HID Mobile Access® Secure Mobile IDs for Smart Devices

## Secure digital identities for physical access control using mobile devices

HID Mobile Access enables mobile phones to be used across the organization just like a card or other form factor to seamlessly increase employee productivity while "on-the-go." The move to mobile and a bring your own device (BYOD) environment has IT departments increasingly concerned about securing access and protecting company data. It is essential that the protection of identity data follow stringent policies to prevent a security breach in the enterprise.

HID's Mobile IDs are the vehicle to protect identity data for various applications. With a primary focus on the access control market, Mobile IDs offer a privacy-preserving model to protect personal identification data from unauthorized access.

Provisioned over-the-air to the end-user device, Mobile IDs are based on industry standard technology. Seos® technology keeps identity data secure during the

lifecycle of the Mobile ID. Versatile by design, Mobile IDs can also be assigned with comprehensive policies to comply with the majority of customer requirements.

Fully integrated into the HID Signo® and iCLASS SE® reader platform, Mobile IDs provide a trusted and adaptable model that leverages the platform's Secure Identity Object (SIO) data model for multi-layered security. Mobile IDs are based on cryptographically-protected data objects with state-of-the-art cryptographic protocol and algorithms. These portable data objects are distributed from device to device using the secure protocol Seos provides. This ensures end-to-end protection between the device and reader, regardless of the underlying communications standard.
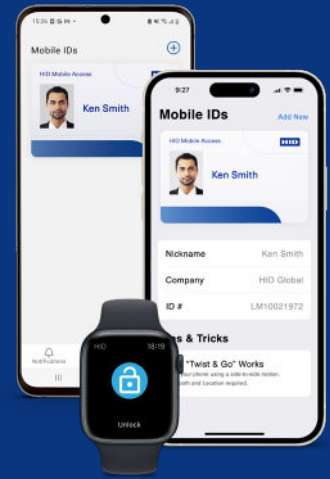
KEY BENEFITS:

- Portable – Proven model manages the transmission of secure identity data over-the-air to mobile devices.
- Superior Protection – Ensure privacy, security and integrity of identity data by leveraging Secure Identity Object® (SIO®) data encoding.
- Easy to Manage – Seamless lifecycle management of Mobile IDs (creation, distribution, revocation) simplifies deployment and administration.

HID MOBILE ACCESS®

Performance-oriented data footprint: 300-400 bytes for each Mobile ID

Data Binding capability to the user's device

Loadable in the device memory (tamper-proof data storage)

Device-agnostic design: Portable to any mobile device capable of running the Seos® software application

Operating System independent: Android™ and iOS® (or other mobile OS in the future)

Communications standard-independent: Bluetooth Smart and NFC

Provisioned through the Seos Trusted Services Manager (TSM) into registered mobile devices

Issue and revoke Mobile IDs via the HID Origo Management portal (enterprise setup required) or through an API integration

SEOS APPLICATION

Lightweight application providing secure messaging and strong authentication services to distribute Mobile IDs

Mutual authentication protocol with generation of diversified session key to protect each card session

Protect over-the-air data communication with data confidentiality and integrity

SECURITY FEATURES

Cryptographically-protected data object that leverages SIO® data model and security

Cryptographic Key Management Policy: SE ELITE protection with different keys depending where mobile key resides (software- or hardware-based secure element)

Privacy-enhanced model to avoid revealing identity data (ex: via sniffing method)

INTEROPERABILITY

- Supports any HID Signo or iCLASS SE mobile-enabled readers that can process SIO-enabled data formats
- Supports iCLASS SE readers with firmware Revision E or later
- Any HID Signo or iCLASS SE mobile-enabled readers shipped from HID distribution centers

HID

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