

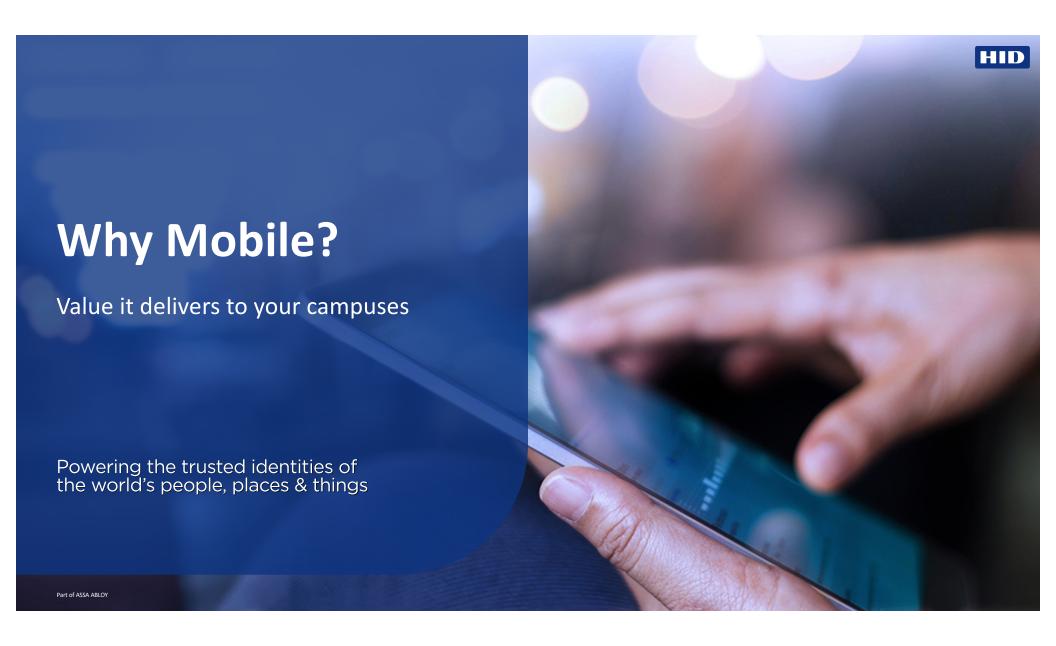
### **Agenda**

Why Invest?

What Options are Available?

Lenel Integration
HID Fargo Connect
App-Based Mobile Technology Partners
Wallet

Where to Start?



### Why Not Mobile?

Phone always with them

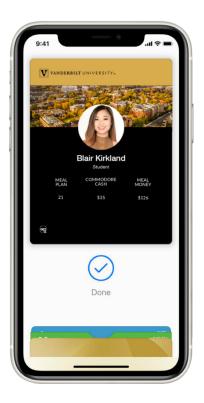
Most secure credential they have

Digital transformation happening

Expectation on User Experience

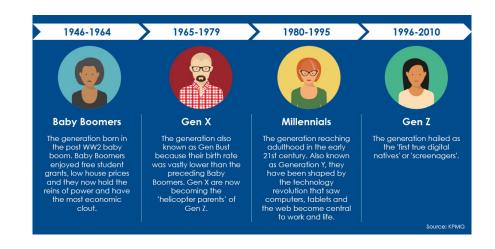
Can still use cards

Gen Z & beyond



### **Gen Z and Beyond**

- Gen Z will DRIVE demand today
  - Decision makers tomorrow
- Gen Z App World vs Carrying Plastic
  - Immersed in app centric world
- Gen Z much more environmentally focused
  - Gen Z making career choices on ESG initiatives
- Gen "Alpha" next after Gen Z
  - Super Users of Mobile
  - Enter Universities in 5 years

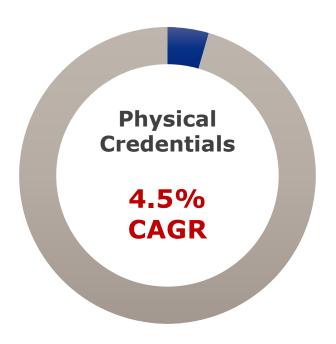


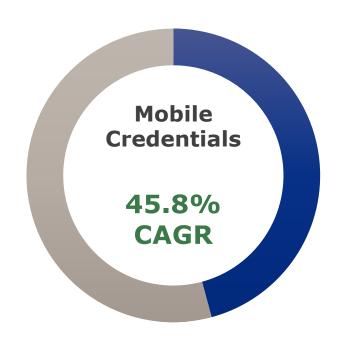


### Market growth trend for mobile credentials

OMDIA 5 year forecast for access credentials (unit shipments)

(CAGR) compound annual growth rate is the annualized average rate of revenue growth between given years

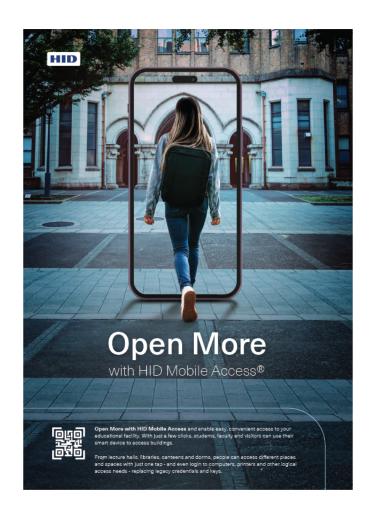




"No other equipment type in access control is expected to experience a comparable growth rate during the forecast period." – OMDIA Analyst

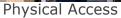
### The role of mobile on the digital campus

- A more convenient, efficient, secure way of accessing places and spaces
- Data-based insights that help secure and optimize facilities
- Contribution to sustainability objectives and accreditation
- Support for lean operations
- Drive adoption of Apps designed to attract, retain, and engage



### **Use Cases for Mobile**







Elevator



Smart Lockers



Vending







Secure Print



EV Charging

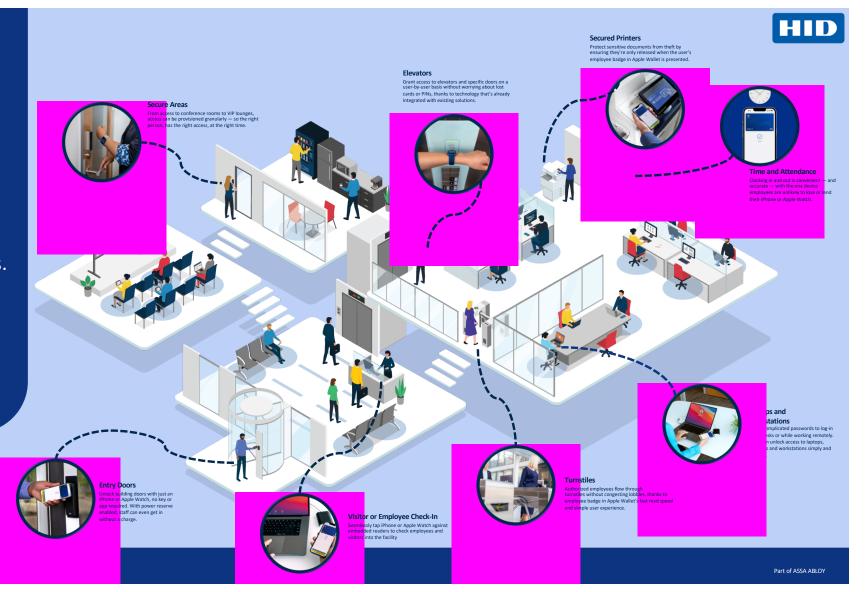


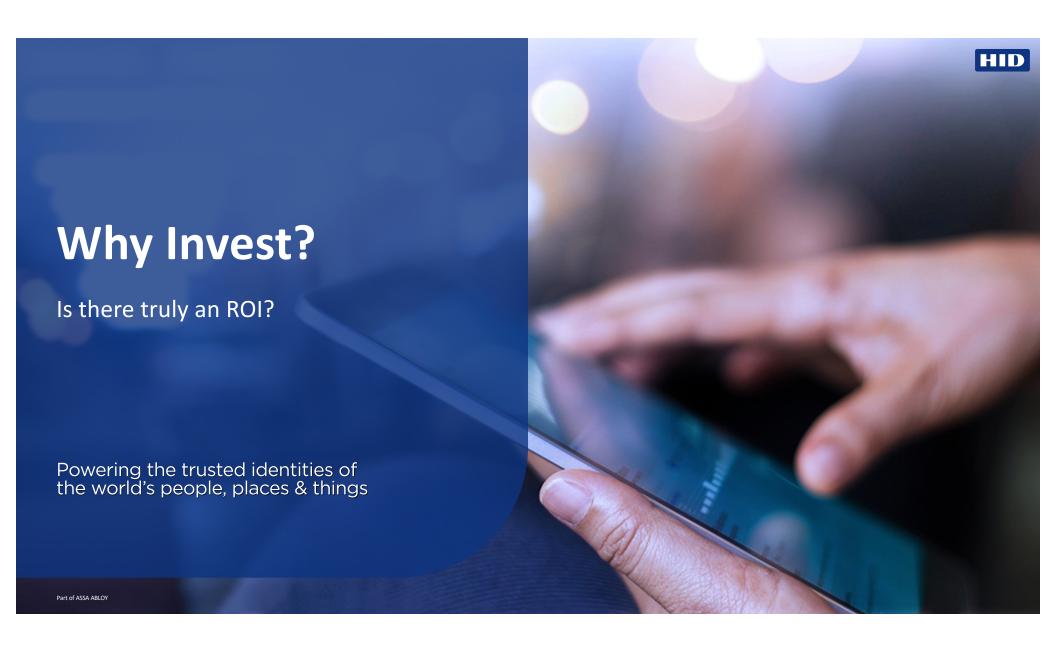
Time - Attendance



On your floor, in your building, or across the campus.

Powering Trusted Identities





### Alignment with campus initiatives e.g., Climate Action



Reduction of carbon footprint vs plastic cards, which can have a footprint of up to 100 grams CO<sup>2</sup> equivalent each.



Signo readers use Intelligent Power Mode to reduce building energy consumption.



Reader Environmental Product Declarations support BREEAM and LEED building ratings.



HID is a member of the US Green Building Council.



HID Mobile Access is an accredited WiredScore solution.



We believe that science-based targets will be beneficial for our business on everal levels. By setting a net-zero target in line with a 1.5°C future, we are naking a critical contribution to limiting the worst impacts of climate change.

- We will halve Scope 1 and Scope 2 emissions in our own operations by
- We will reduce the footprint of our wider value chain, including raw materials, logistics and products by 28% by 2030, thereby addressing our Scope 3 footprint
- · We commit to net zero emissions across the whole value chain no later



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

### **Helping maximize program ROI**

Save Money, Transform Operations, Align with End User Objectives, Reduce Risk



### What does your institution value?

### **PORTRAY**













### **REALITY – CREDENTIAL**



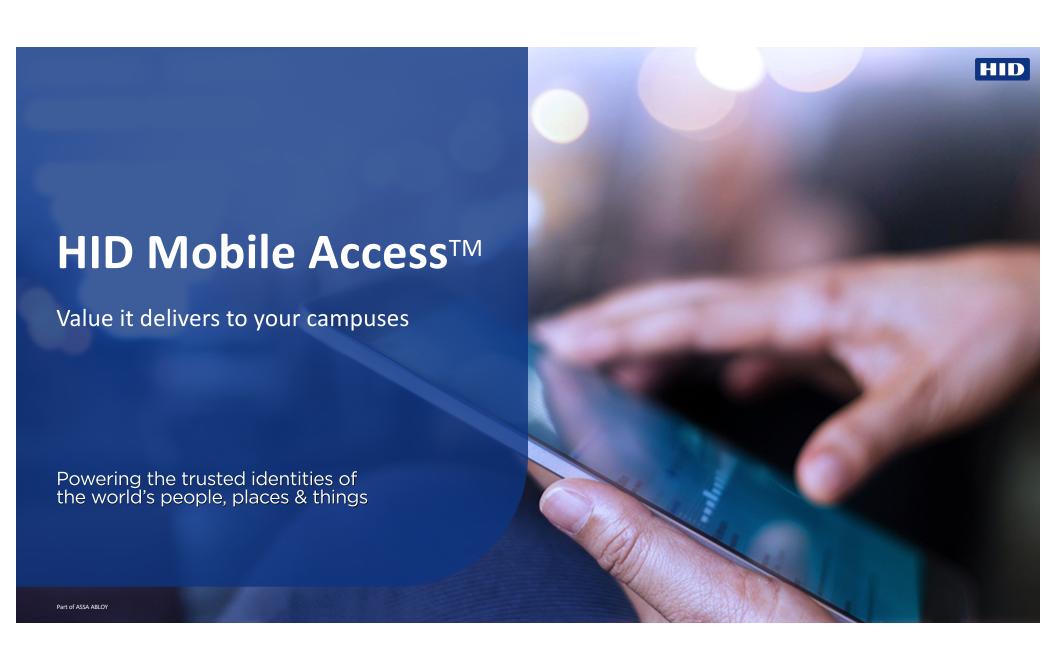












### An extendible and open solution

Comprised of the components below, HID Mobile Access enables virtual credentials on mobile devices that securely authenticates to readers for physical access control and other extended access applications







HID Origo Management Portal & API's



Mobile IDs



HID Mobile Access App HID Origo App & SDK







Readers

### Choice with an open and flexible solution



Demonstrated solution design and device manufacturer relationships that offer long-term, crossplatform support



**Technology Independence** 

HID Mobile Access is designed to offer customers and the market freedom to evolve with the rapidly changing mobile device industry



**Open Channel** 

Non-proprietary solution with the broadest channel/distribution network and technology partnerships in the physical security industry

### **Mobile Communications Basics**

Name	Frequency	Range
BLE (BlueTooth Low Energy)	2.4 GHz	Up to 30'
NFC (Near Field Communications)	13.56 MHz	Up to 4"

- All HID SE and Signo readers support NFC communications
- All Signo readers support BLE communication, and SE readers with a BLE expansion module
- All Wallet credentials are restricted to NFC communications

### **HID Mobile Access**

### **Physical Reader Ecosystem**

- **HID Signo**™ readers have the ability to support Mobile IDs as well as conventional credentials, such as cards
  - Support HID Mobile Access via both NFC and Bluetooth
  - Enhanced Tap routine improves user performance
  - ECP / Enhanced Contact Polling Future proof

• HID iCLASS SE and multiCLASS SE readers may already support Mobile Access or be upgradeable!









Signo 20

Signo 40

Signo 40K

















### **HID Mobile Access**

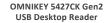
#### **Extended Access Reader Solutions**

- Support mobile credentials via Bluetooth and NFC
- Support Seos and DESFire alongside legacy technologies
- Include Apple's Enhanced Contactless Polling (ECP) application to support credentials in Apple Wallet
- Integrated by hundreds of non-PACS solution providers











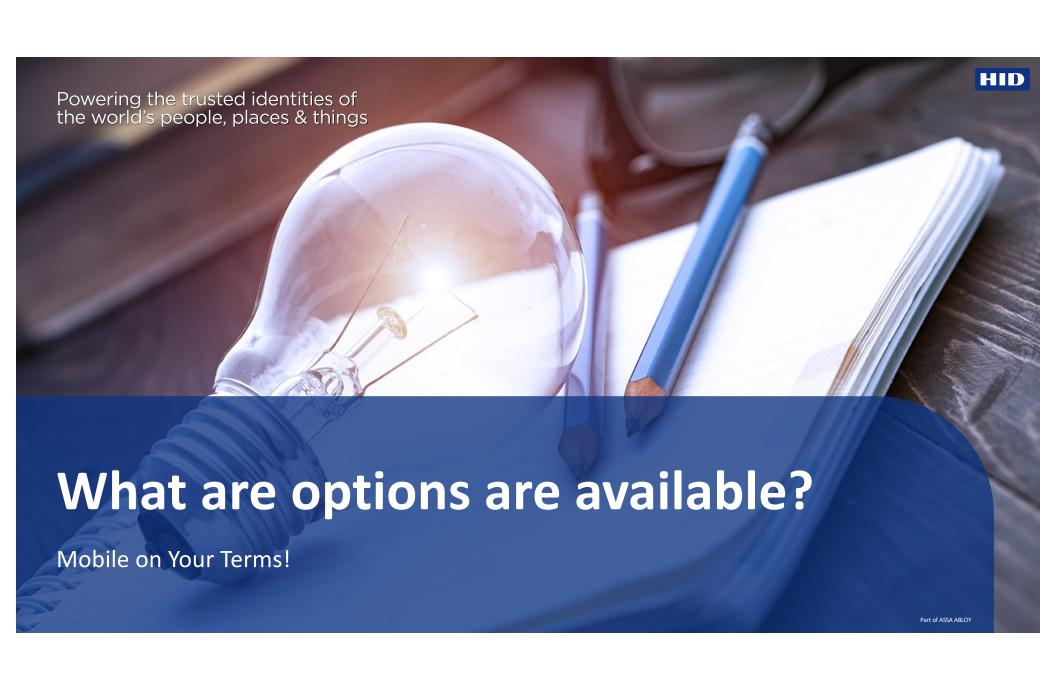
OMNIKEY 5127 Mini Housed & Unhoused



OMNIKEY 5127 Reader Core





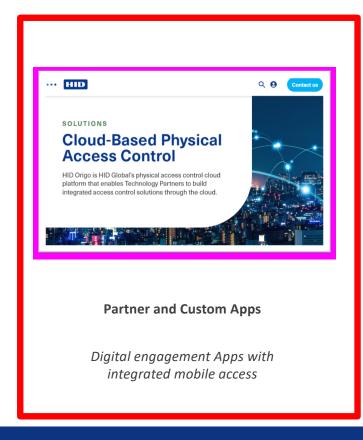


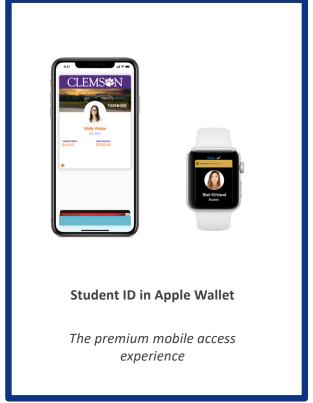
### **Capabilities & models to match campus objectives**



**HID Mobile Access** 

Off the shelf mobile access





### **HID Origo Integration – Lenel OnGuard**



- Supported 7.6 with update 2 to current versions.
- Support Mobile ID revocation from OG 8.1 & beyond
- Support multiple part numbers, multiple credential per user and Bulk Issuance
- Additional Info Contact Lenel



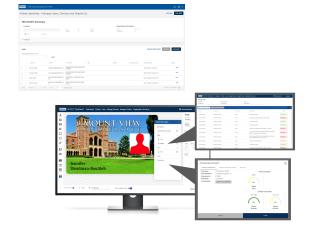
### Win Back The Day with HID Integrated Solutions



Manage

Use







### Win Back The Day with HID FARGO Connect

# Ease of Design

## Ease of Issuance









### **HID FARGO Connect-LenelS2 OnGuard**





- -Leverages OAAP
- -Supported on 7.4, 7.5, 7.6, 8.0+
- -Issue directly through OnGuard

### No client software

### Centralized visibility

### Secure remote issuance

Decoupled printers from workstation

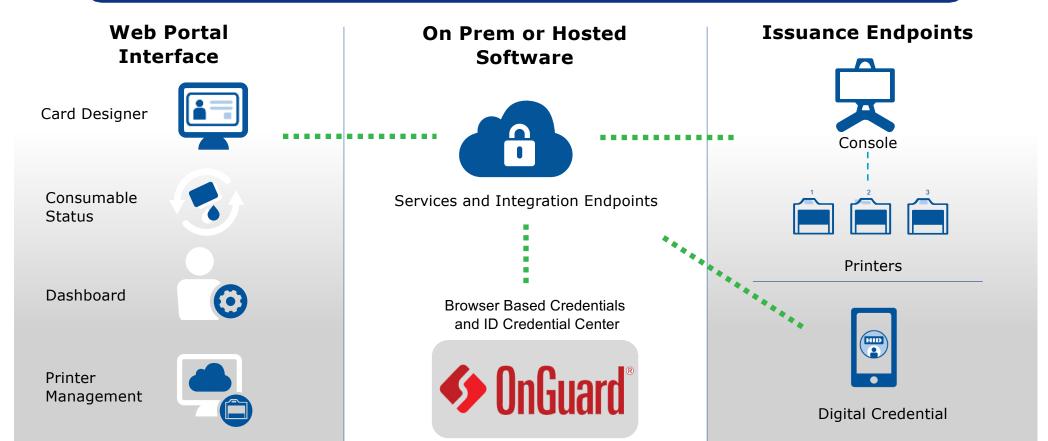
### Issue from anywhere

Utilize printers at any location from any workstation or browser

### Distributed inline personalization

Read and write any smart card encoding.
 Including multi-technology

### HID<sup>®</sup> FARGO<sup>®</sup> Connect<sup>™</sup> Architecture Integrated, smart, connected





### HID® FARGO® Connect™ Single Click Credential Issuance

HID FARGO Connect (HFC) issues physical card and communicates to Origo Portal

HID Mobile Access invite sent to student or employee

Mobile Credential enrolled to one card or PACS solution by HFC

3

2



### **App-Based Mobile Access**

# HID Introduces Technology Partner Program Dedicated to Companies Developing Mobile-Enabled Solutions

HID Origo™ Technology Partner Program is Designed to Help Technology Partners Meet Their Customers' Needs Faster and More Efficiently



### Powering the Digital Campus Experience

Hundreds of the world's leading universities and companies trust Modo to power their student and employee app experiences on over 10 million devices in more than one hundred countries.













PROPRIETARY AND CONFIDENTIAL / DO NOT DISTRIBUTE

### **Digital Access**

Apple Wallet / Digital IDs / HID

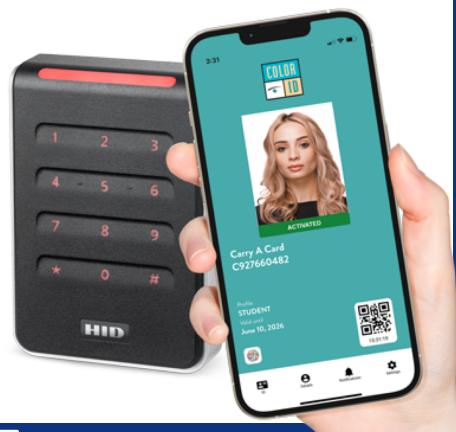
Description	Students can add their digital student card to their Apple Wallet and use their iPhone and Apple Watch to access buildings on campus, purchase meals, enter campus recreation facilities, student events and more.
Outcomes	<ul> <li>No need to remember your physical card</li> <li>Easily access buildings, check in for events, purchase meals, view balance</li> <li>NAU example: 21k active Jackscard users</li> </ul>





### **ColorID's Mobile Solution**

- Mobile for All -



- Built from CardExchange Cloud & HID Mobile Access
- Integrated with HID Origo [API]
- Secure
  - Regardless of chosen modality (BLE/NFC), security is built-in.
  - Session-based keys, secured, signed, encrypted by AES 128/SHA-256
- CardExchange Cloud Suite
  - Issue digital or physical ID's
- Credential Issuance via Fargo Connect or other printer options.
- 'Stand' App
  - Mobile Credential Works in Background
  - Not required to open App
- Cards, Mobile or Both
- BLE on iOS/Android, NFC Android

### **University – App Based Mobile**





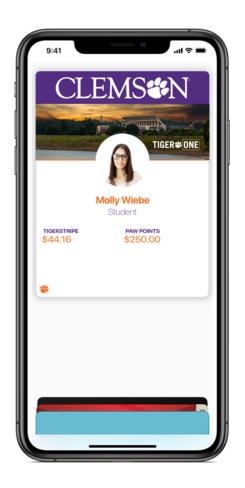




Overview

Users at participating institutions can add access cards to Apple Wallet on iPhone and Apple Watch

- User Convenience Uses Near Field Communication (NFC) technology
- Hardware Security Leverages same secure element as payment and transit cards in Apple Pay





**Power Reserve Mode** 

When low on battery, iPhone will enter Power Reserve mode. On the latest iPhone models, the Pass may still be used for up to five hours in Power Reserve mode when the battery needs to be charged.



**Self-Service with Lost/Stolen Devices** 

HID credentials work seamlessly with the Find My ecosystem, allowing users to easily suspend the use of the credential, or completely remove the credential from the device, even when the device is offline.



**User-Driven, App-Based Provisioning** 

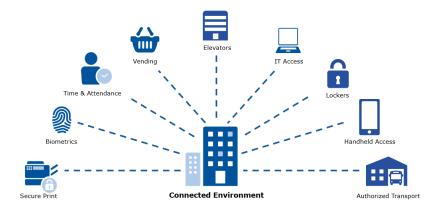
A user, who is eligible for mobile access, downloads a mobile app and authenticates in-app using their organization's Single Sign On and Multi-Factor Authentication platform. After successful authentication, a pass (digital credential) is instantly and securely delivered to their device, activated with all proper entitlements across the organization.

- Requires HID Origo API/SDK integration
- Requires mobile app integration with SSO/MFA
- Requires entitlements systems (e.g., PACS head end) integration



100% Use Case Requirement

To ensure a remarkable user experience, Apple requires that all reader applications which support the plastic card must also support mobile credentials in Apple Wallet\*





<sup>\*</sup>Secure sector reads only. In accordance with privacy best practice, Apple requires credentials use random (not static) ISO14443A UID (aka CSN). Therefore, CSN or insecure, unauthenticated reads are not supported.

**OneCard Providers** 











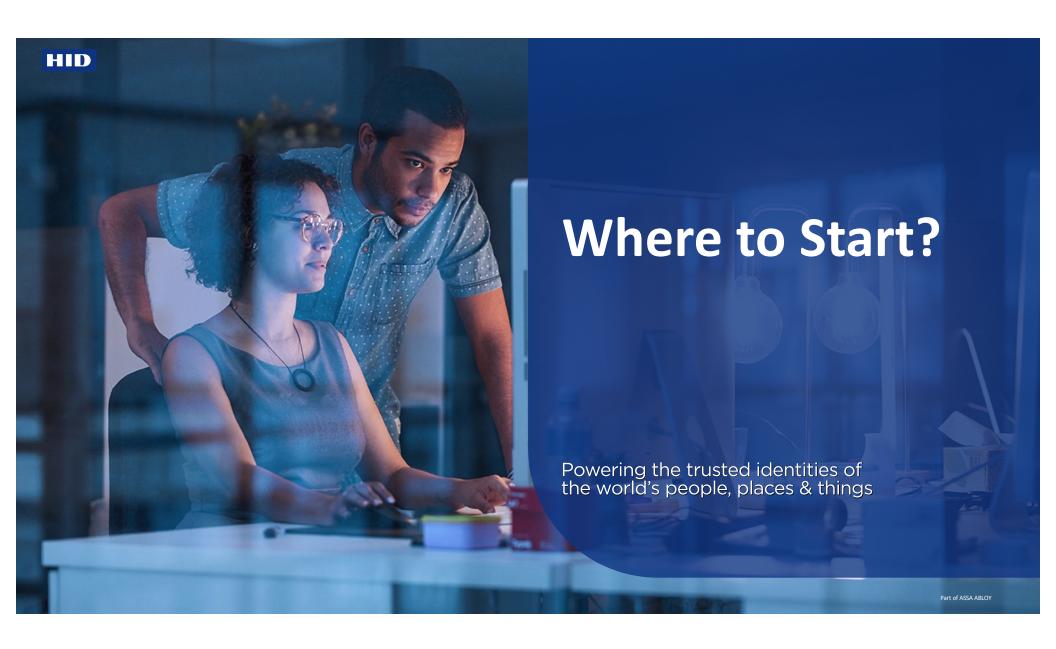
### Recap

#### **APP BASED MOBILE ACCESS**

- BLE IOS/ANDROID
- NFC ANDROID ONLY
- \*NFC IOS NOT AN OPTION\*
- NETWORK OF PARTNERS
  - Lenel OEM
  - HID Fargo Connect
  - Origo Technology Partners

### WALLET BASED MOBILE ACCESS

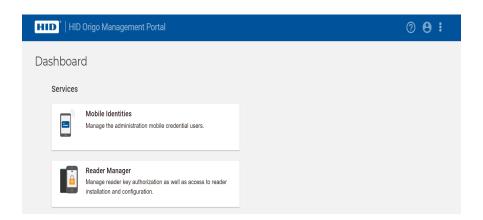
- NFC ONLY
- ONECARD PROVIDERS
  - Atrium
  - CBORD
  - ITC Systems
  - Touchnet
  - Transact



### **Mobile Onboarding - MOBKey**

### Link to Self On Boarding: HID Origo Management Portal







### **Evaluating Your Reader Terminals**

### Legacy



Hardware incompatible

Requires hardware replacement

### **Mobile-Capable**



Hardware compatible

Requires firmware upgrade

### **Mobile-Ready**



Hardware & Firmware compatible

Requires minor configuration change

### **Mobile-Enabled**



Hardware, Firmware, & Configuration compatible

Ready to Go!

### **Recommendations & Next Steps**

**Collaboration on:** 

Use Case Assessment

Stakeholder Meetings

**Business Case** 

Partner Teamwork

To deliver an exceptional campus experience, aligned with strategic goals

With the objective of:

Replacing Legacy Technologies

Implementing a Mobile Adoption Roadmap

Identifying a Champion

Leadership Buy-In



