Electronic Security Solutions for Educational Environments
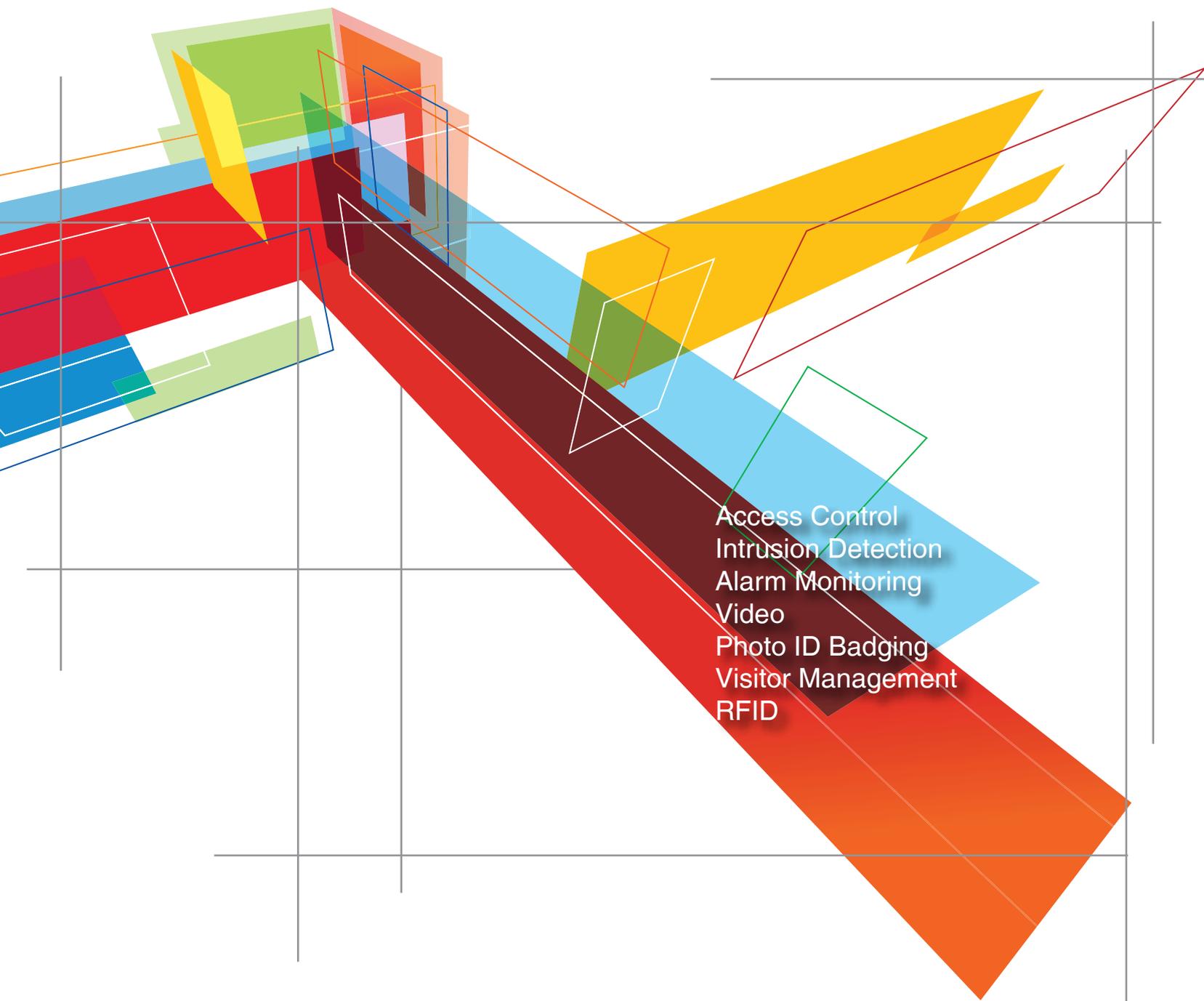
Access Control
Intrusion Detection
Alarm Monitoring
Video
Photo ID Badging
Visitor Management
RFID

COMPASS®

by

VUANCE
Validate Your World

The National School Safety Center (NSSC) places 'assessing access to your school' first on its list of recommendations. Each educational facility and its surrounding area are unique; a school in a suburban environment will have different concerns than urban or rural ones. A university that conducts potentially dangerous scientific research will have risks that others won't. Dr. Ronald Stephens, Executive Director, NSSC, cautions, "Cookie cutter plans, solutions and responses are ill-advised." Your first step should be to obtain a comprehensive audit or assessment from a qualified security consultant. If an integrated access control system is recommended, we ask that you consider Compass for the job.

Access Control At A Glance

Electronic access control involves managing access to and from a facility. Access management pertains to locking/unlocking doors, opening/closing gates and tracking individuals who are entering or leaving a building, parking lot or room. Monitoring pertains to supervising anything defined as an alarm point such as door contacts, motion or glass break sensors.

Access control systems can include cards, readers, controllers, intrusion detection devices, closed circuit television (CCTV), digital video recorders (DVR), and integrate with a variety of life safety, operational and business systems. Systems also range from small single door to large networked systems for multiple buildings, parking lots, etc. While each system will vary depending on an end user's requirements, the following are common components.

Credentials: Badges, key fobs, cards or tags that identify individuals, vehicles or assets. Different technologies include SmartCard, Proximity, Wiegand, Magnetic Stripe, and Bar Code. Badges can have pictures of the cardholder for further identification.

Readers: Devices that read credentials and send information to a Controller. Readers are available for all of the credential technologies listed above as well as biometric and readers with keypads that require credentials and a PIN.

Door Hardware: Electric strike, magnetic locks and panic or push bars operated by a Controller.

Inputs/Outputs: Inputs are sensing devices used to monitor electronic contact connected to a Controller. Inputs can include door sensors, exit requests, and devices that monitor motion, heat, humidity, etc. Outputs control door hardware and activate alarms such as bells, horns or lights. Outputs can also be used to turn on/off lighting, heating and cooling for energy conservation.

Controllers: Microprocessors that lock/unlock open/close doors and gates based on information received from readers. Compass controllers are called Intelligent Modules.

Host Computer & Software: The host computer or server contains the central database of cardholders, permissions, and the system software needed for set up and operation. Software typically provides badging, scheduling, monitoring and reporting.

A Solid Track Record, A Solid Platform

WHY COMPASS 6E IS LEADING EDUCATIONAL SECURITY

Compass' roots go back twenty-five years.

Originally a systems integrator that designed and installed its own software and hardware, the company model was changed and new products were brought to market through a network of highly qualified systems integrators and installing dealers. In September of 2008, Compass became VUANCE.

Compass systems are at work in federal, state and municipal government; hospitals, corporate and industrial facilities; K-12 schools, colleges and universities including:

Bryn Mawr College

Central Michigan University

Clinton Public Schools

Columbia Brazoria Jr. High School

Davenport University

Harlan Elementary School

Johnstown High School

Kansas State University

Laroche College

Littleton Colorado School District

Manhattan Community College

NYU Medical Center

Rutgers University

Saddleback College

Salisbury University

St. Sebastian School

St. Elizabeth's College

Texas A&M University

University Of Louisiana At Monroe

Upper St. Clair School District

Walnut Hill School

Winfield School District

The access control software you choose determines whether you'll have an integrated system that works together smoothly and seamlessly or not.
It determines how many options you'll have with regards to peripherals such as readers, credentials, cameras, printers, facility and business applications. The design of the software can also have an impact on its useful life.

Compass 6e controls and integrates multiple disciplines of electronic security, operational and environmental systems including Access Control, Intrusion Detection, Alarm Monitoring, Photo ID Badging, Video, Visitor Management and HVAC/Lighting controls. It supports multiple card and reader technologies including Wiegand, proximity, biometric, Smart/One Card, DesFire, magnetic stripe, bar code and long-range RFID. It is compatible with virtually all of the leading manufacturers cameras and DVRs. 6e's open architecture gives you the power to choose the products you want from the manufacturers you trust.

Our engineering team worked closely with many facilities including Rutgers University and the Littleton Colorado Public School district throughout the entire 6e development process. **Having end users involved in this way ensures that we build solutions for real world problems.** Officially released in September of 2005, 6e was built using the latest technology and tools, so it could out perform and out live other systems. The 6e platform is the most reliable, powerful, flexible and multi-functional system available for the educational market.

Compass 6e's modular single or multi-server architecture accommodates virtually any size facility. **Compass 6e can be used in a single building or as a single system that ties multiple properties together.** Each school in a district or building on campus can have its own workstation or "client" for administration while personnel in a central location can monitor the entire network and protect higher-level system functions.

Some budgets will not allow for an entire upgrade or new system at once. 6e can be installed in phases and is **designed to expand as your needs require** without having to replace recently purchased hardware.

Technology costs have declined as the proliferation of computing networks has risen. Approximately sixty percent of the security technology budget used to be spent on pipe, wire, fiber optic cables and labor to install cables. Compass 6e is **engineered to plug directly into and be fully compatible with existing TCP/IP networks.**

Compass 6e is **considered the easiest system to learn and operate.** Its information architecture and graphical user interface are designed to help operators accomplish their tasks quickly and easily. A wide variety of personnel are now able to securely access the system without advanced knowledge or training. **Operators from security to human resources, student housing to administration, give Compass 6e high marks on usability.**

Prevent Unauthorized Access

COMPASS 6e ACCESS CONTROL AND PHOTO ID BADGING INCREASES SECURITY AND

An electronic access control system often pays for itself by eliminating key/lock management, reducing insurance premiums and out-of-pocket costs incurred from vandalism, thefts and other crimes.

Compass 6e Access Control Features

- Even if a system is complex, it doesn't mean that operating it must be hard. 6e is designed with every operator in mind so tasks can be accomplished quickly and easily.
- Information can be automatically imported into the Access Control Database from an existing database. This feature saves time and ensures accuracy.
- Cardholder enrollment is simplified through the use of information defaults and templates.
- When integrated with Smart/One Card systems, cards can be used for physical access, logical access, library, debit, financial aid and event transactions.
- As many as 255 Custom User Information Tabs with up to 12 fields each can be added to a single record. This can be useful for adding information such as emergency contacts, allergies, persons authorized to pick up a student, etc.
- Each access level assigned can be set to become valid or expire at a specific date and time. This is convenient when granting access to special events.
- First Card In feature prevents facilities from being unprotected on days when there is an emergency closing due to events such as severe weather.
- Cardholder permissions can be revoked immediately if a card is reported lost or stolen, a student receives disciplinary action, an employee leaves or is terminated, or when there is a change in who is authorized to pick a child up. Cardholder data is updated instantly and globally.
- Vehicles are searchable by multiple criteria including license plate, color, year, make, type, etc. This helps locate owners quickly.
- Settings for persons who require additional time, space, or automated assistance to use an entrance are built in. This helps meet The Americans with Disabilities Act (ADA) requirements.
- System Access Control identifies operators and restricts access to selected functions and data. For example, a person responsible for photo IDs may have access to the Badge Manager and parts of the cardholder record, but may not be permitted to lock/unlock doors or make other system changes.
- Extensive encryption options are available and include Triple DES, AES 128, AES 192, AES 256 and RC2. This provides an additional layer of protection for data communications and information security.
- Elevator Control allows you to restrict access to particular floors of a building
- Operator Audit Logs and Reports provide detailed information on everything.
- Holiday scheduling is simplified with start and end dates.
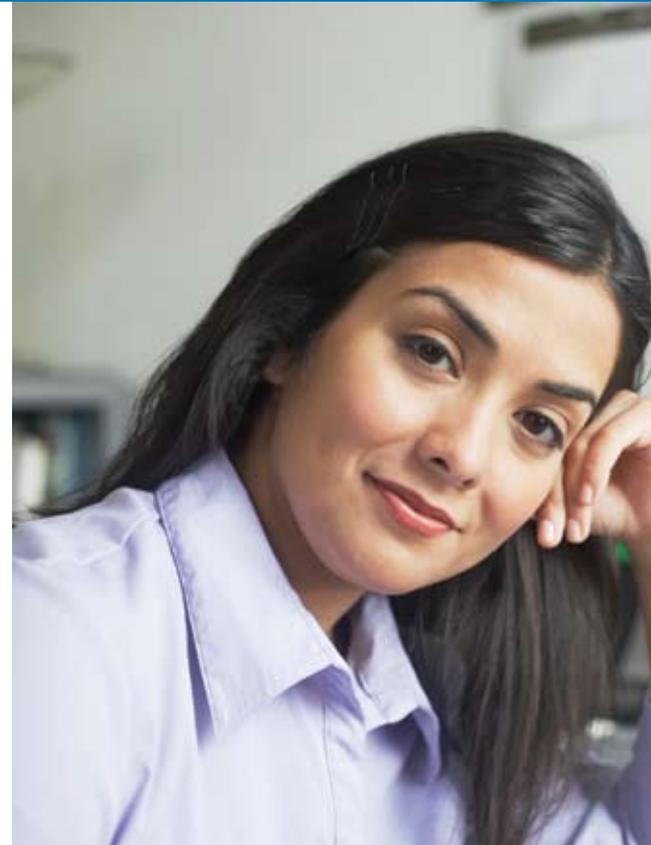
Compass 6e is compatible with virtually all reader and card types and technologies. Pictured above: Readers, fobs and cards from Xceed ID. Below: Fingerprint reader with keypad from Bioscrypt.

- The exact location of an alarm can be pinpointed immediately helping security and or law enforcement respond rapidly.
- Programmable keypad commands allow designated personnel to securely arm/disarm intrusion detection devices and lock/unlock certain areas.
- Dynamic real-time system status including communications, alarm activity and access transactions are visible from every screen.
- Alarm notification can be sent via email and cell text messaging to personnel in the field.
- Context sensitive help screens provide easy to understand directions on just about everything.

In Case of Emergency

In the event of an emergency all doors can be quickly locked down at once to protect the perimeter while exit devices still allow for safe egress. This feature was recently used when a dangerous criminal was at large in a community near a middle school. In contrast, police may access any door in the event of an intruder or other security situation. In case of fire, chemical hazard, bomb threat or other conditions requiring evacuation, mustering reports and long range RFID can be used to determine who is left inside. Graphical maps help operators, law enforcement and emergency personnel quickly locate the source of an alarm.

If a Picture is Worth a Thousand Words, a Photo ID Must be Priceless

When administrators, faculty, support staff, students, vendors and visitors are all required to wear badges it's easy to spot the person who doesn't belong. Compass 6e's integrated photo ID badging module makes designing and printing custom badges a breeze.

A Single Card with Multi-Purpose

Growing numbers of high schools and colleges are looking to Smart/One Cards to improve security and provide convenience and efficiency. Smart/One Cards can be used for access control; equipment and library checkout; debit functions such as vending, cafeteria, bookstore and ticket purchases, as well as ordering yearbooks. Compass can provide a single card solution through its strategic partner NuVision Networks.

Crime Prevention Pays

COMPASS 6e INTRUSION DETECTION, VIDEO AND ALARM MONITORING DETERS CRIME

A school district in Alabama saw vandalism costs drop from $1.2 million to $2,000 a year and saved $700,000 in insurance premiums in the first two years after CCTV was installed. A High School in Chicago that experienced 100 fights per year watched that number fall to 3-4 after cameras and other security measures were put in place.

With Compass 6e, intrusion detection, cameras and video recording are fully integrated. All alarm inputs can be programmed in a way that enables the system to be used for both access control and alarm monitoring. Common intrusion devices include motion, glass break and shock sensors, and are monitored right along with all of the other input devices.

Cameras can be used to deter break-ins, monitor vulnerable areas and or student behavior. Cameras can be used near entrances, in hallways, cafeterias, common areas, computer labs, equipment storage, gyms and parking lots. They can be activated by sensors or called up by an operator. Video can be an invaluable resource for investigations and incontrovertible evidence for prosecutions.

6e's unique alarm monitoring screen organizes all of the information an operator needs in one screen. An operator can view graphical maps or photos of the area; read pre-defined instructions and responses; bring a live camera up to view the current condition, and review recorded video clips. This capability saves precious time and eliminates guesswork.

Compass 6e integrates with many cameras and DVR / NVR equipment. Pictured above: Exterior and interior CCTV cameras and a DVR from Panasonic.

Reports

6e generates a wide variety of reports for use in investigations (who went where, when), emergency response (who's left inside), and system optimization (removing old records). 6e features an extensive set of often-used reports such as Alarm Summary, Badge Aging, Cardholder Activity, Organization, Database Audit and Department Access. Custom reports can also be created. Any report can be viewed on screen, saved to a file or printed.

Visitor Management

6e enables you to schedule, track and badge visitors such as parents, substitute teachers, vendors, volunteers and contractors. In networked settings where a common database is shared, privileges can be issued or revoked locally and made immediately available district- or campus-wide. Persons authorized to pick up a child can be enrolled and photo IDs checked against the image in the cardholder record for ultimate verification. Buildings available for community use such as athletic facilities and meeting halls can be more easily administered and secured. Vendors such as those in food service can be given access to receiving areas and cafeterias. In each of these examples, visitors can be enrolled, given photo or other IDs, and tracked using the same tools and methods described for all credentialed users.

Identify and Track Vehicles, Assets and People with Long-range Active RFID

RFID tags and readers provide an accurate, real-time and dynamic means to identify, detect, track and monitor vehicles, assets and people. In an educational setting, this low-cost yet highly effective solution can be used for vehicles, computers, expensive tools, equipment, office machines and other valuables. This technology can also be used to locate people during emergency evacuation and mustering.

Long range RFID tags and readers for tracking assets, people and vehicles.

K-12 Schools & Districts

COMPASS 6e INTEGRATED SECURITY SOLUTIONS

Every school and district is unique. This illustration depicts solutions for common vulnerabilities.
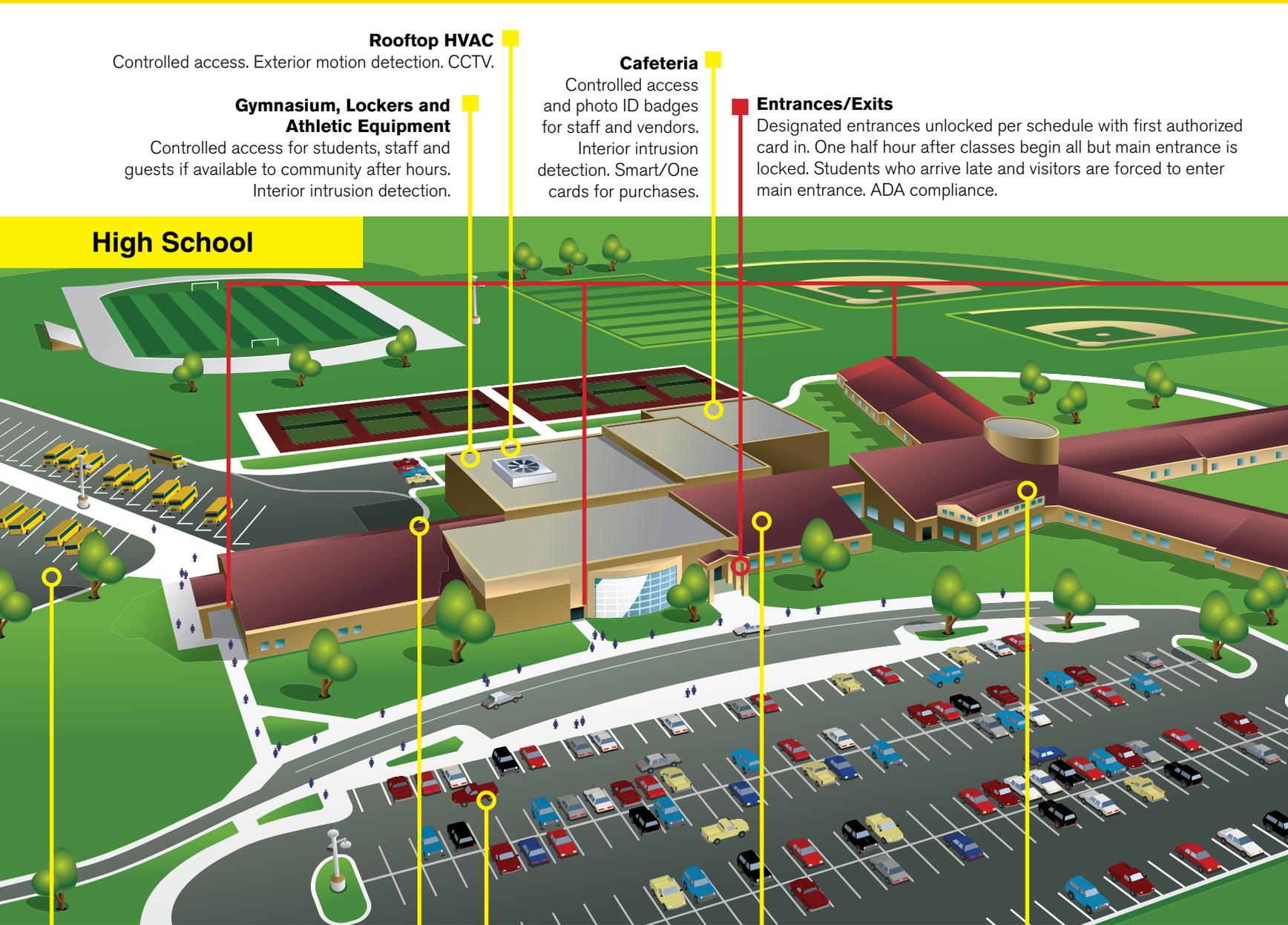
Rooftop HVAC
Controlled access. Exterior motion detection. CCTV.

Gymnasium, Lockers and Athletic Equipment
Controlled access for students, staff and guests if available to community after hours. Interior intrusion detection.

Cafeteria
Controlled access and photo ID badges for staff and vendors. Interior intrusion detection. Smart/One cards for purchases.

Entrances/Exits
Designated entrances unlocked per schedule with first authorized card in. One half hour after classes begin all but main entrance is locked. Students who arrive late and visitors are forced to enter main entrance. ADA compliance.

High School

Transportation
Gate controlled access using long-range active RFID. Photo ID badges for drivers. CCTV.

Maintenance and Receiving
Controlled access. Photo ID badges for staff and vendors. Track tools and equipment with long-range active RFID. CCTV.

Student and Staff Parking
Gate controlled access using long-range active RFID. CCTV.

Visitor Parking
Visible from Administrative offices. Signage directs visitors to main office for sign-in and badging. CCTV.

Administrative Offices
Controlled access. Visitor registration, photo ID badging and/or administrative workstation(s). Emergency command/monitoring center. Interior intrusion detection. CCTV.

Nurses Office
Controlled access and interior intrusion detection.

School Store
Controlled access. Interior intrusion detection. Smart/One Card for purchases.

Media Room A/V Equipment
Controlled access. Track assets with long-range active RFID. Interior intrusion detection. CCTV.

Library
Controlled access. Interior intrusion detection. Smart/One Card for lending.

Photo ID Badging is an essential component of a comprehensive security plan. When worn by students, faculty, administration, support staff, vendors and visitors, it makes it easy to identify unauthorized persons. When Smart/One Cards are used, a single card can provide identification, access, serve as a library card, a debit card, and much more.

Littleton Colorado Public School District
16,000 Students and 28 K-12 Schools

Muster Area
Designated area for occupants to gather during evacuation. Credentials and readers can be used to create reports on who might be left inside a building.
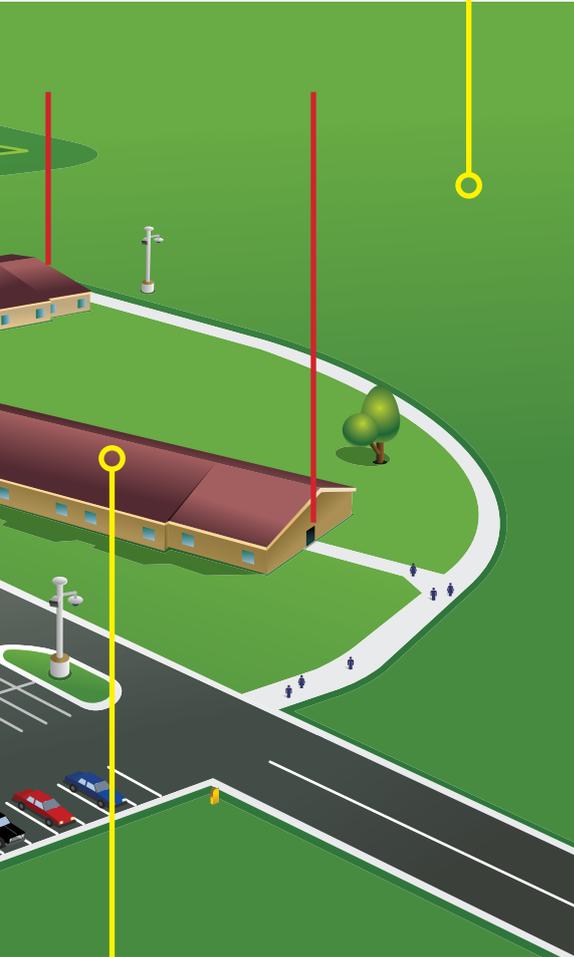
Guy Grace, Security & Emergency Preparedness Manager, Littleton Public School District

Each of the twenty-eight schools in the Littleton Public School (LPS) district use Compass 6e for access control, video, intrusion detection and alarm monitoring. Each school's system is fully integrated and the entire district is networked and monitored 24/7 by District Security Officers (DSO) at the Education Services Center (ESC).

The most visible security measures are photo ID cards, proximity card readers at designated entrances and CCTV cameras. Also in use, though not as visible, are numerous intrusion detection devices. Identification badges are required for all custodial, transportation, school staff and visitors. Student ID cards are required at most schools. Readers and cameras provide total accountability for access during and after school hours.

The system addresses key control and also helps with planning and preparing for emergencies. Schools can be locked down from workstations in the main office or from the ESC security office. This feature has been used on several occasions.

DSOs patrol schools and check the grounds. They have the ability to remote monitor the entire district from any location with proper wireless or hard Internet connections. Cameras have proven effective deterrents, and local law enforcement have even used the district's video to solve crimes in surrounding neighborhoods.

The system's tracking, reporting and monitoring capabilities enable LPS to know and see at any time what is happening in and around their schools.

"Almost every day we have something going on here. Last week we had a teen trying to sell firearms at an elementary school and another blow up a car," said Guy Grace. "I don't know how we could have responded to these incidents without our system. It helps us save lives."

Hallways
Controlled access. Interior intrusion detection. CCTV.

Classrooms
Controlled access. Interior intrusion detection. CCTV.

Computers
Track assets with long-range active RFID.

Supply Closets
Controlled access.

Colleges and Universities

COMPASS 6e INTEGRATED SECURITY SOLUTIONS

Every building and campus is unique. This illustration depicts solutions for common vulnerabilities.
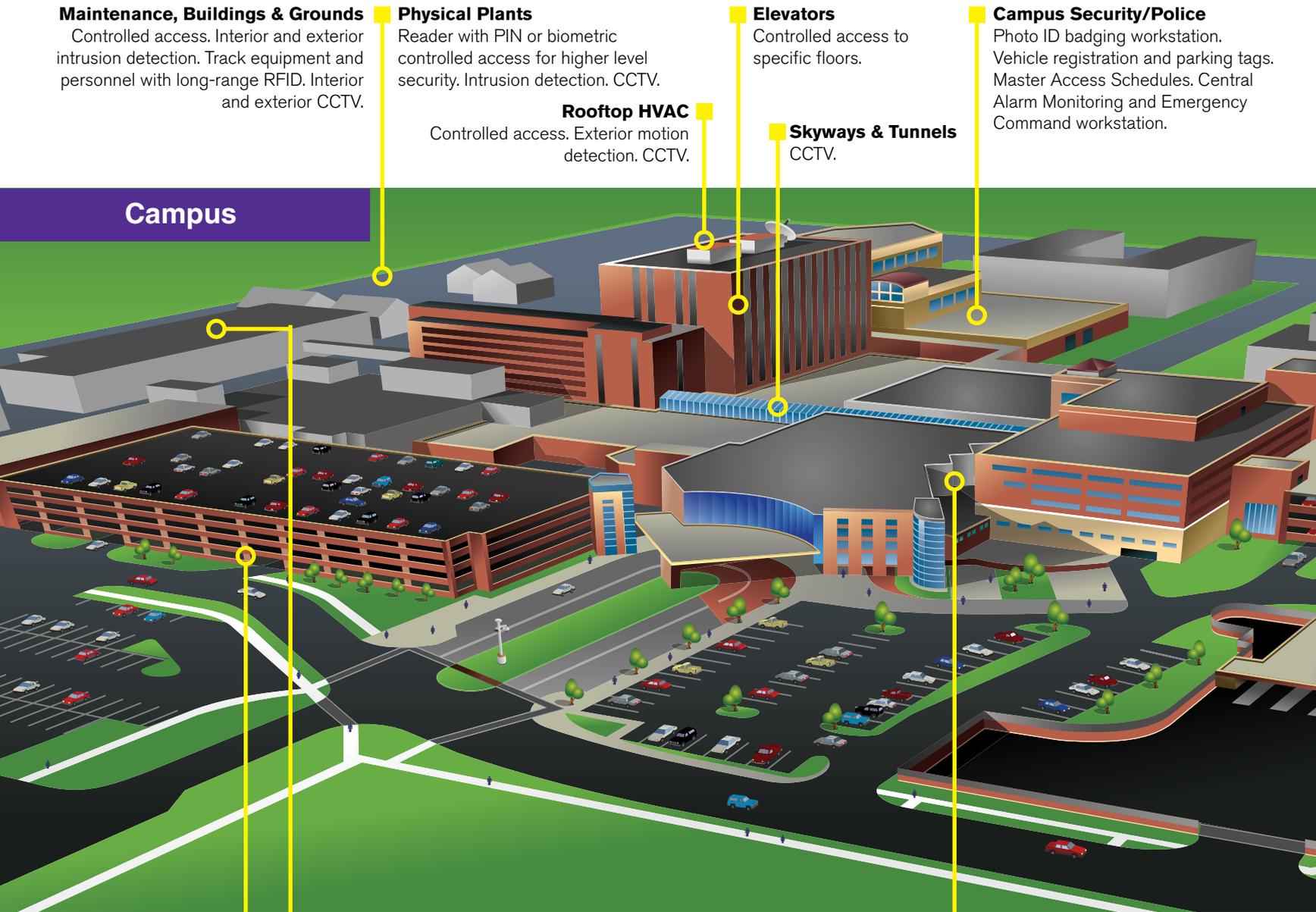
Maintenance, Buildings & Grounds
Controlled access. Interior and exterior intrusion detection. Track equipment and personnel with long-range RFID. Interior and exterior CCTV.

Physical Plants
Reader with PIN or biometric controlled access for higher level security. Intrusion detection. CCTV.

Rooftop HVAC
Controlled access. Exterior motion detection. CCTV.

Elevators
Controlled access to specific floors.

Skyways & Tunnels
CCTV.

Campus Security/Police
Photo ID badging workstation. Vehicle registration and parking tags. Master Access Schedules. Central Alarm Monitoring and Emergency Command workstation.

Campus

Parking Structures
Controlled access using vehicle tags, gates and long-range active RFID. CCTV. Panic alarms.

Student Housing
Controlled access. Intrusion detection. Visitor registration/badging. CCTV.

Classrooms & Faculty Offices
Controlled access. Interior intrusion detection.

Supply Closets
Controlled access.

Fitness Center
Controlled access. Interior intrusion detection. Track assets with long-range active RFID. CCTV.

Media Rooms
Controlled access. Intrusion detection. Track assets with long-range active RFID. CCTV.

Library
Controlled access. Interior intrusion detection. Smart/One Card for lending.

Book Store
Controlled access. Interior intrusion detection. CCTV. Smart/One Card for purchases.

Cafes & Cafeterias
Controlled access for staff and vendors. Smart/One Cards for purchases.

Administrative Offices
Controlled access. Interior intrusion detection. Photo ID badging (if not handled by campus security) and/or administrative workstation(s). Emergency Command/Monitoring workstation.

Student Center
Controlled access. Interior intrusion detection. CCTV. Smart/One Card for purchases.

Photo ID Badging is an essential component of a comprehensive security plan. When worn by students, faculty, administration, support staff, vendors and visitors, it makes it easy to identify unauthorized persons. When Smart/One Cards are used, a single card can provide identification, access, serve as a library card, a debit card, and much more.

Rutgers University
50,000 Students and 7 Campuses
Networked from Sussex County in the North to Cape May in the South

Performance Centers
Controlled access for staff. Interior intrusion detection. CCTV.

Stadium and Athletic Equipment
Controlled access for students and staff. Track assets with long-range active RFID. CCTV.
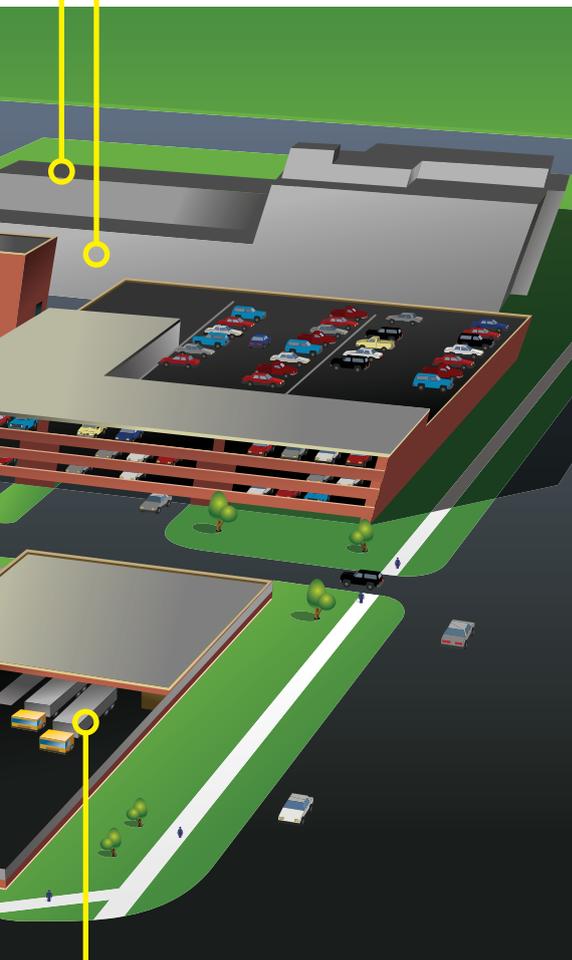
Shipping/Receiving
Controlled access to bay doors. Intrusion detection. Exterior and interior CCTV. Photo ID badges for staff and vendors. Track equipment, vehicles and personnel with long-range active RFID.
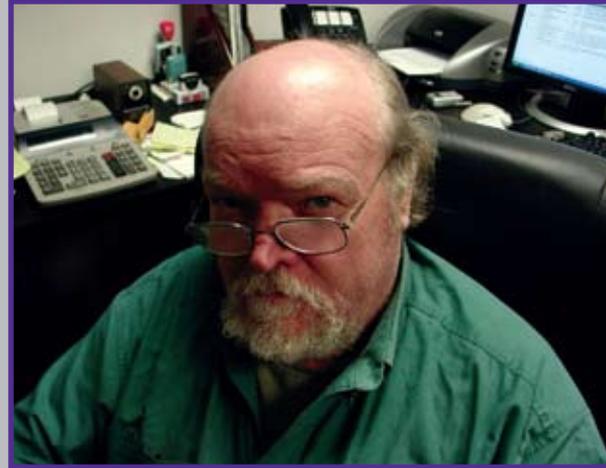
**Charles Mury, CPP, PSP,
Manager Security Systems, Rutgers University**

Rutgers University's tremendous growth drove the multi-year initiative to upgrade its access control system, enhance security and automate processes. With 853 buildings it wasn't feasible to upgrade the entire system at once so the security team approached the project in phases. Phase I began in 2002 with student housing and went on to seven major academic buildings in New Brunswick from there.

Compass was chosen after a long list of vendors was narrowed to five who then participated in an apples-to-apples test conducted over a six week period. The security team evaluated performance, usability and ease of use. According to Charles Mury, CPP, PSP, "Compass stood out from the start. The company was chosen not only for its advanced technology and system performance but also for its willingness to work with the Rutgers University security team."

This close working relationship greatly informed Compass' new product development effort and impacted the next generation products.

A feature that is particulalry valuable to Rutgers security is 6e's use of partitioning. A partitioned network enables the master administrator to set central controls while giving client administrators the ability to assign their own door schedules, monitor and produce reports. This approach protects the higher level structure while giving individual operators the power to do more on their own.

The Rutgers University Campus Connection Card is used for access control, serves as a debit card and library pass. A magnetic stripe and PIN are used for interconnection to the databank; the barcode is used by the library and the photo for identification. Dual technology cards – thin line prox with magnetic stripe – were recently added for an extra layer of security.

The university will continue to grow its security through the addition of CCTV, integration of DVR/NVR and Visitor Management.

Compass Business Partners

Compass products are sold through a select group of system integrators and dealers called Business Partners. Compass Business Partners are uniquely qualified to assess your facility and design solutions that ensure the safety and security of your people, property and business missions. Business Partners' installation and service technicians are factory-trained and undergo a rigorous certification process. This level of training reduces installation costs and problems encountered while commissioning a system.

Compass provides regular product training, application engineering and technical support to all of its Business Partners. End User training is provided by the Business Partner. Technical documentation is available on our web site, www.vuance.com.

To find a Compass Business Partner, call 1-888-4VUANCE (1-888-488-2623) or email info@vuance.com.

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