

Andover Continuum™

Powerful, Integrated Building Management



“A ‘smart’ building readily adapts to changes while continuing to run efficiently, and most importantly, invisibly to its occupants. The Andover Continuum system allows me the flexibility to modify operational parameters to ensure that our buildings stay comfortable, safe, and secure for our occupants.”

— Robert McRae
*Direct Digital Control
 Technician Dormitory Authority
 of the state of New York*



Expect more from building automation and security systems

Today's buildings demand more from building automation and security systems. Buildings must adapt to many rapid changes, and be smarter, more comfortable, more efficient and safer than facilities designed just a few years ago. The controls system is the critical component to meeting these new demands, and the Andover Continuum system from TAC® is ready for today's needs while helping prepare for the future.

DESIGNED FOR CHANGES

TAC's Andover Continuum is designed for change. We've placed an emphasis on scalability, flexibility, versatility, and programmability throughout the entire product line. We are constantly asking our engineers to solve the “what if the customer wants to...” problems, so our products have the widest range of practical uses, from HVAC control to basic monitoring, from electronic access control to surveillance.

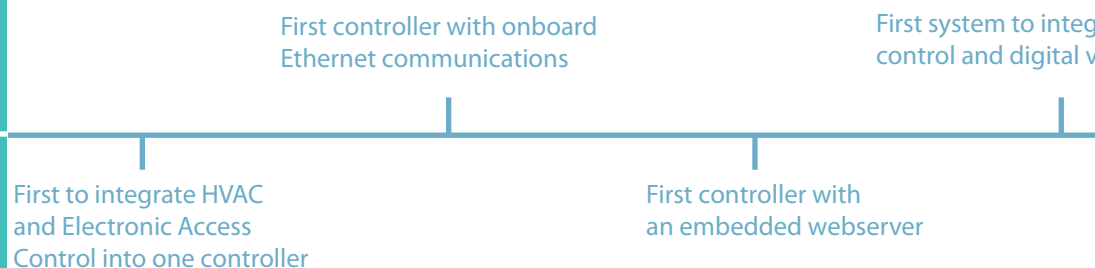
THE INTEGRATED APPROACH

Andover Continuum is built from the ground up as both a climate control system and a security system. This unique approach reduces the overall system cost while providing a solution for the growing requirement for tight integration using coordinated control strategies. It is further complemented by TAC's commitment to open standards, allowing the system to interoperate with third-party systems for total building and system integration.

SCALABLE AND EXPANDABLE

From a single site to global enterprise, the system installed today provides as solid a foundation as the building it serves. TAC stands behind Andover Continuum and the investment in building technology by making new products backward compatible. This, along with the scalability and expandability of the Andover Continuum system, provides a seamless path for integrating past, present, and future facility management needs.

ANDOVER CONTINUUM'S HISTORY OF INNOVATIONS





A Track Record of Innovation, Reliability and Quality

Andover Continuum, introduced in 1998, is the third-generation system in the product line, but its history goes back to 1980 when Andover first started to develop a low-cost energy management system as an alternative to large mainframe-based systems. Andover Continuum extends this rich heritage with its own character and successes.

Andover Continuum was the first to integrate HVAC and Electronic Access Control into one controller, having the first controller with onboard Ethernet communications, the first controller with an embedded web server, the first system to integrate access control and digital video recording, and the first native BACnet™ system to also handle full security management tasks.

Andover Continuum expands the possibilities again with the world's first wireless-mesh field bus, compatible with the full

line of Andover Continuum Infinet™ and BACnet field controllers.

We build Andover Continuum product at our state-of-the-art facilities in North Andover, Massachusetts, meeting TAC's precise specifications and demanding quality control standards.

Our parent company, Schneider Electric, is the world's leading specialist in power and control. With their acquisition of Andover Controls in August 2004, TAC and Andover have combined to create the foundation for Schneider Electric's growth platform in the building automation industry. Coupled with Schneider Electric's complementary products such as variable frequency speed drives, UPS systems, lighting controls, and power monitoring devices, TAC offers customers a complete power, security, and automation solution for all facilities.



"With Andover Continuum, the integration between systems is truly what makes the product effective for us. Plus, we have people here at Moffitt willing to 'push the envelope,' so to speak. With Andover Continuum, we are limited only by our imaginations."

— Dean Head
Director of Facilities
Moffitt Cancer Center

integrate access
digital video recording

First wireless-mesh field bus (which is compatible with the full line of Andover Continuum Infinet and BACnet field controllers)

First native BACnet system to also handle full security management tasks



“The Andover Continuum system allows me to tie in multiple building functions and reduce my costs. In the past, I worked with multiple systems, all with different front-ends. Now, integrating all our systems together and using only one front-end is not only more convenient, it allows me to have a small facilities staff.”

— Bill Lacava
Vice President of Enterprise Networks
Genpass, Inc.

Open and Integrated

When a control system is at its best, it goes unnoticed by the building occupants. To achieve this, a lot must happen behind the scenes. When a system is working at peak efficiency, people are safe, comfortable, and more productive. The system provides added value through lower operating costs.

Safety is achieved by controlling building access, by early enunciation of fire alarms, through video monitoring and recording, and by control of smoke evacuation systems.

Comfort is more than just achieving the right temperature. It is also maintaining humidity, pressure, and the proper air exchange.

A building's ability to be efficient is enhanced through demand control that is triggered through communications with the utilities. When these systems can work together, the results are much more impressive. The challenge is to link these systems efficiently.

A SINGLE SOLUTION FOR HVAC AND SECURITY

Andover Continuum achieves tight integration cost-effectively. It is both an HVAC system and a security management system at the same time, with several products offering both access control and HVAC control. There's no duplication of hardware and wiring as with separate systems, thanks to the efficiency of Andover Continuum design.

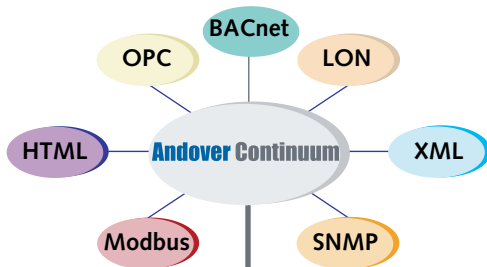
The same programming language is used for both HVAC and security applications, so coordinated system strategies are simple to implement. Andover Continuum is natively loaded with open protocol support, enabling it to work with many other vendors' products and information systems.

Andover Continuum also allows use of the same hardware and software for small or large systems. Buy only what is needed now, and expand later.

INTEROPERABILITY

Building managers are challenged to integrate multiple systems from different companies. A comprehensive integrated solution must work in tandem with the latest open protocol standards, yet work with any installed base of legacy systems, which use a wide variety of proprietary protocols.

Through interfaces with other manufacturers' systems, Andover Continuum can talk to the entire building and share information among systems including chillers, fire alarm panels, air handlers, CCTV systems, lighting controllers, and more.



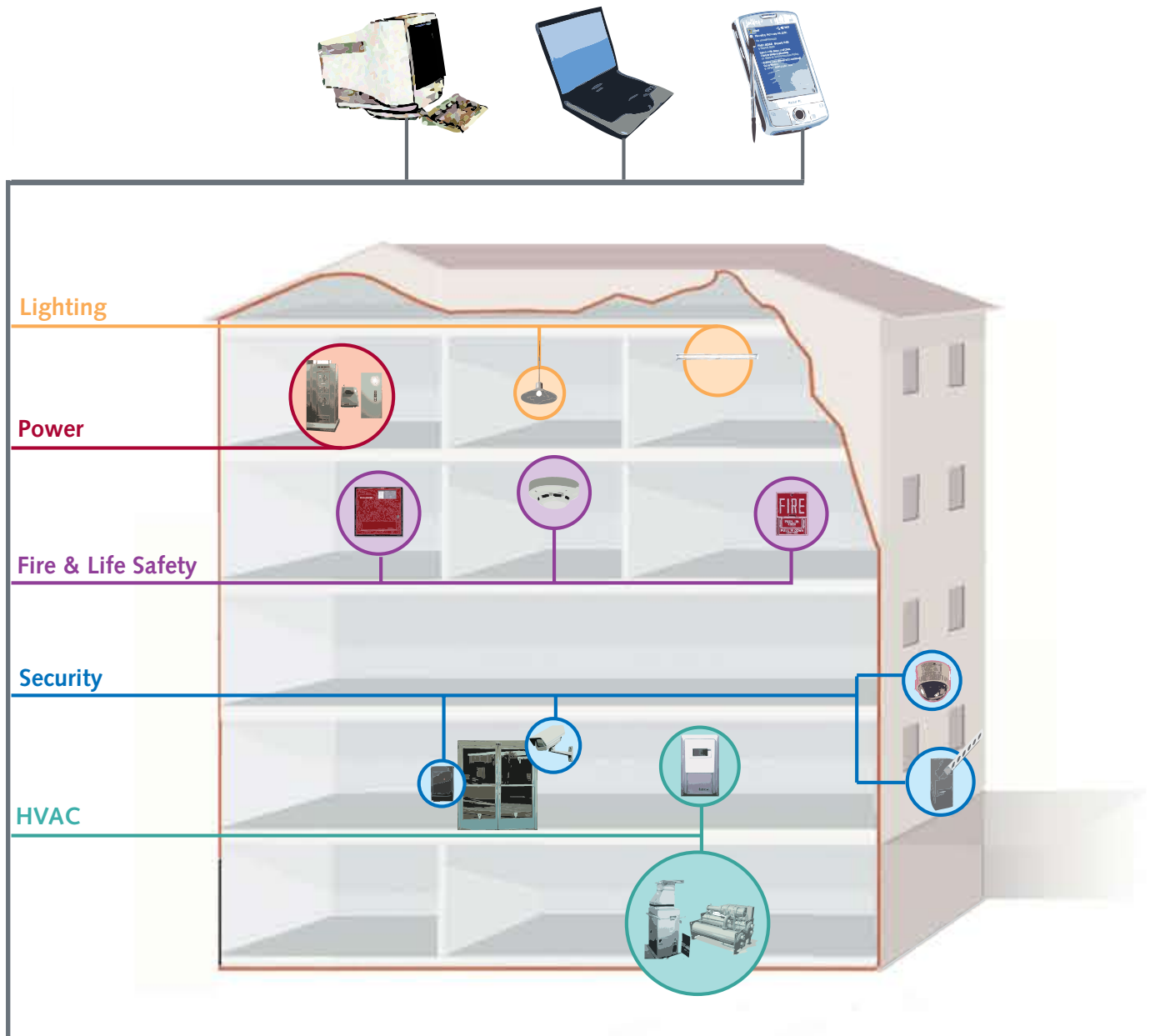
If a facility uses a product without an open standard to communicate, Andover Continuum has a list of over 200 third-party communication drivers, which include many propriety protocols.

TAC embraces BACnet, an open ASHRAE/ANSI/ISO standard providing the opportunity for building automation systems to interoperate with one another. The Andover Continuum system takes full advantage of BACnet's data sharing, trending,

scheduling, alarming, and device management services. From the BACnet operator's workstation to the building controller to the simplest terminal controller, Andover Continuum provides the highest level of interoperability at every level.

Andover Continuum is IT-friendly, supporting major communication, desktop IT, and building automation standards such as email, SNMP, HTML, Active-X, and XML through TCP/IP, OPC, LonWORKS®, BACnet, and Ethernet.

A single interface to your building



Andover Continuum ties your building together across systems, communication standards and vendors.

“Andover Continuum lets me know there’s a problem immediately so I can take the appropriate action quickly. In a nutshell, I can run my facility from anywhere!”

— Tom Martin
Facility Manager
Amgen

A Scalable System that adapts for growth

Andover Continuum is a full system of controllers and user interface software products, which can be combined in many different ways to customize the system to site requirements. Whether the site is a single building or across multiple locations, Andover Continuum is scalable and adaptable. It can even be tailored for specialized environments. For example, in the highly regulated life-sciences industry, the system can be installed and validated to support compliance with FDA regulations.



FULL POWERED NETWORK CONTROLLERS

Andover Continuum’s Ethernet-based network controllers are the most powerful in the industry and go far beyond basic routing to field buses. They also act as programmable controllers, web servers, open and proprietary protocol gateways, and alarm and event distribution engines, as well as SNMP, OPC, and email servers.

INTELLIGENT AND RELIABLE FIELD CONTROLLERS

A facility is affected by the reliability of the control system. That’s why TAC has distributed intelligence down to the local device level of every controller. These peer-to-peer devices provide stand-alone control, running their own programs, schedules, and trends, and issuing their own alarms and events. When connected to an Andover Continuum system via a field bus network, they can globally share data with any controller on the network. This global point addressing capability allows for coordinated control and reduces overall installation costs. Rather than just data sharing, it’s more autonomous.





AN INTERFACE FOR ALL USERS

From the facility manager and building owner, to the department manager or receptionist, a diverse group of people need to access the system for a variety of functions, using a wide range of user interfaces:

- Fixed workstations – PCs, laptops
- Web browsers – PCs, laptops, PDAs, mobile phones
- Service tools – laptops, PDAs
- Wall displays – touch screens, keypads with displays

THROUGH ANDOVER CONTINUUM'S ROBUST ARSENAL OF INTERFACES, USERS ARE EMPOWERED TO

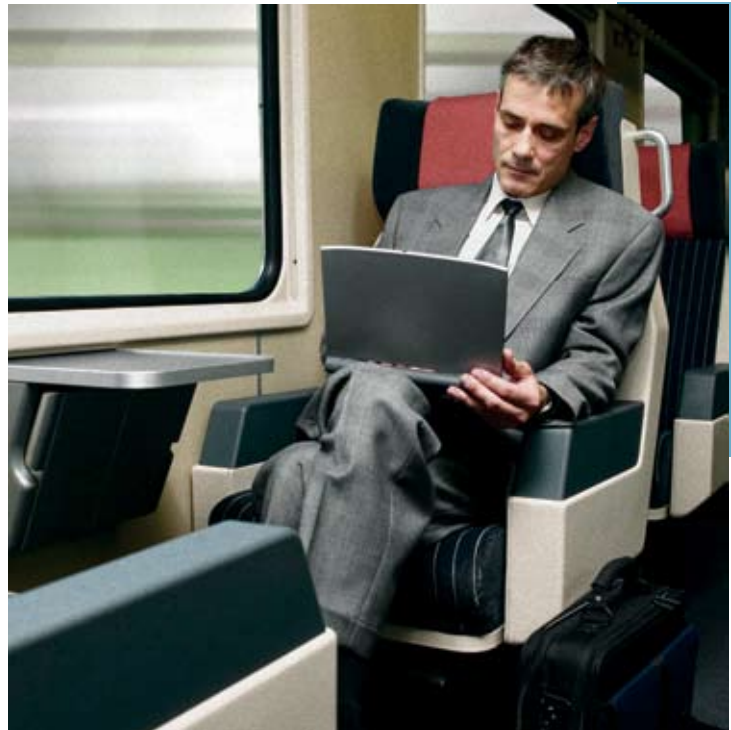
- View a graphic
- View and acknowledge alarms
- Modify schedules
- Run a report
- Change a setpoint
- View a trend graph
- View video
- Edit personnel records
- Create badges
- Edit programs

BACnet OPTION AT EVERY LEVEL

Andover Continuum is designed to support BACnet at every level from the fixed workstation to the network controller to the field controller, with no need for a gateway. They support the most advanced BACnet services addressing all five interoperability areas: data sharing, scheduling, trending, alarming, and device management. Since TAC has listed every BACnet controller in the Andover Continuum system with the BACnet Testing Laboratories (BTL), they are compliant with the ASHRAE standard and interoperate with third-party BACnet devices.

WIRELESS FREEDOM THAT'S ALWAYS ONLINE

There's no sacrificing reliability to go wireless. Wireless field networks are auto-forming and self-healing, solving the challenges and expense of running miles of wire to network field controls. A simple wireless adapter can be used with most of the Andover Continuum field controllers including all Andover Continuum BACnet field controllers.



With Andover Continuum more can be expected from a building automation and security system. It is modular, adapts easily to rapid changes and allows building systems to cooperate with each other. It sets the standard for comfort and occupant's safety and bridges past, present, and future with backward compatibility and compliance with open standards.



Andover Continuum delivers more

Visit us at www.tac.com for more information or to locate a representative in your area

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