

# Product Guide

Secure Identity Solutions from HID Global®





## About HID Global

### Thank you!

**Thanks for your interest in access control and secure identity solutions from HID Global. This guide contains a wealth of information on our products to help your decision making process. Feel free to contact us with questions at**

**[insidesales@hidglobal.com](mailto:insidesales@hidglobal.com)**

HID Global® is the trusted leader in products, services and know-how related to the creation, management and use of secure identities for millions of customers around the world.

HID Global is focused on creating customer value and is the supplier of choice for the following solutions: physical and logical access control; card personalization; visitor management; government ID; and identification technologies for animal ID, industry and logistics applications.

Solutions from HID Global offer superior quality and value. Our products are designed and built in ISO 9001 certified facilities, include worldwide agency certifications, and are backed by global product warranties. Supported by decades of industry-leading experience and the strongest delivery and response platform available, HID Global's solutions reinforce the long-standing trust that when customers purchase our products, they are investing with absolute confidence in solutions that meet their identity needs.



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iCLASS SE® R10   iCLASS SE® R15   iCLASS SE® R40   iCLASS SE® RK40   iCLASS SE® RMP40   iCLASS SE® R95

## iCLASS SE and multiCLASS SE Readers

### Providing the highest level of security and convenience in access control

Access control and security requirements are continuously evolving, meaning outdated technology can cause security vulnerabilities and administrative headaches. Practically speaking, most companies will need to upgrade their access control systems in the near future due to the opening of a new location, a merger/acquisition, the need for enhanced user convenience or even a security breach.

iCLASS SE® and multiCLASS SE® readers are ideal for upgrades to existing access control systems or greenfield installations, as they support a broad range of credential technologies to maintain backward compatibility and scale for future security needs.

Key benefits of iCLASS SE and multiCLASS SE readers include:

- **Powerful Security:** These readers enhance mutual authentication with smart cards using a layered security approach that leverages the Secure Identity Object (SIO) data model for greater trust. Even more, iCLASS SE and multiCLASS SE readers support the Open Supervised Device Protocol (OSDP) standard, which enables encrypted communication with the controller. These readers also feature a patented velocity checking feature to protect against brute force attacks.
- **Proven Interoperability:** iCLASS SE and multiCLASS SE readers support a wide range of credential technologies, including Seos®, iCLASS, MIFARE, 125kHz Prox and more. Beyond credentials, these readers have demonstrated full interoperability with the industry's broadest set of physical access control panels and even support NFC and Bluetooth communication standards.
- **Validated Sustainability:** iCLASS SE and multiCLASS SE readers include a unique Intelligent Power Mode feature and are certified by GreenCircle to reduce energy consumption by at least 59%. HID Global discloses Environmental Product Declarations for these readers, bringing a new level of transparency to sustainable manufacturing impact in physical access control.

Additionally, iCLASS SE and multiCLASS SE readers support HID Mobile Access®, enabling a new class of portable identity credentials that can be securely provisioned into mobile devices.





# Seos Credential Technology

## More choice, more applications, more confidence

Access control solutions powered by Seos® are designed to meet the increasing demand for more dynamic environments. Enabling secure identities on smart cards and mobile devices, this breakthrough credential technology bridges the gap between convenience and performance.

- **More Choice:** Solutions powered by Seos offer the freedom to choose the right mix of access control devices, communications standards, operating systems and use cases to suit any organization's needs.
- **More Applications:** From building access and computer login, to secure print release and cashless payments, this breakthrough technology connects identity like never before.
- **More Confidence:** Award-winning access control solutions powered by Seos deliver best-in-class security and privacy protection, mitigating risk and protecting sensitive identity data.

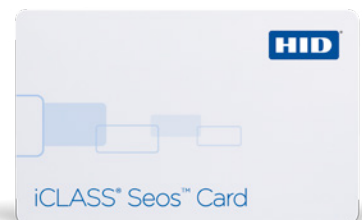
Like legacy smart card technologies, Seos can reside on a traditional ISO printable card and support an endless variety of physical access credential formats. Unlike legacy credential technologies, Seos can extend physical access control to the mobile-first world and enable cashless payment, secure print and PC login like never before. Further, state-of-the-art iCLASS Seos credentials deliver superior data integrity and enhanced privacy protection by leveraging the latest cryptographic standards for storing and transporting identity information, coupled with the Secure Identity Object (SIO) for a layered security approach.

With access control solutions powered by Seos, your organization receives a whole new level of convenience and choice, as well as the confidence of first-class security protection for today's ever-evolving world.

*"I think Seos goes beyond just door access; it allows us to manage the credentials better and put the destiny of the department back into their own hands."*

**Danny Anthes**

Senior Manager  
of Information Technology,  
George Mason University





## Credential Portfolio Supported by HID Global

### Supporting the widest range of credential technologies

With HID Global®, your organization can utilize a flexible credential solution provider that supports the industry's broadest portfolio of credential technologies and multi-technology configurations. Supported technologies include: Seos®, iCLASS SE®, iCLASS®, MIFARE DESFire EV1, MIFARE Classic, HID® Prox, Indala® Prox, UHF, Magnetic Stripe, Crescendo®...and more.

HID Global's advanced design and manufacturing capabilities offer you the ability to leverage multi-technology credentials to ease transitions and support a vast array of applications.



iCLASS KEY II



MICROPROX  
ADHESIVE TAG



PROXCARD II  
CLAMSHELL CARD







# HID Mobile Access

## Secure, convenient access control using mobile devices

Mobile devices have transformed every facet of our lives, including access control. With HID Mobile Access®, employees can now use their smartphone, tablet or wearable to access doors, gates, networks and more. This new option for access control greatly improves user convenience in today's mobile-first world, as well as makes your organization look more modern and professional.

HID Mobile Access, which leverages Seos® as its underlying credential technology, offers these key benefits:

- **User Convenience:** End-users are no longer required to carry a card to access facilities and can now use their go-to mobile device instead. Thanks to highly intuitive “Tap” and “Twist and Go” gestures, employees can gain more convenient and efficient access.
- **Operational Efficiency:** Using HID Global’s online Secure Identity Services portal, administrators can create, manage, issue and revoke credentials over-the-air individually or in batches, saving them time and effort in managing access control credentials.
- **Higher Security:** HID Mobile Access uses a cloud-based Trusted Service Manager, Seos credential technology, the Secure Identity Object data model and best practices in data integrity to bind each mobile ID to the device and protect the data at rest and in motion. Beyond technical security protections, overall facility security is elevated by the simple notion that users generally guard their mobile phones more closely than their access cards.

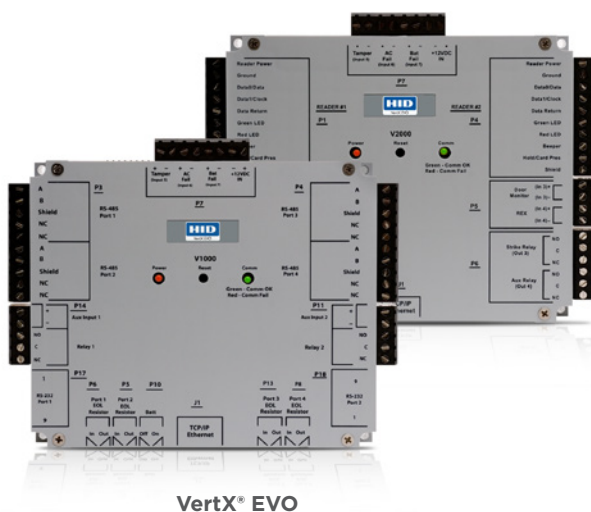
HID Mobile Access apps are easily downloaded on Google Play and Apple iTunes and have proven compatibility with dozens of the most popular mobile phones, tablets and wearables to support an access control ecosystem across continents. Designed for flexibility, the mobile apps and readers support Bluetooth Smart and/or NFC communication standards.

The HID Mobile Access solution provides an optional portal API and mobile app SDK’s that enable integration and customization to meet the unique needs of any organization.

*“This solution really represents technology at its best, and the next step in security and convenience for access control.”*

**Adrian Noriega**  
Field Project Manager,  
RFI Enterprises, Inc.





## VertX EVO and EDGE EVO Controllers

### Traditional networked access or intelligence at the door

HID Global's Networked Access Solutions provide an open architecture, IP-based platform for deploying a broad range of access control solutions and functionality, including real-time monitoring, fully functional off-line operation and IP remote management.

Whether you need to control two doors or thousands, HID Global's VertX EVO® and EDGE EVO® provide open architecture for easy expansion and customization. Unlike proprietary access solutions, VertX EVO and EDGE EVO feature the OPIN™ Development Platform, which provides access to HID Global's hardware and embedded software to dozens of OEM developers. The embedded software drives the access control functionality on controllers and is interfaced to using the OPIN API. Together, the solution produces the industry's most extensive open architecture access control solution.

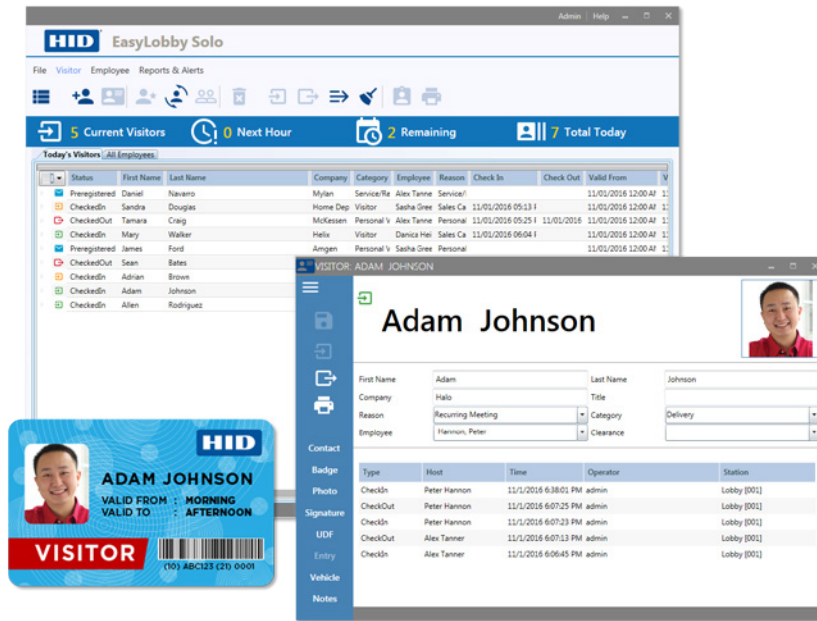
Choose from the application that best suits your needs:

- **VertX EVO** is a traditional topology multi-door controller with downstream interface modules that is best suited for organizations wishing to leverage existing, traditional access control infrastructure. VertX EVO features multi-door access control panels that reduce burden on corporate networks.
- **EDGE EVO** is the perfect solution for organizations that have an IT infrastructure to support all doors as end point connections. EDGE EVO reduces initial installation and total ownership costs by leveraging standard IT infrastructure, such as network cable and Power-over-Ethernet.

No matter your choice, both VertX EVO and EDGE EVO feature open source code that can be adjusted and customized. HID Global is proud to offer broad OEM partner support to help create the best solution for any organization.







# EasyLobby Visitor Management

## The secure, professional approach to identify and manage visitors within your organization

Whether you are currently using a paper guest book for visitor sign-in, have lobby attendants to greet and check-in visitors or have an unattended lobby, HID Global's EasyLobby® visitor management solutions can support a streamlined single lobby or fully featured solution for multi-site organizations.

Our portfolio of visitor management solutions are designed to scale with your needs and easily integrate with key components of your physical access control system. Our portfolio includes EasyLobby Solo, an intuitive and cost-effective solution that replaces traditional guest books, and EasyLobby SVM, a comprehensive enterprise solution for visitor registration, tracking, reporting, badge printing and management of assets.

Choose the EasyLobby visitor management solution that best suits your needs:

- **EasyLobby Solo:** EasyLobby Solo is designed for smaller organizations looking to transition from paper and pen guest books. The solution is simple to install, easy to use and provides key tools needed to automate the visitor registration process. EasyLobby Solo also allows organizations to provide self-registration via tablet, print customized visitor badges, scan a business card or government ID to capture detailed visitor information and pull reports and visitor data for auditing purposes.
- **EasyLobby SVM:** EasyLobby SVM is designed for larger organizations with more complex visitor management needs. This solution includes all features of EasyLobby Solo, with additional capabilities for multiple workstations to share a common visitor database, web-based visitor pre-registration by authorized employees, the ability to screen incoming visitors against a third-party felony database, integration to over 50 industry-leading access control solutions and more robust customization capabilities.

With EasyLobby, your organization will establish a more secure, more professional and more compliant approach to visitor management.



For more details and a free trial of EasyLobby Solo or SVM, please visit [hidglobal.com/visitor-management](http://hidglobal.com/visitor-management).



# SAFE Physical Identity and Access Manager (PIAM)

## **Simplify control of all physical identities across the organization**

Traditional ways of managing physical access directly within physical access control systems (PACS) present considerable challenges. These challenges may vary from an organization with multiple, disparate PACS systems, to a lack of integration with logical security systems, creating significant manual efforts regarding the management of identities and their related physical access. The complication increases because the enforcement of security policies is also manual, making it an inconsistent and error-prone process.

Created by Quantum Secure, part of HID Global, SAFE Physical Identity and Access Manager (PIAM) is a Web-based solution which allows organizations to manage the lifecycle of identities as it relates to physical access. It integrates with other security infrastructure, including HR or logical security systems, to ensure synchronized and policy-based on-/off-boarding of identities and their physical access across multiple and disparate security systems.

SAFE Physical Identity and Access Manager provides a comprehensive range of functions to centrally manage all types of identities of interest to physical security, providing these key benefits:

- Reduce operating costs through automation of identity and access management processes
- Gain complete control by centrally managing all types of identities and their physical access across disparate security infrastructure
- Minimize risks associated with manual enforcement of policies related to access provisioning and de-provisioning
- Minimize delays in on-/off-boarding identities and their physical access in PACS

SAFE Physical Identity and Access Management infuses industry best-practice processes to streamline access request and approval processes, allowing you to create business policies/rules and workflows using graphical “drag and drop” functionality, without any programming knowledge.



**SAFE integrates with other security infrastructure, including HR or logical security systems, to ensure synchronized and policy-based on-/off-boarding of identities and their physical access across multiple and disparate security systems.**



# HID FARGO Card Printers and Encoders

## World's broadest portfolio of advanced generation ID card printers and encoders

HID Global's wide range of secure identity issuance solutions include everything from plug and play, entry level printers to the most sophisticated printing and encoding solutions, enabling the highest level of identity security. Our Direct-to-Card® (DTC®) and High Definition Printing® (HDP®) card printers can be used to create full-color loyalty and membership cards, visitor badges, secure ID cards, corporate IDs, government-issued credentials and more with the reliability you would expect from HID Global®.

### Direct-to-Card (DTC) printers are easy to use, reliable and affordable

Direct-to-Card printers provide cost efficient, edge-to-edge printing of graphics and text directly onto the surface of your cards for fast card issuance.

Adding HID Global's embedded encoders and lamination modules to your HID® FARGO® printers give you the ability to personalize, encode and laminate ID cards all with the same device in a single, time-saving pass.



C50 ID Card Printer



DTC1250e ID Card Printer/Encoder



DTC4250e ID Card Printer/Encoder



DTC4500e ID Card Printer/Encoder



DTC5500LMX Printer/Encoder/Laminator

## High Definition Printing (HDP) delivers the highest image quality layered on the highest functioning cards

Cards produced by High Definition Printing are inherently more durable and secure than other types of cards. They resist wear and tear by putting a durable layer of HDP film between the card image and the outside world.



HDP5000 ID Card Printer/Encoder



HDP5600 ID Card Printer/Encoder



HDPii Plus ID Card Printer/Encoder



HDP8500 Industrial & Govt. ID Printer/Encoder



HDP8500LE Industrial Card Laser Engraver





# HID Global's Card Personalization Services

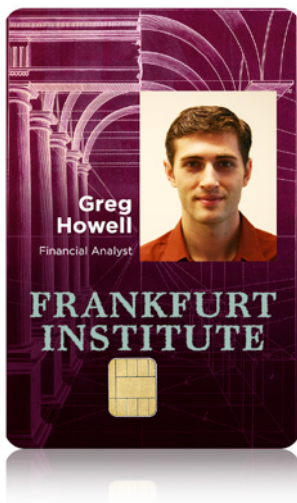
## Custom card printing services for identity badge projects

HID Global® offers highly secure badge production, including convenient, cloud-managed services. Our team of experts will handle any personalization elements for badge printing, including options for pre-personalized or fully personalized delivery. Whether you are printing badges for the first time or undertaking a larger re-badging project, we have the speed and know-how to provide your organization with highly secure and professional badges.

HID Global Card Services include:

- **Online portal:** Confirm formatting, track project status or place re-orders with a few clicks.
- **Design consulting:** Provide effective and attractive credentials that are resistant to counterfeiting and reinforce your organization's brand.
- **Secure, fast worldwide delivery:** Enjoy secure production and quick delivery anywhere around the world, including large-scale rebadging projects.
- **Customized fulfillment:** Smart card credentials are delivered, sorted and grouped for easy distribution.

An ID card requires more than a name, photo and design to be secure. It also requires visual security elements to protect against tampering and forgery. This is why HID Global offers options for security protections, including: holograms (embedded and surface); micro-fine text; Optically Variable Inks (OVI) (sub-surface); Guilloche images; holographic overlaminates; secure overlaminates; anti-scan and anti-copy technologies; and ultra-violet and infrared fluorescing inks.





# Credential Personalization Solutions from HID Global

## Convenient, efficient personalization solutions for contactless credentials

HID Global® offers highly-versatile personalization solutions that allow organizations to conveniently print personalized contactless cards in the field while enabling an easy migration path from one card technology to another. From an advanced encoder platform to card personalization software, we provide everything you need to design a card template for stand-alone encoding or in-line personalization.

### HID® CP1000 iCLASS SE® Encoder

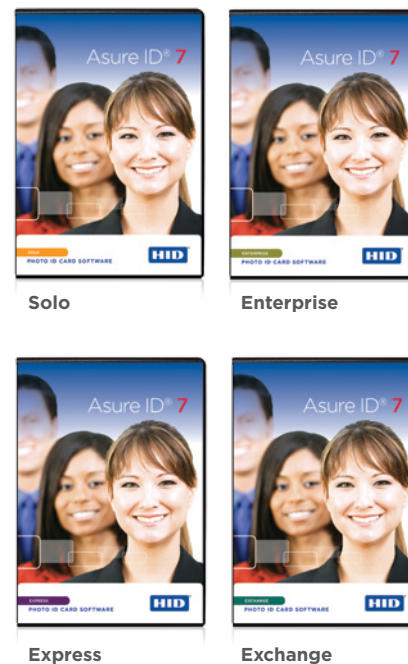
Our core credential programming platform, the CP1000 iCLASS SE® Encoder, is a dynamic solution that supports a wide range of credential technologies that are interoperable with iCLASS SE readers from a single encoder. These technologies include iCLASS® Seos®, iCLASS SE®, iCLASS®, HID® Prox, MIFARE Classic and MIFARE DESFire® EV1.

The iCLASS SE Encoder solution is available as a desktop device as the CP1000 or as an in-line encoder within an HID FARGO card printer. The in-line encoder enables organizations to graphically and electronically personalize smart cards in one seamless process, saving time so issuers can focus on other tasks, increase card throughput and effectively reduce errors that commonly occur during the synchronization process.

### Asure ID Card Personalization Software

HID Global's Asure ID® card personalization software is a fresh approach to effectively produce personalized IDs. The software provides everything needed to design and populate a card in a crisp, clean environment that allows users to glide from data entry to card design to printing and reporting. Asure ID comes in four editions in increasing levels of sophistication, so whether your organization is making simple photo IDs or issuing highly secure contactless smart card credentials, Asure ID has a solution right for you.

See for yourself by downloading a free 30 day trial at: [hidglobal.com/asureid](http://hidglobal.com/asureid)





## Network Security

### Strong authentication to protect against information fraud

HID Global's Identity Assurance's ActivID® product portfolio offers network security solutions for strong authentication across industries. These solutions provide organizations the resources they need to establish identities and manage user access, while simplifying the lives of users.

The ActivID portfolio offers:

- **Identity Assurance:** The ActivID portfolio offers proven technology relied on by thousands of companies for creating, managing and using secure identities.
- **Credential Management:** Managing and scaling credentials, up or down, is simple with ActivID. When a card is lost or stolen, it can be quickly disabled in real-time, immediately eliminating potential risks.
- **Strong Authentication:** With multi-factor authentication, organizations can better give the right person the right level of access. Credentials can be delivered to multiple types of devices, using the delivery mechanism that is most convenient and secure for users.
- **Converged Access:** Organizations can employ a single credential that can be used to authenticate identities for secure access to the network, applications and buildings to simplify processes and reduce paperwork.

With ActivID, your organization is better enabled to combat malware attacks and reduce fraud-related losses with layered authentication, all while strengthening compliance with government and industry regulations that go beyond simple passwords and singular authentication controls. Furthermore, operational efficiencies are improved across business lines by controlling IT and Help Desk-related costs.



With ActivID, your organization is better enabled to combat malware attacks and reduce fraud-related losses with layered authentication, all while strengthening compliance with government and industry regulations that go beyond simple passwords and singular authentication controls.





# pivCLASS

## FIPS 201 compliance without needing to “rip and replace”

HID Global’s pivCLASS® authentication solutions meet access control standards for U.S. Federal Government agencies and contractors. The portfolio is comprised of pivCLASS software, the pivCLASS Authentication Module (PAM) and an array of pivCLASS readers. This allows agencies to quickly and easily acquire all of the necessary components to achieve FICAM and FIPS 201 compliance.

### pivCLASS Software

pivCLASS software is comprised of three primary modules that enable physical access control systems to use FIPS 201 PKI-based smart cards.

- pivCLASS Registration Engine: Reads, validates, authenticates and automatically registers valid credentials into the physical access control database without any manual data entry
- pivCLASS Certificate Manager: Periodically revalidates the status of the digital certificates and updates the physical access control database
- pivCLASS Reader Services: Configures and manages pivCLASS readers via the PAM

### pivCLASS Authentication Module (PAM)

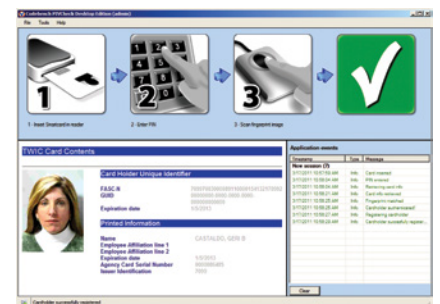
The pivCLASS Authentication Module (PAM) is an embedded computer packaged in a small form factor with pre-installed, updatable firmware. The PAM is installed between a supporting reader (such as a pivCLASS reader) and the access control panel to provide standard Wiegand interface to the controller.

Readers pass card information to the PAM, which performs the required authentication to validate the cardholder credential. If validated, the badge ID is then passed to the existing access control panel for the access authorization decision. Since the PAM regularly receives and caches cardholder credential status from the pivCLASS Certificate Manager, the result is nearly real-time PKI-based high security at the door.

### pivCLASS Readers

The pivCLASS Government Solution suite includes a broad selection of readers for agencies to meet any security level and the NIST SP 800-116 guidelines. pivCLASS readers work with the PAM to meet requirements for any assurance level, any authentication mode and any FIPS 201 standard card type.

Additionally, pivCLASS readers provide fully functional backward compatibility with iCLASS® and HID® Prox readers, easing the transition from legacy cards to PKI-based credentials.



Our pivCLASS® line includes everything needed to achieve FICAM and FIPS 201 compliance. Providing the ability to install all at once or over time, HID Global provides the expertise expected from the industry leader.

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2017-02-14-hid-prdct-pos-guide-br-en PLT-03228

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