HID Secure Credential Portfolio

Advance your Security with Seos® & MIFARE DESFire EV3

Secure, Customizable Credential Technologies

Most organizations still rely on legacy credential technologies that can leave them vulnerable, in spite of the fact that today's security breaches aren't just common — but highly visible. RFID and key copying devices and services are becoming more accessible; in fact, a $30 card copier can spoof any credential that communicates via a 125kHz radio frequency. Hacking tutorials are also now prevalent on YouTube and easily searchable.

Fortunately, more modern credential technologies can offer protection against these threats. Seos and MIFARE DESFire EV3 are based on peer-reviewed global standards and offer essential security features like secure messaging, mutual authentication and calculating card-specific keys which are bound to specific applications. **In fact, Seos is the first and only finished physical access control card to have been certified by independent security laboratory TÜV Informationstechnik (TÜViT), a division of the TÜV NORD Group.**

Yet secure technologies are only one piece of the puzzle when it comes to protecting key assets. Today's organizations need convenience, choice and flexibility as they upgrade physical access systems. That's where HID's credential portfolio comes in. With solutions that are easy to customize, deploy and maintain, we streamline security through a simple framework that supports multiple form factors and communication protocols. We also make it easy to power applications beyond traditional access control, from secure printing and cashless vending to network logins and time and attendance.

Advanced Security

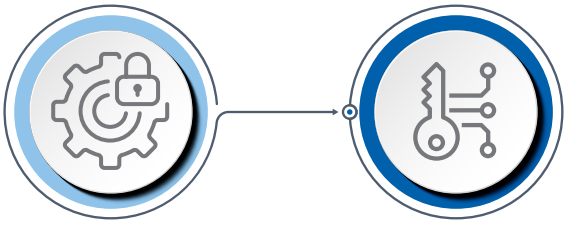
IMPLEMENT ADVANCED SECURITY FEATURES

HID's high frequency credential portfolio centers on Seos and MIFARE DESFire EV3. "Both are modern technologies, when implemented through HID, deliver a diversity of advanced security features.

Modern encryption approaches are always used to secure data, including AES128 and NIST based key diversification

Mutual authentication and secure messaging allow the card and reader to validate their authenticity to each other and protect the integrity of each communication session

Protect user privacy with random UID enabled by default — meaning the card will be restricted from openly sharing any information that could be associated with the user.



Secure Identity Objects (SIOs) protect personal application data regardless of what credential technology is chosen

Key management enables you to designate unique, AES128 encrypted keys to specific roles and applications

Secure Credential Data Management

MANAGE YOUR CREDENTIAL PROPERLY TO PROTECT YOUR DATA

Large organizations often possess a staggering array of facilities, equipment and assets that need to be accessed securely. This is further complicated by the fact that each needs to be accessible to only a selection of employees. Managed improperly, this complexity can introduce vulnerabilities.

- Key Management -- The HID Elite Program offers advanced key security with extreme ease. HID securely generates unique authentication keys designed for individual customers, and this key is used to protect the number within the card's access control application.

- Card Formats — The Corporate 1000 Program offers a fully managed solution for RFID card formatting and number tracking, enhancing security and preventing card number duplication.

CHOOSE THE BEST TECHNOLOGY FOR YOUR CURRENT AND FUTURE NEEDS

seos

- Advanced security and privacy features and encryption options enabled by default
- Wider selection of form factors, including mobile and wearable options
- Easier to migrate for systems that rely on older credential technologies

MIFARE DESFire

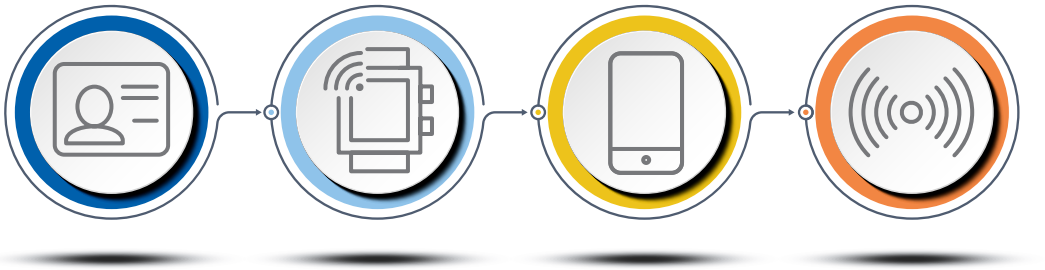
- Interoperable with existing DESFire installations
- Broad MIFARE ecosystem of applications to support use cases beyond physical security
- Brings unique security features like proximity check

Open Technology Choice

Contemporary organizations are complex, and so are their security needs. That's why HID's credential deployment process makes it easy to design and maintain secure systems regardless of which technology is selected.

CREATE A SYSTEM THAT FITS YOUR NEEDS

HID's secure credential portfolio supports multiple form factors and communication protocols, enabling you to customize a system that works — simply and securely — for your entire organization. This framework streamlines ongoing management while bringing users flexibility and choice, including:



Traditional cards, clamshells and key fobs

Mobile devices including smartphones, tablets and wearables

Compatibility with iOS, Android and other operating systems

Support for communication technologies including NFC, Bluetooth and beyond

You can also select encryption levels and security features that suit your risk profile, including two-factor authentication using biometrics with the template stored on card.

REDUCE THE COMPLEXITY OF SETUP AND MAINTENANCE

Legacy technologies, existing vendors, and other IT systems can increase the complexity of implementing new security systems. Fortunately, HID's secure credential portfolio is compatible with almost all legacy physical access technologies via the availability of a wide selection of multi-technology cards.

Our migration process includes extensive support and options for pre-programmed hardware, field programming, or at-scale card data provisioning done by HID. Furthermore, you can turn to our large channel partner network when it's time to service or acquire new Seos and MIFARE capable products — giving you the flexibility to adapt your network to changing security needs.

Seos is compatible with all HID Signo and iCLASS SE readers without any additional reader configuration.

Versatile, Extended Access

HID Signo Readers support Seos and MIFARE DESFire EV3

EASILY EXPAND YOUR NETWORK

HID technology is built to respond to your evolving security needs. HID Signo Readers support the widest range of credentials and communication protocols, so you can expand your system using the technologies you've already installed — whether you need to support new applications or change key diversification, encryption levels or card data formats.

In fact, with the HID Reader Manager, you can manage all HID Signo and iCLASS SE readers with a mobile device via Bluetooth, from updating firmware and loading keys to enabling and disabling credential technologies.

EASLY EXTEND BEYOND PHYSCIAL ACCESS

Ensuring physical security isn't just about safeguarding facilities. It's about protecting an interconnected web of physical and digital systems, from vending machines to networked devices. HID's credential technologies easily extend to applications beyond physical access control, including secure printing, time and attendance, cashless vending, and network logins — all from the convenience of a single credential.

WHY HID?

Implementing advanced physical security technologies doesn't have to come at the cost of convenience -- or choice. With HID's secure physical access solutions, you can select the credential technology that fits your needs, the form factors that work for your users and the provisioning and management options that are convenient for your team. You can rely on our large, global network of partners for additional products and service. And you can expand your system in the future as your organization and its needs evolve.

All from the most trusted provider of identity solutions.

For more information, please visit
hidglobal.com/products/cards-and-credentials.

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