



Powering the trusted identities of
the world's people, places & things



Spectra Baltic & HID Global

June 2020

Kamil Targalski, Area Sales Manager, Eastern Europe



HID Global powers the trusted identities of
the world's people, places and things

ASSA ABLOY Group



Global leader in access control

Annual revenue -
\$10 billions



48,300 employees



HID Global Business Areas



**Physical
Access
Control**



**Secure
Issuance**



**Extended
Access
Technologies**



**Identity
Access
Management**



**Identification
Technologies**



**Government
Identification**



Powering the trusted identities of
the world's people, places & things

Trends of Secure Identification

What are today's trusted identities?

Enterprise



Residential



Government



Hospitality



Today's trusted identities

What are tomorrow's trusted identities?

Enterprise



Residential



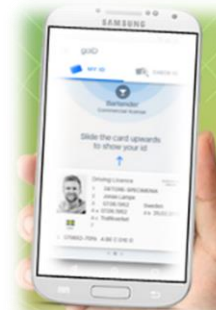
Government



Hospitality

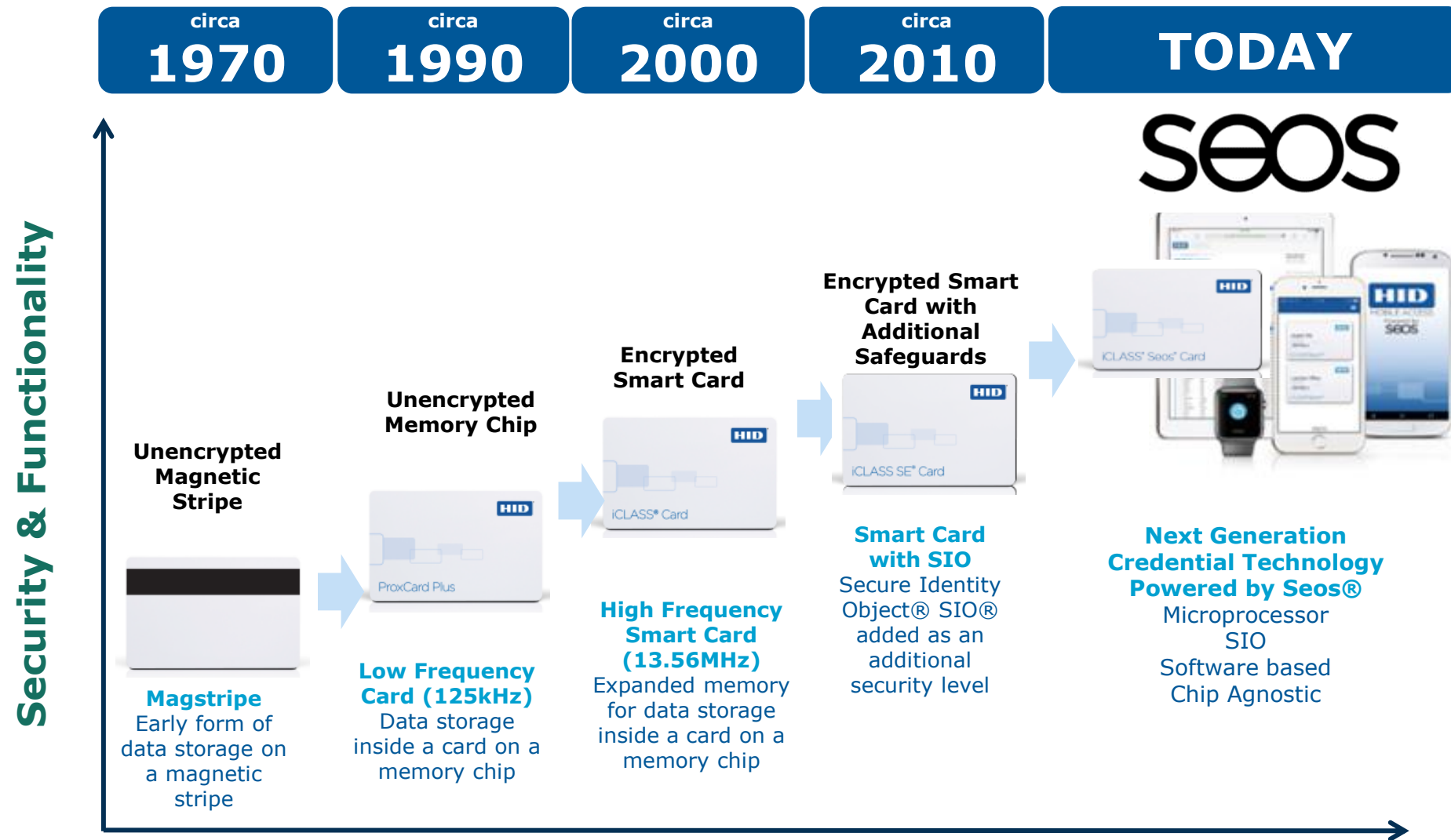


Bluetooth
SMART



Tomorrow's trusted identities

Evolution of RFID credentials



Seos Security Principles



Seos is more secure than other technologies:

- With Seos, **the identity objects themselves can be encrypted**, and all data passing between credential and reader is further encrypted with session keys.
- Seos is based on the highest cryptography standards recommended **by NIST, ISO/IEC and ANSI, such as AES.**
- Seos does not use proprietary security schemes. In fact, Seos uses a lot of the **same standards** that are used for **highly sensitive documents** such as electronic passports.

Seos Credential Technology Enabled Flexibility

Technology Independent



...

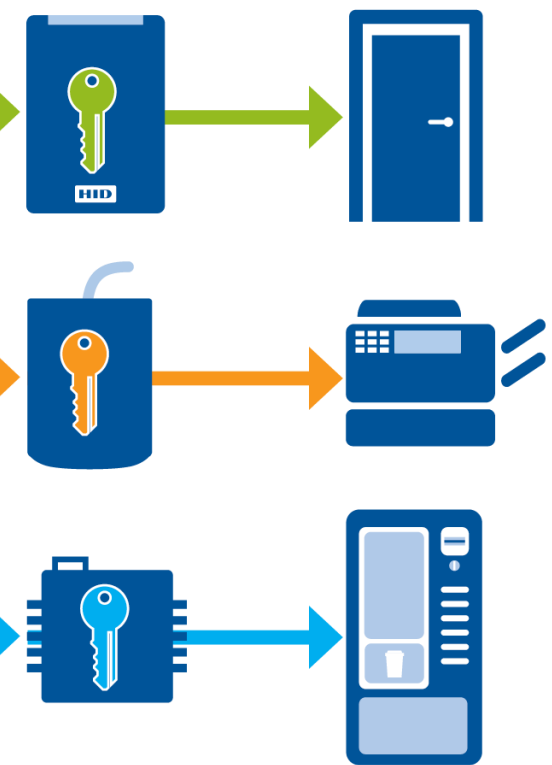
Expanded Device Choice



Multiple Access Applications



Highly Secure Encryption



OSDP – Open Supervised Device Protocol

Global Open Standard recommended for access control



Powering the trust of the world's people & things

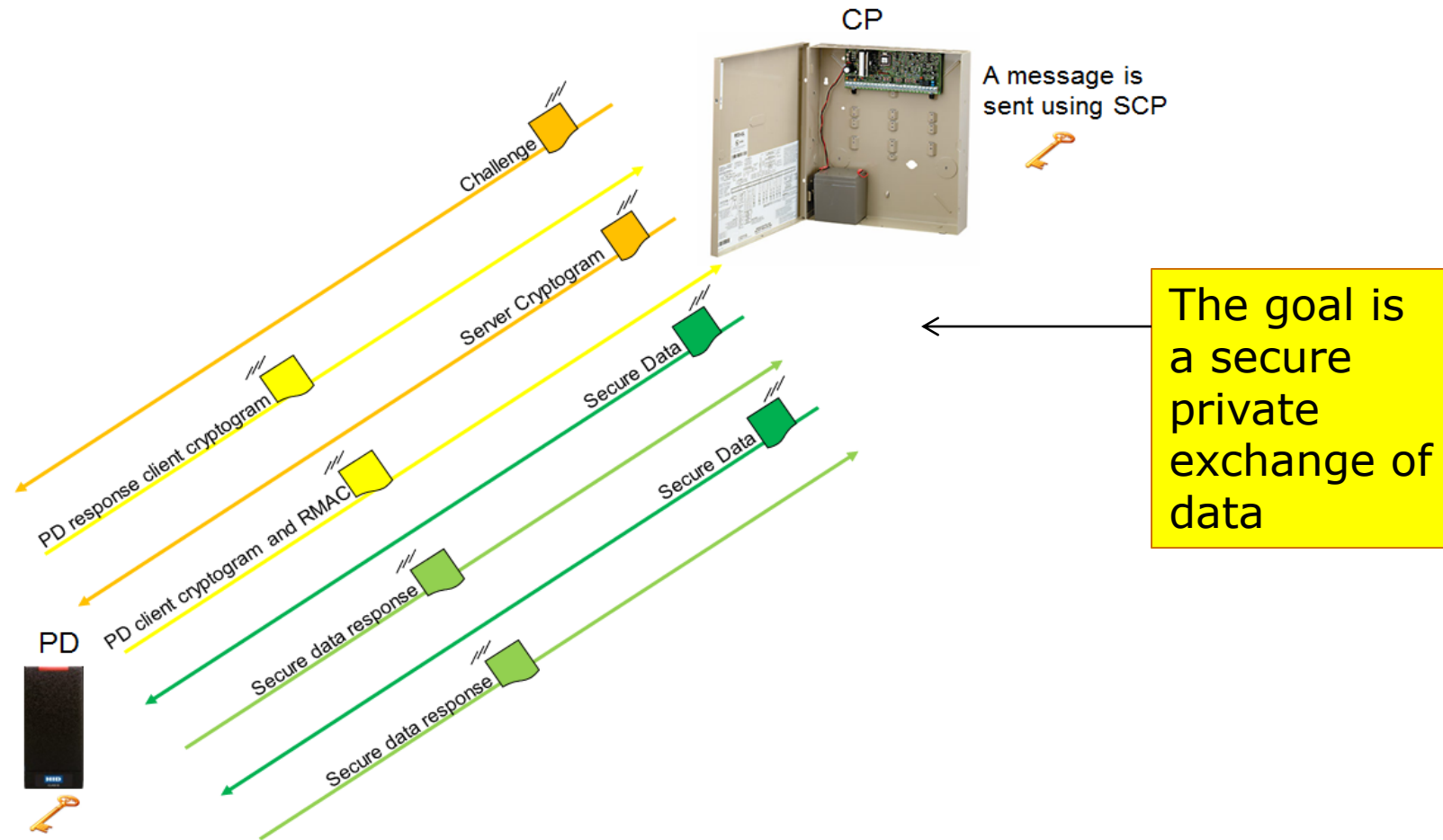


OSDP Basics



- ***OSDP is an acronym for; Open Supervised Device Protocol***
- ***SCP is an acronym for; Secure Channel Protocol***
- RFID readers popularized the **Wiegand** (D0/D1) interface, while magnetic stripe readers used an interface with **Clock and Data** signals. These two interface wiring schemes became SIA standards.
- OSDP is known and trusted as a protocol for readers and other peripheral devices. OSDP is currently a **Security Industry Association (SIA) standard**. This interoperable standard helps to expand the capabilities and control of readers.
- **OSDP was approved as an international standard by the International Electrotechnical Commission in May 2020 and will be published as IEC 60839-11-5 in July 2020. SIA OSDP is in constant refinement to retain its industry-leading position.**

End to End security



The background is a composite image. The left half shows a warm, golden-hour scene with a cup of coffee on a saucer and a smartphone on a wooden table, with a person's silhouette in the background. The right half is a solid blue area with a faint, semi-transparent image of a laptop keyboard.

HID Mobile Access

Powering the trusted identities of
the world's people, places & things

HID Mobile Access



NFC Short-Range Tap



Twist & Go

- NFC short-range Tap
- Bluetooth short-range Tap
- Bluetooth long-range Twist & Go
- Smartwatch widget opening

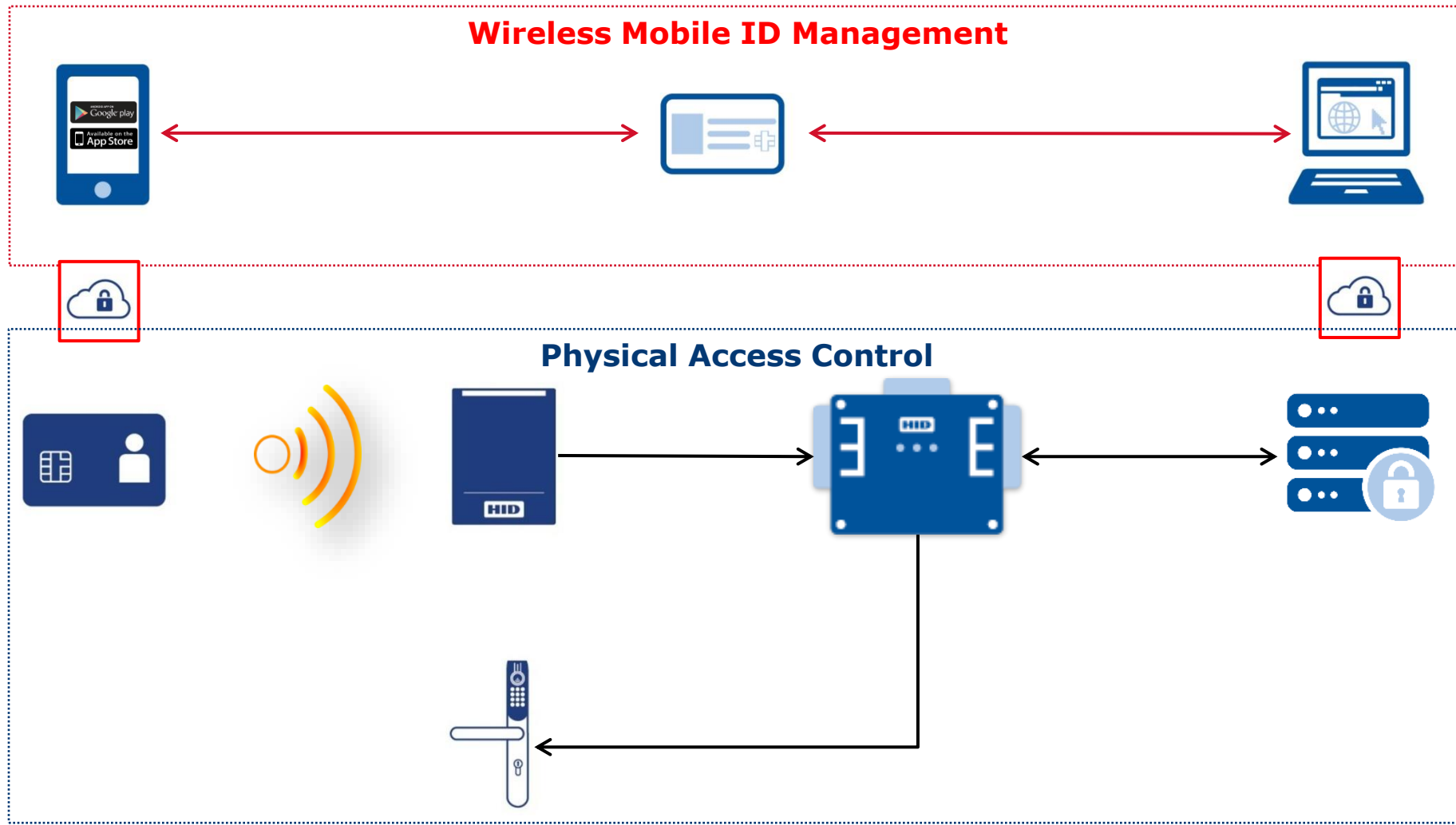


SECURE INFRASTRUCTURE



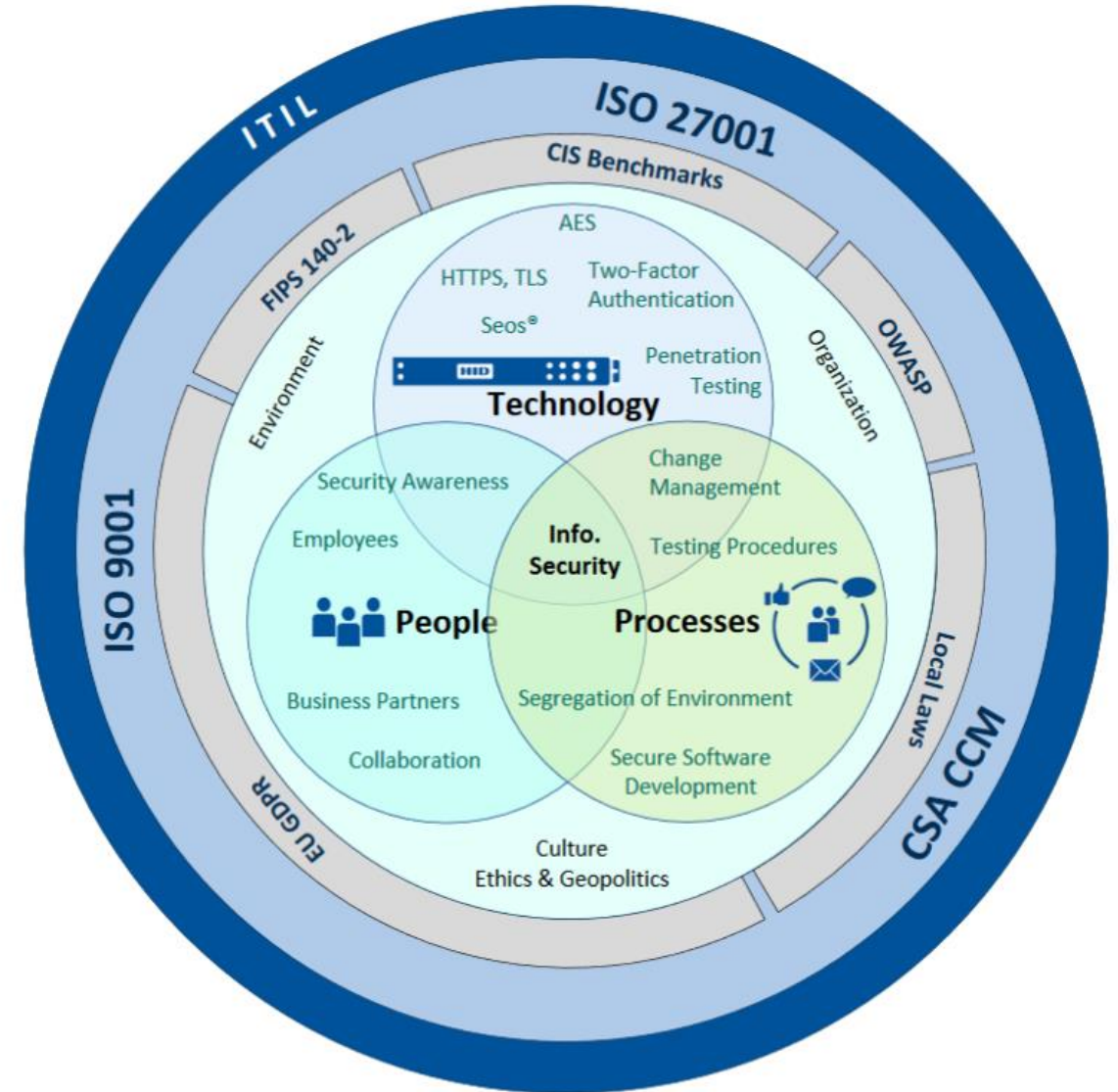
- Easy and predictable annual subscription billing
- Up to 5 mobile devices & 10 mobile IDs per user
- Unlimited number of formats / keys

Components of HID Mobile Access



HID Origo – Secure by Design

- A holistic approach to information security by considering all threat vectors and aspects including, but not limited to, technology, processes and people.
- Best practice guidelines, frameworks and standards, including, but not limited to:
 - **ISO27001** Information Security Management System
 - **ISO9001** Quality Management System
 - **ITIL** (Information Technology Infrastructure Library)
 - **CIS** (Center for Internet Security) benchmarks
 - **OWASP** (Open Web Application Security Project) guidance for third-party vulnerability assessments as well as penetration testing.



HID Mobile Access - Holistic approach to Information Security

HID Mobile Access®

Four easy steps – Ready To Use



1 End User Administrator manages users and Mobile IDs via the **HID Mobile Access Portal**

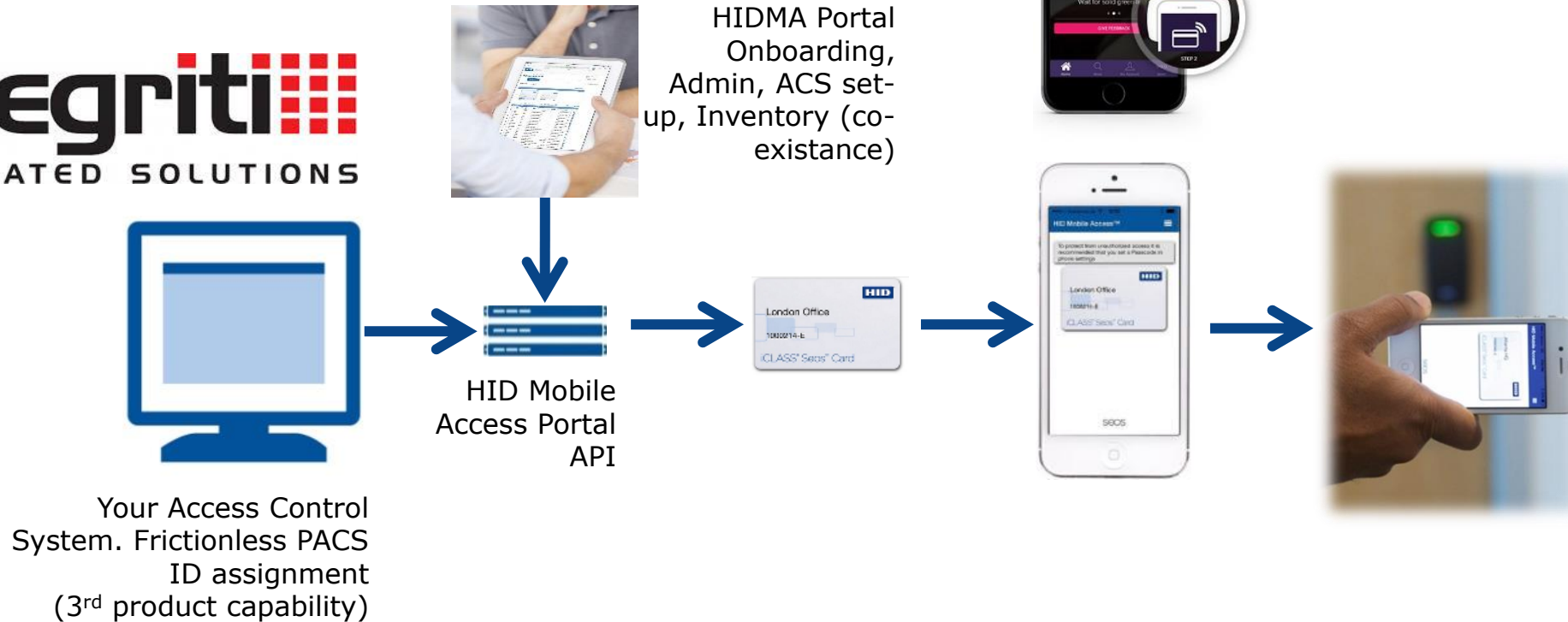
2 Mobile ID is transferred into device over the air

3 "Tap" or "Twist & Go" via HID Mobile App

4 iCLASS SE Reader sends credential data to panel for validation

HID Mobile Access®

Four easy steps – Custom Integration



1 End User Security Administrator manages users, access rights and Mobile IDs via **their own Access Control System**

2 Mobile ID is transferred into device over the air

3 "Tap" or "Twist & Go" via HID Mobile App (or 3rd party app via SDK)

4 iCLASS SE Reader sends credential data to panel for validation

HID Mobile Access® at Integriti

The screenshot displays two overlapping windows from the HID Mobile Access software. The 'Card Acquire' window in the foreground shows a 'Cloud Credential' tab selected, with a 'Change Selected Credential Pool' button and a table for credential pools. The 'Communication Handler' window in the background shows settings for a 'Cloud Credential Service' handler, including connection settings, email invitations, and SMS invitations.

Card Acquire Window:

- Buttons: Review, Wiegand Console Reader, SIFER Enrolment Station, Cloud Credential
- Section: Change Selected Credential Pool
- Table:

Pool Name	Pool Description	Available Quantity	Pool Id
[Empty Row]			

- Buttons: Assign Option, Card Number/Invitation Code, State
- Footer: Card Template (Please Select a Card Template), Email Address (No Email Address Configured), Mobile Number (No Mobile Number Configured)

Communication Handler Window:

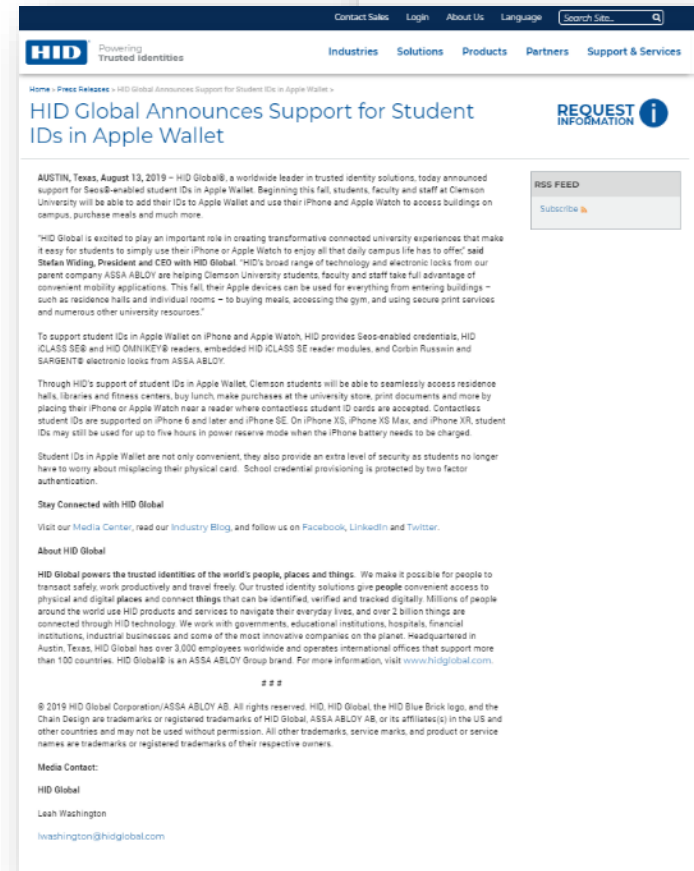
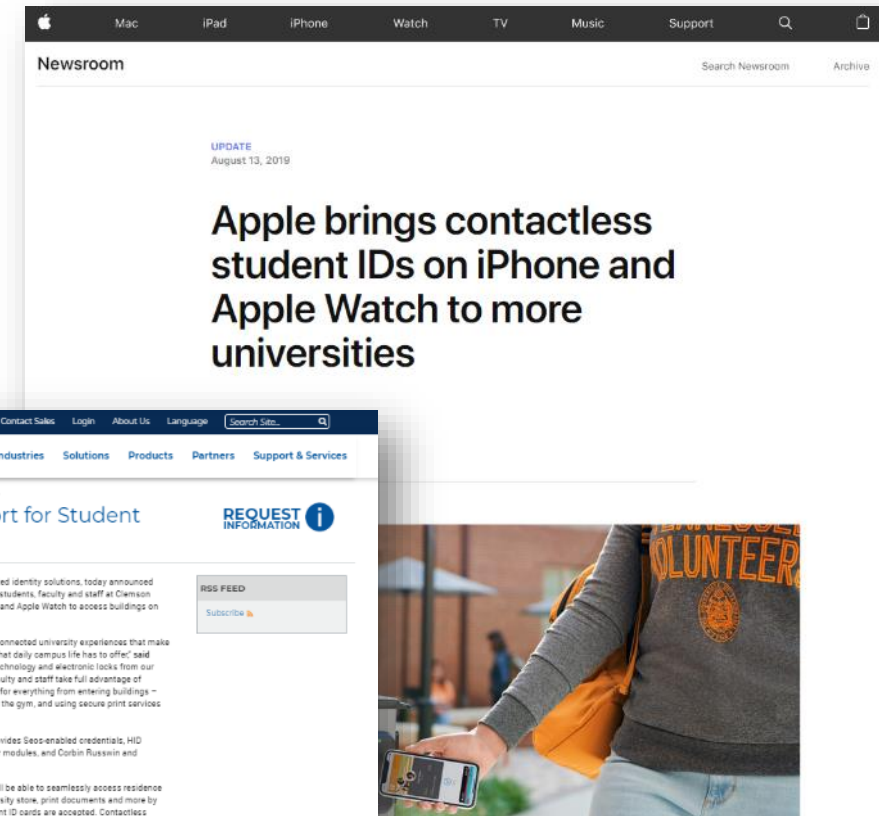
- Site: Default Site
- Name: [Empty]
- Handler Settings: Handler Type: Cloud Credential Service
- Connection Settings: HID Mobile Credential
 - Client Id: [Empty]
 - Client Secret: [Empty]
 - Organisation Id: [Empty]
 - HID Client Portal Version: Origo (2.0)
 - Send HID Invitations: [Empty]
 - Poll Frequency (S): 300
- Email Invitations
 - Email Custom Field: [Empty]
 - Email Sender Handler: [Empty]
 - Email Invitation Format: [Empty]
 - Email Subject Format: [Empty]
- SMS Invitations
 - Mobile Number Custom Field: [Empty]
 - SMS Sender Handler: [Empty]
 - SMS Invitation Format: [Empty]
- HID Client Portal Version: Set the Client Portal Version used for this Integration. Origo - Uses Subscription based Credentials

Student ID in Apple Wallet

Apple & HID Press Releases:

*"Apple is adding support for...**HID**, industry leaders for campus credentials and mobile access, to enable students to add their student IDs to Apple Wallet"*

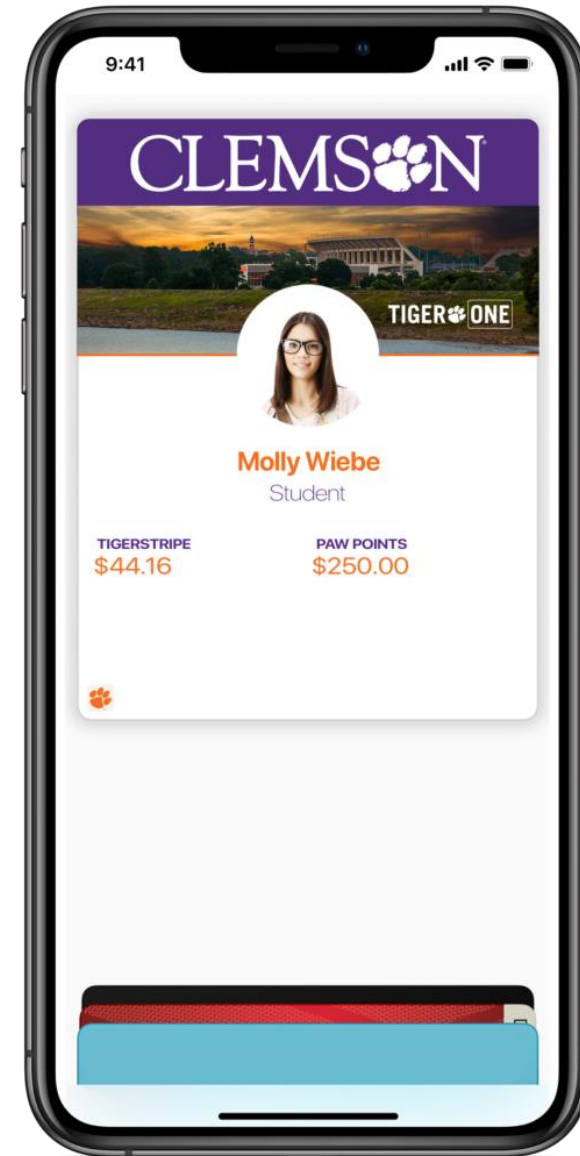
"To support student IDs in Apple Wallet...HID provides Seos-enabled credentials, HID iCLASS SE® and HID OMNIKEY® readers, embedded HID iCLASS SE reader modules, and ASSA ABLOY® locks"



What is Student ID in Apple Wallet?

A solution that allows students, faculty, and staff at universities (who are part of the Apple program) to add their student ID cards to Apple Wallet on their iPhone and Apple Watch.

- Uses Near Field Communication (NFC) technology
- Leverages same secure element chip as payment cards and transit cards supported in Apple Pay



Does Apple Watch Require the iPhone to be Nearby to Use the Mobile Credential?



No.

The credential on Apple Watch will work autonomously

HID PACS Product Portfolio

Powering the trusted identities of
the world's people, places & things

HID PACS – Readers & Credentials

Multi-frequency

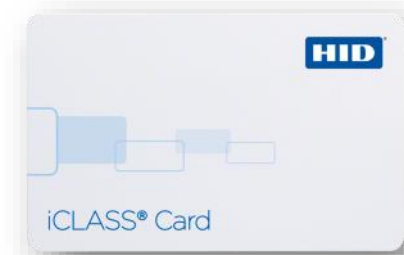
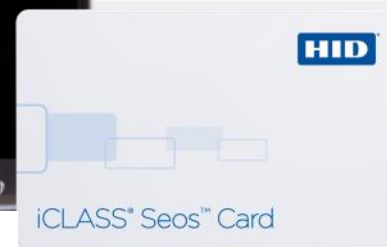
125 kHz / 13,56 MHz (NFC)
2,4GHz (Bluetooth Low Energy)

Security

Hardware Secure Element
EAL5+

Flexibility

NXP : Mifare Classic, Mifare DESFire EV1/EV2
HID : Prox, iCLASS, iCLASS SE, Seos
EM4102/4200
AWID



HID Signo readers

Signo
20



Signo
20K



Signo
40



Signo
40K



HID iCLASS SE readers

R10



R15



R40



RK40



R95A
Décor



RB25F
Biometric



HID Signo - Configuration





Powering
Trusted Identities



Thank you

hidglobal.com