

Credential Solutions

Gallagher offer a range of credential provisioning solutions:

- Encoding services are available to manage the issue of credentials
- A range of credential types are supplied directly for immediate use
- Full support for on-site encoding
- Compatibility with the latest smart card technologies

Credential Services

Gallagher offers the following credential services:

ISO Card Printing

Customize your swipe cards with site specific logos and messages. Gallagher provides free black and white printing of images and/or text on both sides of ISO cards - a one off setup cost applies.

Card Number Management

Gallagher manages card number uniqueness in conjunction with Channel Partners.

Card Identification

Card numbers are printed on each credential encoded by Gallagher including clamshell and ISO cards, and keyfobs.

MIFARE chip technology is widely used in contactless smart cards and proximity cards, it provides:

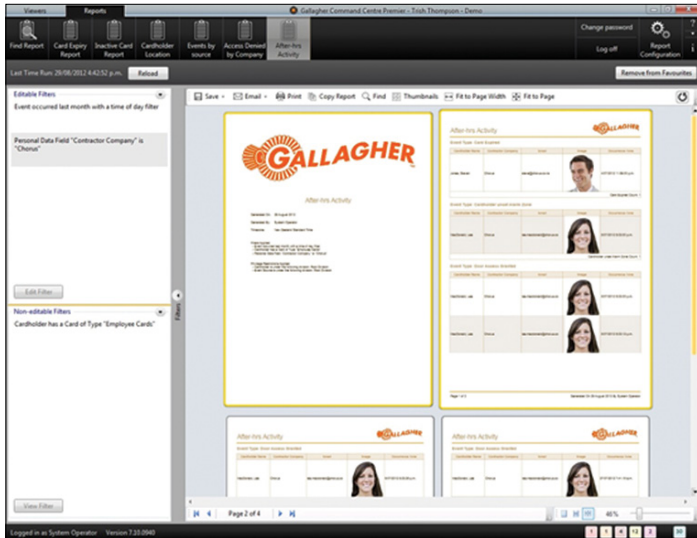
- The highest standard of security and feature levels
- More than 40 different applications worldwide
- Reliability with more than 150 million reader and 10 billion smart card chips sold worldwide
- Numerous manufacturers worldwide
- Compliance with international ISO/IEC 14443 - used in more than 80 per cent of all contactless smart cards today.



Encoding Software

Gallagher Photo ID Card & Encoding

Photo ID & Encoding is an optional licensed feature available in Gallagher Command Centre, providing the ability to design and produce encoded and/or photo identification cards.



Custom-designed card layouts

The information retrieved from the Gallagher cardholder database would typically include the cardholder's photograph and access credentials. However, there is an extensive range of options available with this optional feature for formatting card layouts, including:

- Creating backgrounds
- Importing logos and images
- Adding and formatting text
- Incorporating barcodes
- Personalized cardholder data

Key benefits include:

- **Design lead** - options such as "Snap-to-grid" allow users to position objects exactly where required on the card
- **Time efficient** - once the first layout has been completed, it can be copied to create subsequent layouts within the same system
- **Compatible** - integrates with most photo ID card printers - (please refer to security.gallagher.com for the latest information on tested compatible printers).

Gallagher Encoder III

Encoder III is a user friendly Microsoft® Windows® XP or Windows 7 software package that allows the on-site encoding of 125kHz proximity cards and keyfobs, and Mifare Classic smart cards.

Using an industry standard system, Encoder III is used in conjunction with the following Encoder hardware: 125kHz, Magstripe, and Mifare USB.

Automatic Card Serial Number Capture

Gallagher Command Centre Premier client supports the automatic capture of card serial numbers (CSN) for Mifare Classic, Mifare Plus and DESFire EV1 cards. When an encoded card is presented to a Gallagher Mifare USB encoder the unique CSN is stored to the database and associated permanently with the card identifier encoded to that card.

Integration with Gallagher systems

The integration of Gallagher Photo ID & encoding within the Gallagher system provides significant advantages over standalone photo identification applications including:

- **Detailed audit trail** - for example the reason for printing a card can be identified as all operator activity in the Gallagher system including adding, changing or deleting a card layout, and printing cards, are recorded in the system's audit trail
- **One cardholder database** - making the management of cardholder information much easier for operators and ensuring one centralized source of cardholder information
- **Access to stored photo images** - cardholder photo identification is increasingly becoming a requirement for many sites intent on enhancing site security. This feature allows stored photos to be recalled and printed onto cards
- **Providing an integrated cardholder management tool** within the Gallagher security system
- **Consistent with the core system** - uses industry standard Microsoft Windows layout
- **Centralized data** - integration with the Gallagher system means the site needs to manage only one cardholder database - simplifying information management

Optional Licensed Feature

Photo ID & Encoding is an optional licensed feature available in Gallagher Command Centre.

Encoding Hardware

Mifare Encoding

Mifare Classic, Plus and, DESFire EV1 cards can be encoded using the Gallagher Mifare USB Encoder, which supports the encoding of:

- Mifare Classic 1K and 4k cards and key fobs
- Mifare Plus 2K and 4K cards in both standard security 'S' and extra security 'X' variants
- Mifare DESFire 2K, 4K, and 8K cards
- Site specific Mifare keys.



Keyfobs



Cards & Clamshells



Encoder Unit (Mifare)

High Speed ISO Card Printing

Gallagher delivers rapid turnaround of ISO card printing and encoding requests with outstanding quality.



DataCard MX2000 Printer

Credential Migration

Gallagher continues to support 125kHz, Tiris, and Magstripe credential encoding with hardware and software available to end users, and via encoding services. A range of professional services are also available to assist in migrating to newer and more secure credential technologies. Please contact your Gallagher Business Development Manager for more information.

MIFARE CLASSIC		125 KHZ	
C196350	Mifare Classic ISO Card (1K) - Blank	C196450	125 Series ISO Card
C196330	Mifare Classic ISO Card (4K) - Blank	C196410	125 Series Clamshell Card
C196301	Mifare Classic Overmolded Keyfob (1K, Black)	C196400	125 Series Keyfob (Black) - Epoxy Material
C196304	Mifare Classic Overmolded Keyfob (4K, Gray)		

MIFARE PLUS		DUAL TECHNOLOGY	
C297172	Mifare Plus ISO Card, 2K, S Type	C196370	Mifare Classic and Magstripe Dual Tech ISO Card (1K) - Blank
C297174	Mifare Plus ISO Card, 4K, S Type	C196340	Mifare Classic and Magstripe Dual Tech ISO Card (4K) - Blank
C297272	Mifare Plus ISO Card, 2K, X Type	C196470	125 Series and Magstripe Dual Tech ISO Card
C297274	Mifare Plus ISO Card, 4K, X Type	C196430	125 Series and Mifare Classic Dual Tech ISO Card (1K)
		C196490	125 Series and Mifare Classic Dual Tech ISO Card (4K)

MIFARE DESFIRE EV1		CARD ACCESSORIES	
C297372	Mifare DESFire ISO Card, 2K, EV1	C870570	Ultracard PVC adhesive backed labels (pack of 100)
C297374	Mifare DESFire ISO Card, 4K, EV1	C870540	Card Holder Vertical Clear Plastic
C297378	Mifare DESFire ISO Card, 8K, EV1		

CARD ENCODING	
C41007	Encoder Unit (Mifare)
C197800	Encoder Unit (125kHz)
C196215	Encoder III Software (125, Tiris, Mifare Classic, and Magstripe)
C196295	Encoder III Software Extension Disk

	Dimensions (Length x Width x Depth)	Temperature (Operating)	Temperature (Storage)
MIFARE ISO CARD	85.7mm x 54.0mm x 0.76 - 0.84mm	-10° - 50°C (14° - 122°F)	-25° - 50°C (-13° - 122°F)
125 KHZ ISO CARD & DUAL TECHNOLOGY ISO CARD	85.7mm x 54.0mm x 0.76 - 0.84mm	-35° - 50°C (-30° - 122°F)	-25° - 50°C (-13° - 122°F)
MIFARE KEYFOB	50.8mm x 31.5mm x 9.5mm	-25° - 55°C (-13° - 131°F)	-25° - 55°C (-13° - 122°F)
125 KHZ KEYFOB EPOXY (BLACK)	45mm x 30mm x 1.6mm	-40° - 95°C (-40° - 203°F)	-40° - 85°C (-40° - 185°F)
125 KHZ CLAMSHELL CARD	85.7mm x 54.0mm x 1.7mm	-10° - 50°C (14° - 122°F)	-25° - 50°C (-13° - 122°F)
TIRIS CARD	85.7mm x 54.0mm x 1.3mm	-10° - 50°C (14° - 122°F)	-40° - 100°C (-40° - 212°F)
TIRIS KEYRING	44mm x 6mm	-25° - 85°C (-13° - 185°F)	-40° - 100°C (-40° - 212°F)
MAGSTRIPE CARD	85.7mm x 54.0mm x 0.76mm		+ 5° - 30°C (41° - 86°F)

	Security	Cost	Interoperability	Flexibility	Read Range
Mifare Classic	Med	Low	High	Med	Med
Mifare DESFire EV1	High	High	Med	High	Low
Mifare Plus	High	Med	Med	Med	Low
125kHz	Low	Low	Low	Low	High

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