Gallagher
Data on Card and Wireless Doors

Salto extends the basic access control capabilities of the Gallagher system to lower security internal doors and provides a range of options to compliment Gallagher wired access control doors. The Gallagher data on card and wireless integration is the smart choice when it comes to reducing the overall cost for an enterprise-wide access control solution.

Key Benefits

The Salto data on card solution offers numerous capital and operational savings including:

- **Cost effective and easy install** – no power supply or wiring required at the door

- **Less hardware required** - no controllers necessary as offline readers rely purely on cardholders transferring the data around a site via the badging of their cards at multiple wired/non-wired readers

- **Removal of key and key management related costs**

- **Reducing dual system management** – eliminates the need to manage and train staff in two seperate systems and provides one encoder for both data entry and writing cards, keeping all card management in one location

- **Re-use of existing cardholder Mifare Smart Cards** to provide access to both Gallagher and Salto readers

- **Monitor "battery low" alarms** from Salto readers

- **Management of on-site activity reports** from Gallagher Command Centre

- **Reduce energy consumption by 65%** with the installation of the Salto Energy Saving Device (ESD)

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Salto Wired Reader

Salto Wide Body Escutcheons

Salto Narrow Body Escutcheons

Wireless Gateway

Salto Aelement

How it works

Gallagher Command Centre manages all cardholder configuration and access rights as well as events and alarms at Salto readers. This allows one management platform to handle all day-to-day aspects of Salto data on card and wireless readers.

- The Salto data on card functionality allows you to add/remove a cardholder's access to Salto offline readers without visiting the door itself. When a cardholder presents their card at a Salto wired reader, changes in their allowed access are retrieved from Gallagher Command Centre and written to the card

- If a card is lost/stolen the Gallagher Command Centre operator can immediately issue a new card and place the old card on a "blacklist". This list is then distributed and access will no longer be available via that particular card (the distribution method differs depending on the hardware option chosen for the door – i.e. data on card or wireless)

- Access events or "battery low" warnings from data on card doors are carried via Smart Cards and extracted when badged at either a wireless or wired reader and sent through to the Gallagher Command Centre for integration into site activity reporting and alarm management

Salto Wired Reader

Salto Wired Readers are the backbone of the Salto Virtual Network and are positioned in key strategic points across site. They have the ability to:

- Allow the control of access through doors
- Update the access permissions on user's cards
- Retrieve audit trail events and maintenance alarms from users' cards
- Distribute Salto "blacklists"
- Provide a Wiegand output for control of a door using a Gallagher Controller in the same manner as any Gallagher door

Salto Escutcheons

Three escutcheon technologies are available depending on a site's current and future requirements.

Salto Wide Body Escutcheons allow access control with Mifare Smart Cards to be incorporated on existing doors, utilizing existing hardware and allowing a cost-effective installation. Salto escutcheons are compatible with a number of different opening modes such as toggle mode; free access mode or automatic opening.

Privacy mode is also an additional feature – allowing access to the room to be restricted to those with privacy override privileges – perfect for hotels.

The Salto Narrow Body Escutcheons have all the functionality of a wide body escutcheon with the only exception being the lock compatibility: these will only fit with European format mortise locks with a handle rotation of 33°.

Salto Escutcheons are available in data on card, convertible and wireless variations.

Salto Dongle

Connects to Salto application via TCP/IP connection and enables card updates and encoding of Salto and Gallagher data with a Gallagher Mifare Encoder.

Data on Card Escutcheons

Access decisions are made based on the information contained on the card. These operate by reading and saving the card data such as audit trail, "battery low" alarms and blacklists and allow the transmission of this data around site via the cards being badged at multiple readers.

Salto Energy Saving Devices

Salto Geo Cylinder

Salto XS4 Lockers

Salto Geo Padlock

Salto Portable Programming Device (PPD)

Salto Wireless Escutcheons

The Salto wireless escutcheon grants access based on the data written on the card, however it also has the following additional abilities:

- A real time audit trail of access granted/denied across the site can be viewed
- Capable of receiving 'door open too long' and intrusion alarms in Command Centre

Each Power over Ethernet (POE) Gateway X1 supports up to 16 wireless escutcheons that receive the events from the locks and send them through the network to Gallagher Command Centre.

Salto AElement

A cost effective handle set for lower security doors combining an AElement Mortise Lock, Handle and Reader.

The AElement range provides for privacy and additional lock door monitoring functionality such as intrusion alarms that flow into the system via the Salto wireless network.

Salto Energy Saving Devices (ESD)

The use of an ESD will help reduce energy consumption by up to 65%. The ability to activate electrical equipment in a room is restricted to only privileged users whose Mifare Smart Cards have the relevant access permissions granted.

Gallagher Command Centre is compatible with offline energy saving devices and dependant on product selection, either one or two outputs can be utilized, allowing the control of two sets of electrical equipment in a particular room.

Salto Geo Cylinder

A direct replacement of the current key cylinder on installed locks on a site, the Salto Geo Cylinder can be installed within minutes. Compatible with a wide variety of locks worldwide the Geo Cylinder is available in: Standard Euro; UK oval; Australian oval and RIM cylinder profiles.

Salto XS4 Lockers

XS4 Lockers extend electronic access control to lockers and cupboards via standard SVN technology. Used with Gallagher Command Centre this allows:

- An audit trail of persons who either attempt or access the locker;
- Easy removal of access to locker
- Free assignment of cardholder to next available locker or to a predefined locker
- Temporary access to lockers

Salto Geo Padlock

Salto Geo Padlock extends access control to environments where it's not possible to install an escutcheon or lock.

A number of locking modes are available including: always secure; free access; toggle mode and timed toggle modes.
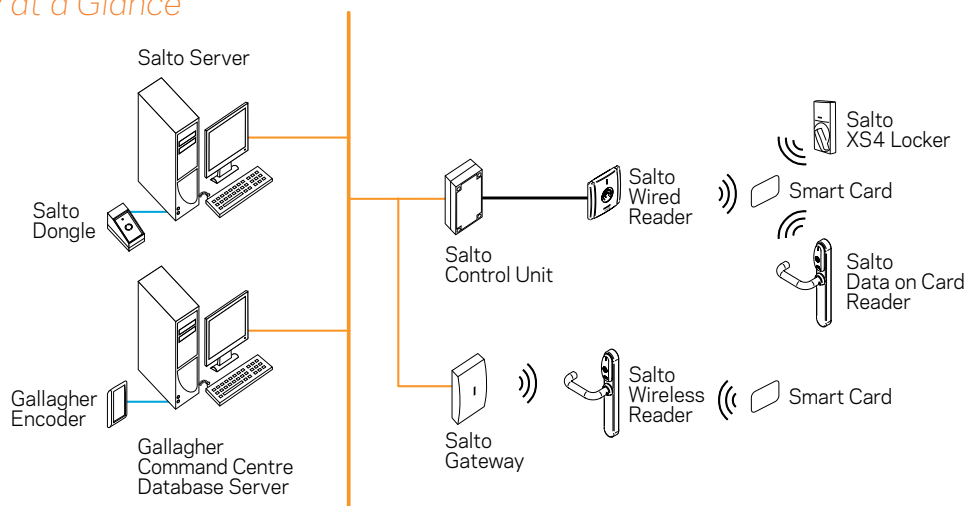
Available in data on card mode, it provides the same level of audit trail and blacklist functionality as escutcheon or cylinder models.

Salto Portable Programming Device (PPD)

A Salto Portable Programming device provides a means of communication between Gallagher Command Centre and data on card and wireless doors. The PPD allows the following functions:

- Downloading configuration changes to the door – the changes are downloaded to the PPD that is then connected to the Salto lock where the new configuration is downloaded
- Manually retrieving the audit trail stored on the lock for upload to the server and synchronization with the Command Centre event trail
- Emergency opening of a Salto door through the transmission of power to allow the door to open

Functionality at a Glance

Access Control Features	Availability		
	Salto Offline Escutcheons	Salto Wireless Escutcheons	Gallagher Command Centre
One-pass Mifare card encoding	✓	✓	✓
Management of cardholders and access	✓	✓	✓
Site activity reporting	✓	✓	✓
Centralized alarm management	✓	✓	✓
Competencies			✓
Real-time event and alarm updates		✓	✓
Evacuation reporting			✓
Site lockdown			✓
Door monitoring (forced door, door open too long)		✓*	✓
Online, automated update of door locking schedules			✓
Alarm zone control at the door			✓
Integration of access and alarm zone status			✓
Contact ID alarm reporting	✓		✓
Operator initiated door overrides			✓
Operator initiated access mode overrides			✓
Time & Attendance reporting			✓
Multi-factor authentication at the door (e.g. Card+PIN)			✓
Duress entry			✓
Anti-passback and anti-tailgating			✓
Challenge viewers			✓
Interlocking doors			✓
Zone counting			✓
Lift control			✓

* Door forced alarms will only operate effectively when escutcheons using a straight through spindle are used.

3E1366 - 02/13

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