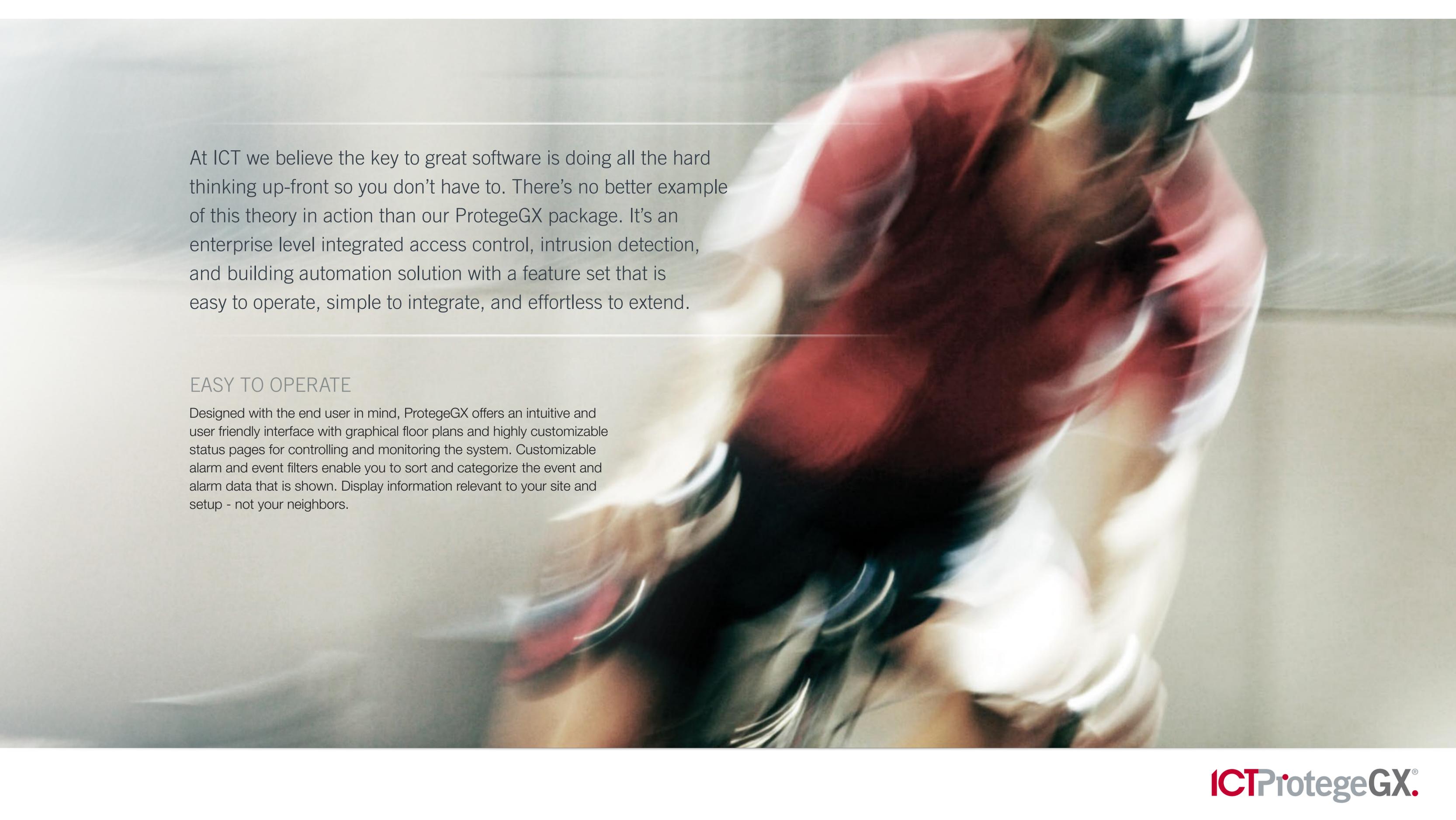


Enterprise level access control.

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At your fingertips.





At ICT we believe the key to great software is doing all the hard thinking up-front so you don't have to. There's no better example of this theory in action than our ProtegeGX package. It's 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.

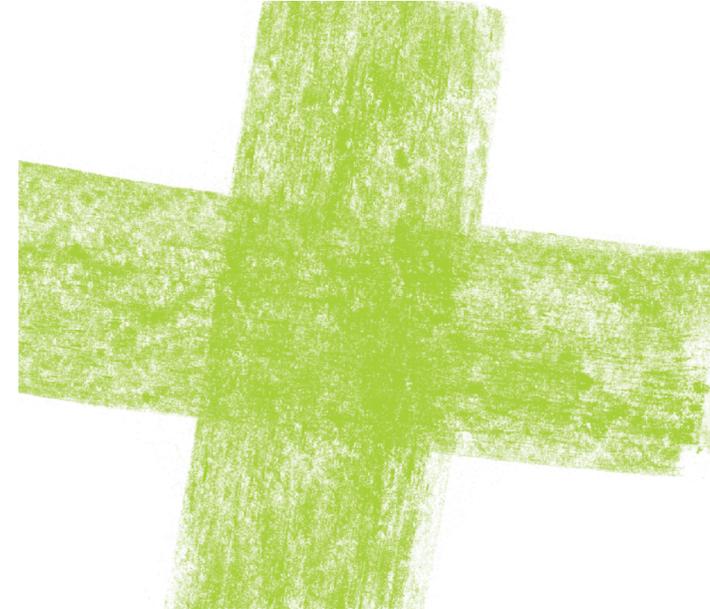
#### EASY TO OPERATE

Designed with the end user in mind, ProtegeGX offers an intuitive and user friendly interface with graphical floor plans and highly customizable status pages for controlling and monitoring the system. Customizable alarm and event filters enable you to sort and categorize the event and alarm data that is shown. Display information relevant to your site and setup - not your neighbors.



## SIMPLE TO INTEGRATE

Integration with a wide range of third party systems enables you to maximize the infrastructure and IT investments you already have available on site while adding value to existing technology. But we don't stop at off the shelf integrations. Our custom integration tools and use of open protocols give you the freedom to utilize your own experts to create custom integrations and tailor a solution that meets your exact needs.



## EFFORTLESS TO EXTEND

The modular design and scalable licensing model makes ProtegeGX suitable for everyone – from small single door systems right through to large multi-national corporations. Modular expansion allows the system to grow with you and proves to be very cost effective as you only add Expander modules and optional functionality as you need.

Faster. Smarter. Stronger.



Designed around the end users' needs, ProtegeGX is loaded with features that enhance the system further and provide true benefit to any organization.



## 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 system. You can quickly arm and disarm areas, control doors and outputs, and view input status and live variable information.

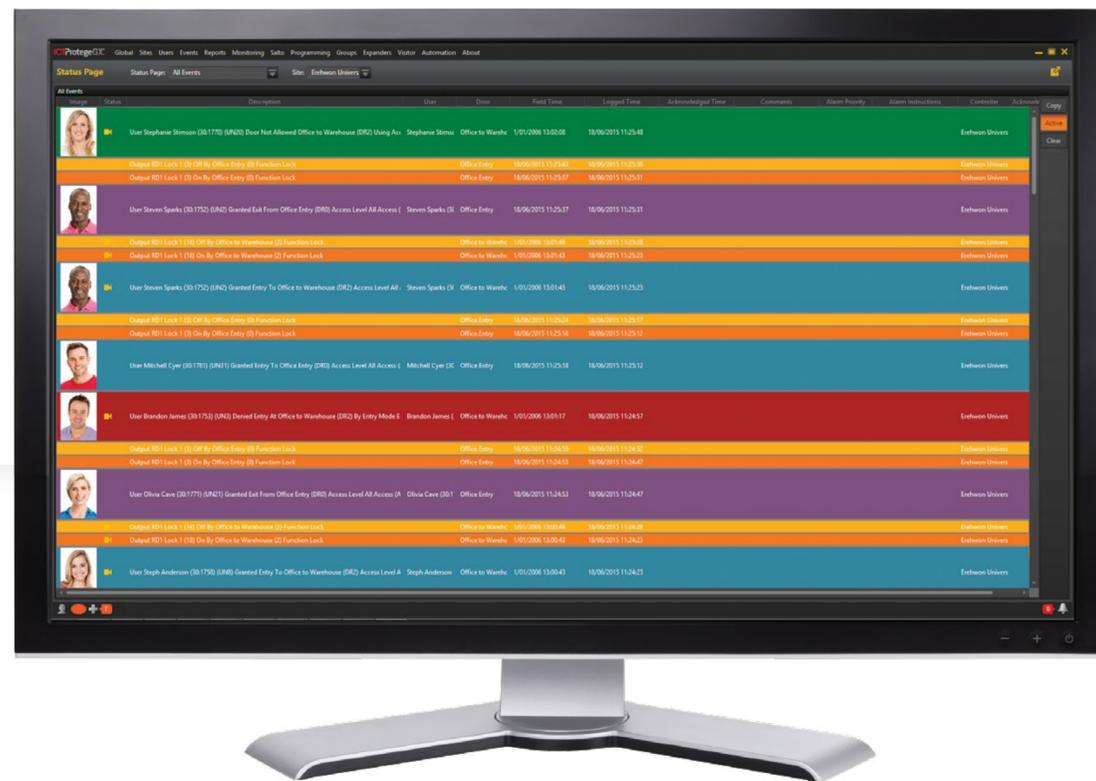
- Associate graphical icons with devices to control and monitor the system
- Drag and drop buttons to allow an easy browser like feel to navigate between floor plans and live camera feeds
- Display the real time status of devices and objects on your system
- Using event filters and alarms, you can jump 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, for a sitewide 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
- Variables that return information on changeable data such as room temperature or humidity levels
- 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



## 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 areas that are armed
- Event types can be color coded to make particular types of events stand out to an operator
- User images can be shown inside live event and alarm windows

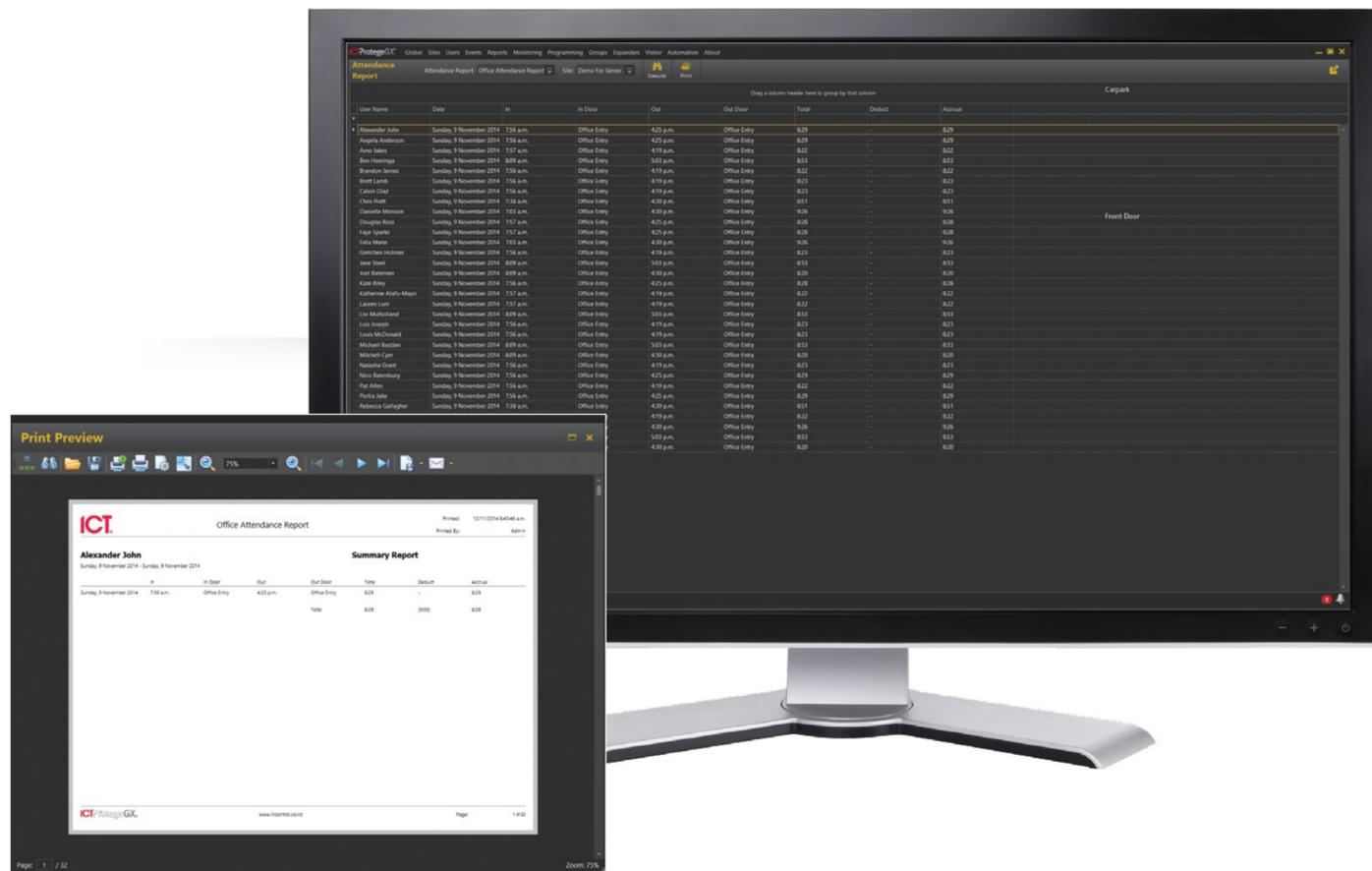


## REPORTS MADE ACCESSIBLE

Getting the information you need has never been easier or more accessible. With a comprehensive range of built in reports and the ability to create an unlimited number of custom reports, ProtegeGX offers a commanding range of reporting capabilities, and you can even generate reports automatically at scheduled times and have them sent to a defined user via email.

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
- Print, save and email directly from the software
- All reports can be exported to a wide range of formats including PDF, HTML, XLS, and CSV.





**Muster Reports** that enable you to generate a report that lists 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.

**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.

The features you need. Not the features you don't.

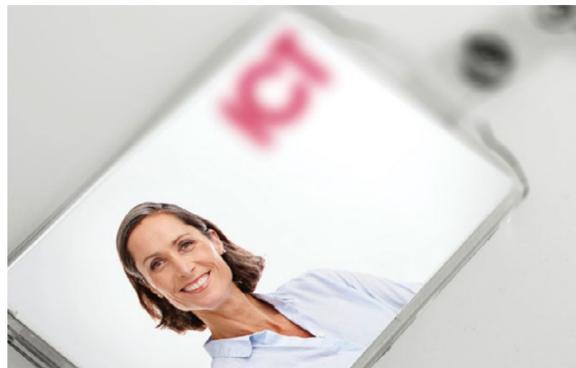


Business doesn't stand still, so you need a solution that can keep pace with your changing business requirements and scale with your organization. Optional features and a flexible licensing model, mean that you can add functionality as you need, without paying for the features you don't. Start with a package based on your requirements today, and add features as your needs change.



We don't charge for functionality that you'd expect to be part of any standard enterprise security system, and the base license comes packed with many extras including powerful reporting capability, CCTV integration, fully customizable status pages, graphical floor plans, and no limits on the number of users, events, schedules, areas, or hardware expansion.

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. Because we don't believe you should have to pay for a feature set you don't need.



### **PHOTO ID**

Proximity or smart cards hold information that controls a user's physical access to buildings and secure areas. Adding user details such as name, photo, signature and barcode to these cards, enhances security by adding a visual aspect to the identification. Photos are also displayed against the user events within Protege GX, enabling security personnel to quickly identify any discrepancies.



### **TIME AND ATTENDANCE**

Access Control systems control what users can do, where they can go, and when they can do it. They also record when these events occur, effectively allowing you to track and monitor staff movements on site. Time and Attendance reports eliminate the need for a separate timekeeping system by using the access data to provide information on the in and out movements of staff.



### **ACTIVE DIRECTORY**

Ninety percent of medium to large businesses use Active Directory services to provide centralized management of their servers, workstations, and users. Protege GX's Active Directory integrations provide synchronization and authentication for Active Directory users enabling these organizations to leverage on the user management and security policies that AD provides.



### **MUSTER REPORTS**

Knowing who's on site at any given time is a key requirement when it comes to complying with health and safety standards. Muster Reports allow you 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. These are ideal for creating an evacuation list when a fire alarm is triggered.



### **EMAIL ON EVENT**

When certain events occur, it can be important that the right people are notified quickly. The Email on Event feature allows you to send an email to a predefined user automatically when specific events are triggered. For example, emailing a muster report to the fire marshall when a fire alarm is activated, or notifying a building manager when access to a secure door is granted (or denied).



### **SIP STATION LICENSE**

Seamless integration between Protege GX and SIP compliant Intercom systems, provides a cohesive, full featured communication solution. Protege workstations can be configured to register as a SIP client, allowing direct communication with an IP intercom from within the GX interface.



### **CALENDAR ACTIONS**

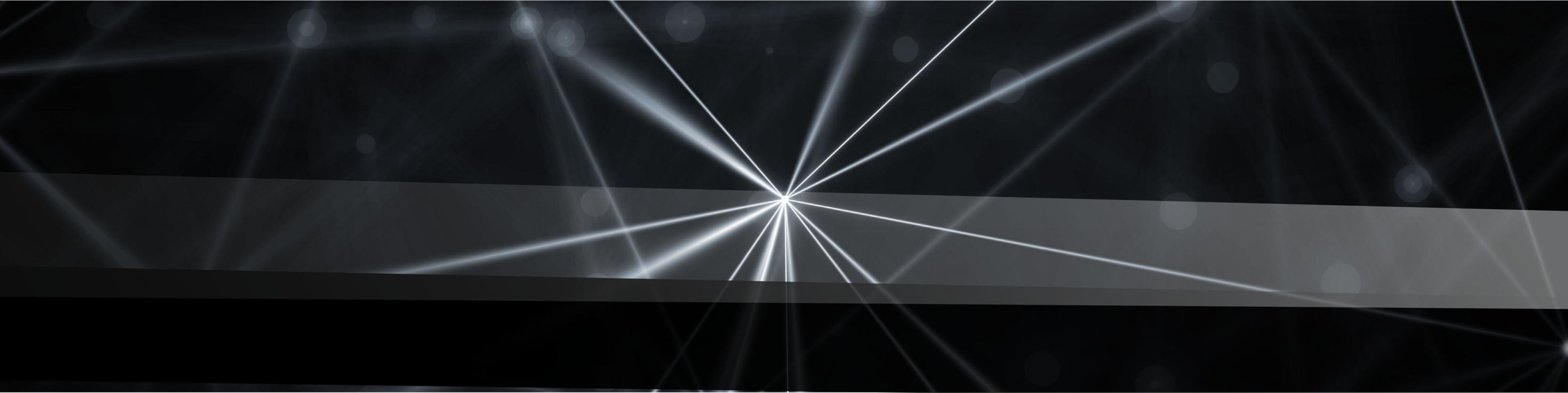
Sometimes things need to happen outside of regular scheduled hours – staff working overtime, contractors carrying out repairs after hours, or a special event where guests need access to certain areas of the premises. Whether it's a one-off event, or a recurring instance, calendar actions give you the flexibility to override previously programmed schedules – enabling you to unlock doors and activate lighting & HVAC outside standard hours.



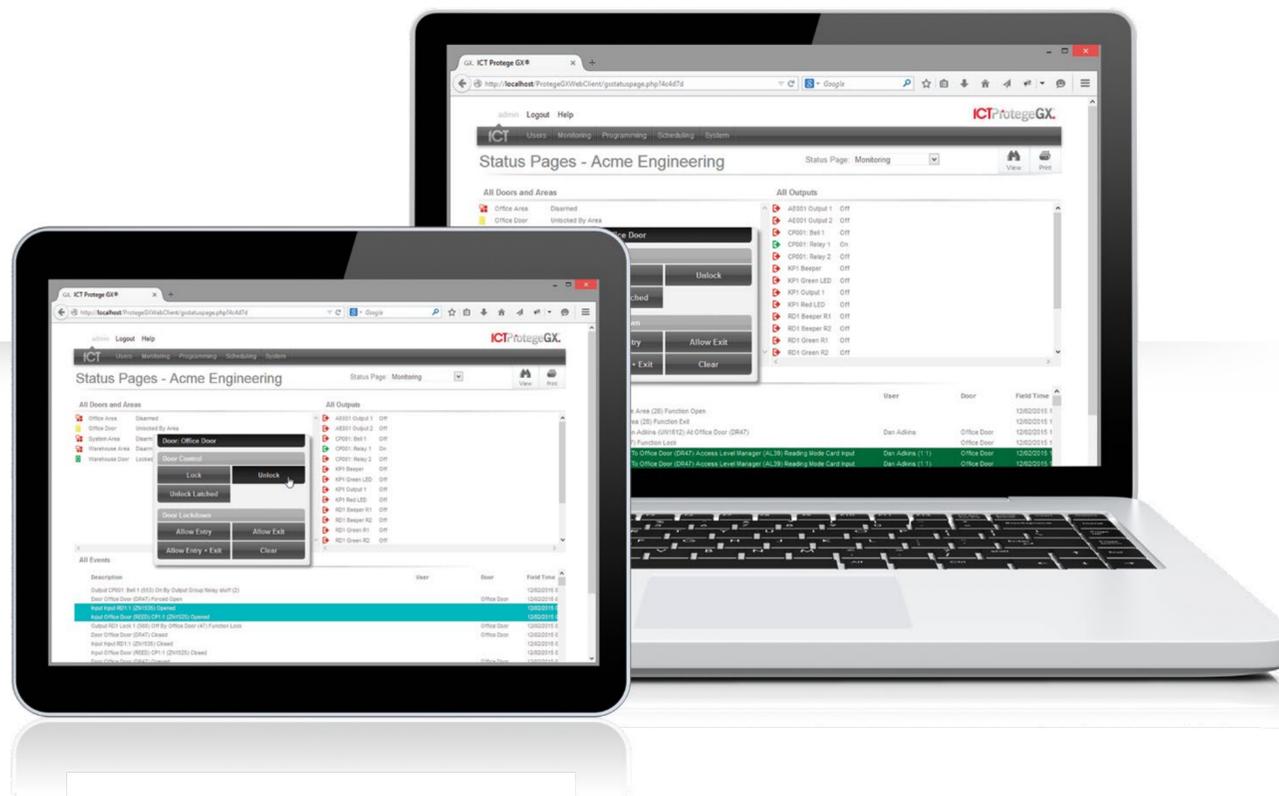
### **APARTMENTS**

Security is vital in the residential market, and in many cases can become a major selling point. Whether it's high end housing, gated communities or high-rise apartments, tenants need to feel protected without compromising on comfort and ease of access. The Apartments feature is used in conjunction with Protege keypads, offering residents all the benefits of an isolated intruder alarm system, while providing centralized control to the property manager.

Explore the freedom of web based access control.



With no software to deploy to end user PCs, the ProtegeGX Web Client is an optional licensed module that provides a truly cross-platform solution, working on any platform and any device with a modern web browser.



Wash your hands of dusty old desktop PCs with the freedom to monitor and control your sites from anywhere, at any time - the office, from home, or on the road. That freedom you've been waiting for.



### **UNIFIED INTERFACE**

Businesses can incorporate the web client into their intranet to build a single unified system that controls multiple applications from a single centrally managed location. With no software to deploy, setup and maintenance is kept to a minimum, while allowing the organization to scale usage as fast and as much as required without adding costly infrastructure.



### **SOFTWARE AS A SERVICE**

Integrators can use the web client to provide a Software as a Service (SaaS) model. With the ability to modify stylesheets to conform to corporate branding, and control the elements that are displayed to the end user, it's easy to build an interface tailored to the end user. With no software to install or maintain, and a central point of management, there's more time to focus on other things.



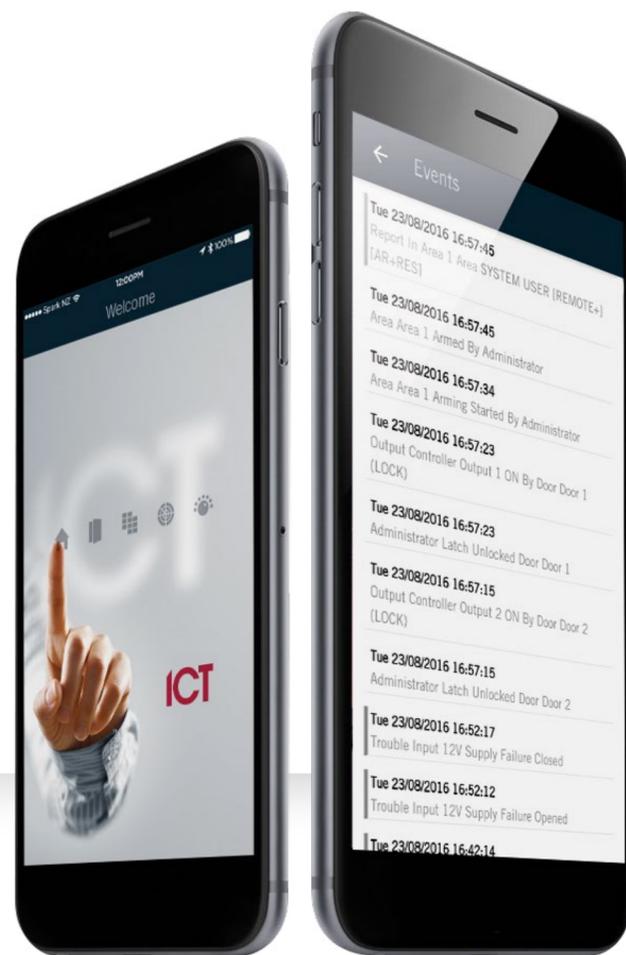
### **TENANTED BUILDINGS**

The web client provides an ideal solution for multi-tenanted buildings where each tenant has their own isolated network and where traditional software would be complicated and expensive to install. The web client uses the tenant's own internet connection, simplifying installation while allowing each tenant to manage and control their users, areas, access levels, and schedules.

Control. In the palm of your hand.



Use the Protege Mobile App to monitor and control your business while on the go, all from a touch of your smartphone. With the swipe of a finger you can connect to any of your sites, check the status, arm or disarm, control lights, locks, signage, heating – even cameras - from anywhere, at any time.



No more second guessing whether you set the alarm before you left the office – the app provides instant awareness of system status, and enables you to arm or disarm with a simple tap. Fumbling for your access card becomes a thing of the past as you can use your phone to unlock and open the door. A couple more taps and you have the heating and lights turned on, transforming a cold, dark, unwelcoming office into a warm and inviting environment.

Subscribe to push notifications\* to receive alerts of system or sensor activity. As a business owner you get peace of mind to see the system is disarmed at the start of the day, and rearmed when everyone goes home. And of course, you're alerted instantly to any alarms.

\*Charges may apply. Refer to the terms and conditions for full details.

Two systems. One solution. More value.


$$1 + 1 = 2$$

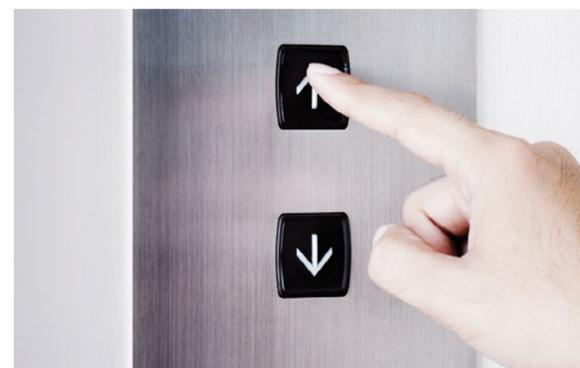
A key aspect to the ICT philosophy is the ability to integrate with other systems, and our open technology focus ensures our products provide a comprehensive solution with features and advantages that allow you to obtain the greatest benefit from an ICT system or component.

An impressive array of 'off the shelf' integrated third party systems shows our long term commitment to your solution requirements, and ensures our products add value to the existing technology and infrastructure investments you already have on site.



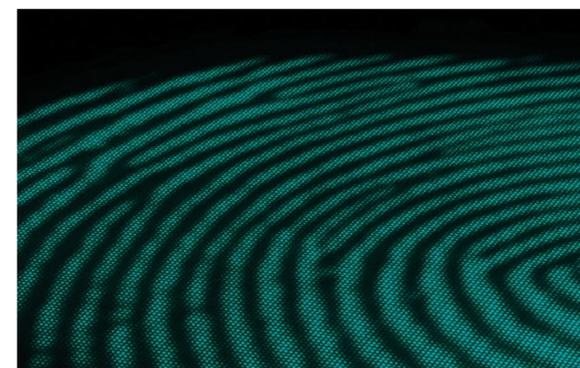
#### **DVR/NVR SYSTEMS**

Combine the power of Protege GX with third party DVR/NVR systems to create a full featured and cohesive solution. Seamless integration enables you to control cameras, and view live and historical video footage from a single easy to use interface.



#### **ELEVATOR SYSTEMS**

Protege GX is not limited to controlling access to doors. Buildings that have elevators often require access to floors to be controlled as well. Elevator integration links elevator control systems with ICT's Protege system to increase building security and improve the flow of people.



#### **BIOMETRICS**

Once thought to be the domain of top secret government agencies and James Bond movies, biometric technology has become mainstream and is now used by businesses every day as a way to authenticate users. Seamless integration with Suprema Biometric readers literally puts security at your fingertips.



#### **WIRELESS LOCKING SOLUTIONS**

Expand your existing access control system without the limitations, cost, and inconvenience normally associated with hard wired doors by integrating your Protege system with a wireless and offline locking solution.



### **CUSTOM INTEGRATION TOOLS**

We don't stop at off the shelf solutions. While we've invested a lot of resources into ensuring you don't need to reinvent the wheel, there may be times when you want to upgrade those tyres. Our custom integration tools give you the freedom to utilize your own experts to tailor a solution that meets your exact needs.



### **INTERCOM SYSTEMS**

Integrating an intercom system with access and security, provides a cohesive solution that ensures the protection of the site. With the use of an intercom, you can see or hear who is at your door before deciding to let them in, increasing security and improving communication.



### **DATA SYNC SERVICE**

Combine the power of enterprise level integrated access control with external data sources. The ability to synchronize data between the systems, reduces management time and administration while providing single data entry and enhancing efficiency.



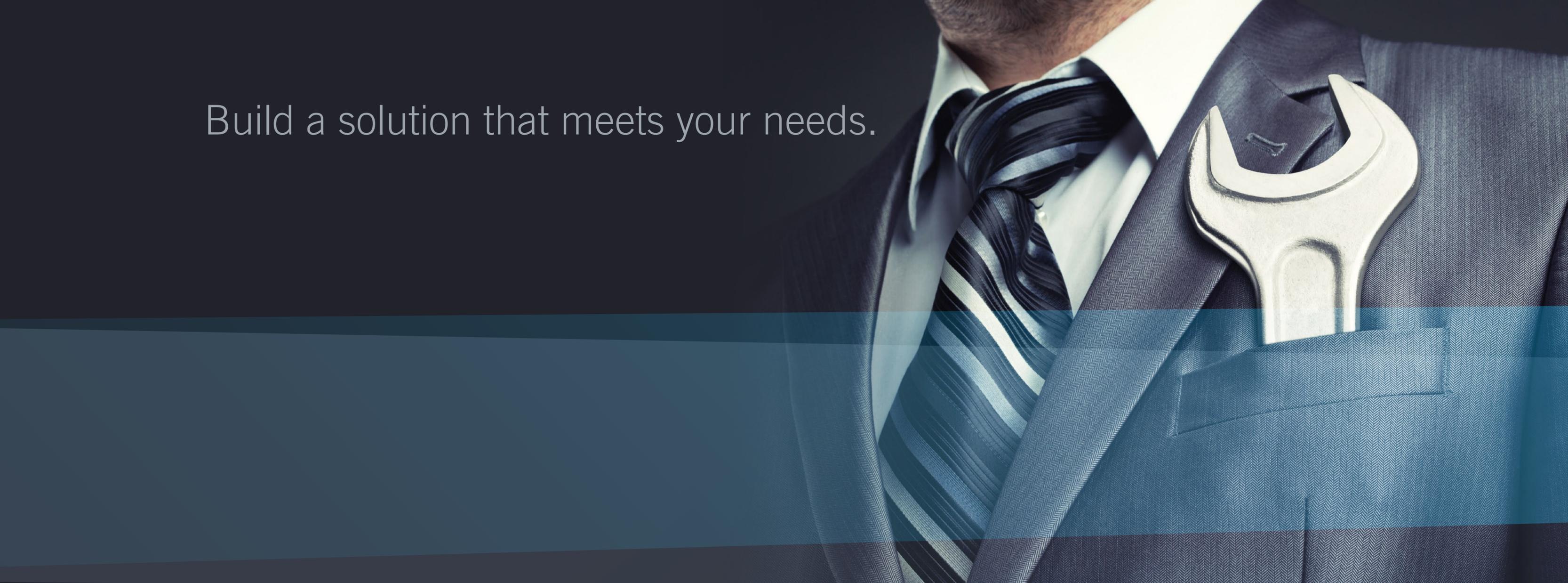
### **SAFE AND ATM LOCKING SYSTEMS**

Extend your security platform to include ATMs, cash safes, and teller cash recyclers by integrating with the Cencon O2 locking system. Managing these assets seamlessly through Protege GX offers ultimate flexibility whilst greatly reducing risk and maximizing operational efficiency.



### **BUILDING MANAGEMENT SYSTEMS**

Access Control systems carry a lot of information about your building and its occupancy. Combine this with a Building Management System (BMS) to create a smart building that can make some very intelligent decisions.



Build a solution that meets your needs.

We don't stop at off the shelf solutions. While we've invested a lot of resources into ensuring you don't need to reinvent the wheel, there may be times when you want to upgrade those tyres. Our custom integration tools give you the freedom to utilize your own experts to tailor a solution that meets your exact needs.



## FREEDOM. FLEXIBILITY. CONTROL.

We believe that freedom should mean being able to choose a solution that best suits your needs, and that flexibility should mean that as your business requirements change, the solution should adapt too. Our use of open protocols gives you total control over the end solution and ensures you aren't constrained to specific software or hardware, enabling you to integrate with virtually any third party system or component.

Choose the products and tools that are most suitable for the task at hand. Our range of custom tools allow Protege to communicate with other systems, making it possible to integrate all the functions of a business into one seamless solution, providing significant benefits to the end user.

## THE TOOLS

### **PROTEGEGX SOAP WEB SERVICE**

Whether it's building a custom interface that integrates multiple disparate systems into one cohesive solution, controlling user access based on data in an external system, or sending temperature and humidity readings to a Building Management System to conduct trend analysis, the ProtegeGX SOAP Web Service provides endless integration possibilities and enables you to develop a solution tailored to your exact needs.

### **DATA SYNC SERVICE**

Ideally suited for a variety of applications including 24 hour fitness facilities, university student databases, human resource systems and much more, the Data Sync Service combines the power of enterprise level integrated access control with external data sources. The ability to synchronize data between systems, reduces management time and administration while providing single data entry and enhancing efficiency

### **AUTOMATION AND CONTROL PROTOCOL**

Designed to allow third party automation products to communicate directly with Protege controllers, the Automation and Control protocol is programming language independent and allows you to control your security system, building access, air-conditioning and lighting from a single interface device without the need for overly complicated software.

### **THE POSSIBILITIES DON'T STOP THERE...**

A number of additional options are also available. Talk to your ICT representative to discover how an ICT solution can be customized to meet your needs.

A close-up, shallow depth-of-field photograph of a technical drawing or blueprint. A white ruler is placed diagonally across the page, with a pencil resting on it. The drawing features various lines, including a prominent circle and several parallel lines. The background is a blurred blue and white gradient.

Technical specifications.

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All Protege Controllers provide onboard access control, with the key difference being the reader ports and number of doors that can be controlled without the need for additional hardware.

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The standard controller features two reader ports allowing the connection of up to four readers (two entry, two exit) controlling two doors. Reader ports can be configured for either Wiegand or RS-485 reader operation. The single door controller has one RS-485-only reader port allowing the connection of two RS-485 readers providing entry and exit control of one door. Further doors can be controlled by adding reader expanders and additional controllers - with no limit on the number of doors that can be added.



### PROTEGE GX DIN RAIL SYSTEM CONTROLLER

- 2 doors (4 readers), RS-485 or Wiegand
- 8 multi purpose inputs
- 1 monitored bell output
- 2 Form C relay outputs
- 4 low current outputs



### PROTEGE GX DIN RAIL SINGLE DOOR CONTROLLER

- 1 door (2 readers), RS-485 only, Wiegand not supported
- 2 multi purpose inputs
- 1 Form C relay output
- Optional PoE

	PRT-CTRL-DIN	PRT-CTRL-DIN-1D	PRT-CTRL-DIN-1D-POE
Operating Voltage	11-14V DC		
Operating Current	120mA (typical)		
DC Output	10.45-13.85VDC 0.7A (typical) electronic shutdown at 1.1A	10.45-13.85VDC 0.7A (typical) electronic shutdown at 1.1A	13VDC +/- 0.5 0.7A (typical) electronic shutdown at 1.1A
Bell DC Output (Continuous)	14.4-13.45VDC 8 Ohm 30W siren or 1.1A (typical) electronic shutdown at 1.6A	-	-
Bell DC Output (Inrush)	1500mA	-	-
Total Combined Current*	3.4A (Max)	0.82A (Max)	0.82A (Max)
Battery Charging	-	-	300mA (typical)
Battery Low	-	-	11.2VDC
Battery Restore	-	-	12.5VDC
Electronic Disconnection	9.0VDC		
Communication (Ethernet)	Port 80 TCP/IP HTTP (Controller Web Interface) Fixed Port 9460 UDP/IP (Controller to Touchscreen) Configurable Port 21000 TCP/IP (Data Download, Server to Controller) Configurable	Port 9450 TCP/IP & UDP/IP (Controller to Ethernet Module) Configurable Port 9470 TCP/IP (Controller to Controller Communication) Fixed Port 21001 TCP/IP (Manual Control, Server to Controller) Configurable	Port 22000 TCP/IP (Event Transmission, Controller to Server) Configurable
Communication (RS-485)	3 RS-485 communication interface ports, 1 for module communication and 2 for reader communication	2 RS-485 communication interface ports, 1 for module communication and 1 for reader communication	2 RS-485 communication interface ports, 1 for module communication and 1 for reader communication
Communication (Modem)	2400bps modem communication	-	-
Readers	2 reader ports** that can be configured for either Wiegand or RS 485 reader operation allowing the connection of up to 4 Wiegand readers or 4 RS-485 capable readers providing entry/exit control for two doors	1 RS-485 enabled reader port allowing the connection of 2 RS 485 capable readers providing entry/exit control for a single door	1 RS-485 enabled reader port allowing the connection of 2 RS 485 capable readers providing entry/exit control for a single door
Inputs	8 high security monitored inputs	2 high security monitored inputs	2 high security monitored inputs
Outputs	4 50mA (max) open collector outputs for reader LED and beeper or general functions	-	-
Relay Outputs	2 FORM C relays - 7A 250V max resistive/inductive	1 FORM C relay - 7A 250V max resistive/inductive	1 FORM C relay - 7A 250V max resistive/inductive
Operating Temperature	0°-49°C (32° - 122°F)		
Storage Temperature	-10° - 85°C (14° - 185°F)		
Humidity	0%-93% non condensing, indoor use only (relative humidity)		
Dimensions (L x W x H)	156 x 90 x 60mm (6.14 x 3.54 x 2.36")	78 x 90 x 60mm (3.07 x 3.54 x 2.36")	78 x 90 x 60mm (3.07 x 3.54 x 2.36")
Weight	376g (13.26oz)	167g (5.89oz)	205g (7.23oz)

\*The Total Combined Current refers to the current that will be drawn from the external power supply to supply the Controller and any devices connected to the Controller's outputs. The Auxiliary outputs and Bell output are directly connected via electronic fuses to the N+ N- input terminals, and the maximum current is governed by the trip level of these fuses. \*\*Each reader port supports both Wiegand and RS-485 operation but not at the same time. If combining Wiegand and RS-485 technologies, they must be connected on separate ports.

No hidden licensing costs.



The enterprise licensing model in ProtegeGX allows for infinite expansion, resulting in a solution that grows with you.  
Unlimited Users. Unlimited Doors. Unlimited field hardware.



## INFINITE EXPANSION. FINITE COST.

While many licensing models allow for unlimited growth, that growth can quickly lead to runaway license costs, making it difficult to forecast what a system will cost over the longer term. ProtegeGX has a flexible model that ensures you get all the features you need, without paying for the features you don't. We don't charge for functionality that you'd expect to be part of any standard enterprise security system, and the base license comes packed with many extras including powerful reporting capability, CCTV integration, fully customizable status pages, graphical floor plans, and no limits on the number of users, events, schedules, areas, or hardware expansion.

Flexible license packs are available for doors, cameras, IP connected locking solutions and many other integration packages, enabling you to easily extend your system as your business grows.

No strings attached.



A ceiling (or license cap) in ProtegeGX prevents runaway license costs and ensures that right from the start, you know exactly how much the software is going to cost, no matter how much the system expands. And with zero software maintenance fees, there are no ongoing costs or unwelcome invoices each year! No strings attached.



A ceiling (or license cap) in ProtegeGX prevents runaway license costs and ensures that right from the start, you know exactly how much the software is going to cost, no matter how much the system expands. And with zero software maintenance fees, there are no ongoing costs or unwelcome invoices each year! No strings attached.

**LICENSE CAPS.**

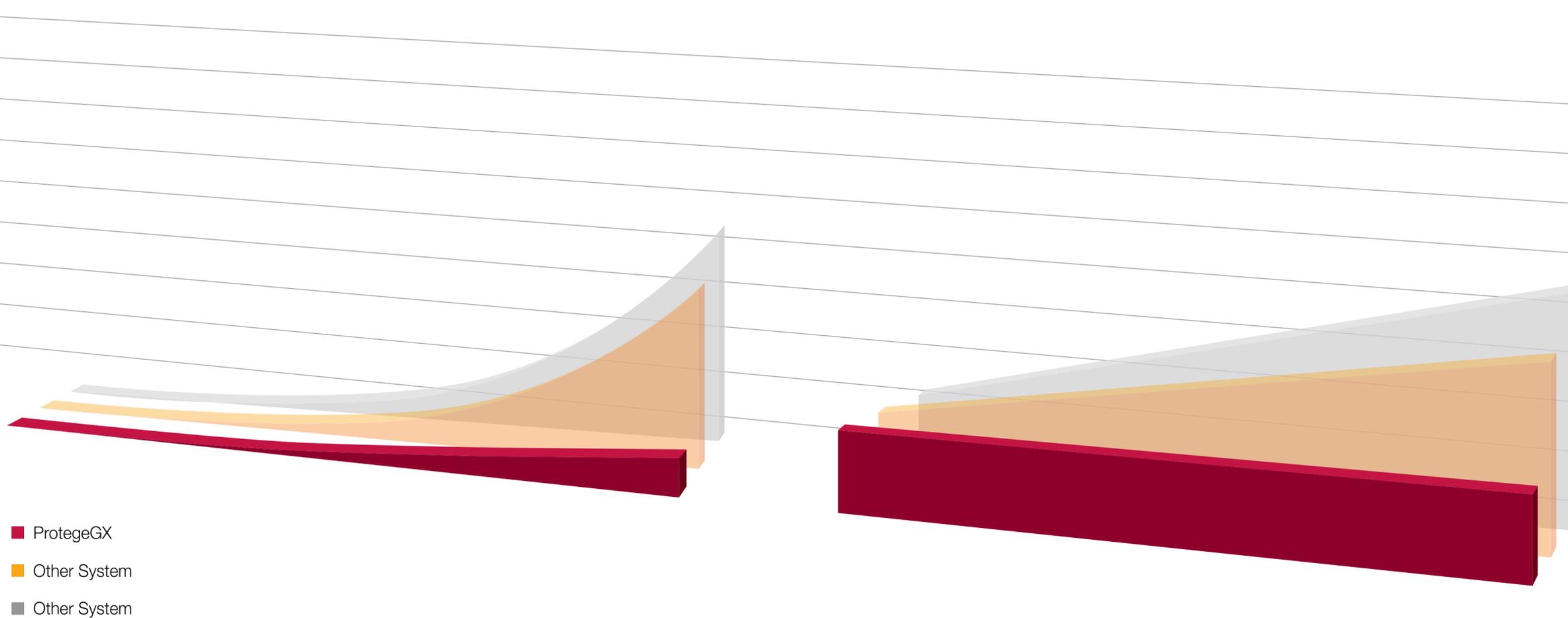
The enterprise licensing model in ProtegeGX allows for infinite expansion, resulting in a solution that grows with you.

Total cost of door licensing over ten years. Based on a system that starts at 50 doors and grows by 50% per annum. Door license caps exclude third party integrations.

**ZERO SOFTWARE MAINTENANCE FEES.**

When you buy a ProtegeGX license from ICT, there are no software maintenance fees, no contracts, and no hidden expenses.

Total cost of software ownership over 10 years.  
Based on industry averages of 17% - 25% SMA



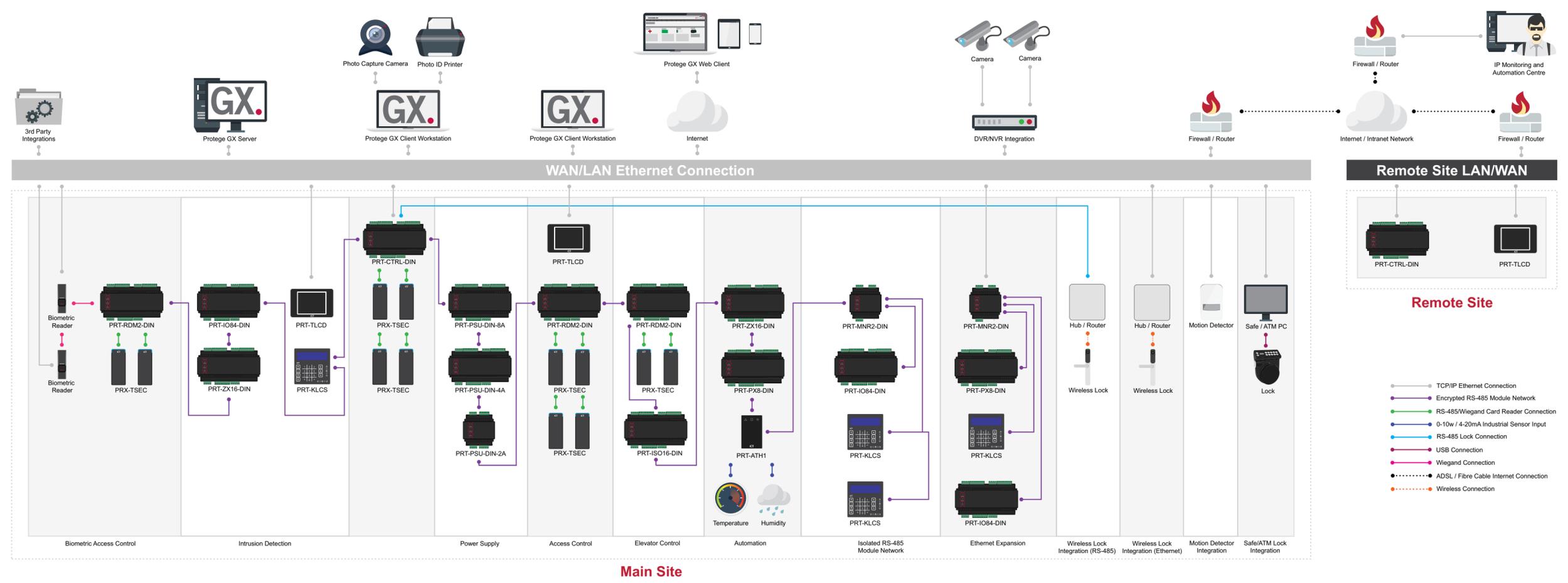
# Flexible System Architecture.



The server based architecture makes ProtegeGX a truly global system, enabling you to securely manage, control and monitor an unlimited 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 no limit on the number of Controllers that can be added to a ProtegeGX system, scalability is a key focus. Modular expansion allows each Controller to be extended up to 248 doors and 8000+ inputs and outputs. This flexibility makes both centrally located, home run control, and at the edge intelligence models to be mixed and matched to best fit the application.





Protege DIN Rail. Built Tough.

To give your integrated electronic security systems the competitive edge, you could stick to what you know: fragile circuit componentry that hasn't changed for years. Or you could choose an altogether more powerful solution. Our DIN Rail compatible units are compact, robust and elegant. In this day and age, why would you work with anything else?



**DESIGNED WITH AN INDUSTRY STANDARD DIN RAIL MOUNT ENCLOSURE, THE DIN RAIL RANGE NOT ONLY LOOKS GREAT, IT INTEGRATES SEAMLESSLY INTO LARGE SCALE INSTALLATIONS ALONGSIDE HIGH END HVAC AND ELECTRICAL SWITCHBOARD COMPONENTS.**



nclosed design provides more durability and protects internal circuitry from physical damage or electrostatic discharge.



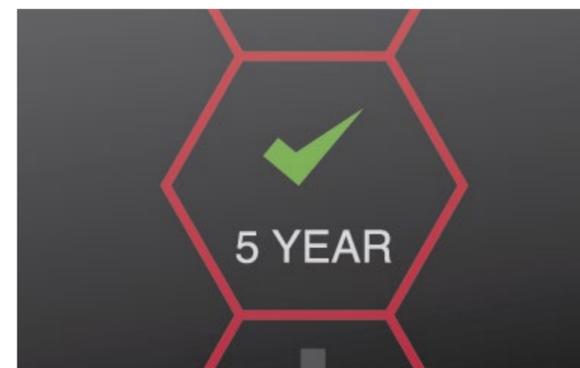
Front panel LED indicators show the status of devices at a glance, making servicing and diagnosis quick and simple.



Compact size translates to a higher installation density, taking up less valuable real estate and providing you more control in less space.



Removable plug-in terminals allow for easy servicing and rapid deployment.



An optional extended 5 year warranty is available when installed by an IDN member.

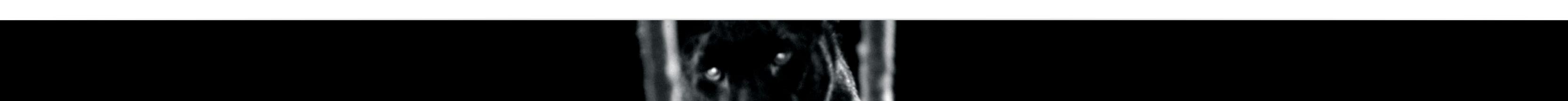


Listed to UL/ULC standards, and compliant with the FCC, CE, and C-Tick international safety and emission standards.

# Integrated Control Technology.



There's a reason elephants are vegetarian. After a clumsy run-up, the eight-tonner might gather some serious speed, but it's never going to make the most effective hunter. Now think of a panther. Compact, sleek, light on its feet. You get the idea.


$$\text{Agility} = \frac{\text{Speed}}{\text{Size}}$$



### **ALTOGETHER MORE AGILE THAN YOUR AVERAGE BEAST**

At ICT, we're committed to keeping our organization streamlined because it allows us to attack your security requirements elegantly and efficiently. Our processes are smart, our people responsive, our systems tailored. The result is a company that's altogether more agile than your average beast.

### **ELECTRONIC ACCESS CONTROL, IN YOUR CORNER**

Our team is diverse enough to handle any query, but close-knit enough to ensure the right hand always communicates with the left. We apply the same targeted approach to our technology design, to provide solutions that make for cost-effective and efficient implementation and operation.

### **INNOVATION IS IN OUR DNA**

With more than 35% of our staff dedicated to research and development, innovation is a core part of the ICT DNA. When you invest in an ICT solution, you gain first hand access to cutting edge technology and can rest assured that your investment is protected by the best in the industry.

### **100% QUALITY, FULLY TESTED**

All ICT products are fully tested (no batch testing) to ensure they meet rigorous safety criteria with a highly robust quality management system that ensures superior quality.

Want to find out more?

Talk to us today to discover how an ICT solution can benefit your organization.