRT-GX-IDEMIA-50RD PRT-GX-IDEMIA-51+RD	<b>Protege GX IDEMIA Integration License:</b> Allows integration with the IDEMIA MorphoManager system for user synchronization and biometric access control. One license is required for each integrated MorphoManager server, alongside an annual care plan. There are three license tiers based on the number of IDEMIA biometric readers that will be connected to Protege GX.
PRT-GX-DOR-ALEG	<b>Protege GX Allegion IP Wireless Door License:</b> 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.
PRT-GX-DOR-AP	<b>Protege GX Aperio RS-485 Wireless Door License:</b> 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 Aperio RS-485 hub.
PRT-GX-DOR-AP-IP	<b>Protege GX Aperio IP Wireless Door License</b> 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 Aperio IP hub.
PRT-GX-DSR-DOR	<b>Protege GX ASSA ABLOY DSR Door License:</b> 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.



Product Code	Description
* PRT-GX-DOR-IP	<b>Protege GX Salto SHIP Door License:</b> 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.
* PRT-GX-DOR-SL	<b>Protege GX Salto SALLIS Door License:</b> 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.
PRT-GX-INO	<b>Protege GX Inovonics IP Gateway License:</b> Enables integration with Inovonics wireless detection devices.
PRT-GX-VING-HLI	<b>Protege GX ASSA ABLOY VingCard Integration License:</b> Enables integration with the VingCard VisiOnline system.
* PRT-GX-ELV-HLI-KN	<b>Protege GX KONE Elevator High Level Interface License:</b> Enables integration with new or existing HLI KONE elevator systems. One license is required per KONE destination server to be integrated with Protege GX.
* PRT-GX-ELV-HLI-KNOF	<b>Protege GX KONE Office Flow License:</b> Enables high level integration with new or existing KONE Office Flow elevator systems. One license is required per KONE Office Flow server to be integrated with Protege GX, alongside an annual care plan.
* PRT-GX-ELV-HLI-MCE	<b>Protege GX MCE Elevator High Level Interface License:</b> Enables integration with new or existing HLI MCE elevator systems. One license is required per MCE destination server to be integrated with Protege GX.
* PRT-GX-ELV-MLI-OT	<b>Protege GX Otis Elevator Medium Level Interface License:</b> Enables integration with new or existing MLI Otis elevator systems. One license is required per Otis destination server to be integrated with Protege GX.
* PRT-GX-ELV-HLI-OT	<b>Protege GX Otis Elevator High Level Interface License:</b> Enables integration with new or existing HLI Otis elevator systems. One license is required per Otis destination server to be integrated with Protege GX.
* PRT-GX-ELV-EMS-OT	<b>Protege GX Otis Elevator Management System License:</b> Enables integration with new or existing EMS Otis elevator systems. One license is required per Otis destination server to be integrated with Protege GX.
* PRT-GX-ELV-HLI-SC	<b>Protege GX Schindler Elevator High Level Interface License:</b> 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 Protege GX.
* PRT-GX-ELV-HLI-TK	<b>Protege GX ThyssenKrupp Elevator High Level Interface License:</b> Enables integration with new or existing HLI ThyssenKrupp elevator systems. One license is required per ThyssenKrupp destination server to be integrated with Protege GX.
PRT-GX-KWI	<b>Protege GX KeyWatcher TOUCH High Level Interface License:</b> Enables KeyWatcher TOUCH server integration with Protege GX, allowing management of users, operators, schedules and access levels in KeyWatcher cabinets from Protege GX.
PRT-GX-KSI	<b>Protege GX CIC Technology KeySecure High Level Interface License:</b> Enables KeySecure server integration with Protege GX, allowing management of users, schedules and access levels in C.Q.R.iT cabinets from Protege GX.
PRT-GX-RED	<b>Protege GX REDWALL IP Detector License:</b> Enables integration with Optex Redwall laser scan detectors.

Product Code	Description
PRT-GX-BAC-CORE	<b>Protege GX BACnet Core Service License:</b> Enables BACnet integration with Protege GX, allowing monitoring and control of industry-standard building automation devices. The core service license covers the basic integration and the first 32 connected objects.
PRT-GX-BAC-PL32	<b>Protege GX BACnet 32 Object License:</b> Each license allows connection of an additional 32 BACnet objects beyond those provided by the core license.

## System Requirements

The following hardware requirements are shown in two sections based on the installation size and communication requirements. A standard system can operate on the machine recommended below; however a higher performance machine is recommended when using graphics, photo ID and automation features. Use the performance specifications appropriate to your installation.

### Standard Controller Installation

A standard Protege GX installation consists of up to 10 system controllers which communicate with up to 16 modules each. Controllers are connected over ethernet.

#### Server Hardware Requirements – Standard Installation

- > Intel® Dual Core Machine 2.8GHz
- > 4 GB RAM
- > 40 GB free disk space
- > Mouse / Keyboard
- > Ethernet 10/100MBs

*When communicating with remote sites, additional hardware may be required such as modems, fiber modems or routers. Please contact your local ICT team for support.*

### Multiple Controller Installation

A multiple controller installation consists of over 10 controllers, which may operate as multiple sites running individual controllers, or a single site running multiple controllers. Each controller may have up to 128 modules connected. The connection to the controllers may utilize any variety of communication mediums and can communicate independently or on demand.

For best performance, connect using an Ethernet 10/100Mbps connection or similar over a local LAN or WAN network.

#### Server Hardware Requirements – Multiple Controller

- > Intel® Quad Core, 2.8GHz or higher
- > 8 GB RAM
- > 100 GB free disk space
- > Mouse / Keyboard
- > Dual Ethernet 10/100MBs

*When the server machine is not used for local login with the Protege GX user interface, a lower performance video card configuration may be used.*

## Client Workstation Requirements

#### Recommended Hardware Requirements – Standard Client

- > Intel® Dual Core Machine 3GHz
- > 4 GB RAM
- > 40 GB free disk space
- > DirectX 10 Compatible Video Card
- > Mouse / Keyboard
- > Ethernet 10/100/1000MBs

*When performing graphics, photo ID and automation functions from the client workstation, a higher performance machine may be required to ensure that floor plans and photo identification tasks can operate.*

## Supported Operating Systems

Operating System	Edition	Architecture
Microsoft Windows Server 2022	Standard, Datacenter	64-bit
Microsoft Windows Server 2019	Standard, Datacenter	64-bit
Microsoft Windows Server 2016	Standard, Datacenter	64-bit
Microsoft Windows 11	Pro, Business, Enterprise	64-bit
Microsoft Windows 10	Professional, Enterprise	32 / 64-bit

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