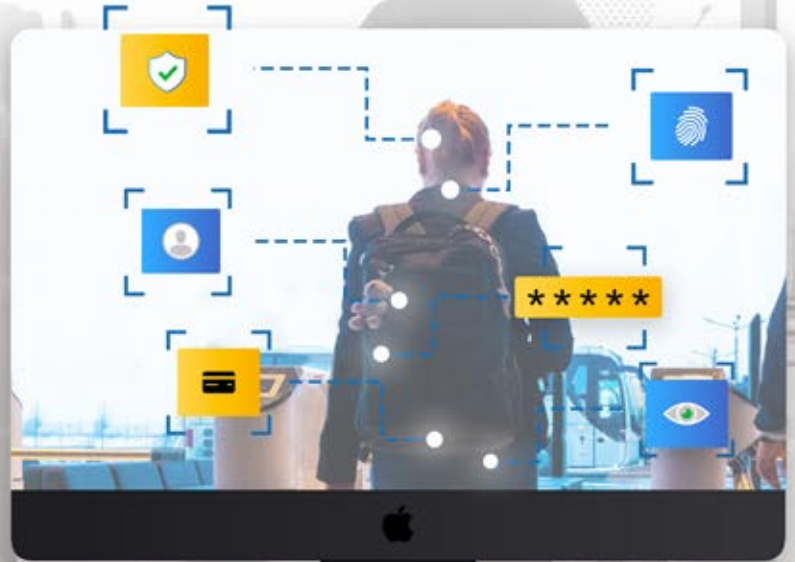


# ARCO

## Access Control Solution

Unlimited Access Control and Intelligent Management System



The ARCO Solution is an intelligent, browser-based Access Control System capable of scaling to and managing thousands of controllers and remote sites. It's ideal for small enterprises too, commercial property and across but not limited to the following markets:

Telecommunications, Multistore Retail, Shopping Malls, Airports, Railway & Metro, Public Buildings, Industrial Manufacturing, Banking, Office & Apartment Buildings, Energy & Utility, Hotels, Hospital & Health Institutions, Education, Harbour & Shipyards, Marine, Tunnels, Oil & Gas, Theatres & Concert Halls, Museums, Stadiums, Religious Buildings, Congress & Exhibition

### CORE COMPONENTS

1

A compact, low power, multi-function IP based access control solution. Supports multiple types of access control reader (e.g. proximity, Mifare, Desfire, iClass, BLE, QRCode) in association with other alarms and building management inputs.

2

Supports a complete range of card readers, biometric readers, PINpads, mobile credentials and applications and door management interfaces. Adapted for doors, barriers, airlocks, facial recognition and ANPR complete the range of readers.

3

A full web centralised management system for access control, allowing complete reporting and audit trail. Monitoring of door conditions, battery status, run-time. Multi-lingual, Cloud, hardware and database independent. Connects to legacy controllers through specialist interfaces.

## S1000 Smart Controller

The S1000 Smart Controller remotely manages access control and building management functions. All controller configuration is stored locally and will continue to operate if connection to ARCO is lost. There is no limit to the number of controllers capable of being linked to ARCO.



### Configurable Functions



The S1000 Smart Controllers enables you to expand its function using adaptor modules and other network devices.

#### Card Reader Interface

Supports CRI expansion card up to 3 per controller.  
CRI OSDP keypad and reader devices supporting up to 1 Door Read In/Out or 2 doors Read In/RTE.  
Support degraded mode for up to 1000 users in case offline to the controller.

#### Card Readers

Support any Wiegand readers or OSDP readers over RS485.

#### Audio Monitoring

Each Audio module allows up to 4 analogue microphones and 1 speaker to be connected.

#### Door Contact

Support both dry contact relay and solid-state door strike relay for heavily used doors.  
Door contact input and door strike input separately monitored.  
Door strike can be set to be normal release or magnetic release type.

#### Remote Monitoring

Report events to up to 3 separate monitoring systems.

### Expandable Limits

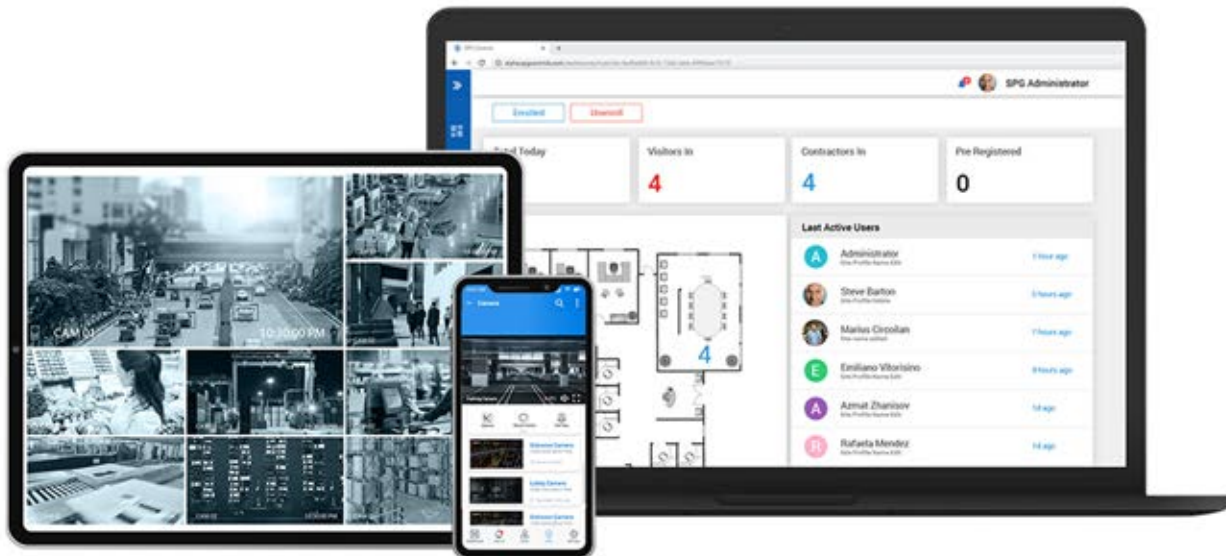


The S1000 Smart Controllers enables you to expand its capabilities specifically for your system requirement.

Function	Limit
User Roles	150
Card Credentials	500,000
Card Formats	up to 128 bit
offline transactions	65,000
Doors	16
Readers	32
Elevator Floors	60

## ARCO Platform

The ARCO Platform is a powerful management tool designed to provide a simple user interface via a mobile application; or to operate within a central station monitoring environment; or to connect to a third party site security management software system.



The software allows the management of the database of users, badges and visitors. A reporting tool allows you to customise all the reports available on ARCO. The dashboards are fully configurable and interactive graphic and geographic screens facilitate the management and consolidation of data by presenting the current states of accesses, dynamic counting zones and expected visitors.

ARCO Platform handles the central management of access rights for accessing areas or the opening of site doors or locks that are distributed to the intelligent keys held by engineers and other personnel. It communicates the access authority (specified locks and time windows) to the smartphones/tablets/laptops used by keyholders to transfer opening rights to their key. The system also holds the master history of access events across the estate.

### Software Features

- Support for unlimited S1000 Smart Controllers
- Support for unlimited users
- Support for unlimited user roles
- Users support unlimited credentials
- Support for unlimited doors
- Credentials supported include but not limited to:
  - ID card
  - PIN
  - Biometric
  - QR code
  - Barcode
  - License plate
- Fully configurable user properties including custom fields

## Hybrid Alarm and Access Control

The ARCO Solution's Access Control is fully integrated into the Alarm Operation.

### Comprehensive Door Controls



The S1000 Smart Controllers enables you to configure a series of properties that determine the behaviour of the doors.

- Door strike can be set to be normal release or magnetic release type
- Monitors if door has been opened during access
- Support for Door bolt mode of operation for complex door operation
- Support for turnstile door mode to allow fully operational 2 way turnstile control of the door
- Support for programmable strike time, shunt time, door open warning time, strike release delay
- Supports fully configurable schedules for door lock, door unlock and when RTE is allowed
- Supports fully configurable schedule for dual factor mode ( card plus PIN ) and Card or Pin.
- Supports full mantrap/interlock grouping of doors
- Supports hard and soft antipassback
- Supports timed antipassback to prevent a user from using the same card on a door for a configurable time
- Supports duress mode
- Support for 2 factor and 3 factor authentication modes
- Support for Dual user area operation whereby 2 users must be present in an area
- Support for Dual supervised area whereby 2 users must be present and one must be a supervisor

### ARCO Visitor Management



ARCO enables quick and accurate identification of visitors in facilities with a high frequency of guests or a high level of safety requirements.

- Unlimited visitors
- Fully configurable dashboard to show visitor status
- Blacklisting of visitors
- Visitor pre-enrolment
- Host notification
- Visitor reports
- Interfacing to various enrolment devices such as passport OCR scanner, smart ID card chip reader

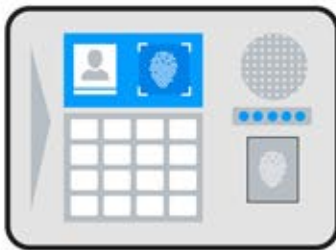
### ARCO Elevator Control



The S1000 Smart Controller and constituent devices provide state-of-the-art elevator access control functionality.

- Support for unlimited elevator cars and floors
- Users can be assigned access to any floors in the system
- Floor schedules supported for public floor access

### ARCO Biometric Integration



Biometric Reader Integration uses next-generation facial recognition and body temperature detection technology. This ensures absolute no surface contact access using high-precision facial and temperature detection.

- Supports integration to Face detection hardware
- Full biometric template management built-in
- Biometric device synchronisation maintained
- Thermal detection if supported on device and data stored in ARCO
- Face mask detection if supported on the device

### Artificial Intelligence Automation



Fully configurable rules engine that automate different processes in your system. You will be able to create Rule Set to manage large numbers of sites to automatically perform specific tasks.

- Any reader condition can trigger an action
- Any Door state can trigger an action
- Specific user or user type can trigger an action
- Any duress can trigger an action
- Alarm can trigger an action
- Any valid user double swiping
- Count of users in an area can trigger an action

## Third-Party Integration



Expand your system further through third-party integrations.

- Network Video Recorder (NVR)
- Digital Video Recorder (DVR)
- Automated License Plate Recognition (ALPR)
- Inovonics EchoStream Devices
- ASSA ABLOY Aperio devices
- CLiQ wireless access control support

## Security Compliance



### EN 60839 Certification

Alarm Systems - Electronic Access Control Systems

- EN 60839-11-1:2013
- Grade 3



### EN 50131 Certification

Alarm Systems - Intrusion and Hold-Up Systems

- Environmental Class II
- Security Grade 4
- EN 50131-10:2014
- EN 50131-1:2006 A1:2009
- EN 50131-3:2009
- EN 50131-6:2017



### EN 50136 Certification

Alarm Systems - Alarm Transmission Systems and Equipment

- EN 50136-1:2012
- EN 50136-2:2013

System Diagram

