



# Arizona State University

## Customer case study

- Flexible, future-proof integrate security
- Campuswide system functionality

### Technology/Products

- *iCLASS*® RK40 Keypad Readers
- *iCLASS*® R10 and R40 Readers
- *iCLASS*® Cards: 16-bit composite with a magnetic stripe
- Corporate 1000 End User Program.

## Future-Proof Multi-Function Card System Expands Campuswide Security for Arizona State University

Arizona State University is one of the premier metropolitan public research universities in the U.S. Enrolling more than 57,000 undergraduate, graduate, and professional students on three campuses in metropolitan Phoenix, including the historic main campus in Tempe, ASU maintains a tradition of academic excellence in core disciplines, and has become an important global center for innovative interdisciplinary teaching and research.

### Challenge

Since 1997, ASU's identification/access "Sun Card" system provided students with meal plan, debit, and door access. Heightened security concerns led ASU to re-examine the university's campus security requirements and identify a best-of-breed product that would provide state of the art access control technology. The previous Sun Card system was based on a magnetic stripe cards and readers, which were functional but offered limited flexibility to adapt to future technologies such as biometric identification. The ideal solution would be an advanced contactless smart card that could integrate a multitude of new identification technologies and applications as well as a magnetic stripe for use with existing readers on campus. The cards needed to be custom-printed and have a streamlined, sturdy design ensuring the durability of the single-issue card throughout multiple years of constant use during a student's time on campus.

### Solution

The university evaluated both proximity and contactless smart card systems for a centralized campuswide access control solution for doors, buildings, and departments that could be integrated with other smart card applications. Henry Bros. Electronics, a leading end-to-end security solutions integrator based in Phoenix, Arizona, was selected to implement the access control system and incorporated HID's *iCLASS*® 13.56 MHz read/write contactless technology for its sophisticated features that enhance traditional RFID



*"With their expertise and reliability, HID was our preferred integration partner..."*

- Mike Tiffin of Henry Bros. Electronics



*"...the **iCLASS** card's high-performance, contactless access control and identification technology capabilities provides ASU with a robust, reliable solution for today as well as giving this system the flexibility to address future security needs."*

*- Mike Tiffin of Henry Bros. Electronics*

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contactless technology including cryptographic data storage, mutual authentication, and secure reading and writing of data.

The new contactless HID card enables higher security than was previously available using the magstripe card, enabling ASU to use the system software to approve or deny access on any door at any time. Perimeter doors were brought online with HID **iCLASS** R10 and R40 **iCLASS** mullion mounted readers. To meet ADA requirements, an **iCLASS** reader is tied into a door operator and allows entry after a hardwired button is pressed and the valid card is presented. HID **iCLASS** mutual authentication technology insures that readers and cards are programmed to communicate prior to the reader sending any signal to the panel. This same authentication will occur any time the **iCLASS** card is used for IT security or other on-campus applications. In addition, the new **iCLASS**-based technology is more flexible, offering unique time zone and access level setups not previously available. For example, labs may schedule access levels so that students can gain entrance to labs only at their appointed times.

The ASU Sun Card, a 16-bit composite **iCLASS** contactless smart card with magnetic stripe is printed with the student's photo along with the ASU logo. HID's Corporate 1000 Program provides the university with a unique 35-bit card format developed specifically for ASU and furnishes over one million plus individual card numbers within the assigned format. The assigned numbers are tracked during the manufacturing process to ensure that card numbers are never duplicated. These Corporate 1000 cards offer the students a single, universal card to use throughout the university's campus. The university plans to issue over 40,000 student and staff cards over the next two years at a rate of 20,000 per year.

The versatile **iCLASS** card is able to grow with the university's access control system and add holograms, magstripe, biometrics, and digital certificates.

