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

HID & Mercury- HELUG 2025

Stronger Together: Building Smarter, Safer Campuses Through Collaboration
Delivering integrated solutions with LenelS2

Part of ASSA ABLOY

Partnership- Powering Safer Campuses

- Over 25 years of collaboration
- Integration and Standards
  - OSDP
  - High Assurance
  - Mobile
  - Fargo Connect
  - Key, credential management

LENEL

MERCURY SECURITY

LENEL·S2

Mercury

Readers: HID® Signo™— white color option

HID® Signo™ in white

New white color option

Available in all standard form factors

Match modern interior design and aesthetics

NEW

★★★ Positive feedback from 1st project

Supports all Signo capabilities

Same price, profiles and features*

Available from July 2024

Notes: Default LED is blue as pictured,
No Tx profiles,
N/A for speciality readers, e.g. Express/Vento/PIV/mechanical

Readers: HID® Signo™— Mechanical Keypad

HID® Signo™ Mechanical Keypad

Reliable performance in cold and wet weather

Allows for gloved-hand and differently able use-cases

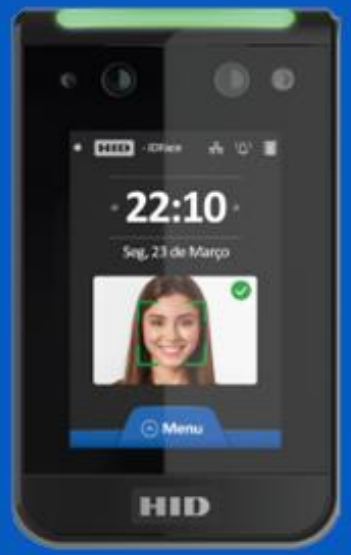
Delivers where there's a preference for traditional mechanical key operation

NEW

- Signo product line extension
- UL tested. FCC approved
- Supports all Signo features
- Available from June 2024

Note: Black only, ships with terminal only

Biometrics – Facial Reader



3.5” (shown) and 7” models

HID® Amico

Ideal for mid-sized organizations

Feature-rich

Fast, accurate facial recognition for secure, seamless access

NEW

- ★★★ Precision facial recognition with anti-spoofing protection
- Minimized false rejections and delays – critical for high-traffic areas
- Biometric data saved on user’s credential (mobile or card)
- Announced at ISC West! 2025

- Seamless integration into existing and new systems (API)
- Supports OSDP and Wiegand

Tools & Connectivity

Field Tools

HID Linq On Prem & Cloud

- PC based Device Management software for HID
- Supports HID Signo (except Signo 25B)
- Available in **On Prem** and **Cloud** versions
- Allows technicians to manage and configure multiple HID Signo readers over USB or via Mercury controllers
- Powered by HID Origo: Technician Authorizations

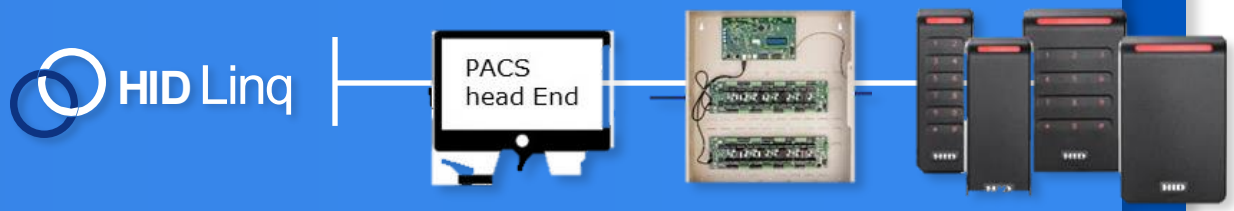
HID Reader Manager

- BLE/NFC 1:1 Secure Device Management app on Apple and Android devices
- (Note: 50% faster upgrade using Android and NFC channel)
- For iCLASS SE reader with/without BLE module
- HID Reader Manager will become **HID Linq Mobile**

Signo Wired Connectivity for fleet management

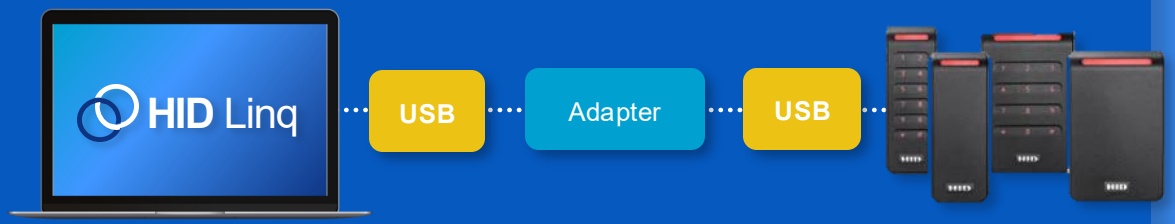
- For customers with Signo and Mercury LP/MP boards

- For customers with Signo and Non-Mercury controllers



Connect Signo Readers Over USB

- Tabletop ‘Pre-commissioning’
- Use HID Linq to upgrade/configure Signo readers over USB
- Linq will need internet connectivity for configuration and firmware files

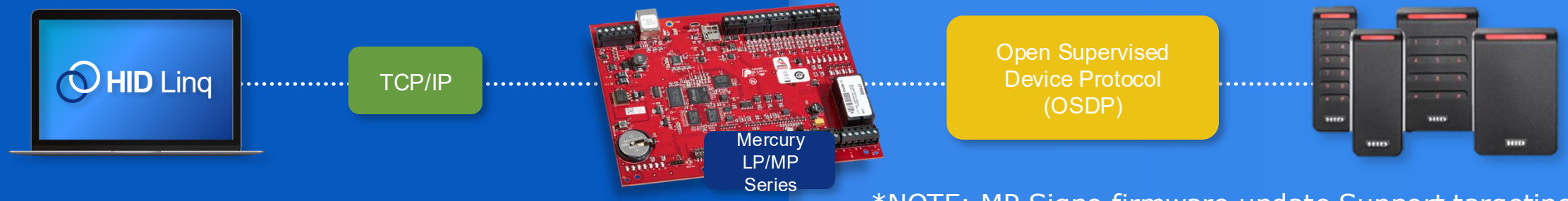


- 1-4 reader stand
- Easy to use “click” connector on the back
- Readers can be powered over USB using USB HUB (not included)
- P/N – SIGNO-STAND-4
- Available now

Connect Signo Readers Over Mercury LP/MP for Fleet Management

Mercury Controller with OSDP connection to Signo

- For customers with Signo and Mercury LP/MP* boards looking for remote device management
- Use Linq to upgrade/configure Signo readers over network (software requires internet access)
- Linq will share same connection to panel as PACS head end



Supported Mercury Controllers & IO Modules

Intelligent Controllers

- LP & MP Models :1501, 1502, 2500, 4502,
- PW7K1ICR2, PRO42ICR2

Serial Input/Output Modules

- MR50-S3, MR52-S3, MR52-S3B, MR62e
- PW7K1R2, PRO42R2
- To work with HID Linq reference the minimum FW required in the Linq User Guides

*NOTE: MP Signo firmware update Support targeting Q3 2025

Physical Identities

Multi-technology Support

- For customers who need specific blend of technologies, HID continues to lead market with array of super capable options
- Latest DESFire EV3 combined with iCLASS and Prox (launched).
- FIDO (logical access) with Seos and DESFire (physical access) coming soon!

Eco-Friendly Credentials

- For customers who want to limit the environmental impact of their access control cards.
- Bamboo construction Seos cards available with optional dynamic marking
- Seos technology-based paper credentials released April 2025
- PVC Free plastic blend in development!

Digitized Card Services

- For customers who want easy web-based management of keysets, formats and card designs.
- The HID Origo Management Portal will help centralize your need for both physical and mobile credentials.
- New functionality coming to HID Origo in 2025!

Intelligent Controller Hardware Lifecycle

SCP 1st Generation 1995 - 2007	**EP** 2nd Generation 2007 - 2019	**LP** 3rd Generation 2018 - 2028	**MP** 4th Generation 2024 -
12 years	**12** years	**10** years	

* Timelines include firmware sustaining support

© Mercury Security

MP Provides:

Increased Security

Security by Default!

- TLS 1.3
- AES-256
- Secure Boot & Trust Zone
- Data at Rest Encryption
- 802.1x
- OSDP Secure Channel
- Segmented & Protected Container for Apps

Secure Boot & Trust Zone

Ensure firmware comes from known source and applications contexts are isolated

Latest Cryptography

Latest secure crypto methodologies

Updated Firmware

Powered by Mercury's new MercOS 2.x

MP Provides:

Product Continuity

Designed for resilience, flexibility, and longevity!

- Modular components that can be dynamically updated to address future supply chain challenges.
-
- Increased processing power and memory ensure the platform can adapt to evolving technology.

New Integrated Circuit

Designs contain new integrated circuits with 10-year longevity programs

Multiple Build Options

Expanded real-time build options provided by multiple component configurations

Rapid Firmware Updates

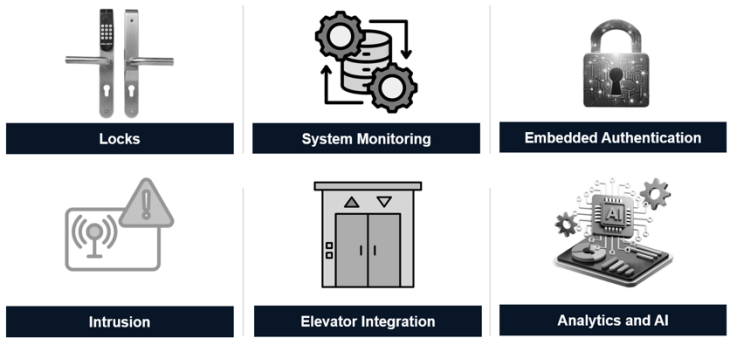
Enabled by in-house managed Linux-based operating system

MP Provides:

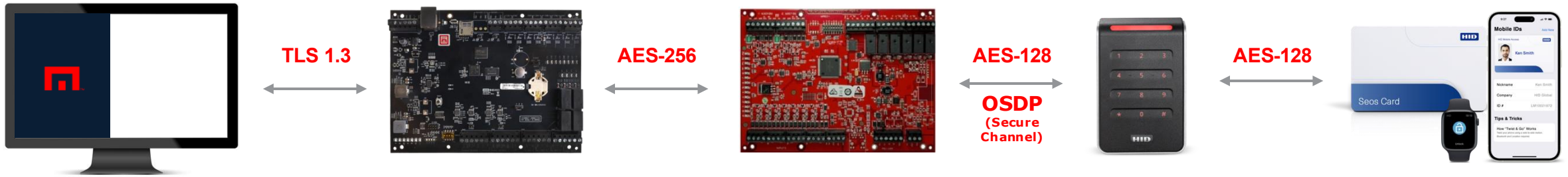
App Environment

Tech Partners, OEMs, Integrators & End Users can now write Embedded Apps that live on the MP Controller at the edge to add more integrations, more processing capabilities, and analytics.

Below are some examples of Apps:



Fully encrypted (End-to-End) communication is readily available with Mercury and HID using standard, proven, and accepted encryption methods.



Mercury Based Host System

MP

Intelligent Controller

Series 3

SIO Module

Signo

Card Reader

Seos

Credential

© Mercury Security

Apps on Controllers

Mercury and its system and technology partners will **write apps** that **run on the controller** that both runs business logic to **enhance access control** processing and enables the interface to more **sensors, devices and systems.**

© Mercury Security

Why **APPS** are the Future – Product

Scalable

Ready for anything — today and tomorrow

Interoperability

Compatibility

Simplicity

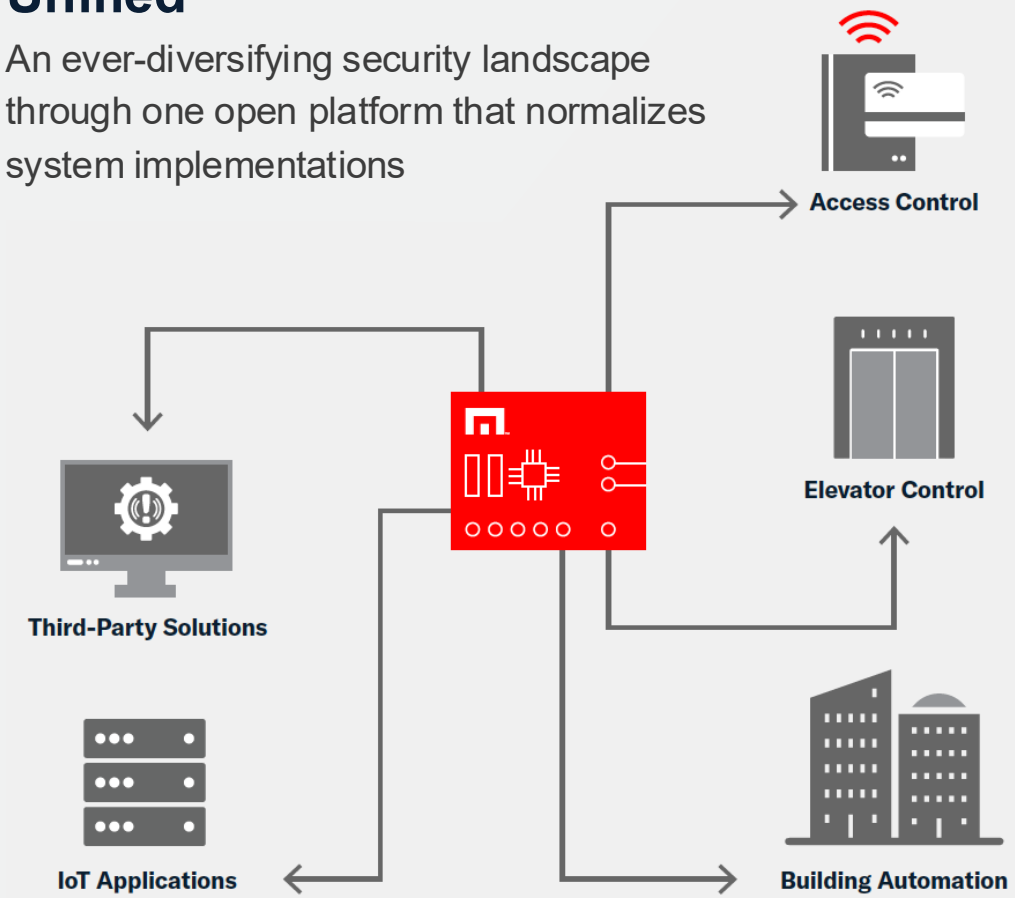
Flexible

Multiple Embedded SDKs

Host	Device	System
Edge processing for PACS	Extend device interoperability	Service assurance and cyber hygiene

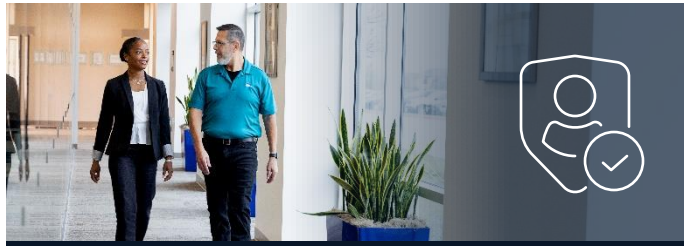
Unified

An ever-diversifying security landscape through one open platform that normalizes system implementations



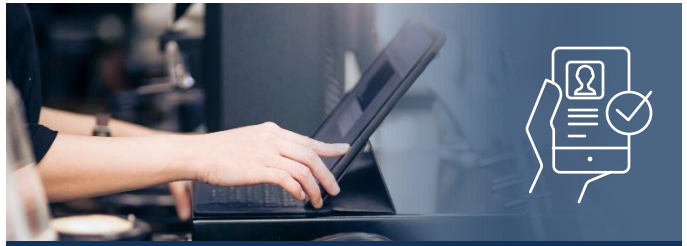
© Mercury Security

Why **APPS** are the Future – Partner Value



OEM Partner Benefits

- OEM Partner Benefits
- Do more with less
- Easier consumption of 3rd party devices
- Adds value to the PACS: more data, insights, revenue
- Access to additional channel and market opportunities



Tech Partner Benefits

- Access to Mercury platform/brand
- Single integration with 25+ OEMs
- Own the development
- Enhance the features
- Access to additional channel and revenue opportunities

End Customer Benefits

- Drives "openness" message to the device ecosystem
- Extends infrastructure investment
- Flexible solutions – evolving with market and customer needs

© Mercury Security

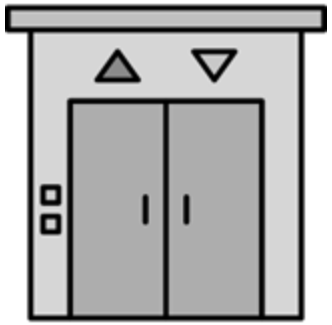
Target App Functionality

Locks

System Monitoring

Embedded Authentication

Intrusion



Elevator Integration

Analytics and AI

© Mercury Security

Showcased Apps at ISC West

KS210 Lock

Solves:

- Data center rack access & traceability

Features & USPs:

- OEM integration via Mercury API
- OSDP Input & Output Support
- Up to 4 OSDP multi-dropped buses
- Up to 32 devices supported
- License restricted

Locks

HID pivCLASS

Solves:

- HID Signo reader management

Features & USPs:

- PKI authentication at the door
- FIPS 140-3 FICAM
- MercOS 2.x & MP4502
- Support for Signo Contact
- FICAM – GSA APL
- BAA/TAA compliant

Embedded Authentication

Service Assurance & Cyber Hygiene

Solves:

- IT management of 10,000 IoT devices

Features & USPs:

- Discovery of devices on network
- Secure connection status for IP & periphery
- Certificate management
- Password rotation
- Firmware update

System Monitoring

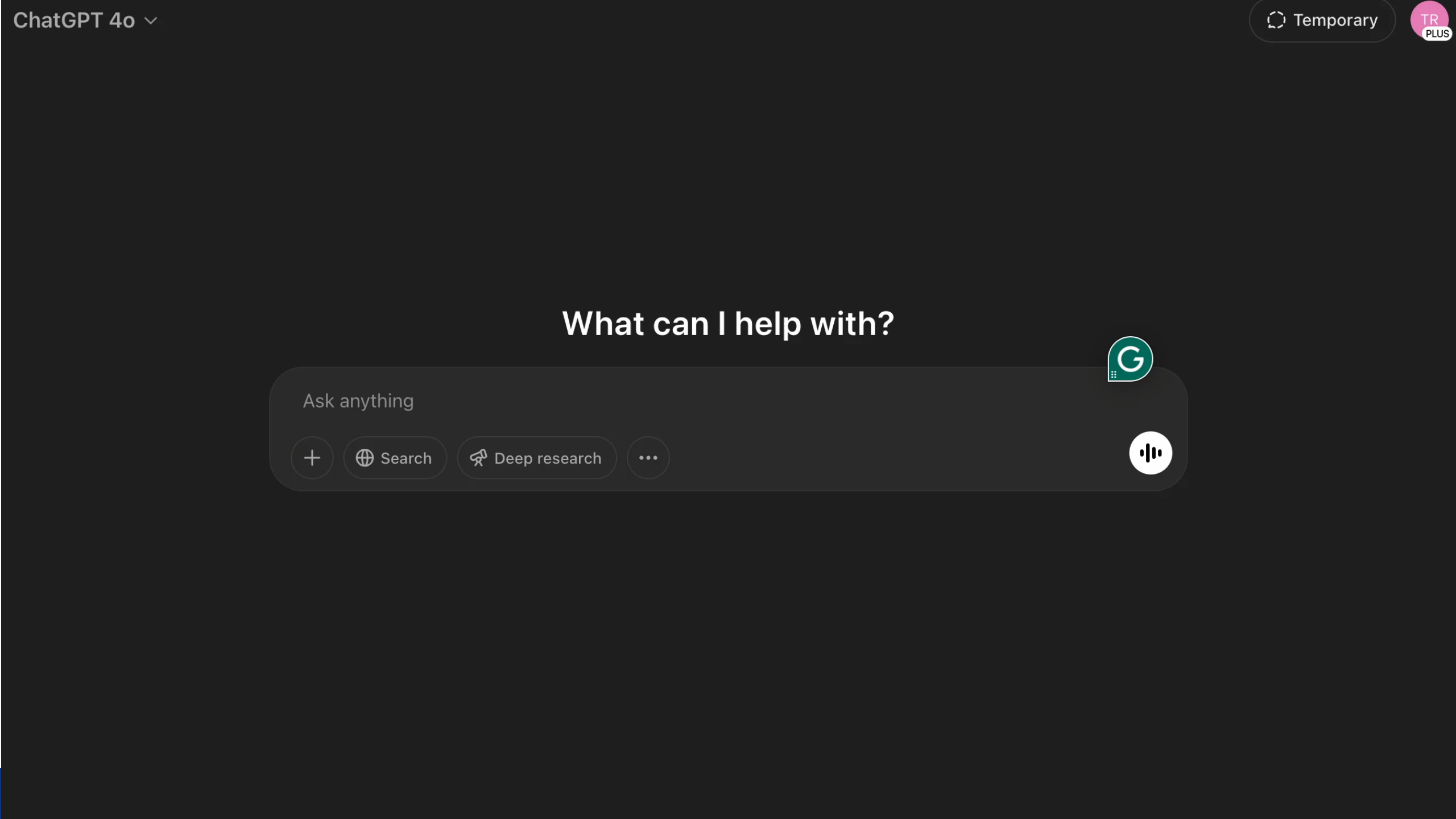
© Mercury Security

Digital Migration with Mobile

Troy Johnston

Director Strategic Alliances Americas

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


ChatGPT 4o
Temporary
TR
PLUS
What can I help with?
Ask anything
Search
Deep research

Top Seller

Boise X-9 Multi-Use Printer & Copy Pap White, Letter (8.5" x 11"), 200000 Sheets Pallet, 20 Lb, 92 Brightness, 0X9001SKD

(1458 reviews) | **Product Number:** ODFN895391

Quantity:

500 / Ream | 2500 / Carton | 5000 / Carton | 200000 / Pallet

$1,799.99

1

Add to Cart

Ships Free - This items ships free with your order

Delivered by Wed 4/16 - This is an estimated delivery timeline

Oversized Shipping - This is an oversized item

Non-returnable - This is a non-returnable item

Favorite | Compare | Request

MAIN POWER
ENERGY SAVER
HOME
ACCESS
FUNCTION CLEAR
START

WARNING

CONTAINS SCENES THAT SOME VIEWERS MAY FIND DISTURBING

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How to Print Emails from...

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Microsoft Outlook: How t...

HOW TO AUTO-PRINT YOUR EMAILS WITH

Outlook

Gmail

Thunderbird

AUTOMATIC EMAIL MANAGER

11/5
11/6
11/7
11/8

How to Choose the Best Paper Shredder

Cut Type

Shredder Acceleration

Noise Levels

Capacity

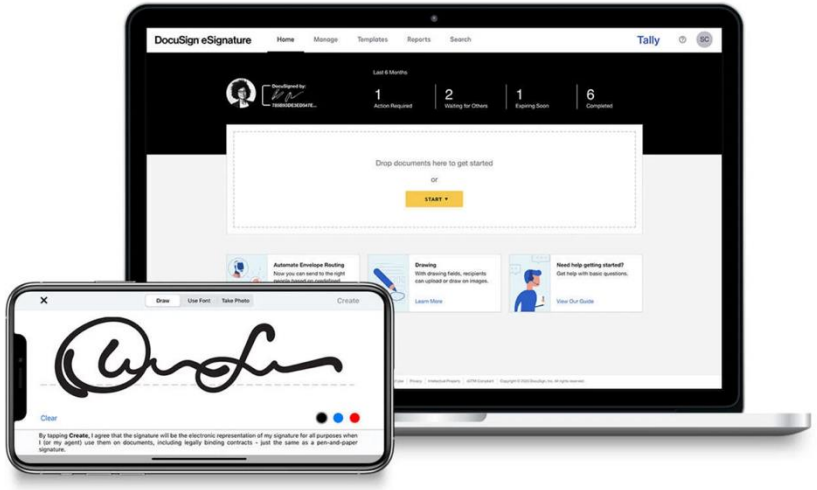
Power Saving

Security Features

Advanced Features

Almost everything was replaced by these tools

DocuSign®

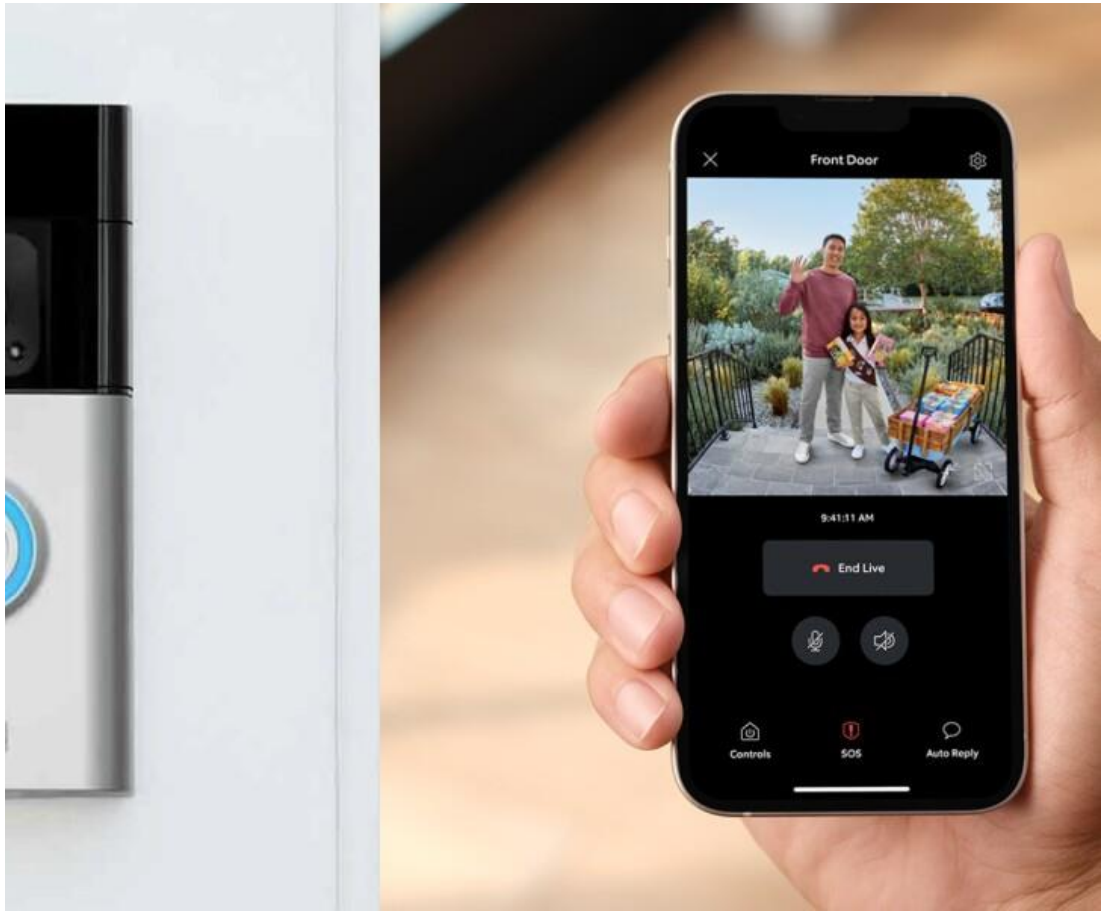


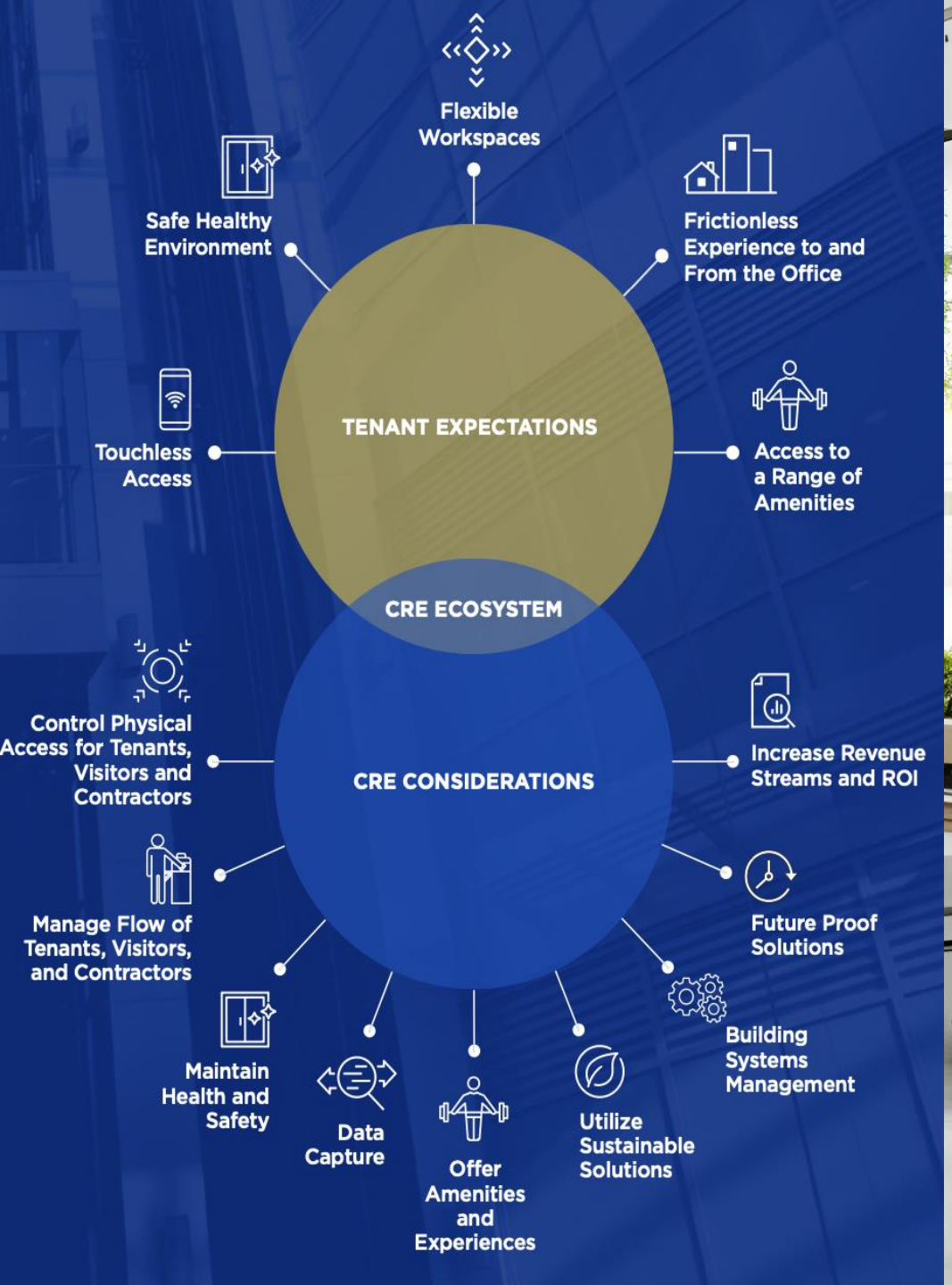
Flinstones vs the Jetsons

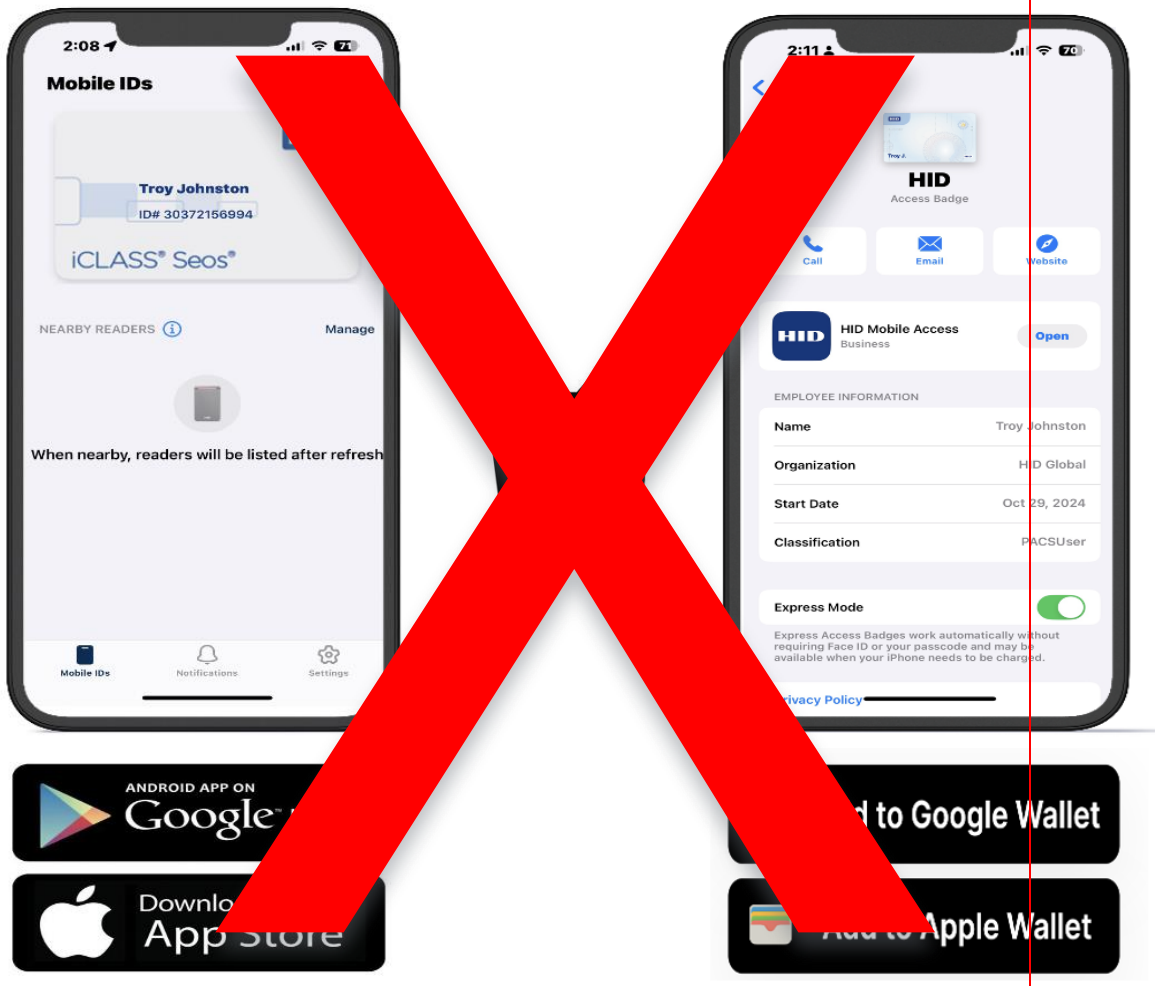
"When did it become OK to live like the Jetsons at home and the Flintstones at work?"

FLETCHER PREVIN | (THEN) CIO AT IBM

Low Cost – High Value




Flexible Workspaces
Safe Healthy Environment
Frictionless Experience to and From the Office
TENANT EXPECTATIONS
Touchless Access
Access to a Range of Amenities
CRE ECOSYSTEM
Control Physical Access for Tenants, Visitors and Contractors
CRE CONSIDERATIONS
Increase Revenue Streams and ROI
Manage Flow of Tenants, Visitors, and Contractors
Future Proof Solutions
Building Systems Management
Maintain Health and Safety
Data Capture
Offer Amenities and Experiences
Utilize Sustainable Solutions



"90% of the benefits of mobile access come from going mobile, not the modality."

The Evolution of Credential Technology

Security & Functionality

circa 1970

Unencrypted Magnetic Stripe

Magstripe
Early form of data storage on a magnetic stripe

circa 1990

Unencrypted Memory Chip

Low Frequency Card (125kHz)
Data storage inside a card on a memory chip

circa 2000

Encrypted Smart Cards

High Frequency Smart Card (13.56MHz)
Expanded memory for data storage inside a card on a memory chip

circa 2010

Encrypted Smart Cards with Additional Safeguards

High Frequency Smart Card (13.56MHz)
Superior encryption approaches + layered security

circa 2014

Paradigm Shift

Smart Cards and Mobile
Security enhancements, focus on multi-application support and the addition of mobile device support

The Evolution of Mobile

circa 2014

circa 2018

TODAY

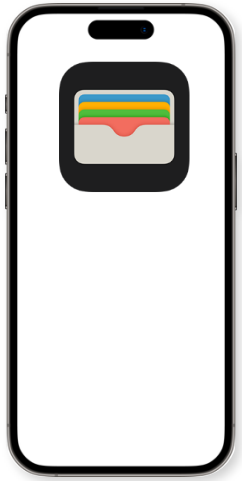
Future

Security & Experience

App Based Mobile

Apple Wallet

Wallets



90%

10%

Digital migration with mobile

$$$$

1

Plastic

2

HID Mobile Access App

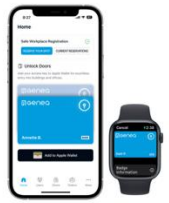
3

HID Mobile Access App + Integration

4

Custom Mobile App + Integration

5



Custom Wallet Solution

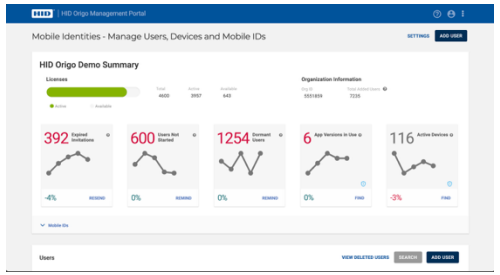
6

PIAM

Time - Features - Complexity

Building Blocks of Mobile Access

All of these are needed for both app based and wallet



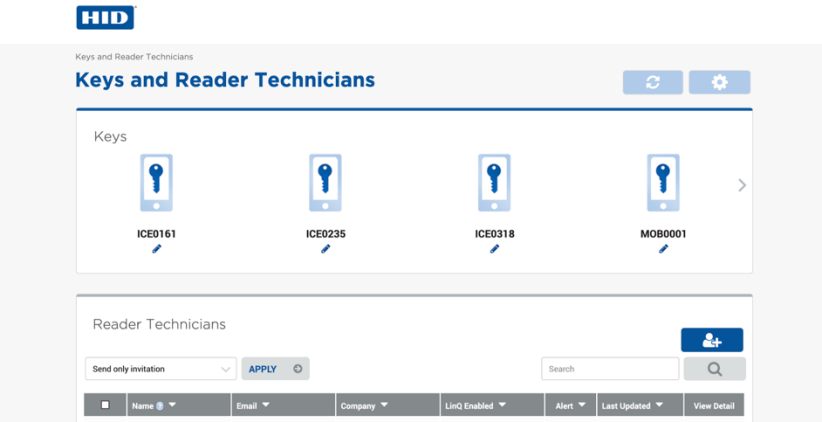
HID Origo Management Portal

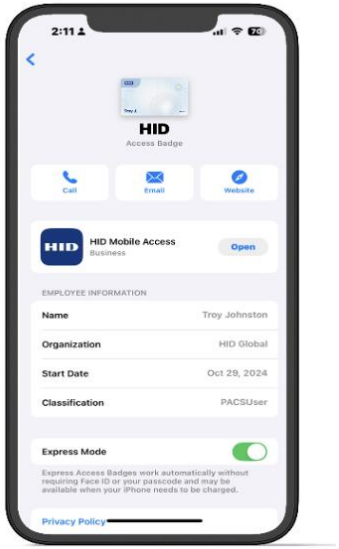
Mobile IDs

HID Mobile Access App or Partner Created App

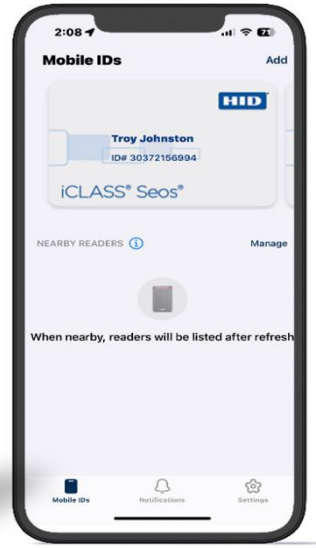
Readers

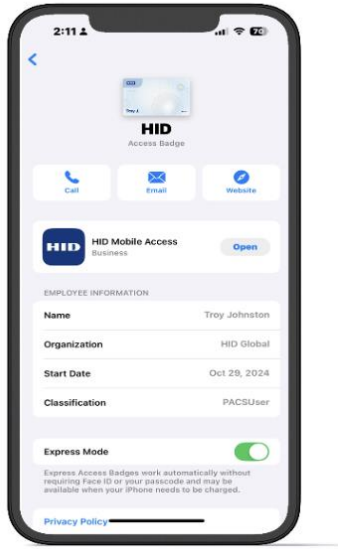
Touch the reader once





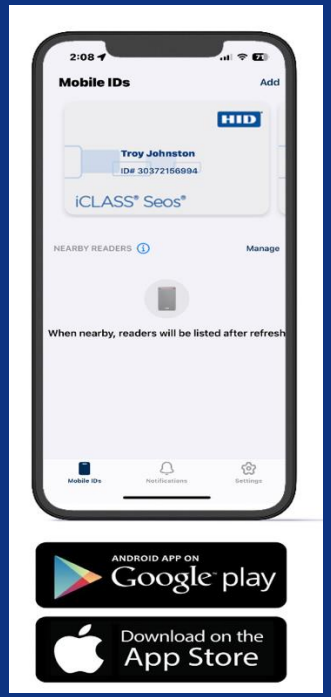
Begin the journey

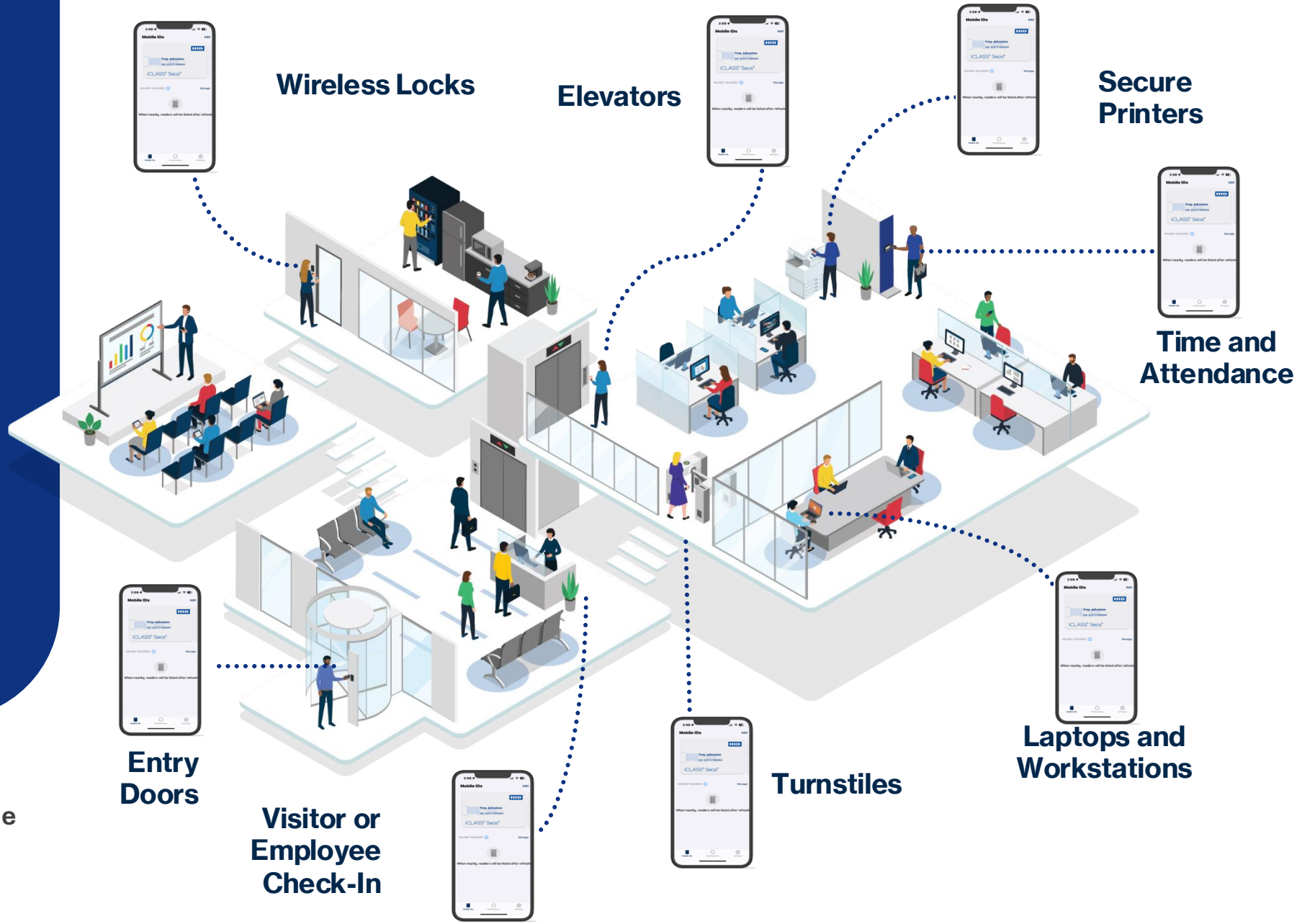




Access everything from doors to data - Physical

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

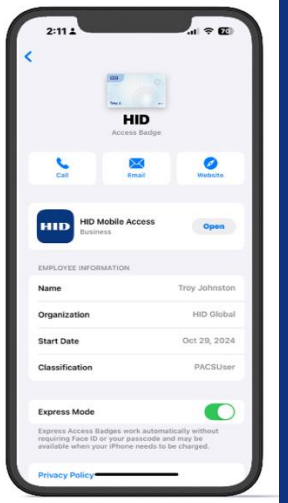




95% chance of working across the entire ecosystem

Access everything from doors to data - Physical

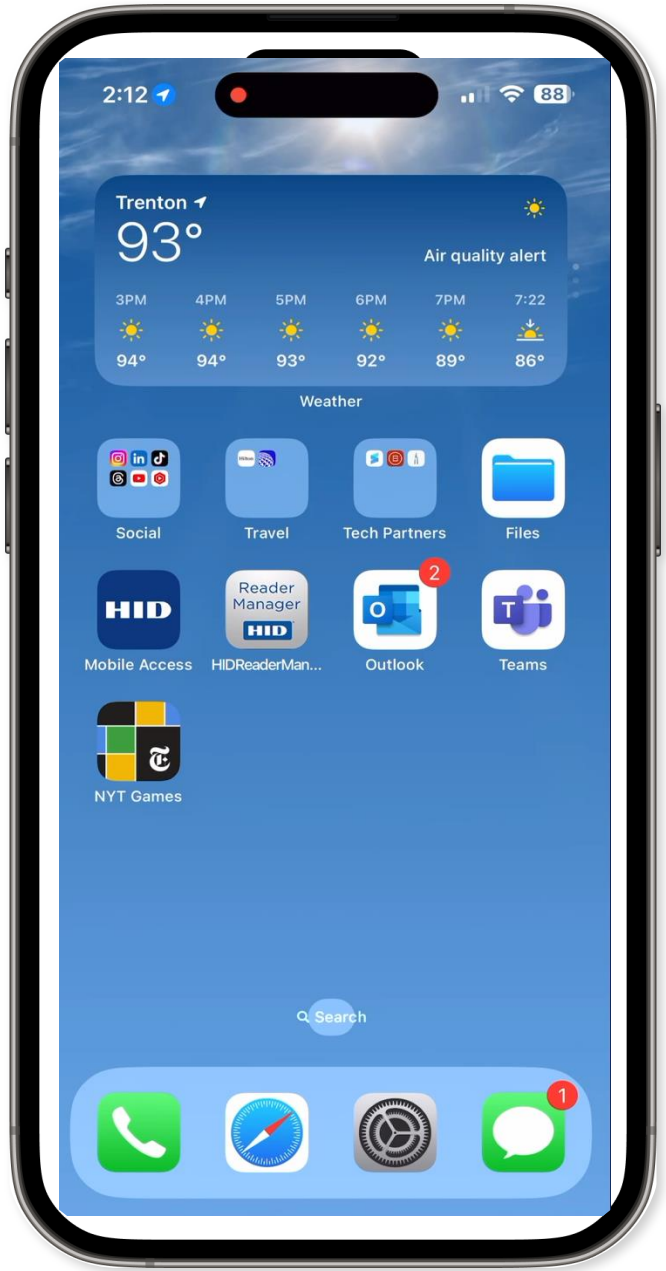
On your floor, in your building, or across the portfolio.

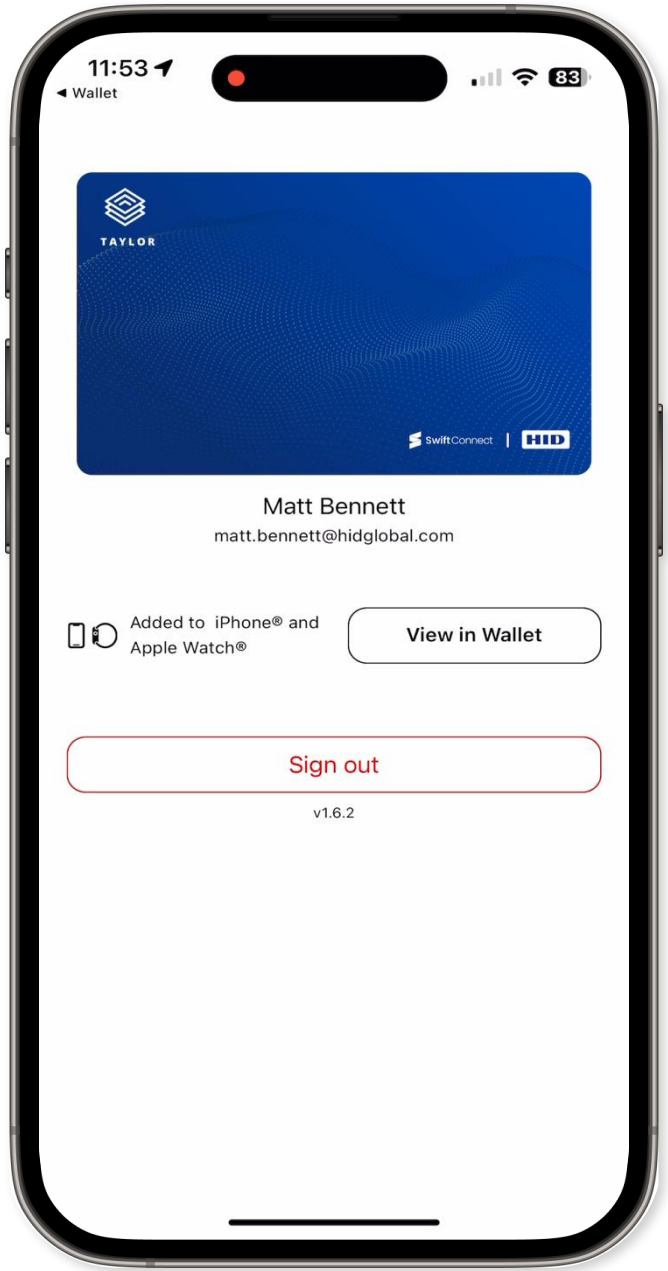


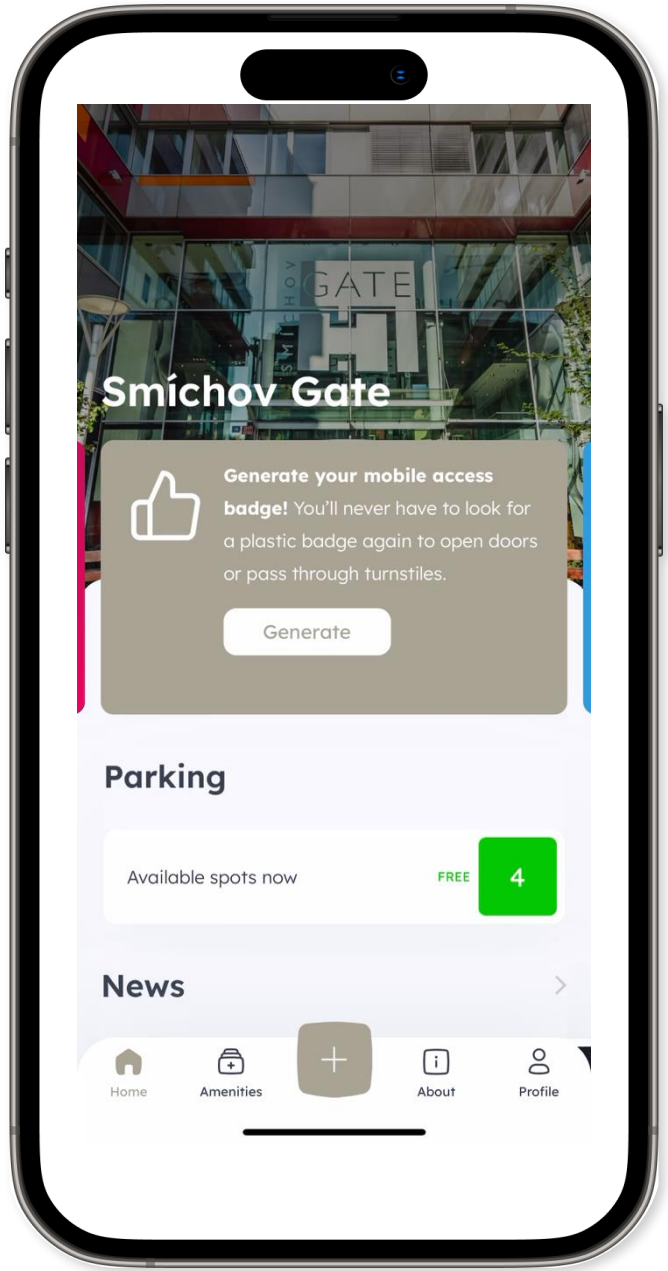
Add to Google Wallet

Add to Apple Wallet

50% chance of working across the entire ecosystem


2:12
Trenton
93°
Air quality alert
3PM 4PM 5PM 6PM 7PM 7:22
94° 94° 93° 92° 89° 86°
Weather
Social
Travel
Tech Partners
Files
Mobile Access
HIDReaderMan...
Outlook
Teams
NYT Games
Search


11:53
Wallet
TAYLOR
SwiftConnect | HID
Matt Bennett
matt.bennett@hidglobal.com
Added to iPhone® and Apple Watch®
View in Wallet
Sign out
v1.6.2


Smíchov Gate
Generate your mobile access badge! You'll never have to look for a plastic badge again to open doors or pass through turnstiles.
Generate
Parking
Available spots now
FREE
4
News
Home
Amenities
About
Profile

Contact Me

THANK YOU!

troy.johnston@hidglobal.com
mobile: +1 737 351 4545

Troy Johnston – Director of Strategic Alliances