IP Convergence Delivers Security, Connectivity, Simplicity ... and More

Schneider Electric

IP convergence is the "smart" choice

Security command centers typically rely on multiple applications to secure a facility. Each application – from security management and video surveillance to intercom exchange, intrusion detection and biometric enrollment – typically has its own user interface, reporting process and audit trail. And that makes training staff, maintaining multiple systems, and managing operations complex and costly.

Schneider Electric tackles these issues head-on with an integrated control platform featuring an easy-to-use interface and flexibility to customize. Our security solution takes information sharing to the next level over an IP-enabled network. Security personnel share voice, data, image and video information among multiple applications – anytime, anywhere using a PC or the latest handheld mobile device.

Our integrated platform unites all components of a security infrastructure to deliver a single, intelligent system – one that ensures optimal security with clear, real-time, actionable information. Security staff can quickly and accurately analyze and respond to events, creating the most secure business environment possible.

Video

Intrusion Detection

Fire Safety

Access Control

IP Network

Visitor Management

Lighting

Integrated Control Platform

Intercom

Power Management

Biometrics

Energy Management

Building Management

Elevator

IP Convergence Pays Off

Bottom line ... IP convergence with Schneider Electric's security solution offers rich, complete security management as part of a holistic, integrated IT building control approach. And it reduces costs – both capital (CapEx) and operations (OpEx) – while simplifying information collection and sharing.

- Reduces CapEx with a common footprint for equipment, software and installation
- Lowers OpEx through faster training, reduced staffing, minimized maintenance costs and reduced energy use
- Standardizes processes based on job responsibilities and focus on key functions

Our security management platform integrates seamlessly with building systems such as heating and cooling, lighting, energy management, power management, and IT room management to deliver further savings and efficiencies across the enterprise.

Schneider Electric's Security Solution Delivers

- Reliability
- Connectivity
- Mobility
- Information assurance
- Interoperability
- Scalability

There's never been a better time than now to leverage IP technology to enhance your operations – and your bottom line.

Since 1995 – installations in 10,000+ WAN-based buildings around the world.

A shared platform delivers more efficient, simplified operations

Throughout a typical day, security staff may be called upon to fulfill a broad spectrum of responsibilities – from greeting visitors, monitoring video screens and responding to alarms ... to issuing badges with biometrics, scheduling systems maintenance and granting secure access after hours – while tying in environmental and lighting controls.

Schneider Electric's IP convergence solution leverages the Andover Continuum™ platform to put multiple systems and capabilities at security personnel's fingertips – all with a single-user interface. Access to specific activities and information is fast, easy and customizable.

The main menu serves as the starting point for all security-related activities. Each of the three icons provides fast, easy access to submenus that relate to typical, real-world security situations based on work-flow management by job function, including:

- Monitoring and event management for security staff
- Data administration for the badging staff and control center manager
- System administration for those who maintain the system – and the return on investment (ROI)

All menus utilize the newest trends in user interface styles, supported by the concept of "two clicks" to gain access to any functionality and "one click" to return to the home page.

Schneider Electric Speaks "Security"

- Card/keypad/ biometrics access
- Intrusion detection/ alarm monitoring
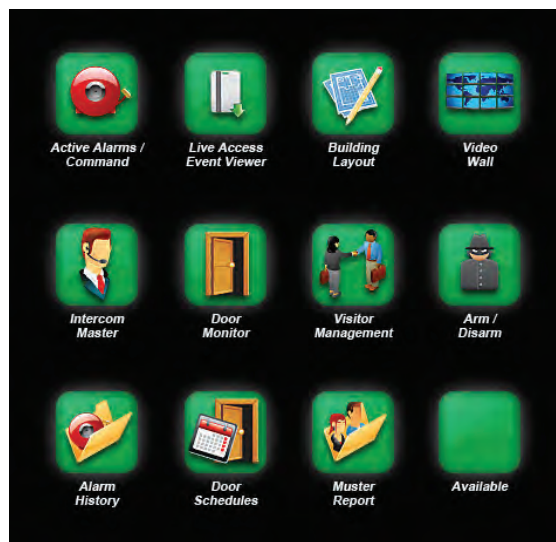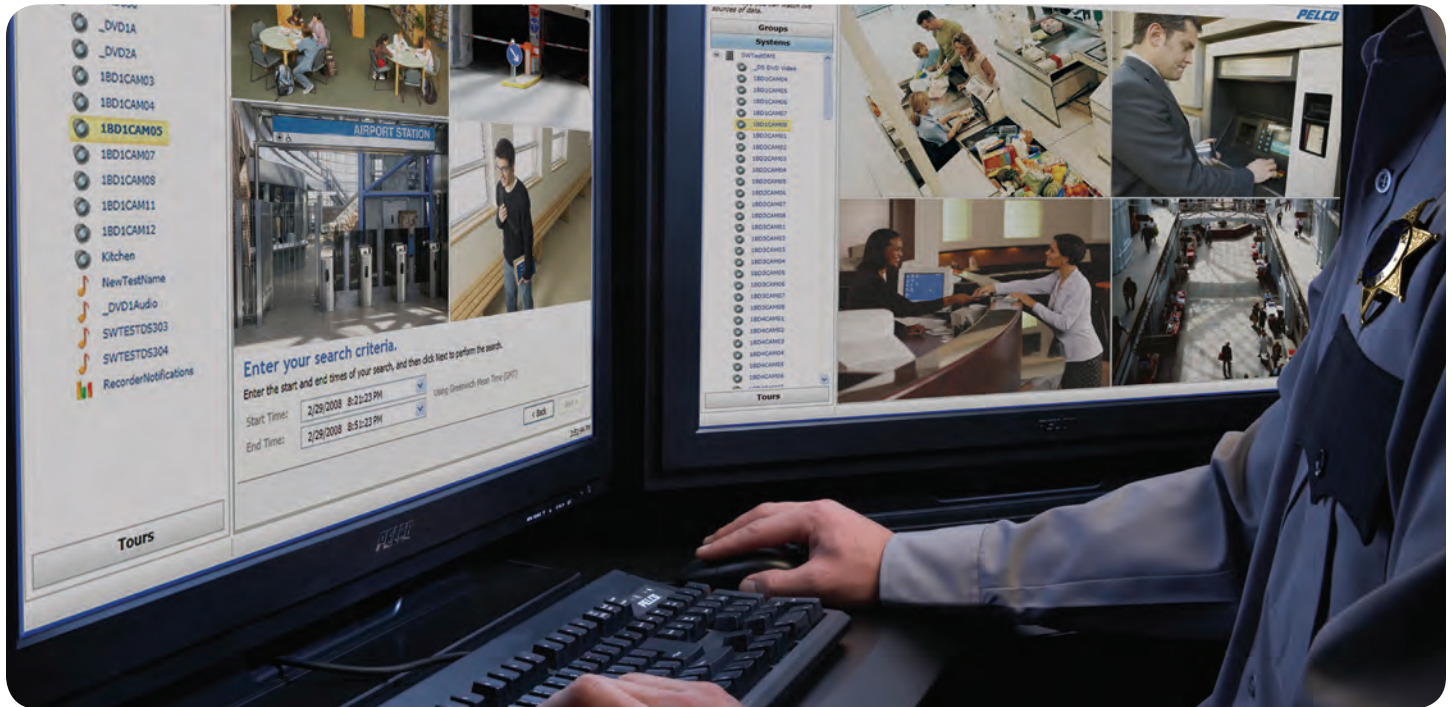- Badging/biometric enrollment/visitor management
- Video
- Intercoms

Main menu screen

IP convergence brings it all together.
Schneider Electric puts it at your fingertips.

"Front office" view sees everything

Monitoring and Event Management menu

Whether a security officer sits at a lobby desk or in a monitoring center, simply clicking on a computer icon provides fast, easy access to relevant information. Security staff can access information related to real-time monitoring or to event-initiated actions (e.g., "door forced" alarm with video, intercom call-up, verification of "mantrap access"). Access to any option on any menu depends on the security privileges granted to each individual based on the login. All menus can be customized as needed by adding or removing features and capabilities.
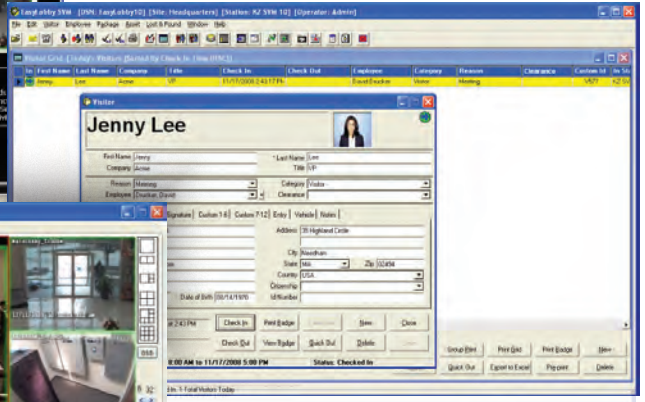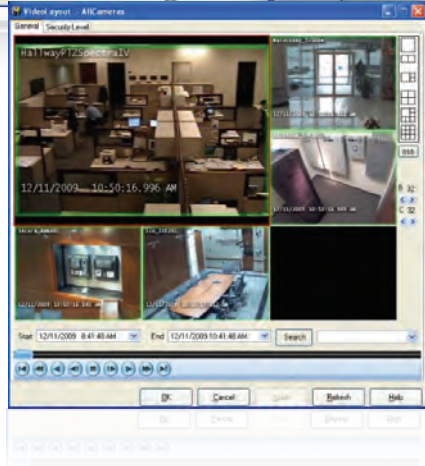
Real-time Monitoring Screens

- Active alarms
- Live access events
- Graphical floor plan
- Video wall matrix
- Door matrix
- Alarm history
- Intercom master
- Visitor badges
- Integrated intrusion detection alarm panels
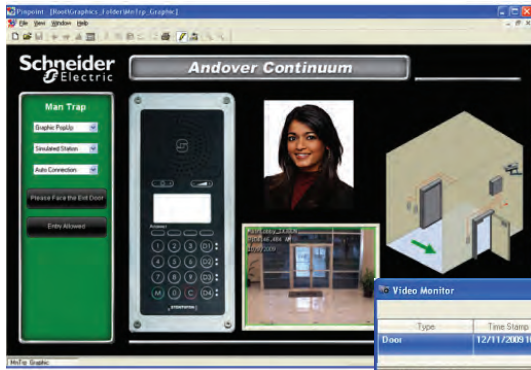- Door lockdown schedule
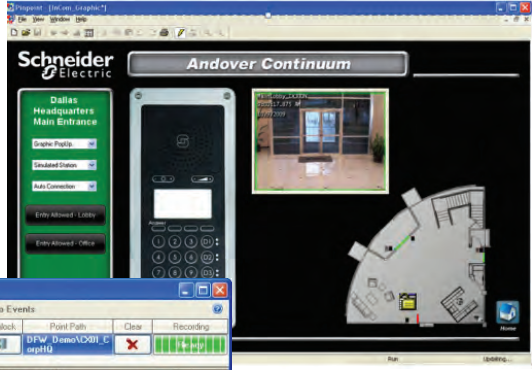- Detailed muster report with photos
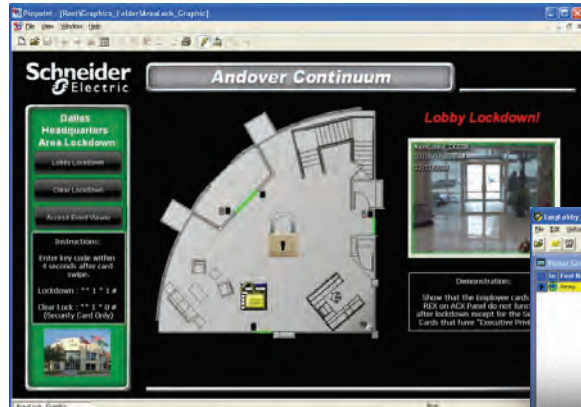
Area lockdown

Video layout

EasyLobby visitor management

Mantrap call-up
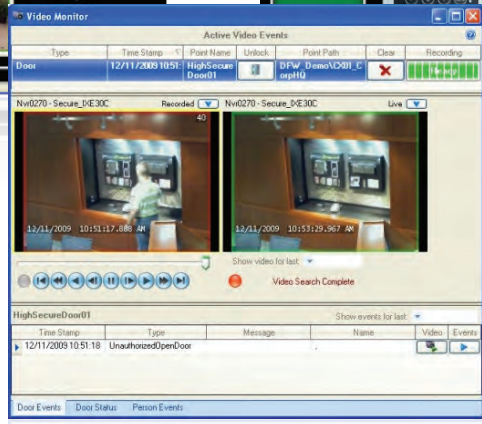

Alarm processing with video

Intercom and door call-up

Event-initiated Screens

- Intercom call-up
- Alarm call-up with pre/post video
- Biometric duress alarm
- Mantrap call-up

"Back office" view tracks everything

ID management and reporting are at the core of any security operation. Those responsible for badging, biometric enrollment, elevator access, visitor enrollment and security investigation use the tools and reports on the Data Administration menu for advanced personnel card record management. This menu also provides easy access to other reports used to investigate alarms, access events and intrusion detection arm/disarm histories, as well as a basic time and attendance system using card-in and card-out readers.
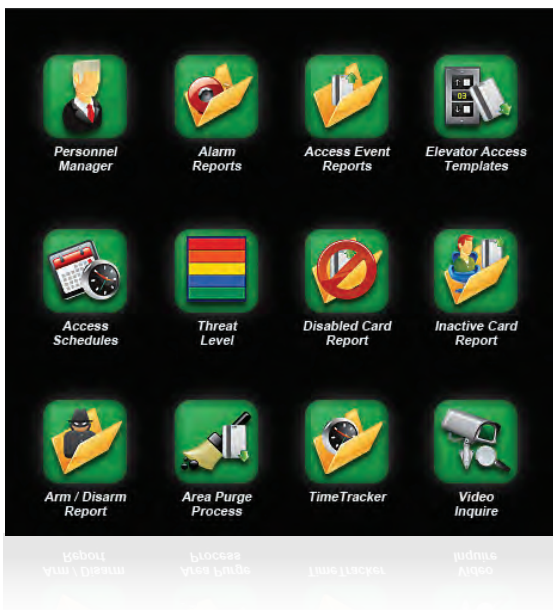
Data Administration menu

Standard functions on the Data Administration menu include:

- Personnel Manager (badging, biometric enrollment, granting of card privileges, including traditional and IP-based elevator control)
- Alarm Reports (search criteria, distribution – print, PDF and email)
- Access Event Reports (search criteria, distribution – print, PDF and email)
- Elevator Access Templates (customizable by tenant)
- Access Schedules (customization/modification)
- Threat Level (manual setting)*
- Disabled Card Report (for managers)
- Inactive Card Report (for managers)
- Arm/Disarm Report (times for intrusion systems)
- Area Purge Process** (area access privilege management)
- Time Tracker (report of employees/contractors onsite – by day/week/month)
- Video Inquire (search video by alarms and access events)

* Enables "one click" access to modify the required credentials at one or many doors – or even disallowing those with previous access based on Homeland Security or other threat level

** Eliminates granting blanket access privileges, removes inactive area privileges after a specified number of days and flags individual personnel records as exceptions to the rule

Threat management
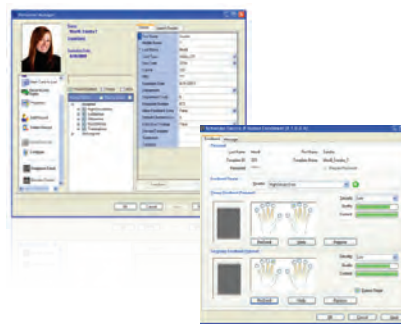
Integration of biometrics and card access


Scheduling calendar

Systemwide maintenance view supports your investment

The System Administration menu provides fast, easy access to vital information along with a variety of tools to maintain optimal system performance and ensure proper handling of recovery efforts in the event of a disaster.

Standard functions on this menu include:

- Andover Continuum Explorer (commissioning tool)
- Video Recorder Admin (commissioning tool for Pelco digital video recorders)
- Video Monitor Admin (linking of up to 16 cameras with an alarm point)
- Personnel Importer (system uploads for HR records via CSV, ODBC, XML or LDAP)
- System Error Reports (software or controller-based internal errors)
- User Activity Report (staff activity on system)
- Disabled Object Report (alarm points overridden until repaired or access cards disabled)
- Comm Status Report (communication error on Ethernet or RS-485 network)
- System Backup Status (verification of error-free SQL backup)
- Continuum Reports (full suite of available reports)
- V-Station Admin (tool for managing Bioscrypt 4G network-based fingerprint readers)
- Available (for adding new/required features)
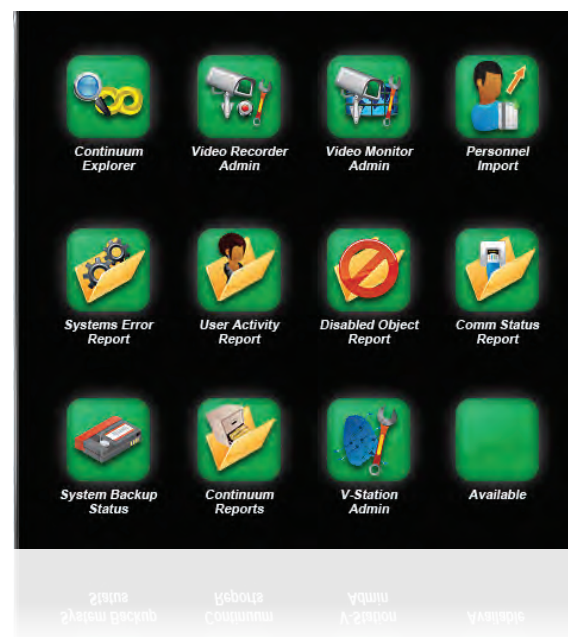
System Administration menu

# Andover Continuum delivers on its promises

Information Assurance

Utmost protection by any standard – from the controller to the database

- Designed for secure, encrypted and authenticated data transmission
- Fine-grained control of user actions
- Database partitioning for prevention against unauthorized user navigation
- FIPS 140-2 validation (NIST– Certificate #1355)
- FIPS 201 (personal identity verification [PIV]) support
- Transportation Security Administration/U.S. Coast Guard's Transportation Worker Identification Credential (TWIC) support
- Unmatched audit system tracking all events – from user activity to security events
- Component transmission verification of every network message
- Food and Drug Administration's Title 21 CFR Part 11 support

IT Interoperability

Adaptable to end-user methods, procedures and legacy systems

- Integration of systems/databases via industry-standard ODBC, LDAP or XML protocols
- Software development kit (SDK) for third-party system integration
- SNMP support for both management and alarm transmission
- Open protocol support for passing security information to high-level situational-awareness systems
- Industry-standard data sharing protocols (BACnet®/IP, Modbus®, HTTP, OPC) beyond security management for building automation (lighting control, power metering, environmental control, data infrastructure device monitoring)
- BACnet support for 19 object types and many advanced services (alarms, schedules, binary/analog values) and BACnet Operator Workstation
- Independent support for controller integration to third-party systems via IP socket connection and ASCII

Reliability

Unmatched dependability on a proven platform

- Built on universal Microsoft® server and client software
- Leveraging Microsoft's advanced .NET v3.5 technology
- Microsoft SQL server as its core data warehouse
- Redundant server hardware and software – high availability (99.999%) for critical facilities
- Distributed architecture (peer-to-peer) with no loss of security or data
- Guaranteed alarm delivery with Microsoft's Message Queuing service
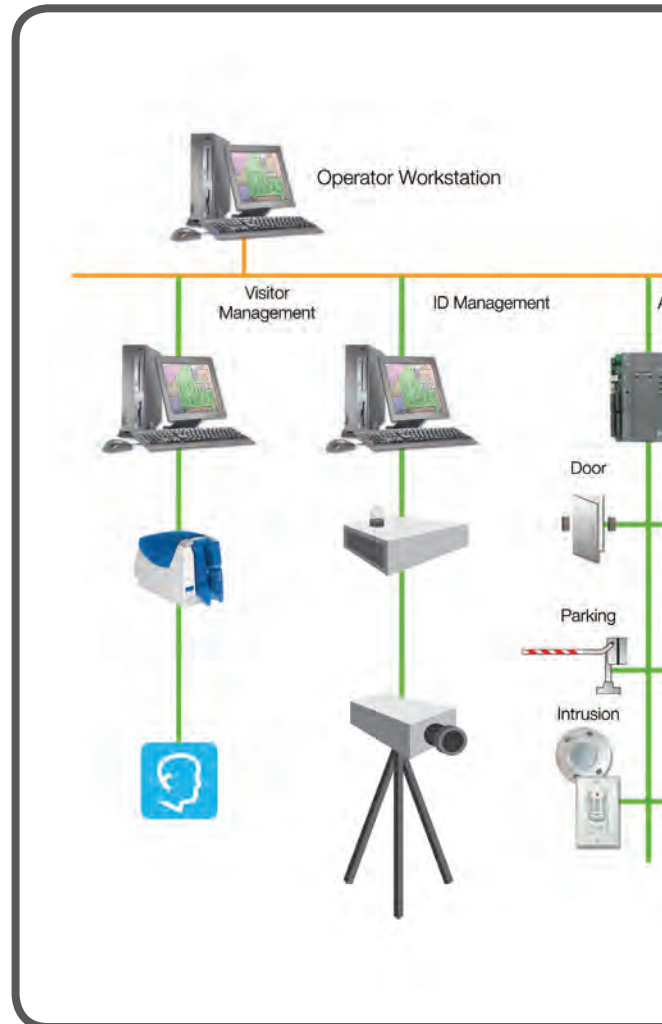
Connectivity

Security management across the entire enterprise
- Based completely on Ethernet TCP/IP – native from controllers to the server
- Maximized information transfer with minimal network overhead
- Video on network edge based Pelco Sarix™ IP cameras with embedded motion analytics
- Controllers with 100 Mb/sec onboard network interface cards (NIC)
- Native SNMP monitoring of IP information

Mobility

Fast, easy access from virtually anywhere
- Andover Continuum web application with Microsoft's Internet Explorer® web browser – same graphics, security permissions and user auditing as the workstations
- Simultaneous distribution of security information to any number of system workstations, web browser interfaces, and latest handheld devices
- Delivery of security information/reports via email and SMS messages, including rich media (e.g., personnel/event photographs)
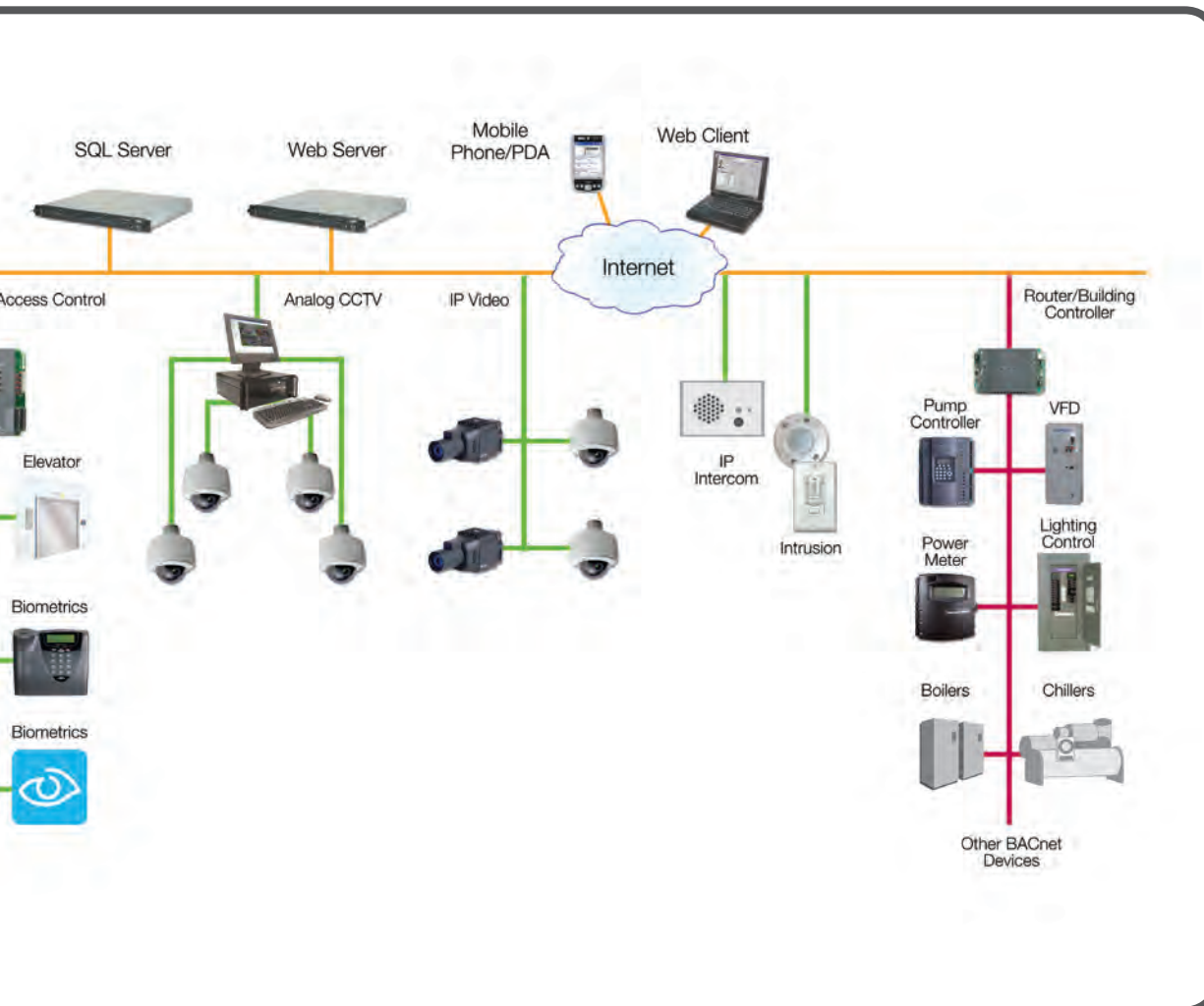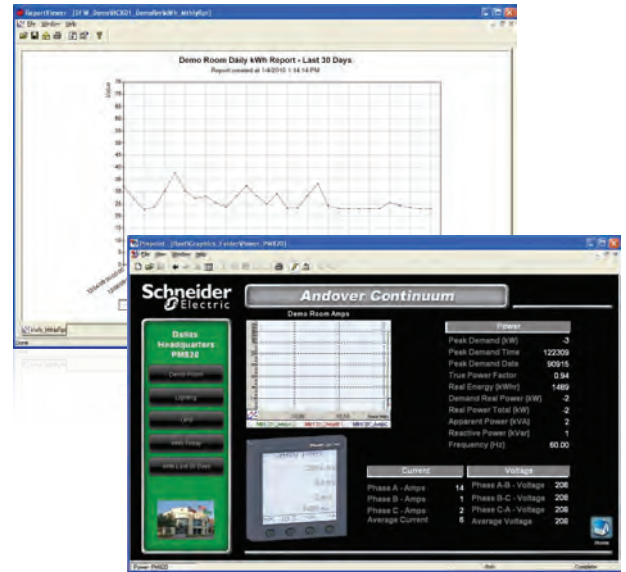
IP convergence ... Schneider Electric brings it all together
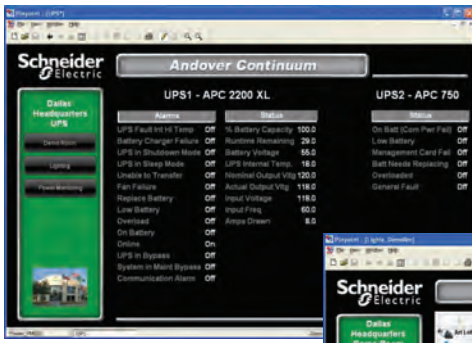
UPS monitoring

Lighting control integrated with video

Power monitoring

Just imagine ... an employee's single-card swipe can provide access to a building after hours, adjust temperature set points and control the lights. And that same system can monitor kWh use in real time and provide facilities staff with opportunities to reduce energy use.

As the global specialist in energy management, only Schneider Electric can deliver a powerful combination of security, energy, power, process, IT room and building management solutions that work together to drive down energy costs and provide safety and security for people and assets. Our industry leading technologies and systems integration expertise combine to deliver solutions that help you address your business, environmental and regulatory challenges.

We are a $22 B company operating in 102 countries. We have the experience, expertise and track record to deliver on IP convergence solutions of any size, anywhere in the world. If you're thinking about enhancing your security operation with IP convergence, talk with Schneider Electric before you take the next step.

Contact your Schneider Electric representative today – and let's discuss what IP convergence can do for your organization.

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