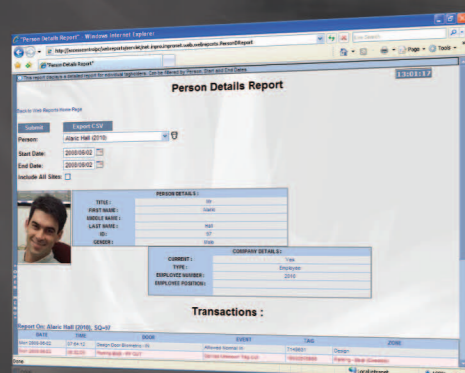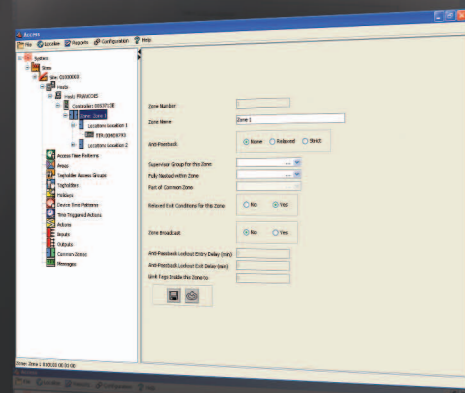**IMPROTOUCH**

GRAPHICAL USER INTERFACE WITH CCTV INTEGRATION

WEB REPORTING

IMPRONET ACCESS

IXP400i Software

The following modules are available for the ImproNet Software:

- ImproNet Engine
- ImproNet Access
- Transaction Viewer
- WebReports
- Card Designer
- Time and Attendance
- Alarms
- Visitors
- QuickTag
- Graphical User Interface

System Parameters

- Designed for large multi-door enterprises
- Up to 300 000 tags per site
- Up to 3 000 Doors/Locations per site
- 255 sites per System
- Third-party Hardware and Software Integration
- Up to 1 000 000 buffered transactions per controller

ImproNet Key Features

- Networkable hardware & software on LAN or WAN
- SQL compatible open architecture client/server database
- ODBC and JDBC compliant
- Platform independent JAVA modules
- Multi-language translation facility
- Powerful wizard for Web Reporting
- System tree user-interface with drag and drop feature for programming and modifying system configuration
- User-customised operator security facilities

Tag Related Features

- Tag only or Tag + PIN entry
- Duress codes
- Multiple Tags per user
- Tag access groups
- Tag counter functions
- Time limited access
- Tag suspension facility
- Tag location monitoring
- Time patterns
- Anti-passback control

System Related Features

- Visitors and hosted Visitors
- Field upgradable firmware
- Password control
- Holiday support
- Audit trail
- Webhelp
- Dual Tag entry - high security
- Data archiving
- Building Management
- Random search
- Zone Routing
- Supervisor Tag unlock
- Intelligent zoning
- Cross zone support
- Zone grouping
- Fully nested Anti-passback zones
- Zone-based Tag count

Seamless Integrations with

- Biometrics
- CCTV
- Time and Attendance
- Intrusion systems
- Fire suppression systems

System Specifications

Total Number of Tags	300 000	Actions Supported	50 000
Total Buffered Transactions	1 000 000	Time Triggered Actions	256
Sites per System	255	Tags per Person	8
Controllers per System	64	Tagholder Access Groups	10 000
Locations per Controller	64	Elevator / Lifts	15
Readers	3 000	Elevator / Lifts - Floors	80
Doors	3 000		

CONTROL THROUGH FLEXIBILITY
POWER THROUGH DESIGN
INTEGRATED access control

Flexibility rivalled only by custom systems

Up to 3 000 Doors per site

Up to 300 000 Tags per site

Ethernet compatible hardware and software

Integrated Graphical User Interface

Building Management with Elevator Control

Powerful web reporting

Operator Security

Advanced site control features & functionality

www.impro.net

impro technologies®
ACCESS CONTROL

IXP400i is a multi-door, enterprise level access control solution.

This system uses powerful 2nd generation ImproX Ethernet Controllers and ImproNet Software to control multiple sites across a worldwide network. IXP400i features the latest security innovations including seamless integration with Digital Video Recording (DVR) systems and enhanced effectiveness with a single User Interface. The end result is a complete security environment ideal for enterprise organisations.
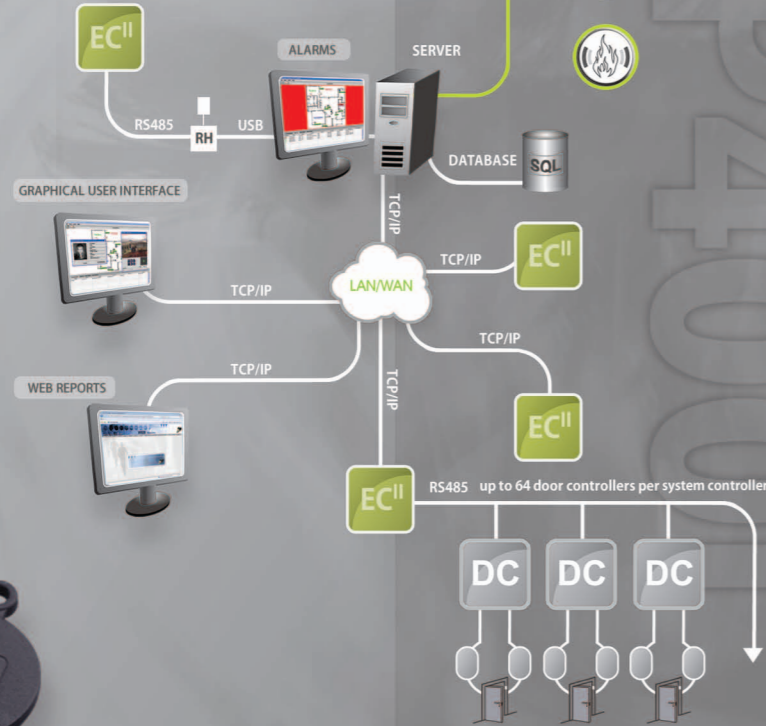
3000 DOORS

300 000 tags per site

1 000 000 buffered transactions (per controller)

255 Sites per system

impro technologies
ACCESS CONTROL

DC DOOR controllers

All Door Controllers are compatible with the IXP220, and IXP400i Systems. Each Door Controller is compatible with specific Readers. Always select the correct Readers for the chosen Door Controller.

IMPROX MfT - Multi-functional Terminal supports either two 125kHz ImproX Antenna Readers and a third Wiegand Reader (either third-party or ImproX) or two ImproX Multi-mode Readers. The MfT connects directly to the RS485 Terminal Bus. The MfT has on-board intelligence and can operate offline from the System Controller.
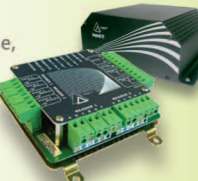
IMPROX TRT - Twin Remote Terminal is a read-only Terminal with two Reader ports. The ImproX TRT supports either two Multi-mode Readers or two ImproX or third-party Wiegand, TTL or Clock & Data readers. It can control one door in full anti-passback or two doors with single entry.

IMPROX TT - Twin Antenna Terminal provides access control to one door in full anti-passback mode, or two doors with single entry. The ImproX TT supports two antenna readers. Two relays and four digital inputs provide full control of any access application.

integrated access control

ImproNet Software

ImproNet Engine
ImproNet Access
Transaction Viewer
Web Reports
ImproTouch

ImproVision
Alarms
Visitors
QuickTag
Graphical User Interface

EC^{II} SYSTEM controllers

The ImproX Ethernet Controller is the latest indication of Impro's demand for technological excellence. The EC^{II} is one of the first true Linux-based, embedded, 10/100Mbps access control controllers on the market. It is a key component in Impro's drive to redefine the ability and expectations of access and security control systems. The EC^{II} uses it's increased memory capacity to expand the functionality of its predecessors, the AC and EC. In addition, the true network compatibility, resultant high communication speeds and custom development capabilities of the controller elevate it to an IT niche yet to be explored. With the advanced native TCP/IP communications structure and integration options of the software suite, coupled with the EC^{II} controller, the new IXP400i system opens markets as yet untapped by traditional access control systems.

KEY for diagram

EC^{II} SYSTEM controllers

DC DOOR controllers - selection
All Door Controllers are compatible with the IXP120, IXP200 and IXP400 Systems. Each Door Controller is compatible with specific Readers. Always select the correct Readers for the chosen Door Controller.
ImproX MfT - supports 3rd party/ImproX 125kHz
ImproX TRT - supports Multi-mode/Wiegand
ImproX TT - supports ImproX Antenna

DOOR readers - selection
125kHz Antenna Readers
Biometric Readers
MiFARE Multi-Mode Readers (13.56 MHz)
Wiegand Readers
Vehicle Entry Long Range Readers
Extended Range Readers
Infrared Readers
Dropbox Visitor Tag Readers
Time and Attendance Readers

TAG REGISTRATION reader

ALARMS SERVER

RS485 USB

RH

DATABASE SQL

GRAPHICAL USER INTERFACE

TCP/IP

WEB REPORTS

TCP/IP LAN/WAN

TCP/IP EC^{II}

TCP/IP

EC^{II}

EC^{II} RS485 up to 64 door controllers per system controller

DC DC DC

INPUT/ OUTPUT terminals

The O16 and I16 provide 16 outputs and 16 inputs respectively for use in building management or Alarm Monitoring. These terminals connect directly off the RS485 Terminal Bus.

INTEGRATION of third party products

BIOMETRICS - a variety of fingerprint readers interface with the IXP400i system

INTRUSION ALARM - Third-party Intrusion Alarm integration is via the controller using digital inputs & relays.

FIRE ALARM - Third-party fire or emergency panel to initiate Emergency Unlock procedure.

DIGITAL VIDEO - Integration with third-party DVRs provides greater flexibility to the access control system.

FLOOR PLAN GRAPHICS - An integrated building Graphics Module enables the user to view custom floor plans of their site. Graphics Designer imports floorplans, maps and images.

IMPROX ANTENNA Readers

There are nine Antenna Readers, with options including plastic and metal housings, keypad and non-keypad, and can be surface mounted or concealed. ImproX Antenna Readers are for indoor or outdoor use. The keypad can be used with PIN code or Reason code entry. Non-keypad readers include a single tone buzzer and a status LED. Electronic components are potted, enhancing resistance to vandalism or tampering.

IMPROX MULTIMODE Readers

ImproX Multi-mode Remote Readers (13.56 MHz) are compact tag readers capable of reading both MiFARE and FeliCa tags. They interface with the ImproX TRT.

IMPROX WIEGAND Readers

The ImproX Wiegand Readers interface with the ImproX TRT and support multiple tags and Impro standard tags. 26 bit & 44 bit communication modes are available in one reader.

ADDITIONAL READER OPTIONS for the IXP400i System

Suitable applications are large enterprises such as universities, hospitals and large industrial sites, to name but a few!

Improx Time and Attendance (TA) Reader.

ImproX Infrared Vehicle Transmitter and Receiver.

The ImproX Extended Read Range Readers (ER) are ideally suited for applications where extended passive read range is necessary.

The ImproX Quad Transmitter (QT) is a 4 button handheld UHF remote control as well as a passive tag that operates with the ImproX UHF (RF) Receiver.

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Control THROUGH FLEXIBILITY
POWER THROUGH DESIGN