Smart credential technology choices

Overview

Schlage® offers a variety of smart credential technology options to fit the needs and budget of most every application. All smart credentials from Schlage are based on open global standards, ensuring a future of headache-free flexibility and scalability. Schlage smart cards are compliant with international standard ISO 14443 which is used by more than 80% of all contactless smart cards today.[1]

MIFARE Classic®

Schlage credentials using MIFARE Classic technology are ideal for facilities with moderate security needs, and for businesses that want to use credentials to support multiple business functions.

- Simple, fixed memory structure
- Freely programmable memory
- Multiple memory options and form factors

MIFARE Plus®

MIFARE Plus brings advanced security, with the functionality of the MIFARE Classic credential. A cost-efficient solution that's perfect for access control applications.

- Simple, freely programmable, fixed memory structure
- 128 AES encryption used for authenticity, confidentiality and integrity
- Multiple form factors

MIFARE DESFire®

These credentials offer the highest in security from Schlage and deliver the perfect balance of security, speed and performance. Its open protocol design allows future seamless integration of other applications such as cashless vending, cafeteria services, transportation, secure printing, and more.

- Flexible file system/flexible memory organization - ideal for combining and supporting multiple applications on one contactless smart card
- Fast and secure data transmission
- 128 AES encryption used for authenticity, confidentiality and integrity
- Multiple memory options and form factors

Why MIFARE®?

Schlage has partnered with NXP and its globally leading MIFARE® brand to provide smart card solutions, giving our customers greater choice and flexibility when building their ecosystem.

NXP's MIFARE technology has achieved[1]:

- Products that are proven and reliable with over 25 years of production
- Over 10 billion chips sold to date
- Utilized by more than 55% of all high-frequency (HF) access management systems throughout the world
- More than 1,000 partners in the MIFARE community
- 40 different types of applications globally

Learn more about NXP partners and their applications at **MIFARE.net**.

Feature comparison

	MIFARE Classic	MIFARE Plus	MIFARE DESFire EV1 / EV2
Smart technology – 13.56 MHz	■	■	■
Memory structure	Fixed	Fixed	Flexible
Encrypted communications	3DES	128 AES	128 AES
Open architecture	■	■	■
Read range – varies with credential form factor and reader type	◎	●	◉*
Price	$	$$	$$$
Selection of form factors	■■■	■■■	■■■

*DESFire EV2 technology typically experiences better read range than DESFire EV1.

1. Source: www.mifare.net

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

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