impro technologies®
ACCESS CONTROL

ACCESS
portal

Access Portal
CATALOGUE

www.impro.net
www.xsbeyond.eu

A&B
Access & Beyond

impro technologies®
ACCESS CONTROL

Every day around the world,
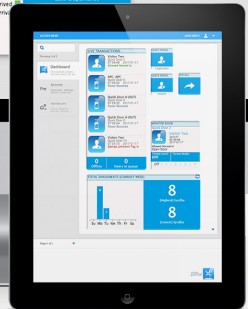millions of people use our systems.

Catalogue
CONTENTS

1

Access Portal
SOFTWARE

The Access Portal management software suite provides a variety of options for small business, through to multi-site enterprises.

Upgrading through the various tiers is quick and easy, simply enter the license key and the next tier is unlocked – no hardware change, no database migration.

Access Portal also brings a new level of simplicity to the operation of access control. From auto-install functionality, to built-in wizards and automatic detection of hardware, the software is easy to use and quickly provides the information you need, when you need it.

Free stuff

We continually evolve the features and functionality of our software suite. As a customer of Impro, you'll receive these upgrades free of charge.

We also offer all customers free 24-hour technical support to quickly address any challenges you're facing with your access control system.

Mobility

Mobile phones have changed the way we work, providing instant access and convenience. Access Portal provides the same convenience with real-time information, 24-hours a day, as you're able to access your system from a smart phone, tablet or computer – the choice is yours.

Customisable

The Access Portal range provides an unique level of customisation, so you're able to tailor the software to your specific needs. This is carried through to the dashboard, which allows users to personalise their dashboard view according to their function.

The software also includes an array of reports and, depending on the tier, customers can customise these further, or develop your own.

Software

Access Portal
LITE

Small to medium businesses

8 doors
1,000 tagholders

WHO SHOULD USE ACCESS PORTAL LITE?

Small to medium premises that are wanting:

- Improved security

- Reduced risk of lost or copied keys

- A low-maintenance, reliable solution

- Ability to restrict access to areas of the operation

A small but powerful access control solution, Access Portal Lite has a feature set that punches well above its weight.

Everything you need to manage access to your premises is contained within Lite. You don't even need a PC as it has an embedded system in the cluster controller, meaning you can set up everything you need from the optional touchscreen LCD.

Enrolling tags, configuring your doors and setting up the access rights is quick and easy. The system even automatically sets up the database for you – meaning you're up and running faster than ever. When needing to change access rights, or add/remove personnel, it can be done in just a few clicks and is immediately active in real-time.

Access Portal Lite also offers a number of enterprise features, without the associated costs, and has one of the best price to feature ratios in the market.

The system is also a valuable business tool that allows you to run reports such as hours worked by employees, or information on who accessed restricted areas, and all the data is kept secure so you've always got a full audit trail.

Plug
and
play
solution
that
simply
works

Big
business
features
for free

Access Portal
BASIC

Free software

Access Portal Basic is free of charge and provides features that are normally only available through licensed software.

Installation is simplified with an auto-install function which includes the automatic configuration of your hardware to reduce the traditional time and complexity associated with setting up an access control solution.

The system also includes a number of high-end features, not often bundled with free software, such as anti-passback doors (APB) and the ability to create custom design access cards.

Access Portal Basic includes high security features such as threat level, which enables you to immediately lock down the premises, with just a click of the mouse – giving you the power to control the site in an emergency.

Standard with all Access Portal software is the ability to control your premises 24-hours a day through our web-enabled software, no matter where you are. Simply connect through your smart phone, tablet or PC and immediately see what's happening in real-time.

The system also includes an array of reports and integrated biometric readers.

100 doors
1,000 tagholders

WHO SHOULD USE ACCESS PORTAL BASIC?

Ideal for anyone wanting an elementary access control solution without the expense of licenses:

- Gated communities

- Corporate businesses

- Industry and manufacturing concerns

- Hospitality

- Educational facilities

Access Portal
PRO

Medium to large facilities

200 doors
25 sites

WHO SHOULD USE ACCESS PORTAL PRO?

The solution is suited to medium to large facilities, such as:

- Educational institutions
- Corporate facilities
- Multiple site premises
- Government and parastatals
- Mining, oil and petroleum
- Health care facilities

Access Portal Pro has an extensive feature set that makes it one of the most flexible access control systems available.

A simple user-intuitive interface, coupled with auto-hardware identification, means the system can be quickly installed and configured.

A key benefit of choosing Access Portal Pro is the single license fee with no seat-licenses. In addition, Access Portal Pro provides free software updates that ensures you're able to enjoy a host of new features and technologies, as they become available.

An enhanced feature of the Access Portal Pro software is the ability to create a personalised dashboard to display critical information or frequent tasks, specific your needs. This could be an IP camera feed, a quick enrol button or live transaction feed – you can customise the dashboard to how you work best.

For installers, the virtual hardware enables you to configure and test an installation offsite using virtual hardware. Once on site, these items are simply replaced with physical hardware, ensuring a quicker and smoother installation.

The system provides a wide array of standard reports, as well as the ability to generate custom reports, for single or multiple site management. Couple the reports with our powerful zoning tool, for enhanced people movement control, and you're able to quickly see what's happening on the premises.

The software also provides the platform for you to install the latest technologies, such as biometrics, wireless locks, SEOS-secured devices and even virtual credentials on your mobile phone. All within one secure package.

Powerful
solutions
to secure
your
assets

Power
to meet
your
global
needs

Access Portal
ENTERPRISE

Large multi-site enterprises

Access Portal Enterprise meets the exacting needs for large installations globally.

The software is one of the most customisable systems available and has an immense feature set which allows the system to be set up to solve your most complex site requirements.

In addition to be able to manage multiple sites, Access Portal Enterprise provides advanced tools to ensure a quick and effective installation, such as the ability to connect to controllers over a WAN with built-in auto identification to rapidly identify and incorporate hardware devices on the various sites. System diagnostics are also incorporated which includes built-it alerts, to ensure the system is always operating optimally.

Threat level is a standard feature on Enterprise, which enables you to change the access rights on your site with the click of a button. There are four levels – low, elevated, high and severe – and by enacting this, the previous patterns are automatically overridden.

Scheduled tours is another advanced feature, specially designed for Enterprise. Ideal for the remote management of scheduled functions, such as a security guard undertaking a perimeter patrol, or cleaning services performing their assigned duties, the service is user-intuitive and the required staff follow a scheduled route, within set time parameters. Built-in alerts and an audit trail complete the feature.

User convenience is addressed with Access Portal Enterprise where a single credential can be used to access a variety of facilities – from a door, to computer, to canteen or vending machines. Further, this credential no longer needs to be a physical tag or card, but can be a virtual credential on the user's mobile phone.

10,000 doors
1,000 sites

WHO SHOULD USE ACCESS PORTAL ENTERPRISE?

The software has been designed for large sites, including multi-site applications, such as:

• Large industry and manufacturing

• Tertiary institutions

• Petrochemical

• Banking and finance

The right solution for
YOU

	Access Portal **LITE**	Access Portal **BASIC**	Access Portal **PRO**	Access Portal **ENTERPRISE**
Number of sites	1	1	25	1,000
Doors				
Doors per site	8	100	200	500
Doors per system	8	100	5,000	10,000
Tagholders				
Tagholders per site	1,000	1,000	5,000	1,000,000
Tagholders per system	1,000	1,000	125,000	1,000,000
Tags per person	3	3	4	10+
Security				
User operator security profiles	1	1	Unlimited	Unlimited
Access groups per site	8	100	5,000	10,000
Access groups per system	8	100	125,000	250,000
Installation				
Auto hardware configuration	✔	✔	✔	✔
Embedded (i.e. no software to configure)	✔	-	-	-
SQL	-	✔	✔	✔
General features				
Duress codes	✔	✔	✔	✔
Time limited access	✔	✔	✔	✔
Tag suspension facilities	✔	✔	✔	✔
Buffered transactions	✔	✔	✔	✔
Biometrics	-	✔	✔	✔
Dashboard	-	✔	✔	✔
Dual tag	-	✔	✔	✔
Operator security profiles	-	Limited	✔	✔
Visitor book	-	-	✔	✔
Virtual IO	-	-	✔	✔
Scheduled tour	-	-	✔	✔
Threat level	-	-	✔	✔
Elevator control	-	-	✔	✔

Access Portal
HARDWARE

You've got backup

Power failure, server crashed, network problems? Embedded, intelligent and independent. The cluster controller stores all information to make a decision locally. And when the connection is re-established, the controller seamlessly communicates its transactions with the server.

Flexible intuitive design

You decide what works best for you. The system is flexible enough to adapt to the most complex sites and expands when you need it. Intuitively designed for the ultimate in-field configuration flexibility.

Less wires

An industry first, true plug-in and play. You simply clip in the next unit using the quick connectors and auto-ID; and all power and communications are connected. Less wires, less hassle. Installation has never been easier.

More of everything

Memory, RAM and processing power. Lots and lots of it. Some call it overkill, we call it just right. There is enough memory available to support your every requirement. You've got it, if you need it.

Hardware

The power of the
CONTROLLER

Access Portal brings an unrivalled simplicity to the installation of an access control solution, with the cluster controller.

Our controller provides all the power to support your every requirement.

It also ensures full off-line functionality and, in the event of a power failure, each cluster controller can store over 100,000 transactions. When power is restored, the controller synchronises back with the server, ensuring all transactions are logged.

Plug-and-play

Our true plug-and-play modular hardware provides the flexibility to quickly and easily expand your site. Simply clip in the next unit and all the power and communication is taken care of – no extra wiring, no hassle.

To cluster or not to cluster?

The ability to plug a number of modules into one controller is termed 'clustering'. The benefit of this is significantly reduced cost as one controller can manage up to eight reader modules - thus controlling up to 16 readers from one cluster controller.

The cluster controller can also be in one location and module(s) up to 150 metres away.

Through our innovative controller design, you have the flexibility to create a bespoke solution with off-the-shelf products, tailored to your specific needs. Giving you the ultimate flexibility for in-field configuration.

LCD touchscreen

The controller is available with or without a LCD touchscreen. The LCD version is specially designed for smaller installations, where a computer or server is not necessary, as the controller has embedded software, commonly termed Access Portal Lite. Everything can be configured through the touchscreen - even the enrollment of tag holders.

Security is our priority

Security is always paramount and to this end our controller delivers. All cluster controllers are fitted with an anti-tamper switch as standard.

In addition, the controller and associated modules, can be supplied pre-wired in a secure metal housing, with built-in tamper switch and an integrated power supply.

Controller Features

- Offline functionality

- Stores over 100,000 transactions

- Built-in tamper switch

- LCD touchscreen with built-in enrolment

- Embedded web server accessible with smart phone, tablet or PC

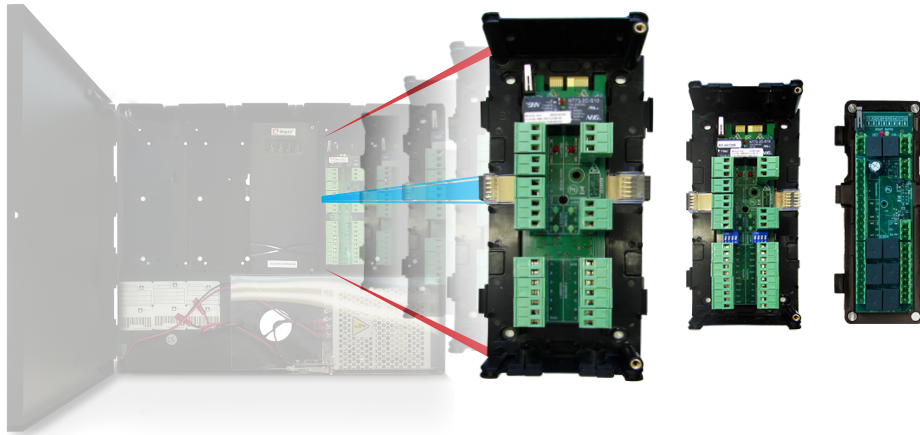- Manage up to 4 modules and 16 readers with one controller

Models Available

The cluster controller is available in different variants:

- Controller with LCD

- Controller without LCD

- Controller in metal enclosure

- Controller with plastic housing

A module for every
NEED

The partner to the cluster controller is the module. Our controllers are compatible with all modules, making ordering and installation simpler.

A key benefit of our modules is the ability to hot-swap units without impacting on the system - simply unplug and replace.
Want to expand the system? Just plug in more units, to scale quickly and easily.
Most modules offer the ability to have readers up to 150 metres from the unit, and include end of line sensing for additional security.

All modules are available for installation into a metal housing, or with plastic housing.

Wiegand module

Each Wiegand module supports two readers and has two relays and four inputs.

Antenna module

The Antenna module is used for older Impro proprietary readers. The unit also supports two readers, with two relays and four inputs.

However, the distance between the module and reader can only be a maximum of 25 metres.

IO8 module

When you want to create custom events, the IO8 module is the ideal tool.
With eight digital inputs and relay outputs, the options are endless, such as:

*   Control elevators, alarm systems and fire control
*   Automate lighting, fan control or air conditioning
*   Activate turnstile indicators and gates
*   Open lockers or doors

S-Series

The S-Series module is highly cost competitive, as the unit manages four APB doors (eight readers).
In addition, installation is using three-core cable which further reduces cost and time.

The module provides four relays and eight inputs.

With Access Portal, every cluster controller must be connected to a module, which is wired to a reader. However, how you group these items together depends on your premises.

S-Series, the most cost effective
SOLUTION

S-Series is one of the most price competitive solutions in the market today.

One S-Series module with a cluster controller, can manage up to four antipassback doors (APB), being eight readers.

However, the savings don't stop there. The S-Series uses three-core cabling, which further reduces costs and installation time.

Installation time is always crucial and with the reduced cabling time, savings are also achieved through our revolutionary plug-and-play hardware.

Want to expand the system? Simply plug in more units. Need to change units? Unplug and replace, they're hot-swappable.

Security

A key feature of the S-Series is the use of secure technology that provides enhanced protection against card cloning. Many traditional tag technologies have been compromised which may result in unauthorized users accessing the premises.

With our 125kHz RFID tags this risk is reduced due to the proprietary communication protocol used, which gives increased peace of mind.

The system further encrypts communication between the hardware components of the reader, module and controller, for added security.

End-of-line sensing provides additional protection against tampering of cables, and an alert can be automatically sent should an event occur.

Scalability

The S-Series quickly and easily scales to meet growing business requirements, as the modular design allows for additional controllers and modules to be effortlessly added as needed.

The system also allows for extensive flexibility when undertaking an installation, as the readers can be installed up to 150m from the module, while controllers can be connected on either RS485 or TCP/IP for increased distance.

A World Of Choice

The S-Series offers a variety of configuration options to meet every customer's needs. The units are available in plastic housing, or pre-wired within a secure metal enclosure.

The controller has an optional LCD touchscreen with embedded software which is ideal for smaller businesses that require a stand-alone system, whilst the non-LCD version is suited to those with a computer or server infrastructure.

Highest
encryption,
maximum
security

Wiegand
PROTOCOL

Wiegand solutions for technology adoption

The Access Portal range of hardware includes the most common communication method for access control systems – the Wiegand protocol.

The Wiegand range of equipment offers the same plug and play simplicity as the other Access Portal hardware, where a controller and module are quickly snapped together, making site installation and expansion quick and convenient. Especially as no wiring is necessary between the modules, as all power and communication is managed through our innovative clipping mechanism.

A unique benefit of the Wiegand equipment is the ability to have very long cable runs between the modules and readers – up to 150m. Giving greater flexibility and reduced cost, as multiple doors can be wired to one clustered Wiegand solution. The solution is also ideal for specialist installations such as elevators.

A world of choice

The Wiegand range includes a variety of readers to suit almost every application, from interior and exterior readers, traditional junction box mountings and one of the smallest reader footprints.

All Impro multidisciplinary readers (covering both 125kHz and 13.56MHz) provide enhanced security through the use of AES128 encryption on the Wiegand protocol – making them virtually un-hackable.

New technologies

Whilst Wiegand has been available for many decades, it is still the preferred standard for many installations around the world. It is also the preferred standard for many new technologies and products, due to the global footprint.

Customers wanting to use high end products, such as fingerprint, facial or hand biometrics can do so with our Wiegand hardware, along with increasingly popular wireless locks.

Mobile devices are fast changing the world and access control is no different. Today, by choosing the Wiegand solution, you can enjoy the freedom and flexibility of a virtual credential on your phone.

WHO SHOULD USE THE SOLUTION?

Customers wanting:

A tried-and-tested solution

- A system that has an installed base of millions
- New technologies such as biometrics and wireless locks
- Mobile phone functionality

Access in a
BOX

Access in a box is based on our S-Series technology and with the optional LCD touch screen controller makes true "access in a box" a reality.

With all the key requirements housed in one secure metal box, deploying an access control solution into a small site has never been easier.

Pre-wired

The boxed solution is pre-wired, making for a quicker installation. The unit includes a Meanwell switch mode power supply as well as fused battery leads, a charging circuit and space for an optional 7AH battery. This ensures that even if there is a loss of power, your access control continues without a problem.

APB Doors

Access in a Box is also one of the world's first to offer APB (anti pass back) door mode for small installations.

The system is designed to support up to eight APB doors in a single IPS box and 1,000 tagholders, whilst still offering simple scalability to ensure the solution grows with your needs.

No PC or server needed

A key innovation of Access in a Box, also known as Access Portal Lite, is that there is no requirement for a computer – everything from enrolment, configuration and commissioning can be undertaken through the optional LCD touch-screen or through a secure web page on any HTML5 compliant device, such as a cellphone, tablet or laptop if you prefer.

Access reports 24/7

No matter your location, as long as there is an internet connection to the access control system you can access your reports and manage your site 24-hours a day, from anywhere in the world.

Secure

The system includes a tamper switch on the box, which will send an alert in the event of it being opened and an on-board audit trail, for enhanced security.

True plug-and-play technology gives you enhanced flexibility to build a solution specific to your needs.

Works straight out the box

11:35

ACCESS
portal

Powered By
Linux

Application
CONTROLLER

The application controller is an open source Linux-based computer that brings powerful computing in a small, sleek unit.

Designed for large installations, especially multi-sites, the application controller has the capacity to manage over one million tagholders and ten million buffered transactions.

One application controller can manage a host of cluster controllers, and multiple zones, giving you a high level of flexibility and control.

The unit is also available with a touchscreen LCD.

When to use application controllers

Within larger sites, multiple application controllers are used to effectively ensure distributed control. This removes the risk of a single-point of failure, resulting in enhanced uptime.

Onboard diagnostics

The application controller includes onboard diagnostics and the unit has the ability to undertake remote firmware downloads, for greater convenience.

Security

Security is enhanced as the application controller is an independent device that replaces the previously used X86PC platform. This enables greater control over the applications installed on the device.

OEM version

The application controller is also available as an OEM version for developers to create custom software, such as time and attendance or parking solutions, with high availability and housed within a single unit.

The device includes an ethernet port, USB and RS485 port with automatic line-turnaround to allow for the control of other devices.

The full power of Debian 8 Linux is available to developers through the use of a 1GHz ARM Cortex A8 microprocessor. The application controller also comes standard with a Python 2.7 interpreter.

Mobile
PORTAL

Mobile Portal provides complete mobile validation for your access control system, in a sleek hand-held unit.

The unit is ideal for remote locations, such as temporary entrances, festivals or almost any location.

Offline validation is assured as Mobile Portal stores the database on the device. In addition, all transactions are visible on the full colour touch screen, at the time of the event.

Feature rich

Mobile Portal provides full support for tag and finger verification, as each device includes full fingerprint biometrics. The unit can read both ISO14443 cards and industry standard cards (Mifare, iCLASS and Felica); and can be configured to read both tag and finger, or just tag.

Synchronising data

All transactions performed by Mobile Portal are seamlessly uploaded to the Access Portal management software for complete auditability and reporting, as if the device was a traditional fixed reader.

Choose your direction

Directional reads can be individually set on Mobile Portal. This means when a visitor arrives, the operator logs the event as an entry and, when leaving, the visitor is logged as exiting.

This provides for accurate reporting, when synchronised to Access Portal as you can account for all people at a remote location.

The reader can also be set to one direction (entry or exit) for when a large amount of people are entering a facility, for example, time logging of employees on a construction site.

Robust

Mobile Portal is designed for harsh environments and can withstand multiple drops from six foot to concrete, but is still light enough to comfortably carry in one hand.

Third party
PRODUCTS

We offer a variety of integrated third party products, which enhance your access control system.

We understand that customers do not want multiple vendors and suppliers. Nor do you want the stress of having to integrate these products, or operate multiple systems.

Our third party products work seamlessly on Access Portal's management software, which means you have peace-of-mind and just one location to control your operation.

Biometrics

Every person has unique identifying factors and biometrics are fast becoming the must have technology in your access control solution.

We provide a variety of biometric options, from fingerprint, to hand, wave and facial recognition.

The readers can be used in conjunction with other credentials, such as a tag or card, and even PIN, for enhanced security.

Wireless locks

Increasing convenience with no strings attached, that's our promise with our range of integrated wireless locks.

The ASSA ABLOY Aperio range of wireless locks are ideal for customers looking to get rid of keys for their interior doors, or doors that cannot utilise traditional wiring methods.

The Aperio range includes a variety of door fittings, as well as cabinet and server locks.

Long range UHF readers

Our long range readers are ideal for vehicles and people, where the entrance opens automatically as they near the facility. This distance can be from under a metre, to over 10 metres.

Great success has been achieved in residential estates, wanting to reduce queues at entrances, as well as in health facilities where no-touch is preferred.

Automatic number plate recognition (ANPR)

ANPR is becoming increasingly popular whereby the number plate is read by the device and the vehicle entrance automatically opens.

Seamless
INTEGRATION

We offer an extensive API (Application Programming Interface) for third party developers and organisations to integrate into Access Portal.

Open architecture

Adding, upgrading or swapping system components is easy with Access Portal, due to the open architecture. This also ensures that the system is completely flexible and scalable to any customers' needs.

Whether installing access control for only a few doors, or many thousands of doors, the same hardware and software is used – providing a great return on investment as one solution meets the growing needs of any operation.

Simply add additional hardware to the installation, coupled with a software license key, and the system is ready to go – no database migration, no data loss and no hassle.

Access Portal provides an array of integrations into other security and management platforms.

In addition, the software has an extensive API for custom integrations to third-party solutions for a seamless operation.

Integrated products can include:

- Time & attendance
- Video management and CCTV
- Intrusion systems

- Wireless and electronic locks
- Fire
- Biometrics

Customisable interface

The management software provides the ability to be tailored to specific customer needs. This spans from the colour set and logos in the software, to adding additional fields or special actions.

This level of personalization is almost unrivalled in the industry and enables customers to have a bespoke solution, without the associated high cost.

API (Application Programming Interface)Access Portal comes with an extensive API that enables third-party access to integrate other solutions with the access control software. A key benefit of the API is the ability for developers to query down to a table level, rather than simply the traditional elementary actions.

The API is a fluid document that is upgraded and enhanced by our specialist developers, as new functionality is provided within Access Portal.

Part
NUMBERS

S-Series
HARDWARE

LCD S-Series

LCD cluster controller,
one S-Series module

HCS935

HCS915

LCD S-Series

LCD cluster controller,
two S-Series modules

HCS936

HCS916

**S-Series
module**

Single S-Series
module for
expansion (IPS)

HMS901

**S-Series
module**

Single S-Series
module for
expansion (Plastic)

HMS900

S-Series tag

Encrypted credit
card ISO tag

TSC920

SIR reader

Plastic enclosure
IP54

SIR900

S-Series

Cluster controller
without LCD, one
S-Series module

HCS910

HCS930

S-Series

Cluster Controller
without LCD, two
S-Series modules

HCS911

HCS931

S-Series module

Single S-Series
module for expansion
(Plastic)

HMS900

S-Series module

Single S-Series
module for expansion
(IPS)

HMS901

SIR reader

Plastic enclosure

IP54

SIR900

S-Series tag

Encrypted credit
card ISO tag

TSC920

Wiegand
HARDWARE

LCD Wiegand

LCD Cluster controller,
one Wiegand reader
module

HCW935

HCW915

LCD Wiegand

LCD Cluster controller,
two Wiegand reader
modules

HCW936

HCW916

LCD Wiegand

LCD Cluster controller,
three Wiegand reader
modules

HCW937

HCW917

Wiegand module

Single module
expansion for IPS
or plastic housing

HMW901

HMW900

HCW910

Wiegand

Cluster controller without LCD, three Wiegand reader modules

HCW930

HCW911

Wiegand

Cluster controller without LCD, two Wiegand reader modules

HCW931

HCW912

Wiegand

Cluster controller without LCD, three Wiegand reader modules

HCW932

HMW900

Wiegand module

Single module expansion for IPS or plastic housing

HMW901

Antenna
HARDWARE

LCD Antenna

LCD Cluster controller, one Antenna reader module

HCL935

HCL915

LCD Antenna

LCD Cluster controller, two Antenna reader modules

HCL936

HCL916

LCD Antenna

LCD Cluster controller, three Antenna reader modules

HML937

HCL917

Antenna module

Single module expansion for IPS or plastic housing

HML901

HML900

HML910

Antenna

Cluster controller without LCD, one Antenna reader module

HML930

HML911

Antenna

Cluster controller without LCD, two Antenna reader modules

HML931

HML912

Antenna

Cluster controller without LCD, three Antenna reader modules

HML932

HML900

Antenna module

Single module expansion for IPS or plastic housing

HML901

IO8
HARDWARE

IO8

Cluster controller without LCD, one IO8 module

HCO930

HCO910

IO8

Cluster controller without LCD, two IO8 modules

HCO931

HCO911

IO8

Cluster controller without LCD, three IO8 modules

HCO932

HCO912

IO8 module

Single module expansion for IPS or plastic housing

HCO901

HCO900

Wiegand compatible
READERS

Multi discipline readers

MDR

Mullion reader
Metal enclosure
Rated IP54

HRW900

MDK

Mullion keypad reader
Metal enclosure
Rated IP54

HRW901

MJR

Multi-discipline
junction box reader
Plastic enclosure

HRN900

MJK

Multi-discipline junction
box keypad reader
Plastic enclosure

HRK901

Wiegand readers

WMR

Metal reader
Solid zink alloy
Rated IP53

HRW920

WMK

Metal keypad reader
Solid zink alloy
Rated IP53

HRK920

Antenna compatible
READERS

MHA

Metal reader
Solid zink alloy
Rated IP53

HRL902

KHA

Metal keypad reader
Solid zink alloy
Rated IP53

HRL906

AMR

Mullion reader
Metal enclosure
Rated IP54

HRL903

AMK

Mullion keypad reader
Metal enclosure
Rated IP54

HRL904

AJB

Junction box reader
Plastic enclosure

HRL905

MA

Mullion reader
Plastic enclosure

HRL901

MMA

Micro mullion reader
Plastic enclosure

HRL900

Other
ACCESSORIES

Four button

Remote quad-transmitter

TRK900

RF receivers

Wiegand 433MHz
RF receiver with
built-in antenna
and buzzer

HRR900

Enrolment reader

Reading and writing
credentials to tags

HRN980

Tag retention reader

(DROP-BOX)

2 relays and 4 digital
inputs

Powder coated
stainless steel

HRD901

Tag retention reader

(DROP-BOX)

2 relays and 4 digital
inputs

Stainless steel
construction

Internal mechanism only

HRD900

Various tags available

Encrypted credit
cards, key FOBs, clam
shell cards, multi
tech cards.

**Ask your Impro sales
rep to guide you**

Corporate

Company
PROFILE

Company
founded

FlexiScan E

Long range
scanner

UniScan

OmniScan

IXP 100

ProxPal

ProxMate

1986

1995

1997

1999

2001

1990

1992

1996

1998

2000

Original
2 reader
MultiScan

LinkScan

Vehicle
Fuelling
System

DynaTrack
Miners

MultiScan II

IXP 200

IXP 110

MDR reader

iTT controller

iTRT controller

BMTA biometric
reader

CCTV
integration

2006　　**2009**　　**2011**　　　　　**2016**

2005　　**2008**　　**2010**　　**2013**　　　　**2017**

MFT

IXP 121

SupaGate

QuadTag

IXP220

Mullion
reader

IXP 125

Access Portal
hardware

Access Portal
Software

S-Series

Aperio
wireless
locks
integration

2015
31 December
Acquired by ASSA ABLOY

Company
PROFILE

Impro Technologies was founded in 1986 by three South African entrepreneurs who originally worked together in the electronic measurement industry.

A key strength of the business was the expertise of the founders in both engineering and sales.

This proved invaluable when they saw the opportunity to use Radio Frequency Identification (RFID) in a new application – that of access control.

This resulted in us pioneering trinary encoding in the late 1980s and gave birth to the class-leading LinkScan system.

We were again at the forefront in the early 1990s when we were one of the first companies in the world to develop a custom chip our access control solutions - the ASIC, Application Specific Integrated Circuit.

The ASSA ABLOY group

At the end of 2015 we were acquired by the global ASSA ABLOY group.

Whilst still operating independently, we have the benefit of the group's vast intellectual property and resources, knowledge and expertise at our disposal.

This creates a win-win for our customers, who are assured of us of continuing to pioneer solutions both today, and tomorrow.

Internationally accredited

As with any global company, rigorous standards are applied to the development and manufacture of all our products.

Our processes are RoHS compliant and, where applicable, are internationally accredited for safety and quality.

Global player, local partner

Today we export products to over 60 countries, spanning four continents.
From a small operation on the east coast of South Africa, the company has grown to become a global player in the access control industry.

Through an extensive network of distributors and dealers, we are also a local partner. Our established network of companies has been built up over many years and provides you with local knowledge and expertise, as well as in-country sales and support.

Manufacturing
EXCELLENCE

Every product begins as an idea. Our engineers and developers craft this into a product, system and solution that will meet the needs of our customers around the globe.

However, as with everything, testing is key and our manufacturing process is no different.

Once the prototypes are complete, a phased approach, incorporating extensive in-house testing an international accreditation is undertaken.

This includes environmental testing chambers to ensure our products operate in extreme temperatures.

Building the electronics

The first process in manufacture is the surface mount technology. This is where the electronic board is populated with components by the pick-and-place machinery.

Part of the process includes the machine verifying the correct placement of each and every component as an automated quality check.

Into the oven

The board moves into a soldering oven where the temperature ensures the bonding of the component onto the circuit board.

In addition to providing a high quality bond, our process is RoHS compliant, meaning no harmful lead is used in the process. Another visual quality check is undertaken to ensure the product adheres to our standards, before moving further in the process.

Built to last

The larger components are populated on the board and another quality inspection completed.

Once all the components have been placed, the board is conformal coated to protect against water and insect ingress, and ensure a longer life for the product.

Final assembly

The coated board is ready to be placed in the exterior housing.
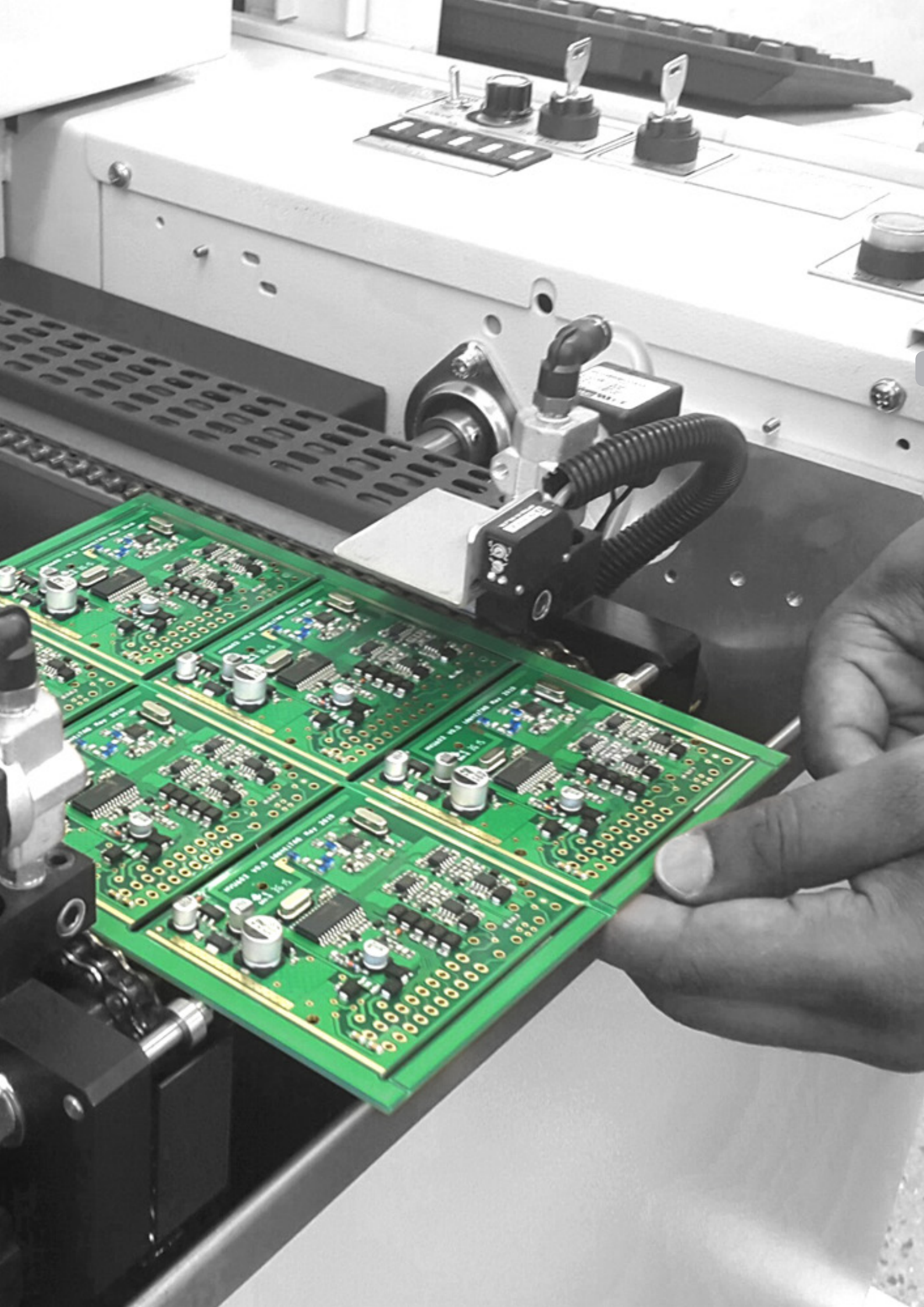
This is done by hand, as it's the most efficient method given the different mix of products manufactured each day. It also provides much needed employment and, where possible, we utilise personnel rather than machines for this specific reason.

Another visual and full operational test is concluded to ensure the product is able to perform as designed.

This is a significant and important component of our manufacturing process as customers are assured that every single product has been extensively tested prior to shipping.

We believe this is a more thorough and comprehensive method to the traditional batch-sampling.

From here our products are dispatched around the world.

Accredited
TRAINING

We offer an array of accredited training on Access Portal, to ensure complete confidence in installing and using the system.

Certified training

Our certified training courses are designed for installers, to ensure they are fully conversant with the system.

The courses provide a mix of theory and practical work and encompass the full installation needs – from wiring, through to system configuration and commissioning.

Our courses also cover the use of integrated third party devices, such as biometrics, long range readers and anpr (automatic number plate recognition).

Successful completion of the course results in the installer becoming an accredited Impro installer, providing customers with peace of mind, knowing their installer is fully competent on the system.

Dedicated training centres

Our client services division is able to support you in all aspects of a project, from conception to completion.

This could be guidance on specifications to ensure the right solution for your needs, to assisting with integrating other security or personnel systems, as well as provide best practices for you to efficiently operate and maintain the system.

Online

We also provide specialised online training for customers with video conferencing facilities, and frequently host webex seminars. This service provides practical training on the software only.

Technical
SUPPORT

Our support division provides free 24-hour assistance to ensure you gain the full benefit from your Access Portal solution

The Technical Support centre provides free telephonic and remote online support 24-hours a day, 7 days a week.

Our support specialists have extensive experience in configuring and operating Access Portal systems, to ensure any challenges you face are quickly resolved.

When you need help, you can call on us, knowing there will be no extra hidden costs.

On site assistance

On site services are provided for larger installations, bespoke designs, or highly customised integrations.

With the ground breaking technology offered by the Access Portal system, a whole world of integration and customisation is possible on this unique, technically advanced operating platform.

Our client services division is able to support you in all aspects of a project, from conception to completion.

This could be guidance on specifications to ensure the right solution for your needs, to assisting with integrating other security or personnel systems, as well as provide best practices for you to efficiently operate and maintain the system.