ProtegeWX®

Access control. Made even more accessible.

Smart Security for savvy businesses.

Protege WX is a flexible, all-in-one, web-based system that integrates access control, intrusion detection, and building automation into one simple unified solution. Designed, engineered, and manufactured by Integrated Control Technology (ICT), a technology leader with tens of thousands of protected properties globally.

Protege WX is an out-of-the-box system, meaning it's quick to setup and intuitive to use thanks to its familiar web-based technology. The wizard-driven interface guides you through the system configuration and can be fully deployed and operational in less than 5 minutes!

The online interface also means you have a full unified view of the property wherever you are, whether you use a desktop or laptop, tablet, or smartphone.

Verticals.

A Protege WX solution can make access control and intrusion detection a breeze for anyone who needs it. Some of our most common verticals include:

- > Commercial
- > Banking and finance
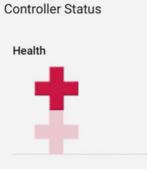- > Healthcare
- > Education
- > Retail
- > Residential
- > Heavy industry
- > Aviation
- > Gaming

13:29

ICT Protege WX®

ICT   Wizards   Users   Monitoring   Programming   Scheduling   Expanders   Automation   System   Help

Home Page

Controller Status

Health

Voltage

13.52

13.25

Memory Usage

- System(18.8 Mb)
- Events(1.9 Mb)
- Users(1.5 Kb)
- Access Levels(0.8 Kb)
- Program Functions(62.0 Kb)
- Other(1.1 Mb)

Status

Serial Number: C24C5BB9

Registration: Active

Operator Details

Logged on as

Logged on at

> "We've finally found a system to handle whatever we can throw at it. And let me tell you – it packs a mean punch.
>
> **- Mike Botticella, BCM Pro Solutions.**

Options

Display Theme   Light ⬤ Dark

Change Display Color

Amber 🎨	Blue 🎨	BlueGrey 🎨	Brown 🎨	Cyan 🎨	DeepOrange 🎨	Dee
Green 🎨	Grey 🎨	Indigo 🎨	LightBlue 🎨	LightGreen 🎨	Lime 🎨	O
Pink 🎨	Purple 🎨	Red 🎨	Teal 🎨	Yellow 🎨	Default 🎨	

Features & capacities.

Protege WX is a fully loaded solution, no tiered payment plans locking features that bring value and insight to you and your customers' businesses. Out-of-the-box features include:

> Access level outputs
> Advanced scheduling
> Anti-passback
> Area counting
> Automatic re-arm
> Automation and control
> Child areas
> Configurable input types
> Customizable keypad

> Disarm delay
> Door alarm monitoring
> Door interlocking
> Door lockdown
> Dual authentication
> Dual code control
> Duress alarm
> Elevator control
> Emergency egress

> Extended access time
> IP monitoring
> Loiter areas
> Multiple user credentials
> Multiple area support
> Multiplex/multidrop
> Scheduled area control
> Stay arming mode
> Two factor authentication

The modular hardware design provides the flexibility to accommodate **any installation** whether it's small, large, residential or commercial, and allows you to scale your system as your requirements change. Need more doors? Add a Reader Expander. Need more motion sensors? Add an Input Expander. If you reach capacity, there is an upgrade path to the enterprise level Protege GX solution.

Function	Limit
Users	10,000
Events	50,000
Schedules	512
Doors	128
Areas	32
Inputs	512
Outputs	512
Floors	32*
Elevator Cars	8*
Programmable Functions	248*
Keypads	200
Reader Expanders	64
Input Expanders	248
Output Expanders	32
Analog Expanders	32

Head to our **website** to learn more about these features and how they can bring value to your daily work life.

*Floors, Elevator Cars, and Programmable Functions are only available in Protege WX Advanced mode.

Wizard driven interface.

The wizard-driven interface guides you through the process of configuring the system and can be fully deployed and operational in less than 5 minutes! Take the 5 minute challenge and see how fast you can do it!

Access Control Wizard.

The Access Control Wizard detects the available reader ports and creates the doors. It also enables you to assign an unlock schedule to each door.

Security Wizard.

The Security Wizard allows you to configure the Areas in your system, the Inputs that are used to trigger events, and set up basic offsite monitoring service.
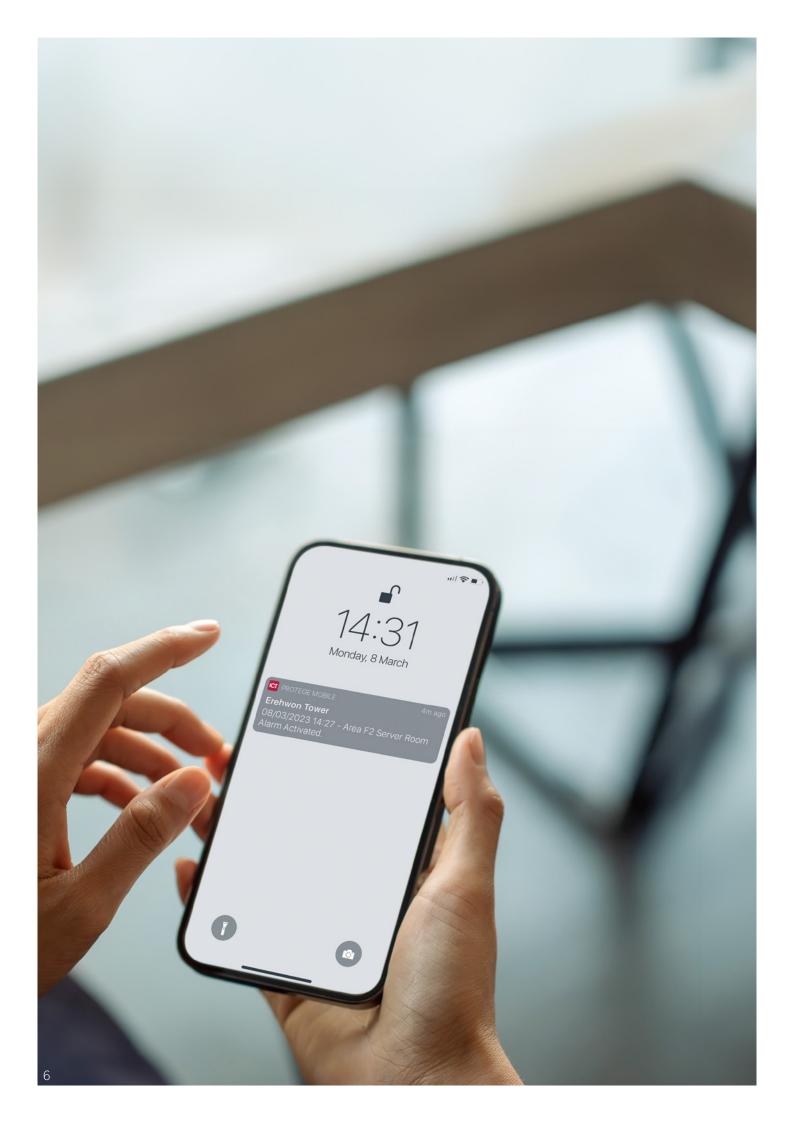
Expanders Wizard.

The Expanders Wizard is used to detect and add the connected expander modules to the system, and add the inputs, outputs and trouble inputs.

Users Wizard.

The Users Wizard enables you to quickly create new Users, and define which Areas and Doors they are able to access.

Monitoring & reporting.

Having guards on hand 24/7 is not economically feasible for many small and medium businesses. But how do you ensure that someone is responding to a triggered alarm?

Offsite monitoring provides peace of mind by ensuring security personnel are alerted and appropriate actions can be set for alarms ranging from low level to high level alerts.

All ICT system controllers include an onboard Ethernet adapter with built in IP reporting functionality. If you require an onboard dialler, we also have controllers with onboard modems to communicate alarms via a traditional telephone line.

IP monitoring is more cost-effective, convenient, and secure. Most alarm diallers only test a system once every 24 hours, while IP monitoring is always online, message transmission is nearly instant, and a lost connection is detected in 90 seconds or less.
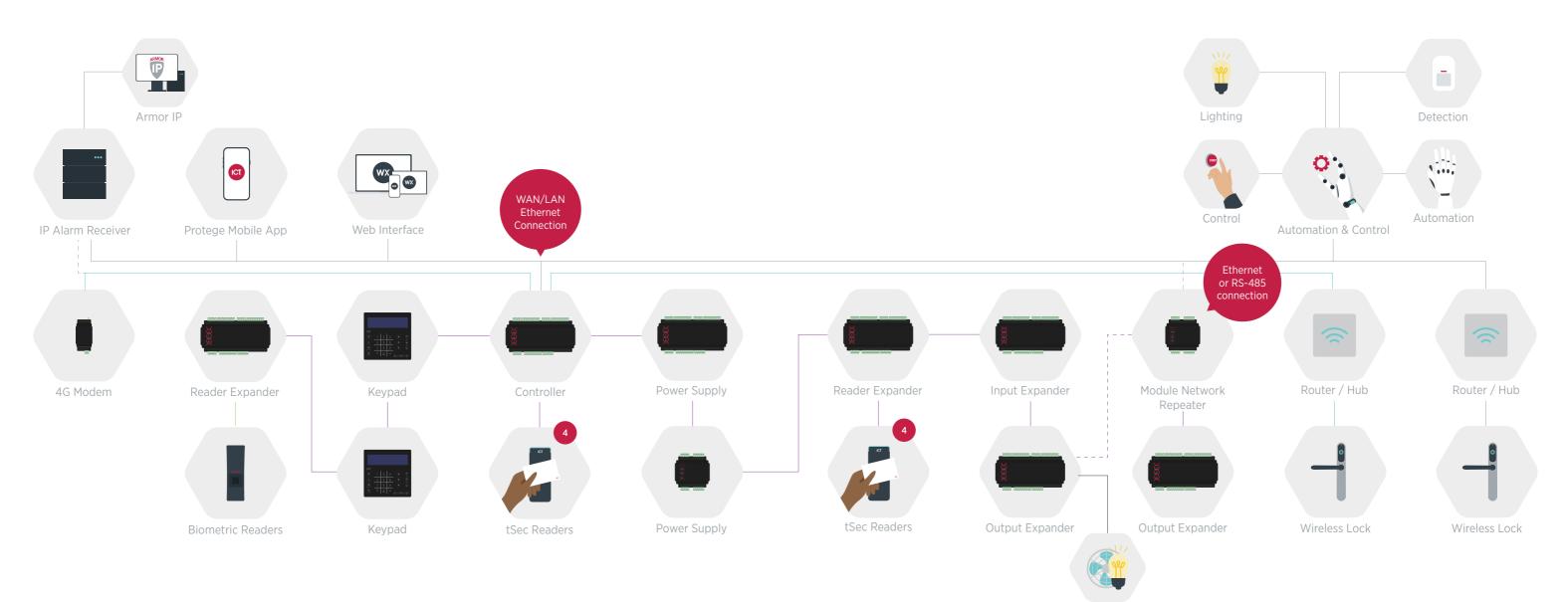
ArmorIP and Cellular Modem.

For robust alarm reporting, combine with ICT's Cellular Modem. This modem operates over 4G, so if there are any network disruptions the site will continue to be monitored and report any events. Pair this with ICT's ArmorIP protocol for added encryption and to receive push notifications to the Protege Mobile App.

ArmorIP transmits additional information where available, such as panel name, event time, serial number, username, and much more. If the station is using the ArmorIP software, operators see this data – including the names of users, areas, and inputs - as it is seen by people on site. No more mismatches between what people are looking at.

A system that grows with you.

Experience ultimate flexibility with our modular hardware design. No matter the size - residential or commercial, big or small - we've got you covered. Our expandable modules allow you to scale your system as your needs grow. Start with the controller and effortlessly add optional accessories. Need more PIRs? Just add a Protege Input Expander. Want more doors? Simply add a Protege Reader Expander.

Armor IP

Lighting

Detection

IP Alarm Receiver

Protege Mobile App

Web Interface

WAN/LAN Ethernet Connection

Control

Automation & Control

Automation

Ethernet or RS-485 connection

4G Modem

Reader Expander

Keypad

Controller

Power Supply

Reader Expander

Input Expander

Module Network Repeater

Router / Hub

Router / Hub

Biometric Readers

Keypad

tSec Readers

Power Supply

tSec Readers

Output Expander

Output Expander

Wireless Lock

Wireless Lock

Lighting & HVAC

tSecs: Modern design meets high security.

Sleek and stylish, and with a range of optional features, the tSec series has a solution for everyone. Available in three sizes, multiple card capabilities, with an optional keypad, and in a choice of black or white, you can select the model to fit your needs and your decor. Because one size does not fit all.
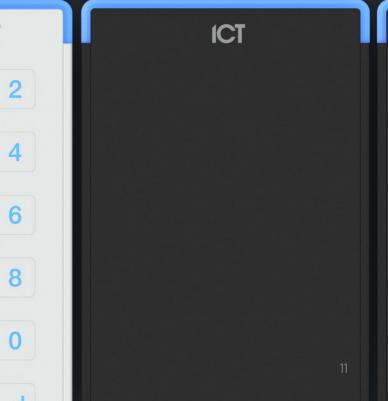
> Available with 125kHz proximity, 13.56MHz smart card capability, or both for maximum compatibility and so you can migrate to a smart, high-security solution.

> Available with Bluetooth® or NFC (near-field communication) capability.

> Communicate via a fast and secure RS-485 connection. With support available for OSDP 2.2 and legacy Wiegand configurations.

> Suitable for indoor and outdoor use. The IP65 environmental rating means there's a high degree of protection from harsh elements.

> OSDP 2.2 certified means improved interoperability and higher encryption standards.

> The system is fantastic. Working with ICT has provided a robust solution and we've had no problems with implementation.

– **Richard Ertel, Head of Technology at Shore Junction.**

Countless credential choices.

With 8 credentials able to be assigned to a user, access management has never been easier.

Available in standard 125kHz or MIFARE and DESFire 13.56MHz smart format, which offer a higher level of security, more convenience and far greater functionality. Or switch to a smart solution that's a win for you and the Earth with ICT Mobile Credentials.

Our cards and fobs support multi-sector encoding. For a true one-card solution, third party connected locks or systems can be encoded to a single ICT credential.

Available credentials:

> Proximity Cards

> Proximity Standard Key Fobs

> Proximity Silicone Wristband

> Proximity Adhesive Disc

> Smart Cards

> Bluetooth/NFC Mobile Credentials

> 2 and 4-Button Transmitters

Our Wireless 433MHz 2 and 4 button transmitters are perfect for garage and gate access and are available with an optional DESFire, MIFARE or HID compatible proximity device, allowing them to be used for standard door access. **Smart solutions made simple.**

Mobile solutions.

Access and control. In the palm of your hand.

Use the Protege Mobile App to monitor and control your clients' sites while on the go. You'll be notified if there's an incident and can then immediately check the app to evaluate the situation and trigger any required action.

For your clients, this means no more second guessing whether they set the alarm before they left the office – the app provides instant awareness of system status and enables them to arm or disarm with a simple tap.

Offer your clients a full building solution by extending this to building functions, so they can turn on the lights or HVAC before they're at the front door.

Mobile credentials.

Mobile credentials are virtual credentials that provide card-free access via a smartphone.

For an installer/integrator, ICT Mobile Credentials eliminate the time spent handling physical access cards, and with everything managed online, there's no freight costs or delays, so customers can access them immediately. Multiple credentials can be stored on a single device – perfect for those managing multiple sites.

Mobile SDK.

The ICT Mobile Software Development Kit (SDK) is a valuable tool for combining access control functionality with an existing app. By providing access to our mobile APIs and services, we make it possible for developers to build integrations allowing third-party apps to access and transmit ICT Mobile Credentials for use with ICT readers and access control systems.

For example, the fictitious Andy's gym can provide a completely unified solution, including class schedules and bookings, purchases, and door access, from a single app.

> " WX is by far one of the least complicated systems I have ever programmed. Not only is the support epic, but the product allows a quick and easy transition to my clients. "
>
> **- Philip Hahn, C&S Specialty Systems.**

Art Lab

Main Entry Door
LOCKED - CLOSED

Print Room Door
NOT LOCKED - LEFT
OPEN

Print Room Camera

Studio Floor
24HR ENABLED -
DISARMED

Main Entry (Bond)
TAMPER

Studio Lights
ON

Home   Doors   Areas   Sensors   Controls

Building automation.

Public perception and tighter budgets have seen energy efficiency become increasingly important in today's environment. Automated building solutions that reduce energy consumption are one of the simplest ways of reducing costs for your customers. Protege WX provides a simple, single-point solution that enables your customers to:

> Configure lighting to come on progressively as staff arrive and turn off as they leave

> Automatically turn off non-essential items - like coffee machines and photocopiers - when the alarm is set at the end of the day, and on again when the alarm is deactivated

> Configure HVAC systems to maintain a lower temperature when a building is unoccupied and increase to a comfortable temperature as people arrive for the day

> Activate lighting in low occupancy areas (such as restrooms and storage areas) as needed

Automation & control protocol.

ICT's Automation and Control protocol turns Protege WX into an open book, enabling developers to create their own custom integrations. Designed to allow third party automation products to communicate directly with Protege controllers, the protocol enables you to control and monitor the status of doors, areas, outputs, inputs, and variables, anywhere in the system.

Protege WX API.

The Protege WX API is one of our custom integration tools which allows you to control your system from a third-party application. Thanks to our open protocols there are endless ways the Protege WX API can be used to create a solution that meets your exact needs.

Third-party integrations.

Seamlessly expand your system with third-party integrations that talk to Protege WX.

Elevator control.

Low level elevator integration enables cost-effective access control of almost any elevator system, regardless of age or capability. Use a card reader and credential to only unlock the floors that the user has access to, and even enable inputs to allow a record to be logged about what floor was selected.

Wireless locks.

A cost-effective and convenient solution. Thanks to direct integrations with leading wireless lock manufacturers you can extend seamless Protege WX access to every door - wired or wireless.

Wireless sensors & detectors.

Save yourself time and headaches by extending the reach of intrusion detection to areas where running wires can be difficult or expensive to install. Secure your customer's assets and people, while enabling scalable security with our integration partners.

Protege DIN Rail.

The heart of the Protege WX system, the Controller is the central processing device responsible for managing security, access control, and building automation, while providing seamless control from a browser interface.

All controller models provide onboard access control. The key difference is the reader ports and number of doors that can be controlled without the need for additional hardware.

The IP controller features two reader ports. This allows 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.

Further doors can be controlled by adding reader expanders, with up to a maximum of 128 doors. The IP reporting enables reporting over Ethernet with the option of 4G when used with the Protege Cellular Modem – no need to tie up phone lines. However, our dialer controllers are available if required.

Why DIN Rail?

Built tough

The enclosed design provides more durability and protects internal circuitry.

Intelligent design

Front panel LED indicators show the status of a device at a glance, while removable plug-in terminals allow for easy servicing and rapid deployment.

The versatile, modular design means you can easily add to the system as needed.

Easy to install

A plug and play solution. Mounting is as simple as clicking the module into place, and all you'll need to remove it is a flat-blade screwdriver, which comes with the controller.

The rail mount enclosure means it integrates seamlessly into large scale installations alongside high end HVAC and electrical switchboard components.

Compact size translates to a higher installation density, saving valuable control room real estate, for more control in less space.

Advanced mode & training.

Become a certified Protege installer and offer your customers a best-in-class access control, intrusion detection, and building automation solution. Whether you're just a beginner or a field technician, we have training courses to cover your learning journey. Available as a facilitated course in our ICT offices or as a self-paced course through the web-based eLearning platform, you can learn everything you need to become a certified Protege installer.

Certified Protege WX Installer (Level 1).

The Protege WX Level 1 course is aimed at installers responsible for small to medium Protege WX installation projects. Covering everything from hardware, wiring, and power through to system architecture and connections, you'll learn how to ensure successful physical installation of Protege WX site. Upon completion, you will be eligible to enroll in the Protege WXpert Integrator (Level 2) course.

Protege Field Technician.

Designed for sub-contractors and technicians responsible for the installation of Protege hardware and working under the supervision of a Certified Protege Installer or Integrator, this course equips you with the necessary knowledge and skills to install Protege hardware and perform initial configuration.

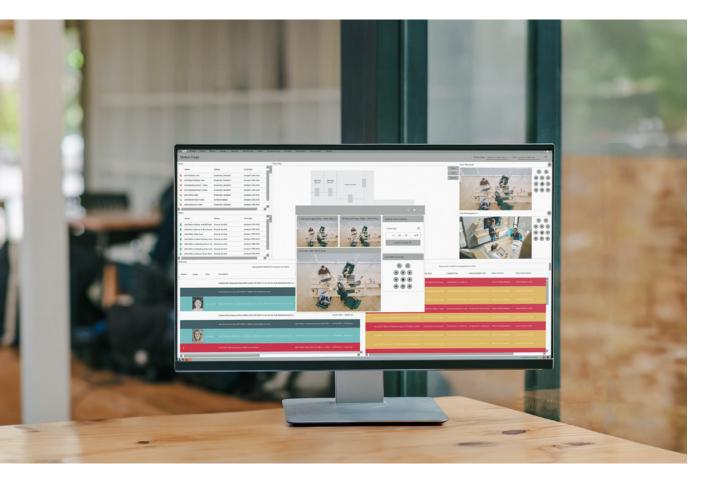## Certified Protege WX Integrator (Level 2).

Aimed at integrators responsible for configuring medium to large Protege WX projects, this course guides you through how to plan and configure a Protege WX system. A practical walkthrough explores everything from fundamental intrusion detection and access control programming through to advanced features and automation. This course is a must for anyone who wants to access the additional features and capacity in WXpert advanced mode.

Seamless system expansion.

Expanding to Protege GX.

Modular hardware design provides the flexibility to accommodate any installation whether it's small, large, residential, or commercial. Expandable modules allow you to scale your system as your requirements change. If you reach capacity, there is an upgrade path to the enterprise level Protege GX solution.
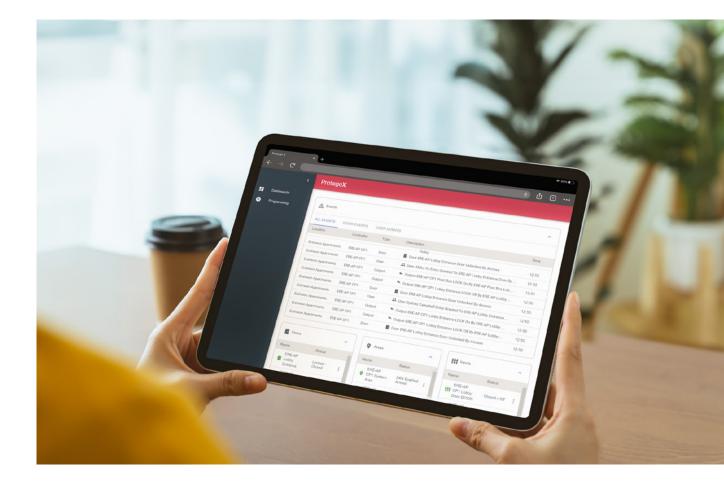
Our server based, enterprise level unified access control, intruder detection, and building automation solution, Protege GX has a feature set that is easy to operate, simple to integrate, and effortless to extend. Designed around the end users' needs, Protege GX is a truly cross-platform solution. It's loaded with functionality that provides true benefit to any organization.

Expanding to Protege X.

Whether you have a single property or are an expanding business with multiple locations, an intuitive pathway from Protege WX enables direct migration to Protege X via the cloud for programming, user databases, and supported integrations - no hardware changes needed!

Protege X is a next generation cloud-based, cross platform access control and intrusion detection ecosystem, designed for businesses that demand future-proofed flexibility.

Who is ICT?

Integrated Control Technology (ICT) is a world leading manufacturer of unified, scalable electronic access control and security solutions for organizations to protect their people, operations, and information.

In 2003, ICT began with a unique vision to provide innovative and easy-to-use electronic access control and security solutions. Tens of thousands of companies worldwide use ICT products and systems every day, and our vision remains steadfast and ingrained in all we do.

ICT has been leading the way with integrated solutions - in fact, it's even in our name: Integrated Control Technology. Designed, engineered, and manufactured in New Zealand, with offices and distribution centers in the USA, Canada, Australia, UK, and Hong Kong, we excel at providing full local sales, support, and services to clients and partners around the world.

> Working with ICT has been an exceptional experience. ICT's well thought through modular design meant we could deliver the project on time, on budget, and to the full satisfaction of our client.
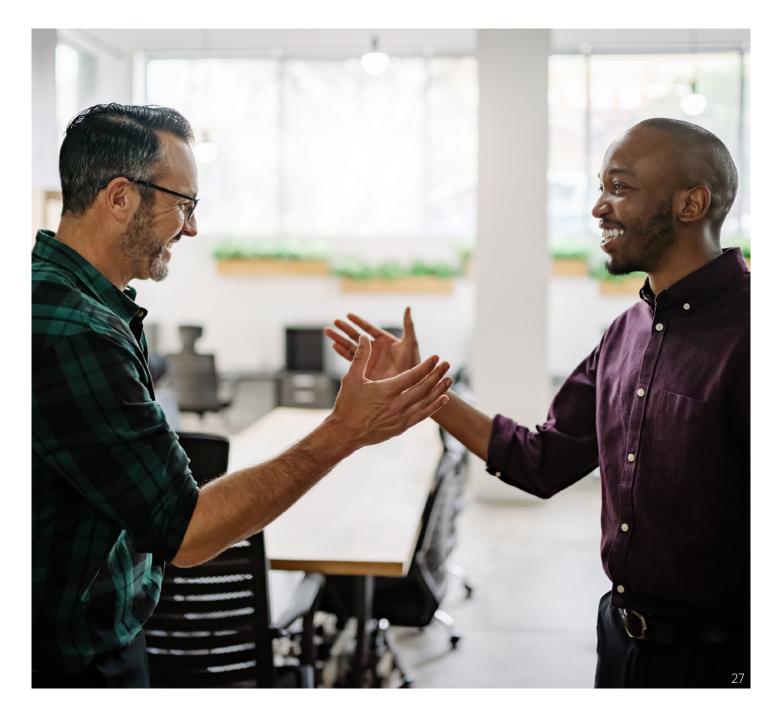>
> **- Mark Stytsenko, Technical Director at DockCom.**

Become an ICT Partner.

ICT's network of market leading security partners are supported by a quality training program and the guidance of first-class sales, service, and support teams. Our partners play an integral role in our sales and support network, providing the expertise and experience to help you plan, deploy, integrate, and manage an ICT solution.

Interested in becoming an ICT Partner? Head over to www.ict.co to sign up and start seeing how a truly intelligent system can benefit you and your customers today.

www.ict.co