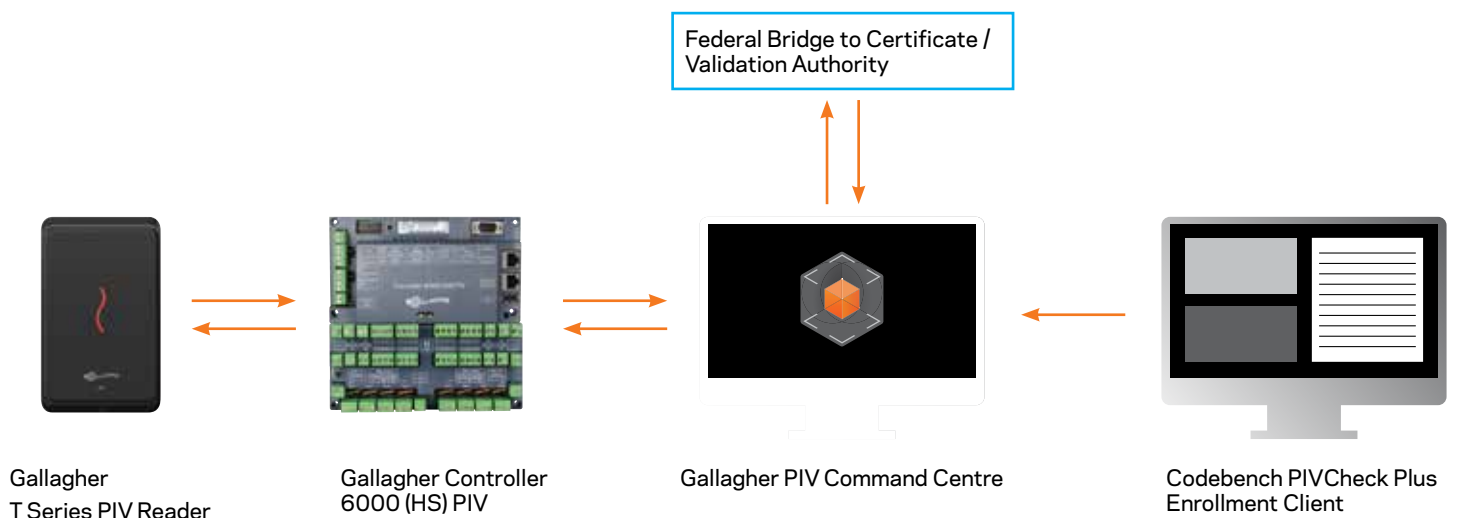


# Gallagher PIV Solution

The Gallagher PIV solution is a physical access control system designed for compliance with the Personal Identity Verification (PIV) requirements of the FIPS 201-2 standard, offering world class security to federal agencies and their contractors.

## The Gallagher PIV solution offers:

- Simplified architecture - the most efficient, cost effective PIV solution for physical access control
- Real-time and secure certificate based authentication of PIV, PIV-I, and CAC credentials
- Hardware and software that is easy to implement, configure, upgrade and maintain
- Secure authentication and encryption between all system components
- Upgradable field hardware, future-proofing Gallagher hardware for potential FIPS 201 standard changes
- A single platform for the management of access control, alarms, and perimeter security
- Configurable periodic credential validation.



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## Gallagher PIV Solution Components

The Gallagher PIV solution is provided as an independently licensed version of Gallagher Command Centre v7.10.

The Gallagher PIV solution includes:

### Gallagher PIV Software

- A Gallagher PIV Command Centre server License enables up to 16 PIV doors on a site, expandable from the 17<sup>th</sup> door onwards with the per door PIV license.

Gallagher PIV Command Centre provides ongoing OCSP or CRL validation of each PIV card's status; periodically checking the revocation status and trust path of each card's:

- PIV Authentication Key (PAK) Certificate
- Card Issuer Signature (CIS) Certificate
- Card Authentication Key (CAK) certificate
- Listed on the GSA Approved Products List as a LACS Caching Status Proxy

The period between validation checks is configurable in hours, by factors (1, 2, 3, 4, 6, 8, 12, and 24) of 24 hours.

### PIV Cardholder Enrollment Client

- The Codebench PIVCheck Plus Desktop client enables PIV cardholder enrollment
- Seamless integration with Gallagher Command Centre
- Automatic cardholder creation in Command Centre immediately following successful enrollment
- One license is required for each PIV card enrollment workstation
- A USB card insertion and biometric reader is required for each enrollment workstation
- The MSO 1350e reads PIV cards and confirms that cardholder fingerprints are correct to provide trusted enrollment.

### Gallagher Controller 6000 High Spec - PIV

The Controller 6000 High Spec (HS) - PIV is the latest physical access control panel available from Gallagher, fully compliant to the latest FIPS 201 standards.

The Controller 6000 High Spec - PIV is securely and periodically updated by the Gallagher Command Centre Server with full details of PIV cardholder certificates and their revocation status. In conjunction with Gallagher T Series PIV readers, the Controller 6000 is responsible for performing all contactless PIV smart card authentication checks, enforcing the revocation status of PIV smart card certificates, and performing cardholder specific access control decisions without the need for constant server connectivity.

When coupled with 8H or 4H Modules, the Controller 6000 High Spec - PIV provides I/O connectivity for either eight access controlled doors and associated Gallagher readers, or up to 10 doors with additional distributed I/O.

- Delivers all the benefits of the standard Controller 6000 High Spec unit for access control decision making, while supporting PIV card authentication natively
- Storage of up to 136,000 cardholders and 80,000 events
- Support for up to 10 access controlled doors
- Options to support daisy-chain wiring via 2 on board RS-485 ports, or home-run wiring via optional 4H / 8H Modules (4 and 8 RS-485 ports respectively)
- Can be mounted in the Gallagher Cabinet, Gallagher Dual Cabinets, or on the Gallagher Mounting Plate. Cabinets and Mounting Plates supplied separately.

### Gallagher T Series PIV Readers

Gallagher T Series PIV Reader's are thin, contactless card readers that transfer data between PIV smart cards and the Controller 6000 High Spec - PIV via the secure HBUS protocol.

Gallagher T Series PIV readers can be configured to work with varying PIV smart card data rates and authentication modes.

- Support for real-time and secure certificate based authentication of PIV, PIV-I, CAC, and TWIC credentials
- Configurable support for Mifare DESFire EV1, Plus, Classic and 125 KHz\* card technologies for shared entrances
- High grade authentication and encryption (128-bit AES keys) between the reader's and Controller 6000
- Fully potted reader's with high impact and water ingress protection for long term durability, IP66 for environmental protection and IK09 for impact protection
- Lifetime warranty.

### Gallagher T10 PIV Reader - Black

The Gallagher T10 PIV Reader is designed for mounting on door mullions, or where a small footprint reader is desirable.

### Gallagher T11 PIV Reader - Black

The Gallagher T11 PIV Reader is designed for mounting on vertical format flush boxes, or for covering mounting holes of previously installed readers.

### Gallagher T11 PIV Reader - Multi Tech, Black

The Gallagher T11 PIV Reader - Multi Tech, is capable of reading both Mifare and 125 KHz card technologies, and is designed for mounting on vertical format flush boxes, or for covering mounting holes of previously installed readers.

\*T11 Multi-tech only

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T Series PIV Readers



Morpho MSO 1350e



PIV Command Centre



Controller 6000 High Spec - PIV

**GALLAGHER CONTROLLER 6000 HIGH SPEC - PIV**

**JULY 2015**

Factory programmed with a unique network MAC address;

<b>Operating System</b>	Microsoft™ Windows CE 6			
<b>Power Supply</b>	Voltage	13.6 v DC±15%		
<b>Current</b> (measured at 13.6 V DC with module connected)*	<b>No relays</b>	<b>4 relays</b>	<b>8 relays</b>	
<b>Controller 6000HS</b>	610mA	730mA	870mA	
<b>Temperature Range</b>	Gallagher Controller 6000 High Spec (HS)		-10 ° to +55 ° C	
<b>Humidity</b>	95% Noncondensing			
<b>Data Storage per Gallagher Controller 6000</b>	Max. number of access zones	Unlimited		
	Max. number of alarms zones	256	Max. number of events	80,000
	Max. number of access groups	2,000	Max. number of doors	10
	Max. number of time schedules	400	Max. inter-controller peer to peer connections	60
	Number of cardholders	136,000		
<b>RS485 Device Communications (2 Ports)</b>	HBUS	Up to 1 Mbits per second, 500m (1640ft)		
<b>Network Communications</b>	Network connection - Controller 6000 High Spec	10/100/1000 BaseT Ethernet Port (2 ports)		
	Network protocol	TLS 1.2		
<b>Compliance Standards</b>	CE, A-Tick, C-Tick, FCC, UL			

\* Note: Current measurements are indicative only and exclude external devices. Currents have been rounded up to the nearest 5mA. Controller 6000HS measurements include the use of both primary and secondary high speed ethernet ports. Please refer to the Gallagher Security System Technical Reference Manual and Product Installation Notes for detailed power supply and operating characteristics

Dimensions - T10 PIV Reader	Height x Width x Depth	115 mm x 35mm x 12mm
Dimensions - T11 PIV Reader	Height x Width x Depth	115 mm x 70mm x 12mm
Power Supply	Operating Voltage Range at Reader	9 - 16 VDC
	Idle Current at 13.6 VDC*	T10 - 75mA T11 - Mifare only, 85mA T11 - Multi tech, 100mA
Data Cable Specifications*	Recommended Cable Type	HBUS
	CAT5E or BELDEN 9842 (24 AWG)	500 m
Environmental Specifications	Temperature Range	-35° to + 70° C
	Humidity	95% non-condensing
	Environmental Protection	IP68
	Impact Rating	IK07
	UV Stability	Nil structural degradation for the life of the reader
Compliance Standards	All equipment complies with FCC, CE and C-Tick.	

\* Reader current will increase during card activity

For further cable specifications please refer to the Gallagher Security System Technical Reference Manual

The following components are available as part of a Gallagher PIV solution:

<b>C201611</b>	PIV Command Centre License - 16 door server license
<b>2A8500</b>	PIV Door License (per door - from the 17th door onwards)
<b>C868100</b>	Codebench Enrollment License (per workstation)
<b>C864605</b>	Morpho MSO 1350e Enrollment reader
<b>C305101</b>	Controller 6000 High Spec - PIV
<b>C300142/ C300182</b>	4H or 8H Modules - for 4 or 8 door star or home-run wiring connectivity and door I/O
<b>C305410</b>	T11 PIV Reader - Black
<b>C305430</b>	T11 PIV Reader - Multi Tech, Black
<b>C305400</b>	T10 PIV Reader - Black
<b>C200100</b>	Gallagher Cabinet
<b>C200105/6/7</b>	Dual Cabinets
<b>C200001</b>	Gallagher Mounting Plate

Additional software and hardware options from the Gallagher general solution range may be added to a Gallagher PIV solution where required. Please consult the Gallagher Access Control and Intruder Alarms Systems Product List for more information on available options.

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