

# Access Control Product Overview

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Flexible, integrated access control solutions

[security.gallagher.com](http://security.gallagher.com)





## The Gallagher difference

Our innovation is driven by the desire to solve problems, **meet your needs** and provide real business value.

We create and deliver access management solutions designed to protect **what's important to you**.

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## Management

### Complete site management

Gallagher Command Centre is a powerful operator-friendly security management system that enables you to:

- Manage cardholders, including their access, credential and photo identification
- Monitor alarms and control all system aspects
- Retrieve and report on stored system information
- Interface to and exchange information with third party systems
- Configure the site and all system components



## Control

### Extended control capacity

Gallagher controller devices can greatly expand the control capabilities of a security system:

- Remove the risk of one compromised connection taking down all downstream devices
- Monitor and report the state of balanced inputs
- Enforce decisions to switch output relays
- Manage multiple access points efficiently



## Access

### Secure access control

Gallagher's reader range provides contactless proximity card readers for access control management delivering:

- Rapid and secure access decision responses
- Support for multiple card technologies and mobile credentials
- A diverse selection of reader mounting and protection accessories







# Complete site management

## Gallagher Command Centre

Gallagher Command Centre is the central site management platform for the Gallagher security system. Utilizing a client server architecture, the software provides a powerful and versatile feature set, enabling system operators to configure, monitor, and control the security system.

**Gallagher Command Centre can be fully customized to suit your business needs, providing:**

- Site hardware and system components, including: access, intruder alarm and perimeter security fencing
- Schedules to automate access and alarm state changes. Doors may be configured as requiring credential only, credential plus PIN, dual access (two unique credentials), free access etc
- Entry and exit delays for intruder alarm zones
- Individually programmed responses for a cardholder or all members of an access group
- System division and assigned privileges to manage operators
- Communication with Gallagher Controllers with peer-to-peer communication independent of the server. This allows data to be automatically distributed to areas of the system where it is required
- Dial-up support for remote sites or off-site alarm monitoring



- Communication between Gallagher Command Centre and Gallagher Controllers using up to 256 bit AES encryption; a recognized industry leading level of data protection
- Configuration, live operation and reporting of on-site guard tours

## Gallagher Mobile Solutions

The Gallagher range of mobile solutions is comprehensive, and combines the power of Command Centre with the flexibility of mobile devices. Available for both iOS and Android, the apps are downloadable from Apple App and Google Play stores.

### Mobile Connect App

Our Mobile Connect App securely transforms your mobile device into an access card or ID card\*\*, at Gallagher and Salto BLE readers\* using Bluetooth® wireless technology.

Optional two-factor authentication with fingerprint or PIN lets you add an additional security step, and ensures that the person at the door, is exactly who they say they are.

Access can be set up remotely (great for temporary visitors) and the easy set-up with two-step provisioning takes no time at all.

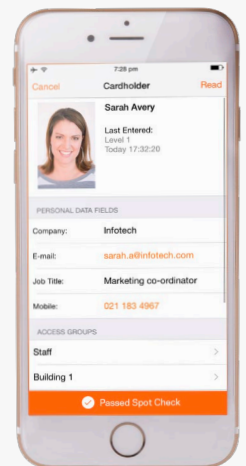
Access is made more convenient, and with FIDO open-standards powered by Nok Nok, you are secured by a globally recognized method of authentication.



### Command Centre Mobile App

The Gallagher Command Centre Mobile App enables you to extend your security and access control and provides you with the ability to manage your security from your mobile device.

The App interfaces directly with Gallagher Command Centre, providing a secure link directly to the site management capabilities that already bring security and business efficiency to your site.



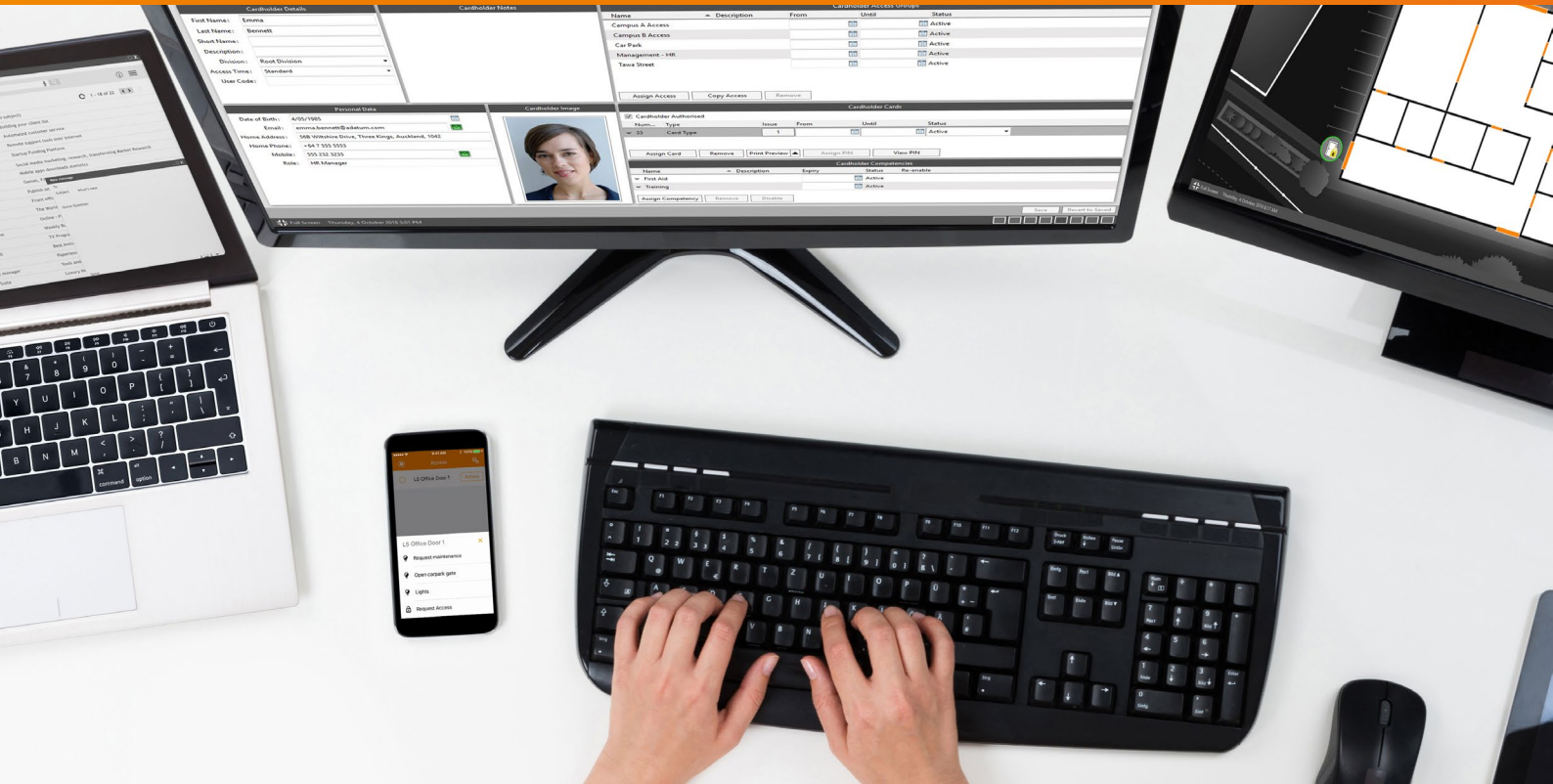
**For more information, refer to the datasheet:**  
Gallagher Mobile Connect App

**For more information, refer to the datasheet:**  
Command Centre Mobile App

\*Requires Gallagher Command Centre v8.10+ \*\*Mobile ConnectDigital ID requires Gallagher Command Centre v8.40+



# Features and integrations



The power of Gallagher Command Centre allows extensive integration with other systems\*, helping businesses to comply with a wide range of regulation standards, save money and create safe and well managed workplaces.



## Interfacing Tools

Command Centre has a wide range of tools (including REST APIs) available to extend the functionality and flexibility of the Gallagher system. Integrate with other infrastructure and technologies to deliver cost and time efficiencies and improve data integrity.



## Workforce Management

Ensure compliance to industry regulations and optimise production uptime with our full range of workforce management solutions.

Proactively: ensure people have the right certification; monitor and screen for fatigue or drug and alcohol presence; notify supervisors or restrict access where there are any anomalies.



## Building Automation and Control

The Gallagher BACnet interface allows you to run your lighting and heating only when people are in the room. Monitor and control your HVAC (heating, ventilation and air conditioning) and other business management systems through Command Centre.



## Elevator integrations

Use Command Centre and Gallagher's elevator High Level Interfaces (HLI) to control access to building floors from elevator cars.



## Video integrations

Integrate and monitor third party video surveillance systems through Command Centre. Equip your operators with a single system in the control room, increasing efficiencies and reducing costs.

For more information on these and other third party integrations visit: [security.gallagher.com](https://security.gallagher.com)

\*Some integrations require optional licenses. Contact Gallagher or a Certified Channel Partner to find out more.



# Gallagher Controllers

## Controller 6000 C300100

The Gallagher Controller 6000 enforces business rules, monitors the environment, communicates with other integrated systems, and makes offline access decisions.

The Gallagher Controller 6000 (C6000) is the interface between the Gallagher Command Centre Server and distributed field hardware. The C6000 is capable of processing, storing, and communicating data in real time when the Gallagher Command Centre Server is offline. The Controller 6000's straight forward system architecture provides powerful and flexible configuration options.

- Has two RS485 connections, which may be individually configured to support HBUS, GBUS, SensorBUS or Aperio™ communications
  - Provides connectivity to the 4H & 8H HBUS device modules as well as 4R & 8R reader modules
  - Communicates directly with other Gallagher Controllers over a LAN/WAN using TCP/IP for the purposes of monitoring, back-up and control without requiring the Gallagher Command Centre server to be online
  - Provides I/O functionality via the HBUS and Reader Modules and other I/O expansion options
  - Communicates via the 4H or 8H Modules with Gallagher readers using the high speed HBUS RS-485 protocol
  - OSDP RS-485 reader support
  - Provides onboard front and rear tamper monitoring
  - Includes a USB port as an alternative to the network connection for securely loading software into the Controller
  - Sends and receives events from third party systems within the C6000 using the Gallagher Controller Application Programming Interface (API)
- Supports high level interfaces for elevator access control
  - Supports the Gallagher T20 Terminal for management and operation of intruder alarm functions and Gallagher Perimeter Security Fence Controllers for integrated perimeter security.
  - Supports alarm management and remote alarms transmission via multiple mediums:
    - LAN/WAN networks using TCP/IP protocol
    - Cellular networks, via cellular modem
    - PSTN Alarms, via Gallagher Dialer
  - Stores up to 500,000 (standard) or 50,000 (Mobile Connect) credentials, and 80,000 events
  - Controls up to 10 monitored doors
  - Enables operation of integrated perimeter security, with the Gallagher T20 Terminal and Gallagher Perimeter Security Fence Controllers.
  - Supports on-board controller logic with no server connection required.
  - Supports automated software upgrades for all downstream connected HBUS devices.



## Controller 6000 HS (High Spec) C300101

The Controller 6000 High Spec retains all of the functionality of the standard C6000 while providing additional features such as:

- Automated high and low temperature shutdown in extreme temperatures
  - Dual ethernet ports for ethernet link redundancy
- Support for 10MB/100MB/1GB Ethernet network communications
  - Dedicated encryption chip for ultra-secure encryption key storage
  - Hardware watchdog relay for additional Controller system responsiveness

## Controller 6000 PIV (Personal Identity Verification) C305101

The Controller 6000 PIV meets and complies with Federal Information Processing Standard (FIPS) 201-2.

While offering all of the benefits of the Controller 6000 High Spec, the Controller 6000 PIV is also capable of performing contactless PIV smart card authentication checks. It natively enforces the revocation status of PIV smart card certificates, and performs cardholder specific access control decisions without the need for constant server connectivity.



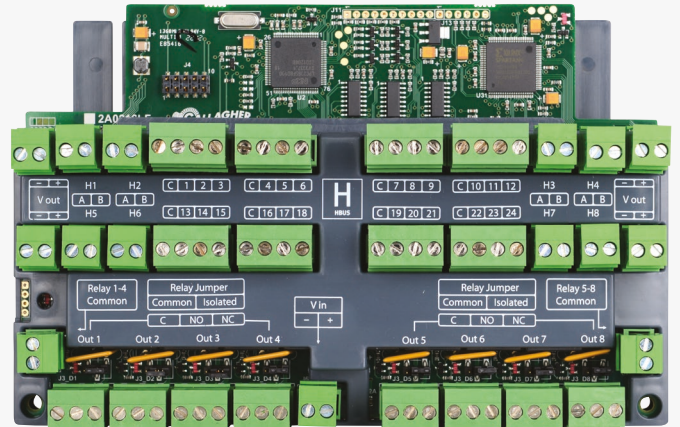
For more information, refer to the datasheet:  
Gallagher Controller 6000





# Gallagher reader modules

Gallagher modules support star-wiring of other control devices, and I/O connectivity for door and equipment monitoring.



4H Module C300142 / 8H Module C300182

## HBUS Modules

The 4H and 8H modules utilize the HBUS protocol which runs at speeds up to 1Mb/s - substantially faster than most other RS-485 based communication protocols. This increased communication speed improves the response time of other Gallagher HBUS devices.

## Connectivity

Gallagher 8H and 4H modules allow HBUS devices to be star-wired back to a secure controller cabinet. Star-wiring removes the risk of one faulty connection taking down all downstream devices as on a daisy-chained run, and each HBUS port can also support multiple HBUS devices. Gallagher 8H and 4H modules monitor and report the state of balanced inputs, and enforce decisions to switch output relays, if required.

## Data protection

All communication between the Controller 6000 and its connected HBUS devices are secured using industry leading authentication and encryption techniques. All HBUS devices maintain a heartbeat to alert the system should any device be taken offline, and to protect against a wide range of potential attack methods.

## Easy retrofit

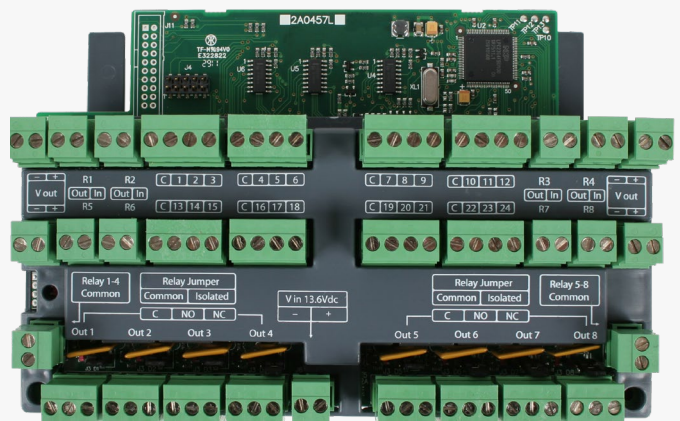
HBUS Modules are designed to run on all Controller 6000s, allowing an easy retrofit of previous expansion modules.

For more information, refer to the datasheet: Gallagher HBUS Modules

## 4R and 8R Modules

Gallagher 4R or 8R modules can connect readers via the Wiegand protocol, or via the legacy Cardax IV protocol. The 8R reader module clips into the Controller 6000 to provide connectivity for:

- Up to 8 Gallagher readers (Cardax IV), or up to 4 Wiegand readers
- Monitoring of 24 inputs
- 8 relay outputs



4R Module C300141

8R Module C300181





# Gallagher HBUS I/O devices

Gallagher HBUS I/O Devices provide flexible, cost effective, secure input and output expansion options, and shared cabling with other HBUS devices.

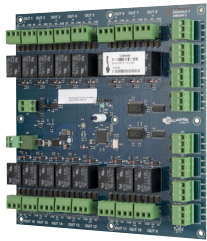
## High speed communication

The HBUS communication protocol is based on the RS485 standard and allows each HBUS I/O Device to communicate with the Gallagher C6000 Controller over a distance of up to 500m (1640 ft.) at a speed of 1Mb/s.

HBUS Device software is automatically available with Controller 6000 software upgrades; no operator intervention is required.

## Features and benefits

- Unique identities for all field devices
- Extends the connectivity of the Gallagher C6000 via HBUS
- Automated device software upgrades
- T grade authentication and encryption levels to prevent data tampering
- Variable end-of-line resistance



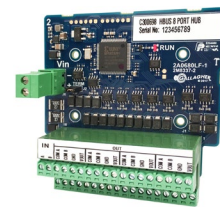
**HBUS 16 In 16 Out Board**  
C300688

- 16 inputs
- 16 outputs



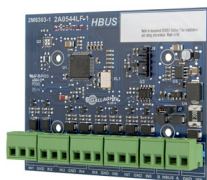
**HBUS 8 In 2 Out Door Module**  
C300660

- 8 inputs
- 2 outputs
- 2 doors with Gallagher HBUS readers



**HBUS 8 Port Hub**  
C300698

- 8 downstream ports



**HBUS 8 In Board**  
C300680

- 8 inputs



**HBUS 8 In 4 Out Board**  
C300684

- 8 inputs
- 4 outputs



**HBUS 4 In 2 Out Door Module - Wiegand**  
C300665

- 4 inputs
- 2 outputs
- 2 doors with 2 Wiegand readers

For more information, refer to the datasheet: Gallagher HBUS I/O Devices

## Gallagher Cabinets

Two Gallagher Cabinets are available to accommodate the Gallagher controllers and the Gallagher HBUS Module. A range of colors and power supply options are available.



Single Cabinet C200100



Dual Cabinet C200104

For more information, refer to the datasheet: Gallagher Cabinets



# Gallagher card readers

The Gallagher T-Series Reader and Terminal range provides contactless card and mobile credential readers for access control management as part of the Gallagher site management platform.

## Secure, high speed access readers

- High speed RS485 protocol, HBUS, offers an access decision response time of 200 milliseconds
- Unparalleled reader security through IT grade authentication and encryption between the reader and controller with HBUS
- Support for multiple card technologies including: MIFARE®, MIFARE DESFire EV1® and MIFARE DESFire EV2®, MIFARE Plus® and MIFARE Classic®, as well as 125 kHz proximity and Bluetooth® wireless technology (Multi technology readers only)
- Unrivaled reader durability and water/dust protection
- Environmentally friendly – RoHS compliant and designed for minimal power consumption
- Support for custom site encryption keys
- Heartbeat monitoring to ensure reader status can be monitored in real time
- Extensive range of reader mounting and protection accessories

\*MIFARE Classic, MIFARE Plus, MIFARE DESfire EV1 and MIFARE DESfire EV2 are registered trademarks of NXP B.V.

## T20 Terminal C300450

- Display company logo's, promotional imagery, and messaging, and enforce cardholder competencies through message display.
- Card Only and Card + PIN access modes (including duress access support, and dual cardholder authentication).
- Control Outputs to manage building facilities.
- Arm and disarm up to 50 alarm zones distributed across any system controllers, with optional automated input isolation, and automated alarms acknowledgment.
- Display up to 200 unacknowledged alarms and 100 acknowledged alarms, and manage up to 100 inputs. An alarms only variant is available (The T20 Alarms Terminal- C300463) when reader capability is not required.
- Maintain system integrity with scheduled or manual tests.
- IP66 rated environmental protection, and IK08 rated impact protection.
- Extensive perimeter management functions.
- Multiple language support.
- Integrated rear tamper.
- Fully configurable Mimic Panel.
- Software upgradeable in situ.



## T30 Keypad Reader C300495

- Protection from the elements, with an environmental protection rating of IP68
- Supports Gallagher Mobile Connect
- A dedicated arming key with Alarm Zone status indication
- Surface and flush box mounting options
- IK09 impact protection rating



## T-Series Reader range

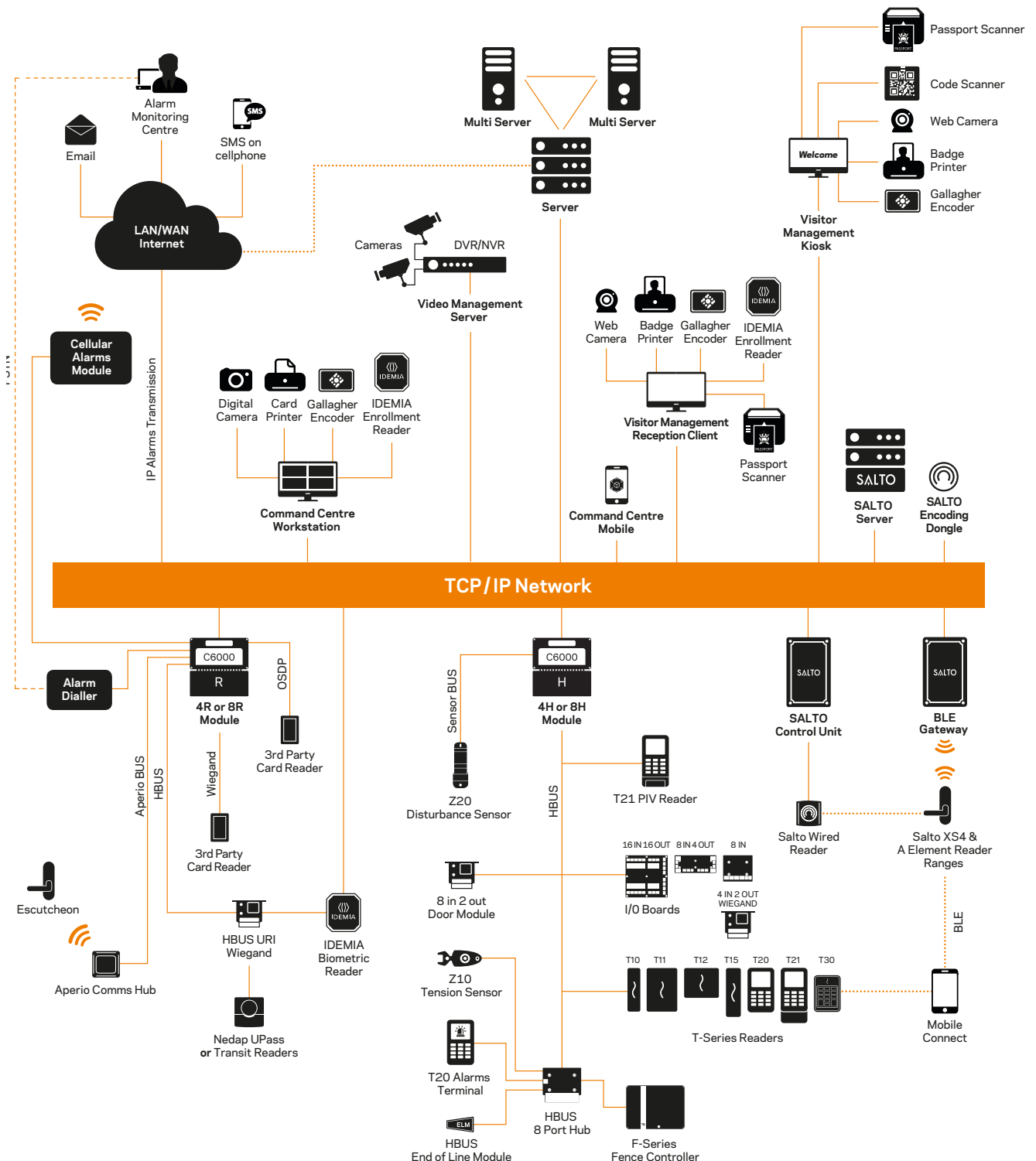
- Contemporary design - classic black and white, with both mullion or flushbox mounting variants
- IP68 environmental protection and IK07 for impact protection
- Configurable illumination and sound; where visual or audible indications may cause distraction
- Limited Lifetime Warranty



T12 C300440    T11 C300430    T10 C300400    T15 C300480

# System architecture

Gallagher delivers a complete access control platform with a product architecture that extends from powerful software to robust and reliable hardware. Connected via information networks, all components synergize to provide any site with a scalable security solution that is consistently effective.



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