Higher Education Solutions

Secure, Multi-application Student IDs
and HID® FARGO® Card Printers / Encoders

HID®

Making campus life more secure and convenient for students, faculty and staff.

HID Global Higher Education Solutions – Where security meets flexibility.
Today's colleges and universities demand secure and flexible solutions not only for safeguarding people, assets and data - but for connecting students to a myriad of services and applications campus wide - from physical facility and logical network access – to cashless payment and tracking time and attendance. For more than two decades, colleges and universities around the world have depended on HID Global to protect their campuses and streamline accessibility to student-essential services.

HID Global offers complete, end-to-end access control solutions that encompass cards, readers, card personalization software and card printers/encoders that all work together to provide Higher Education institutions with the secure and multi-function credentials they need while providing a cost-effective and strategic upgrade path from the legacy infrastructures already in place.

Whether you are implementing new access technologies, transitioning from magnetic stripe (magstripe) and simple prox cards to new contactless technology,

or integrating multiple applications or permissions onto a single, smart credential, HID Global has you covered.

Securing your campus beyond physical access.
Colleges and universities present unique security challenges. In essence, you are protecting a small city, large corporation, research center and creative think tank all in one. Security not only means controlling physical access to buildings and events, but also logical access to networks and sensitive information – and thwarting fraudulent card use.

HID's solutions for contactless smart card technology provide the high-level access safeguards you need for computers and networks - ensuring documents, data, and even student health and financial records are protected.

HID's iCLASS Seos® and iCLASS SE® contactless technology eliminates the fundamental security problem of magnetic stripe cards. It's relatively easy to copy and alter the information on a magstripe card but virtually impossible on an HID contactless smart card.

Some of the biggest security targets are not behind locked doors.
College and university computers and networks house and transmit highly sensitive information. That makes logical security just as important as physical security. HID smart cards featuring contactless iCLASS SE and iCLASS Seos technologies can provide secure access to entry points throughout your IT infrastructure, protecting student records, personnel files, medical charts, research data and more.

Essential Campus One Card Pre-Migration Checklist:

☑ **Begin by ensuring that all stakeholders are included in the process.**
IT, Card Services, Food Services, Safety Certification Compliance, Outside Vendors, etc. Include everyone that could potentially take advantage of this technology to help shape how the new card service will be activated and used. This is critical as the lack of stakeholder inclusion was reported as the number one obstacle to successful adoption.

☑ **Create a baseline evaluation of your current campus card solution.**

☑ **Complete a Security Assessment.**

☑ **Clearly define the goals of your campus card solution.**
Include precisely what you want your cards to do and the technology platform best suited for those uses.

☑ **Identify Card to Reader Ratio.**
This is important as you consider the technology implementation itself. The size of your student population and the number of card readers you have will help you determine whether you should implement a complete overhaul and reprint new cards for everyone at once or slowly migrate the student population over time. Evaluate your unique situation to reach the right solution.

☑ **Select Card Printers/Encoders, Card Security Features and Personalization Software.**

☑ **Leverage outside support to tie services together**.
Many universities have sought the support of an outside technology consultant to help tie these services together or have reached out to university peers who have worked through similar migrations.

HID also protects the security of ID cards themselves. Counterfeiting operations that sell fake student IDs are all too common. HID secure credentials include custom holograms and visual security elements that pose a formidable challenge to would-be counterfeiters.

Many functions, one secure credential.

Photo ID, residence hall key card, library card, cafeteria pass, bus pass – how many cards do your students juggle? And what's the expense of managing all of those single-function cards?

With contactless smart cards, you can combine of all of those functions onto one highly secure campus credential and streamline your operations. The underlying foundation of HID "one cards" is a unified technology platform for access control, campus services and financial transactions. In addition, HID's smart card technology platform is extensible as it is flexible – so it is able to serve the needs of your institution for years to come.

Your path to the future.

HID Global's iCLASS SE® platform that includes iCLASS SE® smart cards, iCLASS Seos®-capable smart cards and multiCLASS SE® readers enable colleges and universities to future-proof their access control infrastructures by supporting both current and emerging technologies.

While upgrading to new multi-function smart card technologies are full of exciting and cost-efficient potential, such a transition can seem like a daunting undertaking – especially when working within the confines of a constrained budget or limited IT resources. But fear not. HID Global has successfully ushered many colleges and universities through the smooth transition of their current access control systems and upgrade to multi-function smart card technologies. Because HID secure credentials, readers and printers/encoders can accommodate any number of varying technologies simultaneously supporting magstripe, proximity, smart chip, mobile devices and even wearables such as smart watches, you can transition from your legacy systems to new and emerging technologies at your own pace as budget and resources allow.

Technical expertise and implementation support.

Another critical factor is expert help. HID Global and our network of integrator partners have built thousands of access control and secure credential systems for education institutions worldwide. We know how to meet your needs with projects that finish on time and within budget. Due to the complexity of some migrations, you should leverage HID experts to help you determine the right migration path for you – should
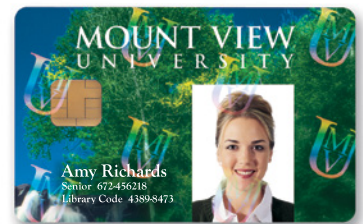
The best looking campus cards are also the most secure.

Whether you select HID's card production services or FARGO Card Printers/Encoders, you'll issue great looking campus cards that go a long way to promote school spirit. But the beauty is more than skin deep. HID credentials are highly secure. Custom holograms and visual security elements help deter counterfeiters. What's more, card's that are printed using HDP® (High Definition Printing®) technology are inherently tamper-evident; any attempt to peel apart the card layers destroys the printed image.

Solutions and service you can count on.
HID Global and our integrator partners have the innovative technology, expertise and available services to make your implementation smooth, successful, at the pace you choose – and within your budget. HID Professional Services™ are sold and delivered through the HID Advantage Partner™ Network, together with other HID product and solutions.

you migrate cards, readers, or both? If both, which should you migrate first? HID Global can help you determine the best approach.

HID Global also has support services to custom-design, encode and produce your secure IDs. Whether you need 3,000 or 30,000 - HID card personalization and pre-printing services can handle the job and take the pressure off of your campus card office at busy times of the year such as student registration. HID will work with you on card design and can leverage your current databases for encoding card data. You can also order pre-printed campus cards that exactly match your school's graphics and colors, and then personalize the cards with your on-campus card issuance system.

However you decide to approach your technology upgrade and credential production project, HID Global and our integrator partners have the innovative technology, expertise and available services to make your implementation smooth and successful.

Secure credentials, access control, card personalization and printing/encoding – all from one trusted partner.
One of the advantages of working with

HID Global is our ability to provide integrated, end-to-end solutions for secure identity and access control. HID Global cards, readers, card personalization software, printers and encoders are all designed to work together. And due to HID Global's open standards approach to design, our solutions can seamlessly integrate with technologies already in place or those you plan to implement.

Secure credentials.
HID Global offers a full range of personalized credentials and secure card technologies. Beyond iCLASS SE®, MIFARE DESFire EV1 and MIFARE Classic card technologies, HID offers iCLASS Seos®-enabled smart cards. A breakthrough credential technology, Seos® powers secure identity solutions and represents a new way of thinking about end-user experiences that can include or go beyond the card. As such, HID Global's innovative identity solutions also include HID Mobile Access powered by Seos® which supports NFC and/or Bluetooth – not only offering the freedom to use your device of choice – from smart cards to smartphones and wearables for secure access to more applications – but with the confidence that identities are secure and privacy protected.

125 kHz Prox	→
Mobile Devices*	→
Magstripe*	→

iCLASS   DESFire   MIFARE Classic

iCLASS Seos

iCLASS SE

SIO Enabled DESFire EV1

SIO Enabled MIFARE Classic

Making the transition from legacy systems easier and cost-efficient.

Implementing a multi-function campus card system based on contactless smart cards sounds great. But what about the hundreds of proximity and magstripe card readers already installed on your campus? HID multiCLASS SE card readers provide the answer. They read iCLASS SE smart cards, fobs and mobile devices - as well as your legacy cards. That means that you can upgrade to new card technologies as budgets and schedules permit, without disrupting your current access control system.

Additional hardware accessories available for support of mobile and magnetic stripe. Please also note that although magstripe combination multiCLASS SE card readers do have NFC capabilities, they do not support BLE.

This is accomplished via HID Global's layered approach to security. User identities are encapsulated within a Secure Identity Object (SIO) which is encrypted and signed, therefore providing an additional layer of trust and protection that is independent of the underlying card technology and can be loaded onto multiple card types - including iCLASS SE and MIFARE DESFire EV1 or EV2 - enabling credentials to be delivered on card technology from HID or even other suppliers. Seos® takes this a step further by adding a software layer on top of the underlying hardware chip that provides a secure vault for the storage and use of multiple secure identities or SIOs. This layered and chip-agnostic SIO can be layered onto a card or wearable and provides a unique set of capabilities and benefits - allowing you to choose the credentials that best serve your institution's needs – with the added security you demand for your organization.

Beyond smart card technology, visual security is a critical element of any credential because any identity system is only as secure as the cards themselves. If an ID card is easy to alter or counterfeit, it could give hackers and identity thieves the key they need to breach school facilities, networks and access sensitive data. HID Global credentials feature highly differentiated, counterfeit-resistant security media and embedded hologram technology. Features such as micro, nano or hidden text and 2D/3D background images produce credentials that are easy to verify yet extremely difficult for a counterfeiter to reproduce.

Access Control
HID Global offers card readers for both physical access to residence halls, buildings, labs and other facilities; and logical access to personal computers, networks and sensitive information.

HID card readers work with the most popular card technologies in use today. Our multi-technology readers simultaneously support legacy magstripe and proximity technologies, end user key standard solutions such as MIFARE DESFire, as well as modern and highly secure credentials such as HID's SIO (Secure Identity Object®)-enabled smart cards. SIO-enabled credentials increase security and performance with mutual authentication and encrypted data transfer featuring multiple security and securely separated application areas. Our multi-technology readers ensure that your upgrade from legacy infrastructures to the latest in physical access control technology can be implemented painlessly and at your own pace.
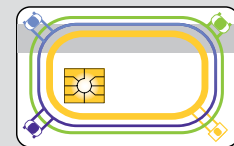
Multi-Technology Card
HID cards enable users to seamlessly manage multiple applications and migration projects through a single credential containing diverse technologies.

seos

Seos
Provides a highly secure, standards based system for the generation, delivery and revocation of digital keys to open doors and authenticate identity, while providing a single point of entry for the access control community and global interoperability of locks, readers and cards. The digital keys are typically stored on the user's NFC-enabled mobile device.

SIO Enabled (SE)
The Secure Identity Object™ (SIO) is a data model for storing and transporting identity information in a single object. SIOs consist of a number of independent but associated data objects for such items as physical access control (card numbers for example), finger print templates, and cash on card.

Contact Chip
HID® smart cards include a wide variety of contactless technologies, paired with an industry standard contact chip. HID Global can also embed a wide range of commercially available contact chips.

FARGO® HDP8500

FARGO® DTC4500e with lamination

FARGO® DTC5500LMX all-in-one printer with wasteless lamination

FARGO® HDP5600 with lamination and dual card input hopper

FARGO® HDP5000 with lamination

High volume performance.
Designed to meet the high volume needs of colleges and universities, FARGO printers are available with dual card hoppers and support for high-yield, full-color ribbon and laminate consumables – keeping costs at a minimum while maximizing productivity.

Print anywhere, anytime.
The optional Wi-Fi® accessory for Ethernet-enabled printers allows for convenient remote printing of student and staff IDs from any location anytime.

Card Personalization

Asure ID® card personalization software makes student ID card production easy and efficient. As part of the Asure ID family of card personalization software solutions, Asure ID Exchange's advanced and intuitive card design processes provide a dramatic boost in speed for designing card templates and entering cardholder data. Asure ID Exchange includes support for HID Global's iCLASS SE encoder platform, enabling your users to create, encode (read/write), and manage physical access control solution (PACS) credentials in a single step, streamlining ordering, inventory management and issuance processes. You can even print cards from a common database with real-time data exchange to Oracle®, MySQL®, Microsoft® SQL Server®, and Microsoft Active Directory/LDAP.

What's more, in combination with Asure ID Exchange, the iDIRECTOR module allows you to quickly and easily manage card memory, load multiple smart card applications, and graphically personalize smart cards such as iCLASS Seos in one seamless process. And because Asure ID Exchange is tightly integrated with more than 25 leading access control systems, it is exceptionally easy to register credentials directly from the software. With Asure ID

Exchange, you have everything you need to design and populate student and staff IDs efficiently and in high volumes as your needs dictate.
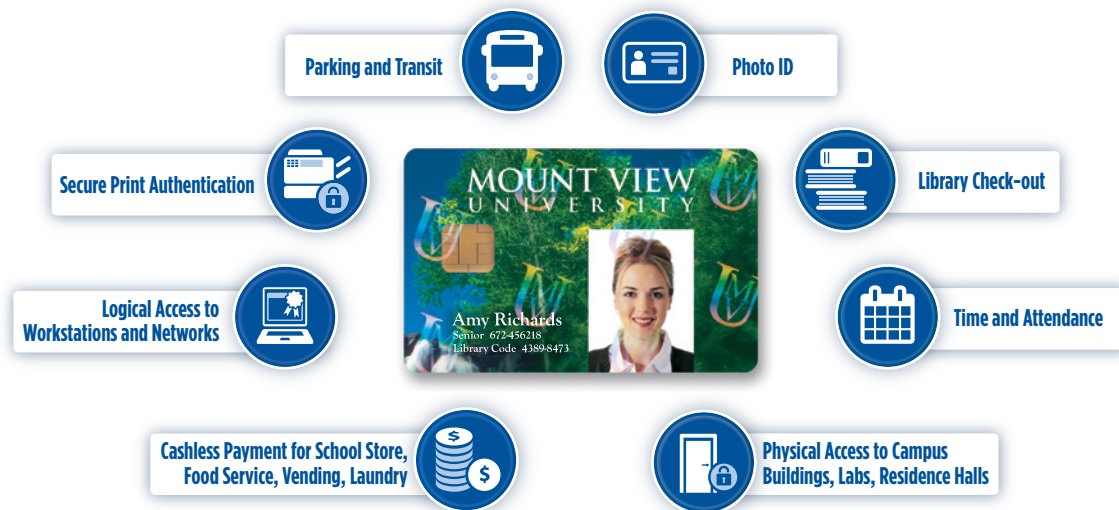
Printing/Encoding

HID Global is the customer demanded provider of solutions for the issuance of secure identity credentials. Offering the broadest portfolio of secure ID card printers and encoders, HID Global provides superior ease-of-use, image quality, reliability and security.

HID Global's next generation of FARGO HDP® (High Definition Printing®) and Direct-to-Card® (DTC®) printers/encoders give you the ability to produce a variety of personalized credentials on demand – and not just student and staff IDs – but also visitor badges, parking and transit passes, special event IDs and more.

From our energy efficient, GreenCircle® certified DTC4500e and DTC5500LMX printers to our outstanding continuous-tone, print quality focused HDP5000 and HDP5600 printers to our high duty performance HDP8500 industrial printer, you're sure to find just the right secure issuance solution to meet your unique needs.

MANY FUNCTIONS ⊕ ONE SECURE CREDENTIAL

Parking and Transit

Photo ID

Secure Print Authentication

Library Check-out

Logical Access to Workstations and Networks

Time and Attendance

MOUNT VIEW UNIVERSITY

Amy Richards
Senior 672-456218
Library Code 4389-8473

Cashless Payment for School Store, Food Service, Vending, Laundry

Physical Access to Campus Buildings, Labs, Residence Halls

HID Global's GreenCircle® certified FARGO DTC printers also support your institution's sustainability and "green" initiatives by conserving up to 66% more energy than other card printers on the market. Beyond energy consumption, the DTC5500LMX features single-core, wasteless lamination – not only considerably reducing laminate waste but cutting consumables costs by as much as 40% for high volume issuance. HID Global's FARGO HDP printers ensure that images and text are crisp and colors are vibrant – reflecting the value you place on your university brand and insignia. And because HDP film is fused to the surfaces of your proximity or smart cards, it naturally conforms to the ridges and indentations formed by the embedded electronics within - resulting in durable and sharp-looking credentials.

What's more, smart-card encoders are built-in to FARGO printers, enabling you to personalize, print, apply a holographic overlaminate and encode multiple card technologies for physical and/or logical access and financial transactions onto the card all in one time-saving pass - producing highly secure, campus "one cards" in a single, seamless step.

HID Global: Making the Grade.
Schools of all sizes are already benefiting

from the high security, efficiency and cost savings of HID Global's Higher Education solutions featuring secure and durable campus "one cards". A recent example features the commonwealth of Virginia's largest public university, George Mason University. George Mason University has a population of more than 30,000 students with nearly 5,000 faculty members and 2,000 contractors on campus. By working with HID Global, George Mason was able to design a cost-effective and comprehensive end-to-end solution that demanded a single ID card that can pay for meals, check out books in the library, check in and out of the gym, pay for parking, access facilities and more. Due to the flexibility of HID Higher Education solutions, the university was able to roll out their program incrementally as their budget permitted while still supporting their legacy infrastructure and technology.

Invest with confidence.
With a long history of innovation and more than 20 years of experience, HID Global is your trusted partner for delivering best-in-class solutions to colleges and universities worldwide. The security and efficient operation of your educational institution is critical. Find out how HID Global can help you achieve both. Visit us today at hidglobal.com/education.

Throughout your institution, campus One Cards based on HID contactless smart card technology perform multiple functions such as:
- *Photo identification*
- *Physical Access to classrooms, labs, offices, residence halls and recreational facilities*
- *Cashless transactions for school store, food service, vending machines and laundry*
- *Logical access to workstations, networks and information*
- *Time and attendance*
- *Library checkout*
- *Secure Print Authentication*
- *Parking and transit*

North America: +1 512 776 9000 • 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

2017-02-27-hid-education-solutions-brochure-en   PLT-03236

An ASSA ABLOY Group brand

ASSA ABLOY

Idesco Corp.
37 West 26th Street 10th Floor - New York, NY 10010
Toll-Free: 800-336-1383 - Fax: 212-889-7033
Email: info@idesco.com - **www.idesco.com**