

2012 ACCESS CONTROL TRENDS & TECHNOLOGY

July

Supplement to *Locksmith Ledger International, Security Dealer & Integrator, Security Technology Executive*
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KEYLESS IS THE KEY

New locks
are central to security on
the Princeton campus

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- In-Depth on Smart Card Authentication
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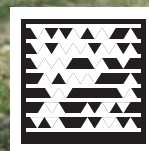
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KEYLESS IS THE KEY



New locks are central to dormitory security on the Princeton campus

When you think of Princeton University, your mind probably conjures a beautiful, old campus bustling with leaders in the world of academia and research. Certainly, you wouldn't think of a fortress — and that's just how Life Safety and Security Manager Paul Midura would have it.

"It's an open campus, so we don't have gates. People can walk on campus any time, unlike some urban campuses. At the same time, we realize that we have to put prudent security measures in place that could address an unsafe situation," Midura says. "If you ever saw the campus, it is a beautiful place, so we have a university architect that approves all technology aesthetically. That's important here — we put

security priorities first, with an artistic touch."

So how do you create a secure, access-controlled campus that doesn't feel like a fortress? You place aesthetically pleasing technology in an open and inviting way. This has been the key concept for a variety of security upgrades on the Princeton campus; and, as a bonus, it makes students' lives easier by eliminating a big brass key from their keychain.

Securing the Perimeter

Midura and the Life Safety and Security team have helped create a secure campus housing environment using a strategically



3,200 keyless locks from Salto Systems provide dual authentication, with PIN code and prox.

layered approach. It starts at the perimeter and filters down to the dorm room doors themselves. "The students are our most valuable asset, so certainly the security of the students is the most important thing here," Midura says. "That's why we have robust, state-of-the-art monitored access controls on all the perimeter doors of the dormitories. The second layer is keyless locks on the dorm room doors. The broadcast towers on campus are another supporting mechanism."

If students are the most valuable asset on campus, then their security starts where they live, in the campus dormitories. All perimeter doors are controlled by card access using HID iClass readers, which are monitored using the C-Cure security management system from Software House. All monitoring duties are performed by the university's Department of Public Safety, which includes the campus police and is headed by executive director Paul Ominsky. In the department's command center, staff constantly monitors the perimeter card access systems, the intrusion systems and the fire systems across the campus.

"All perimeter doors of most buildings on campus and certainly the dorms are kept locked all the time," Midura says. "We have about 1,000 card readers and about 2,000 monitoring points across campus.

"We have numerous buildings that have C-Cure on the perimeter," Midura continues. "There are some other buildings that we are still putting card access on as funding or need arises, but we have already identified all of our higher-risk buildings that we needed the ability to lock down and monitor."

The card readers — along with a surveillance system within high-security buildings using Axis cameras and the Nextiva video management system from Verint — were installed by Corporate Security Systems (CSS), a systems integrator.

Also on the perimeter of dorm buildings and throughout campus, new emergency communications and mass notification towers from Talk-a-Phone are being installed this summer. "[The towers] allow us the ability to call any individual building or individual tower and make any announcement, such as a severe weather alert, a gunman or any emergency on campus."

Paul Midura, left, is manager of Life Safety and Security Systems; Keith Tuccillo, middle, is System Administrator for the Life Safety and Security department; and Paul Ominsky, right, is executive director of the Department of Public Safety, which includes the campus police and an active monitoring center.



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Paul Midura and Keith Tuccillo of Princeton's Life Safety and Security Systems department helped select and deploy the keyless locking systems for the dorm buildings.

The One-Card Approach

Princeton has moved to a one-card system on campus, so students can use their "Tiger Card" — a smart card with a photo of the student — as a credential. "It's a one-card approach for everything — that card is their entrance to the perimeter using the HID card readers, it is how they get meals on their meal plan, it gives library access, and there is also memory on the card to operate individual room locks," Midura says.

The Tiger Cards have also been future-proofed for eventual expansion of its use. "We left enough memory to accommodate any extra changes down the line," Midura explains.

The result of moving to one card also spelled the end of the students' "big brass key," as Midura calls it. While completely eliminating keys on campus is not the goal of these security upgrades, it was still a pleasant side-effect for the students, who have one fewer item to carry, and of course, to lose. "I think the students value their ID more than they value a key," says Life Safety & Security Systems Administrator Keith Tuccillo. "The cost of losing a brass key — the lock change and all the associated costs that go with that — also goes away with the keys gone and the cards in play."

Inside the Dorms

So the students no longer need brass keys to gain access to the front door of the dormitory, but what about when they get to their room door inside the building? That's where a new complement of 3,200 keyless locks from Salto Systems come into play.

The locks were built on spec for Princeton over a 15-month process — which ended up driving a whole new product line for the supplier. "Princeton did their due diligence in the selection of a lock," says Salto senior vice president of commercial sales Mike Mahon. "I have never seen it so thorough."

Because of the one-card system, Midura and the security team insisted that Salto come up with a keyless lock that could not only read a card via proximity technology, but that also included a built-in keypad for dual validation. "Salto was able to make us a touchpad where the students have to enter a PIN and they have to use the prox card," Midura says. "That way, if a credential is dropped, nobody else can use it to get in the door, which was one of the most important considerations."

The massive project involves replacing every dorm room lock with 3,200 of the keyless keypad locks. It is being performed over the course of this summer by

Hogan Security, an affiliated Salto dealer and external locksmith for the university.

To preserve the privacy of the students, the locks will not communicate with the Software House system — ie., security and campus police will not monitor their comings and goings from individual dorm rooms. However, although they are offline, the locks can still be automatically locked down or unlocked according to a certain schedule or emergency situation. Additionally, the locks can wirelessly report back to the university settings such as battery status or deliver an audit trail of the lock's recent usage.

Inside the dorms and other buildings, Princeton has also recently overhauled its fire alarms with a new system from SimplexGrinnell that enables common area voice alerts and other mass notification capabilities coupled with the Talk-a-Phone emergency communications towers.

Princeton's Access Control Future

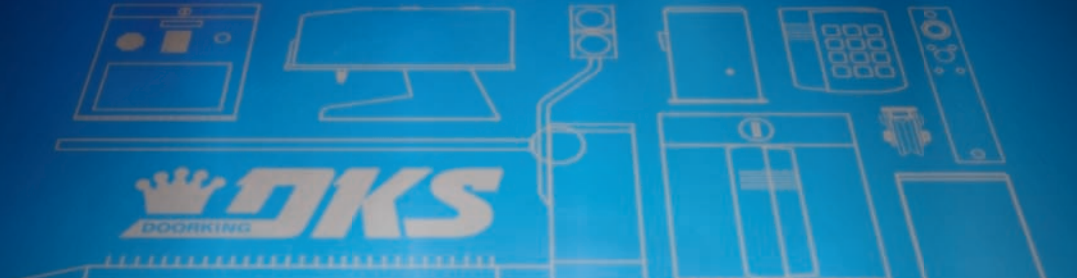
It will take a summer's worth of effort to deploy the keyless locks in all the Princeton dormitories, along with the emergency communications towers. However, earlier this year Princeton implemented a pilot project targeting 90-plus students' dorm room doors that got rave reviews.

"All the feedback that we received has been positive," Tuccillo says. "One of the biggest remarks is they are glad they don't have to carry their key around. I think the students appreciate that they don't have to spend the money for a lock change if they lose their key — it's only a matter of reprogramming the card."

Despite the fact that the locks have yet to be used by the majority of the student body, Midura can see a future where the locks can be found in on more doors. "The keyless locks can be implemented as a third layer of protection," Midura says. "A lot of the rooms in academic and administrative buildings where we used to have keys — such as a lab, or IT rooms and mechanical rooms — are going to move to these keyless locks." ■



Paul Rothman is managing editor of *Security Technology Executive* magazine. Follow him on Twitter: @STEMagazine.



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SCA Technology's Coming of Age

Game-changing Smart Card Authentication technology can significantly reduce door security costs

The access control card was supposed to replace the lock and key; however, looking around today, the mechanical lock is still going strong, with card access technology a distant second choice. If card access is to one day overtake mechanical locks, the price of putting electronic technology on the door must drop significantly.

Thanks to evolving technologies like Smart Card Authentication (SCA), the cost of access control technology is falling to a point where electronic lock control can be an attractive alternative to mechanical key locks.

The mechanical lock will always be cheaper than an electronic-controlled lock; however, when the cost of putting electronic access control on a door drops by half, owners will reevaluate where they can deploy them. Here's a look at where SCA technology makes sense and where it is not as good a fit.

Smart Cards vs. Traditional Prox Cards

Access control, as we have known it for the last four decades, has been some sort of credential asking an electronic device if it can access a door. The electronic reader consults its database and grants or rejects access.

An alternative technology has the data (access rights) embedded in a card. When the credential is presented to the lock, an electronic conversation could go like this:

Door: Card, please search your encrypted database for my door number.

Card: Yes, here it is along with my encrypted authentication information.

Door: Your authentication is correct, your card is valid, it is in the right time zone and your 8-hour card expiration has not elapsed. I will unlock.

What makes this transaction so significant is that the card reader did not have to consult a live database. When a door



lock does not need a computer database to know who is allowed through the door, the communication pathway back to the field panel and the computer can be eliminated. This pathway, whether wired or wireless, is a significant cost driver.

Let's look at why the price of installing a traditional card reader on a door is so expensive. Of course, there must be a card reader, but the real money is in putting a field panel on the wall, with its conduit, electrical power and data connection wires

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back to a host computer, wires to the card reader, wires to the door lock, wires to the Request to Exit Device, and wires to the door position switch. Then the door frame and/or the door for the electric lock and the door position sensor must be modified. All this labor results in a \$3,000 to \$5,000 lock.

The smart card includes a computer processor that can compute as well as read and write information to a card reader/writer. They use proximity Smart Card technology. In recent years, the price of this card technology has dropped to a point that makes it an economical alternative to the traditional proximity card.

Standalone Card Reader Locks

Recent years have seen a rise in the use of standalone, battery-operated card reader locks — the kind of locks that have been on hotel doors for decades. This alternative is much less expensive and incorporates some aspects of SCA.

As the locks have evolved for use in wider security applications, they have added reliability and new functionality — such as time zones and other features typically found in an electronic access control system — all with a battery life of two-plus years.

The standalone card reader lock is much less expensive because it does not require any of the wires, conduit and field panels that traditional card readers do. Since there is no electrical wiring, the



stand-alone card readers can be installed by anyone with basic door hardware installation skills without difficult door or door frame modifications.

There are limitations with traditional standalone card reader locks. Two of the biggest are the need to update the internal database of what card is allowed in the door and the inability to immediately reject lost or stolen cards, or cards from recently discharged card holders. Most standalone card readers require someone to go to the individual locks with a hand-held programming device or programming cards to change the database. In operations with a large number of cardholders or frequent staff turnover, this can be an impossible task that is far too labor-intensive.

Ironically, the most significant security problem for the standalone electronic lock is the same security dilemma for mechanical locks — finding a strategy that will deal with cards (or keys, in the case of mechanical locks) needing immediate revocation. Wireless standalone card reader locks have been introduced by several manufacturers that address these concerns.

These locks communicate wirelessly with a host computer to automatically update the card database and report card transactions; however, this solution still requires the installation of wireless infrastructure, and periodic wireless updates deplete the lock batteries much faster.

Smart Card Authentication

In a SCA environment, card readers do not make the decision on whether the card presented should be granted access — instead, the card and the lock work in tandem to determine card holder authorization. When a SCA card is presented to a reader, the reader, through an encrypted link, queries the card's list of valid card readers and time schedules. If the reader is contained in the card's database, the time is correct and the card has been authenticated in the last 24 hours, access will be granted.

By removing the need for a database at the reader, there is no longer a reason to communicate access rights to the individual card readers. It is much more cost-effective to manage a small database of doors in a card than to distribute the whole card database data to expensive card reader control panels.

In an SCA system, there are connected and non-connected readers. The non-connected work as described above, while the connected readers have a communication

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pathway to the access control computer database. Connected readers should be placed at the facility's perimeter, and they write the card's database updates and reset its validation time.

The connected card readers are what keeps the system current and prevent lost or stolen cards from entering the facility. If one of these cards penetrates the perimeter, it cannot be used if 8 hours has passed since it was last validated by a connected reader. The validation time can be set to whatever is practical — for a reader to a high-security area, the validation time may be set much lower than 8 hours. For another reader at an offsite facility that is accessed by field staff who do not use a connected reader every day, a 72-hour validation time makes more sense.

The connected readers are not just used to update the card's SCA database, they also can create an audit trail of where each card has been used; as well as low battery conditions in non-connected readers and other data that is typically captured in an access control system activity log.

Another SCA advantage is users can quickly and inexpensively deploy additional SCA locks. The same person who is rekeying old locks can now replace the lock with an intelligent lock without needing an electrician or specialized technician.

Another important part of access control is alarm reporting and remote lock control. This can be accomplished with any of the connected readers — thus, any doors on the perimeter, or high-security interior doors must have one. Non-connected readers, such as those on an office door, equipment rooms and storage rooms, cannot report a breach back to the access control system.

SCA in the Marketplace

Some access control manufacturers are reluctant to offer technology like SCA that may impact their connected card reader sales. However, the point they miss is that the gains made in non-connected locks will outweigh the losses in field panel sales. The intrinsic cost savings for non-connected standalone locks will drive more sales.

SCA locks will make big inroads in wired card reader sales simply because they can save so much money on securing a door, and they can easily be added without having to deal with wiring or programming.

End-users will be the catalyst. They will continue to ask their integrators and

vendors for SCA technology when two or more doors can be electronically secured for the price of one wired door. Is it time to talk to your security integrator and about this game-changing technology? ■

Robert Hammond is the senior consultant and owner of Security and Fire Design

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LET IP ACCESS CONTROL OPEN the DOOR



Creative use of networked technology can help justify the switch from outdated systems

The Benefits of Using IP Access Control

Why are users considering IP access control in the first place? Here's a look at the top motivators among end-users:

Lowered Installation Cost: Compared to a traditional access control system, an IP-based access control system is much more predictable in terms of installation costs, because a linear cost of installation and maintenance can be determined. Aside from the unit cost, a typical installation can represent a large portion of the overall cost of the system; however, since a single network connection is required for an IP-based system as opposed to multiple serial connections wired back to the server, the deployment costs are usually lower.

Since most organizations already have an existing IP network, adding a new IP-based door controller would involve minimal cost. Furthermore, IP door controllers have become more cost-effective with the use of Power-over-Ethernet (PoE) — essentially this translates to less wiring required than a traditional access control system, along with lowered labor costs associated with wiring installation.

No Downtime: Since networks are now essential and critical to businesses, heavy emphasis is placed on reliability and investing in solutions that prevent network downtime. This is where IP door controllers shine: In case of a network failure, an IP door controller will continue its normal operation and buffer the events within a local database until a connection is reestablished with the server — all of which translates to less downtime for live monitoring in an IP environment.

To protect against unauthorized access to the controller, IP access control systems offer different network security options which may include VPN tunneling or encrypted communication with the controller.

Remote Management: The ability to remotely manage an IP access control system has is an obvious benefit for end-users; however, that ability also simplifies the configuration process, as modifications can be made from anywhere with a network connection.

Remote management capability also eases the deployment of a system in multiple locations, where the access control equipment itself is thousands of miles away from the server or workstations.

The advent of IP security technology in video surveillance has given rise to some out-of-the-box applications that go beyond traditional security, such as teleconferencing, broadcasting web cameras, live traffic camera feeds, and even the remote selling of products. In much the same way, IP access control systems can offer a world of new applications that go well beyond traditional door control.

One might think that there is nothing that can be added to a system that manages a series of mechanical components to secure a door, but IP capabilities and software interoperability have contributed to a bright future for the access control industry. With the shift of access systems to a more open architecture, third-party integrations with other software have also given rise to new applications, enabling end-users and integrators to leverage access control infrastructure for various other uses.

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The costs associated with access control installation and deployment have fallen with the rise of IP.

IP Access Control Goes Beyond the Door

Now that IP access control deployments are on the rise, end-users are starting to leverage the features of the systems for applications that once were not optimized or simply not available with traditional access control systems. Here's a look at how the IP revolution has impacted the security access control market:

Making money for integrators:



IP-based access control systems can be monitored from anywhere with a network connection.

Expanded Scalability: IP-based access control systems can support hundreds or thousands of readers which can be added remotely at any time.

Better Integration: IP systems enable end-users to truly unify access control and video surveillance systems, with both being managed from a single user interface. The systems complement each other by offering end-users the ability to monitor

the events of an access point and its correlated video. This enables security staff to respond more quickly to a situation or trace back a series of events leading up to an incident with a few mouse clicks.

Advanced IP video management systems enable operators to switch from live video to playback within the same tile to review an event. Additionally, an operator can quickly generate an access control report where the associated video can be instantly played back, thus improving the ability to track a cardholder and to detect suspicious behavior.

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IP-based systems have enabled integrators to create entirely new business models. Partitioning features in IP-based systems — which segment the access control system into smaller subsystems with user managed rights — have prompted integrators to buy and maintain servers, host the systems centrally and lease the system to multiple tenants within a vicinity or building. The door controllers are managed and maintained by a remote server to which clients have access, but only for their specific partition.

Anti-Passback for Tracking: Access control features such as anti-passback have been greatly improved using IP technology. Proper implementation of the anti-passback feature can lead to highly accurate people counting — these statistics can be used to limit the number of cardholders in a particular area to prevent overcrowding issues. Additionally, the feature can be used during an emergency to track cardholders to ensure that each one has evacuated a facility safely, thus enabling security departments to better respond in crisis situations.

Custom Badging: Integrated badge designer is now a common feature in access control systems. It enables a user to print custom fields, logos and pictures from a single interface.

Elevator Control: If doors can be secured, floors are no different. A reader in an elevator cab will enable or prevent entry on certain authorized floors.



A reader/intercom unit can be installed within an elevator car.

IT Cabinet Management: The access control system has always been used to secure the entry to an organization's IT room, however, IP-based systems have enabled mini-readers to be added to server enclosures inside of those rooms to limit access to the rack itself. Since IT server rooms typically have PoE switches already installed, IP-based solutions make sense in these scenarios.

Guard Tour Verification: Having the ability to timestamp events when a badge is swiped at a reader can be an innovative way of accomplishing guard tours. Each round can be monitored in real-time



IP-based access control makes sense in IT server rooms, where mini readers can keep each IT cabinet locked.

without the need of a wand equipped with a chip to store the data.

Tour checkpoints — such as readers and dry contacts — are connected in real-time to the IP network, and alerts can be triggered if a guard has not followed the standard routine or was not present at a waypoint within a given period of time. This also enhances the level of security and increases responsiveness in case of an event.

Tracking Visitors: With technology such as signature scanners and driver's license scanners, visitor management has become easier for end-users. The information can be entered directly into the access control system without the use of an external application or human intervention. An access card or a visitor escort can be assigned to each visitor, and with that information, an operator can monitor and manage visitors within one application.

Tracking Assets: Asset tracking can be achieved with an IP-based access control system by assigning a specific ID to important assets. Real-time alerts can be triggered if an asset is moved beyond a certain point.

Sally Ports: Access control evolution has allowed for a sally port application, where two doors can be locked to control entry or exit into a specific area. This can now be accomplished directly by the software or the access controller without the use of specialized hardware.

ACCESS CONTROL RISKS

Watch out for these common ways to defeat your systems

By Pete Accetturo

Risks to access control can be narrowed down to several common incidents. The first common risk to access is referred to as **tailgating**. The authenticated user receives verification to enter and then holds a door open for an unauthorized user (aka intruder). This common intrusion and security breach can be managed through security awareness training and added access active means, such as a turnstile. High security areas have this risk minimized through a mantrap; whereby, an operator or guard requires an action to authenticate the user's access.

The second common risk is **levering**, or simply wedging the door open. The wedge can be surprisingly simple with something as small as tape over a door bolt, a screw driver or perhaps as large as a crowbar. Depending on the access control solution, an alarm from

an entry left open may or may not be triggered. Hence, why video is so critical as a complementary security layered solution.

A third but lesser common occurrence is to **gain access from an adjacent wall** (tearing through a non-load bearing drywall partition). Shared tenant office space is where this would be a more common occurrence.

Finally, **spoofing a lock** is another simple method of leveraging. In the case of controlling bolts in an electric locking door, a solenoid can be operated by a strong magnet. Motor locks are susceptible to this type of attack by using a donut-shaped magnet. It should be pointed out that it is possible to bypass the power to the lock by simply adding or removing power.

Pete Accetturo is the president of Premise Intelligence Agency (PIA), Clearwater, Fla., a dealer specializing in perimeter intrusion detection systems. He has more than 25 years in technology sales, business development and consulting.





A visitor's information can be entered directly into an access control system without an external application.

Revolutionizing Credentials

IP access control systems have had a profound impact on card/credential technology. Improvements have enabled the same ID card to support multiple formats, including magstripe, bar code, prox, iClass and more.

The access control systems can manage the information on the card, thus simplifying and maximizing its uses.

One central point of managing the card information instead of multiple user interfaces enables interoperability between the access control system and the software used in various non-security applications. Here, efficient communications over an IP network between various business systems is facilitated — something traditional systems are unable to do. What's more, all communication between systems is over the IP network, making it easy and fast to deploy and go live.

IP access control can also be used for IT security, authenticating a user on a computer. By adding a USB smart card reader to a traditional username and password, end-users can accomplish dual authentication for a high-security computer terminal. This specific application is starting to roll-out in some government offices and

high-tech firms, where logical access to information can be just as important as restricted access to a building. Once again, IP connectivity between the access control system and an LDAP or a Microsoft Active Directory server makes this possible.

Keep Thinking Creatively

Similar to IP video surveillance, IP access control has enabled integrators and end-users to explore far more than traditional applications. As IP access controllers grow smaller and wiring costs continue to fall, IP access control systems will become more cost-effective than traditional systems.

By thinking creatively, IP access control can literally open up many new doors, helping to justify the switch from outdated technology. ■

Francois Brouillet is a product specialist for Genetec (www.genetec.com).



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New Products



Affordable Stand-Alone Access Control

The Guardian II system from Datakey Electronics and Larco Manufacturing provides stand-alone access control without the need for IT resources. The non-networked design minimizes installation time (no communication cables to pull) and enables use in remote/challenging areas. The easy-to-use Guardian II software requires no special training and controls access by individual, user group, access point, schedule and more. The software also provides audit-trail information — showing who attempted/gained access and when. Cost-effective for even single access point applications, the system scales easily — allowing organizations to add access points as their budgets permit.

For more information, visit www.Guardian2.com

Visit [#411](http://sdi.hotims.com)



Industrial/Commercial Padlock

Providing maximum protection from bolt cutters with an octagonal boron-carbide shackle, the 1177 Combination Padlock from Master Lock is ideal for industrial and commercial applications. A solid brass body offers corrosion resistance, and a deadlocking mechanism safeguards the lock from prying, shimmying and rap attacks. A shackle seal and dial dust cover protects internal components and dials for trouble-free operation. Lock users have control of their own 4-digit combination.

Visit [#430](http://sdi.hotims.com)

Get Compliant with FIPS 201

Supporting multiple industry-leading credentials, the SE LP10 Integrated Wiegand Lock from Sargent, an Assa Abloy company, features HID multiCLASS SE technology. The unit is ideal for mixed credential populations and facilities transitioning to higher security credentials. Compliant with FIPS 201 Personal Identity Verification (PIV) standards, the lock is listed on the GSA Approved Products Listing (APL), offering support for SP 800-116 Uncontrolled Security Areas.

Visit [#431](http://sdi.hotims.com)



1,200-Pound Maglock

Secure interior and sheltered perimeter doors with 1,200 lbs. of holding force with the UL-listed VM1290 from Securitron, an Assa Abloy company. The unit is a direct retrofit for the Locknetics 390+



maglock that includes a specialized mounting plate to use with existing mounting holes. Options include bond sensor, door position switch and flexible mounting options for out-swing, in-swing and solid glass doors.

Visit [#432](http://sdi.hotims.com)

Exit Device Installation Made Easy



Instead of installing and adjusting vertical rods, installers can simply insert and secure the Von Duprin Concealed Vertical Cable System from Ingersoll Rand Security Technologies into the door before an exit device is installed. Once the latches are secured in the top and bottom of the door, the exit device can be quickly attached to the cable latching system, with only one point of adjustment required during the entire installation process.

By eliminating the trigger mechanism typically found at the top of the frame, the unit significantly reduces the time and maintenance required to make adjustments when compared to installing a traditional vertical rod system.

Visit [#433](http://sdi.hotims.com)

Fire-Rated Strike

Combining strength, (1,500 lbs. holding force) and endurance (1.5 million cycles), the all-in-one, fire-rated F2164 electric strike from Rutherford Controls features a "Saw-tooth Adjustment Locator" design to enable installers to choose the precise position for the lock. Other Standard features include: field selectable voltage, (12 or 24VAC/DC), low current draw (only .19 Amps @ 24VDC), plug-in wire connectors and anti-tamper pry-guard.

Visit [#434](http://sdi.hotims.com)



Control Access in a Variety of Ways

Control access with encoded cards, five digit PINs (Personal Identification Number), wireless RF control, or with almost any 26-bit weigand device using the model 1838 multi-door access controller from DoorKing. Ideal for applications requiring access control and reporting capabilities, the controllers include an elevator control module that restricts which floors system users have access to. Features include live activity monitoring, anti-passback, 3,000-user capacity and 8,000 card code capacity.

Visit [#435](http://sdi.hotims.com)

Biometrics for Government Compliance

Meet current PIV, CAC, TWIC and other standards and easily conform to changes to the standards without having to replace PACS readers with the MiY-ID outdoor multi-purpose, multi-functional biometric access control reader from 3M Cogent. The unit can interface with many PACS and government credentials. The outdoor design features an Ingress Protection Level (IP) 64 with built-in TLS encrypted Ethernet and PIV-approved matchers, scanners, and contact/contactless CHUID readers.

Visit [#436](http://sdi.hotims.com)





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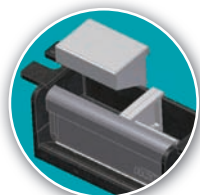
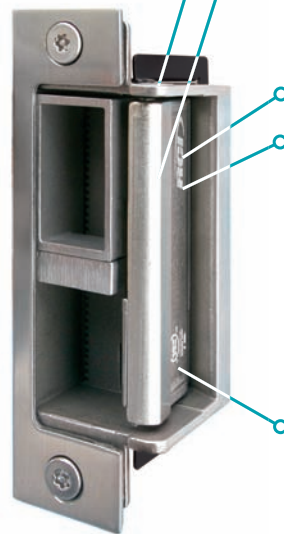
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for strength and endurance
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Grade 1 Institutional Life Safety locksets from Marks USA are designed to address managed liability, accident prevention, life safety and security in behavioral healthcare institutions. The products include ligature resistant hardware, hospital push/pulls, and mortise and cylindrical locksets.

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Put an End to Piggybacking

Stop piggybacking with Stereovision 2 technology from Boon Edam.

The technology merges two types of sensors — optical and near infrared light — to monitor the compartment of a security revolving door or portal. The two technologies work together



to determine displacement and distance and can accurately tell the difference between two people and one person holding a box or luggage to minimize false rejections. The technology is available as an option for the supplier's Tourlock 180+90 Security Revolving Door system and its Circlelock portal.

Visit <http://sdi.hotims.com #438>



NetAXS-123 — Now Better Than Ever!

Honeywell's NetAXS-123 with video offers a more advanced way to help instantly confirm access control events and alarms to help prevent losses. It's the easiest way to incorporate video into a web-based access control system without buying an NVR or DVR. You can view live video and retrieve and export stored video, and you can easily check in on your business anytime via any web browser.

For more information, call 800.323.4576 or visit honeywellaccess.com/netaxs123
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No Props Allowed

Alert security when there is a door propped open with Detex Corp.'s battery-powered door propped alarm (EAX-300). The units require no electrical connection and can be field-set for door-open times ranging from one second to two minutes, with a 15-second default. A 100-decibel alarm sounds, then silences when the door is closed so there is no waiting for a key-holder to arrive. A 9-volt battery with low battery/LED alert powers the alarm.



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Issue Secure Prox Cards

Securely program your Proximity ID cards in-house with the TeamNiSCAProx secure proximity card production system. Issue prox cards quickly with features including audit trail and reporting, and in-line encoding and printing. The system also includes issuance software, and it can be programmed to match a particular access control system.



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Electrified Made Easy

Electrify an aluminum entrance door easily with the Steel Hawk 4300 electrified latch from Adams Rite. The product's patented, two-way 'winged' technology enables it to adapt to any door swing right out of the box. The unit retrofits to 4900/4500/4700 Adams Rite deadlatches using the same strike, and is compatible with existing handles, paddles and levers. It adapts to 12, 16, and 24 volts DC and exceeds ANSI/BHMA Grade 1 requirements.



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Replace Worn Out Hinges

Able to surpass 25,000,000 open/close cycles in laboratory testing — equivalent to 60 years of high-traffic use and 10 times beyond BHMA Grade 1 cycle count — the geared continuous hinge from Select Products is designed to replace worn out butt and pivot hinges. The hinges are ideal for high-traffic doors in retail storefronts, schools, convention centers, sports facilities, airports and other public buildings.



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Standalone Access Control Keypads



918

Designed for 500 users, SDC's Entry Check 900 series standalone digital access controls includes several programmable functions, outputs and inputs for complex and unique system requirements. The 918 Heavy Duty Multi-App Keypad (pictured) and 920 Indoor/Outdoor Multi-App Keypad feature 1- to 6-digit PIN codes; four outputs, each

programmed for momentary, timed or latching; two user relays, dual or independent operation; and more.
Visit <http://sdi.hotims.com #444>

Take Control of your Access

Now featuring anti-passback and area lockout, Software House's C-Cure 9000 version 2.10 enables end-users to prevent cardholders from passing their credentials to others to gain access to secured areas. Security directors can further configure the software with time restrictions and to activate events such as sounding an alarm for anti-passback entry and exit violations. Other new features include area muster and de-muster, which enables officials to determine the actual number of personnel present in a specific location at a given time; and area lockout, which allows security personnel to define areas that lock out cardholders who may have previously accessed other areas.



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PIV-Compliant Controller

Authenticate and validate PIV credentials with the EP4502 from Mercury Security, in combination with Codebench Inc. The Linux-based, fully integrated High Assurance Access controller runs Codebench's PKI-at-the-Door software, stores vetted identities and challenges the credential's authenticity upon presentation. This challenge and response is accomplished via a secure link from the controller to the reader that employs traditional installation wiring. Visit <http://sdi.hotims.com #446>



Monochrome ID Card Printing

The Fargo DTC1000M from HID Global prints a single-color, edge-to-edge image on one side of a standard CR-80 or CR-79 identification card. The resin thermal transfer process ensures clear reproduction of photo images, bar codes and alphanumeric data. Ribbon options include standard or premium black, or a choice of green, blue, red, white, silver or gold. Optimal for organizations that issue badges requiring only monochrome printing, the unit is shipped with a refill ribbon cartridge, which when paired with a standard black resin ribbon, offers an affordable and sustainable solution. Visit <http://sdi.hotims.com #447>

When it's Good to Be Blue

bright blue that is. **bright blue™** from Schlage is a unique web-based access control system that gives users the freedom to access, manage and control a facility's points of entry from any location that has internet. It's powerful, affordable and easy to use.

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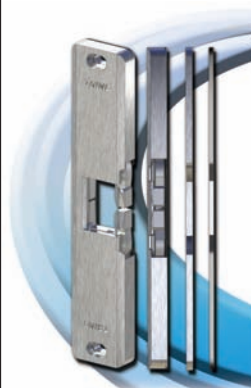
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PoE Strike

Reduce the power supply size needed for multiple strikes, or eliminate the need for an extra power supply for a rim panic installation with the 4850-PoE low current draw electric strike from Trine Access Technology. The product requires no cutting to install and features a flexible design. The strike provides four

strike thicknesses (1/2", 5/8", 3/4", and 7/8") by supplying two spacer plates.

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Electric Cabinet Lock

Perfect for drawers and cabinets, the 660 electro-mechanical lock from HES, an Assa Abloy company, operates on either 12 or 24VDC with more than 1,000 lbs. of holding force. The surface-mounted,

electric multi-purpose lock features 1,000,000-cycle endurance, all-metal construction, adjustable mounting brackets with final lockdown feature and more.

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Dual Authentication

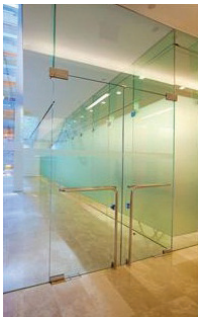
The goPROX AYC family of readers from Rosslare is a convertible PIN/Proximity Reader with built-in HID Technology. The units automatically determine whether to function as a reader or as a secured standalone controller. If the unit is connected to a standard access control unit, then it functions as a reader; if the unit is connected to the supplier's secured intelligent power supply (PS-A25T, PS-C25T or PS-C25TU), it functions as a 500-user secured standalone controller. Features include all-weather indoor and outdoor operation, tri-colored LEDs and a sounder and three security levels: Bypass (free entry), Normal (card or PIN required) or Secure (card + PIN).

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Exit Hardware Makes Re-Keying Easy

Simplify control and re-keying of an existing system thanks to the small format interchangeable core cylinders in the DG1000 Series Exit Hardware from Dorma. Accommodating a range of door sizes, architectural designs and applications, the unit employs a top latching bolt with manual or electric strikes. The products are UL-listed and BHMA-certified (ANSI/BHMA Grade 1, Type 2), with all standard exterior pull combinations available. Available in stainless steel and brass, polished or satin finishes.



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Enable wireless communication between a central workstation and up to 100 E-Plex Locks with a plug-and-play installation option from Kaba Access Control. The simple, easy-to-install USB installation option connects a single PC computer to a ZigBee Gateway and does not require any wires, conduit runs, access panels, or network drops, making it a convenient way to implement wireless access control without a hassle. The wireless system can also be scaled up to 10,000 locks with a TCP/IP connection. In addition to its variety of hardware options and credential choices, the system offers multiple configuration options.

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THE ACCESS CONTROL RENAISSANCE

They may be the same locks, but controlling them gets more interesting every day

My experience in access control and alarms extends back to the days of dry cells and window taping. There were some great artists 30 years ago who could make decorative right-angle turns with the foil tape and actually add to the looks of the building. Foil taping did the job, but the work was time-consuming, and window washing could often cause a costly break in continuity.

Access control in yesteryears consisted of timers which could lock or unlock a door at a specific time. Automatic time changes for holidays or daylight savings time were out of the question. The Phelps company did make a mechanical lock

“Deadbolt and latching systems have changed very little during the last century, despite the fact that the electronic systems for controlling those physical locks continue to change.”

which kept audit trail information — on tape. The locks used a special Yale keyway and each key for the lock had a different length of tip. As a key was inserted, the keytip pushed against a movable tailpiece, and time and keytip length were all recorded for future reference.

The explosion in electronic inventions since those early days 30 years ago have quickly found their way into the security industry. Credentials used for access control today can be something known (a PIN code), something you carry (a card or fob), or some physical characteristic which can be identified (biometrics). For increased security, dual credentials can be required.

Individual credential types are in a continual evolution. Card technology available includes magnetic stripe, bar code,

Wiegand, proximity, card swipe plus contact and contactless smart cards. Biometric credentials can include fingerprint, facial recognition, retina recognition, plus voice and hand recognition. The biometric field is especially important. While PIN codes, cards or fobs can be easily transferred from person to person, physical features will forever remain unique to each individual.

The bottom line is that electronic access control systems depend on mechanical locks to be effective. Deadbolt and latching systems have changed very little during the last century, despite the fact that the electronic systems for controlling those physical locks continue to change. Hardwiring may be giving way to wireless systems, and those wireless systems may be controlled by networks, but the end-result in most cases is that the system is either locking or releasing a mechanical lock of some type.

A new credential featured at the recent ISC West conference was the cell phone. A majority of people worldwide carry cell phones today and that fact has not been lost on the access control industry. Cell phones can be used to unlock doors, but they must be smart phones. One manufacturer at the ISC conference stated that they expect 10 million smart phones to be sold in the next year and security manufacturers are now gearing up with smart phone-based access control products to meet future demand.

A major hotel chain is already allowing customers to schedule room reservations by cell phone. The customer can then proceed directly to their room upon arrival and open the hotel room door by using their cell phone. There is no reason in the near future why cell phone electronics cannot be used for every personal access control requirement, including unlocking and starting vehicles.

We have come a long way from dry cell batteries to cell phones, but there is still much more to come. ■

Read more from Gale Johnson at www.locksmithledger.com.



A handwritten signature in black ink that reads "Gale Johnson".

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