PHYSICAL ACCESS SOLUTIONS PRELIMINARY

CREDENTIAL SOLUTION FOR INCREASED SECURITY, PRIVACY AND PORTABILITY

- **Innovative solution for data confidentiality and strong authentication** - High security solution with state of the art cryptography supporting mutual authentication protocol and data encryption to protect contactless communications.

- **Strongest encryption available** - Privacy protection prevents the release of credential identifier; contactless communication is protected through secure messaging that relies on session keys that are shared with the access control reader.

- **Anti-cloning protection** - Ensures credential uniqueness by leveraging physical characteristics of the silicon as available in the Secure Element.

- **Standards-based with increased interoperability** - Portable solution for RFID devices with multi-applications requirements based on ISO/IEC specifications

- **Secure Identity Object™ (SIO) compatible** - Multi-layered security beyond the device technology, providing added protection for identity data

- **Trusted Identity Platform® (TIP™) enabled** - Provides trusted identity within a secure ecosystem of interoperable products

Leveraging HID Global’s proven expertise in the access control market, iCLASS SEOS™ is a high-security technology that complements HID’s existing iCLASS and iCLASS SE® credentials and delivers enhanced security and stronger authentication to access user data.

iCLASS SEOS is a convenient and portable solution to protect contactless communication on any contactless-enabled device, such as smart cards, key fobs and mobile phones. It is built around the following components: generic card edge to meet growing demand for interoperability, a secure messaging protocol to protect data transmission and an open architecture that is portable to a variety of devices and micro processors.

The solution fully leverages the iCLASS SIO-Enabled model introduced in iCLASS SE, as well as the open ecosystem based on HID’s Trusted Identity Platform® (TIP™) architecture for advanced applications, mobility and heightened security.
HID Global SIOs deliver three key benefits: portability, security and extensibility.

- SIOs are defined using open standards that can support any piece of data, including data for access control, biometrics, PC logon, and many other applications.

iCLASS SEOS™ cont.

iCLASS SEOS delivers superior data integrity and privacy protection by leveraging the latest cryptographic algorithms, and it includes an anti-cloning feature for maximum protection. The solution is based on industry-accepted standards for contactless communication (ISO/IEC 14443, 15693). It also delivers an ISO/IEC 7816-4 command set that defines the reference interfaces supported between SEOS and the physical access reader.

Similarly to existing iCLASS products, SEOS is based on 13.56 MHz read/write contactless technology and can be used for applications including physical access control, PC logon, biometric verification, time and attendance, cashless vending, public transportation, airline ticketing and customer loyalty.

iCLASS SEOS is highly portable and can run on any Secure Element as found in mobile devices or in other form factors. In addition, SEOS technology can be added to multi-technology devices that already support 125 KHz Proximity and other high frequency technologies).

SEOS credentials are fully compatible with the iCLASS SE reader family that can process SIO-enabled data formats. As a comprehensive solution, iCLASS SEOS offers a choice of different memory sizes to store variable user data as to meet the requirements customers’ various applications.