



# iCLASS SE<sup>®</sup> Platform



iCLASS SE Platform Ecosystem

## HID GLOBAL'S NEW STANDARD FOR HIGHLY ADAPTABLE, INTEROPERABLE AND SECURE ACCESS CONTROL SOLUTIONS

- **Security** - State-of-the-art cryptography and a secure messaging protocol for a trust-based communication platform with robust security.
- **Privacy** - No traceable identifier exchanged during card sessions, preventing data associated to a given card from being divulged or cloned.
- **Adaptability** - Solutions can be easily upgraded to allow for changes in technology and applications.
- **Simplicity** - Provides a single, media-independent and mobile-ready solution for all applications and environments, ranging from physical and logical access control to biometrics, cashless vending, customer loyalty programs, transit and many other uses.

HID Global's iCLASS SE platform enables customers to future-proof their access control infrastructures while simplifying how identities are created, used and managed, across a broad continuum of application requirements using any combination of smart cards, microprocessor cards and NFC-enabled smartphones. With the iCLASS SE platform, enterprises and organizations have the assurance that their investments in today's technologies can be leveraged in the future.

HID Global's iCLASS SE platform readers also support the industry-standard Open Supervised Device Protocol (OSDP), which adds key capabilities including central management of readers for lower operational costs, as well as faster and easier configuration. The incorporation of Secure Channel Protocol (SCP) into OSDP enables secured reader to panel communications, and the use of transparent mode provides a virtual direct connection to smart cards at the reader.

Based on HID's Secure Identity Object™ (SIO) data model and Trusted Identity Platform® (TIP™), the iCLASS SE platform reader line includes iCLASS SE and multiCLASS SE™ readers for higher security and migration to mobile access control. iCLASS SE readers are ideal for new and existing iCLASS installations to provide advanced security and performance. multiCLASS SE readers simplify migration projects from legacy technologies, and support the ever-expanding universe of credential technologies including 125 kHz HID Prox®, Indala®, AWID and EM4102.

iCLASS SE readers support HID Global's iCLASS® Seos™ credentials on both cards and NFC-enabled smartphones and other mobile devices. iCLASS Seos delivers improved security, privacy and portability, and supports multiple technologies as well as future technologies for maximum interoperability. Additionally, iCLASS Seos also delivers full privacy support for enterprise and government organizations whose identity management policies are driven by regulatory compliance requirements.

**Standards-Based Interoperability:**  
Supports credentials from all leading manufacturers, as well as HID Global's iCLASS Seos™ credential, which features a standards-based universal card edge and is portable for use on NFC smartphones. The use of open standards fosters a broad range of interoperable iCLASS SE platform solutions from HID Global and its partners, including a large ecosystem of NFC-enabled locks and digital key products and technologies from HID Global parent company ASSA ABLOY.



## SPECIFICATIONS

### iCLASS SE® Platform Features

	iCLASS SE® Reader Line Capabilities	Legacy					iCLASS SE			Seos		pivCLASS
		HID Prox®	iCLASS SE Reader Line	MIFARE® for Mobile™	MIFARE® DESFire® EV1	Standard iCLASS®	MIFARE CLASSIC w/SE	MIFARE DESFire EV1 w/ SE	iCLASS SE	iCLASS Seos™ Card	Seos Mobile Device	pivCLASS® Card
Media Independence	■						■	■	■	■	■	
Mobile Ready	■			■		■					■	
Privacy Support	■ ■				■		■	■	■	■ ■	■ ■	■
Leverage Standards for Security	■ ■				■		■	■	■	■ ■	■ ■	■
Layered Security Beyond Card	■						■	■	■	■	■	■
Multi-application	■		■	■	■	■	■	■	■	■	■	■
Capacity Options	■		■	■	■	■	■	■	■	■	■	
Upgradable	■ ■				■		■	■	■	■	■	■
Portable	■						■	■	■	■	■	
FIPS 140-2, Common Criteria	■											■
Micro Processor	■			■						■	■	■

■ ■ Feature fully supported on both reader and credential.

### Risk Based Authentication

Media and Data security	Authentication Platforms	Descriptions	Secures against cards that are...					Authentication Factors
			Revoked	Counterfeit or Altered	Copied or Cloned	Lost or Stolen	Loaned or Shared	
Identifier	Prox, Magstripe, Wiegand, BF	Card number (prox, mag, other)	■					None
Identifier w/ PIN on PACS	Prox, Magstripe, Wiegand, BF	Card number (prox, mag, other)	■			■		1
Obscurity+VIS	Prox, Magstripe, Wiegand, BF,	Card number and Picture or Visual Security elements	■	■				1
Media Security	iCLASS SR, MIFARE, DESFire EV1	Smart card technology	■	■ *	■ *			1
Media and Data security	iCLASS SR, MIFARE, DESFire EV1, JCOP, MULTOS, CIV	Smart card/media with SIO data model	■	■	■			2
Media and Data security	iCLASS SR, MIFARE, DESFire EV1, JCOP, MULTOS, CIV	Smart card/media with SIO data model and secure PIN	■	■	■	■		2
Media and Data security with data bound attributes (Tags: see tag table and SO builder)	iCLASS SE, MIFARE, DESFire EV1, JCOP, MULTOS, CIV	Smart card/media with Something you are and something you know	■	■	■	■	■	3
Portable Data Security with data bound attributes	Seos Smart Card	Seos - Smart card with Something you are, something you know	■	■	■	■	■	3
Portable Data Security with data bound attributes	Smart Device - (Smart phone)	Seos - Smart media with Something you are, something you know, location and time	■	■	■	■	■	5

■ \* Dependant on media

North America: +1 949 732 2000  
 Toll Free: 1 800 237 7769  
 Europe, Middle East, Africa: +44 1440 714 850  
 Asia Pacific: +852 3160 9800  
 Latin America: +52 55 5081 1650

hidglobal.com

### ASSA ABLOY

An ASSA ABLOY Group brand

© 2012-2013 HID Global Corporation/ASSA ABLOY AB. All rights reserved. HID, HID Global, the HID Blue Brick logo, the Chain Design and iCLASS SE, iCLASS, Secure Identity Object and Seos are trademarks or registered trademarks of HID Global or its licensor(s)/supplier(s) in the US and other countries and may not be used without permission. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.  
 2012-09-06-iclass-se-platform-ds-en