

Andover Continuum™

Family of User Interfaces

Monitor, Control and Configure from anywhere!

The Andover Continuum™ system takes integration to the next level by controlling climate, security, lighting, and energy all from a single system. TAC has created a family of user interfaces for the Andover Continuum system that puts this powerful integrated control system in your hands from wherever you are.



Andover Continuum Family of User Interfaces Features



PRODUCT AT A GLANCE

- Powerful User Interfaces for controller climate, security, lighting and energy from a single system
- An interface for all users – Guards, Receptionists, Department Managers, Facility Managers, Building Owners, Technicians
- Support for IT environments – MS Windows XP, MS Windows Mobile, MS Internet Explorer, MS SQL, MS MSDE
- Support for open standards – XML, LDAP, ODBC, OLE, SNMP, BACnet
- Import and synchronize personnel records for HR databases with ease using LDAP or CSV files
- Monitor live and recorded video from a Digital Video Management System
- Support for wired and wireless Ethernet networks
- Support for Andover Continuum Infinet and BACnet networks – wired or wireless
- Powerful interfaces for graphics, schedules, trends, reports, alarms, personnel, programming and more

Whether you are viewing graphics from your office PC, checking alarms from a web browser at home or servicing equipment with a PocketPC, there's a TAC user interface that gives you access and control of the task at hand. Experience what thousands of other installations have enjoyed for years from TAC.

IT Friendly and Open

The Andover Continuum user interfaces are designed to participate within your existing corporate IT network. They support both wired and wireless TCP/IP connections and utilize the standard Microsoft products (e.g. MS Windows XP, MS Windows Mobile, MS Internet Explorer, MS Internet Information Server, MS SQL Server, MS MSDE). Installation is therefore simple and quick.

The workstations can exchange data using open communications standards (BACnet, XML, LDAP, ODBC, OLE, SNMP) permitting Andover Continuum to be synchronized with third party systems such as those for human resources, financial, utilities, reporting, and background checking.

For remote sites, the Andover Continuum workstations can optionally dial-out via modem or automatically answer a call from a remote site in alarm.

Secure Communications with 192-BIT IPSEC/IKE Encryption and SSL

To assure your building runs as planned without interruptions, the Andover Continuum system can be configured for a high level of encryption and authentication between workstations, controllers, servers and web browsers.

Communications between the workstations, controllers and database servers can utilize 192-bit Internet Security Protocol (IPSec) and Internet Key Exchange Protocol (IKE) to assure confidential and tamper-proof communications over the Ethernet. Web communications are also secure when Secure Socket Layers (SSL) between the web browser and the web server are configured.

Andover Continuum Family of User Interfaces Features (continued)

TAC takes security seriously with these secure authentication and encryption methods. Combined with a user logon system that partitions access to the system so the user can only view and edit the equipment and data they are in charge of, the Andover Continuum system protects your building and your investment.

CyberStation Full-Featured Interface

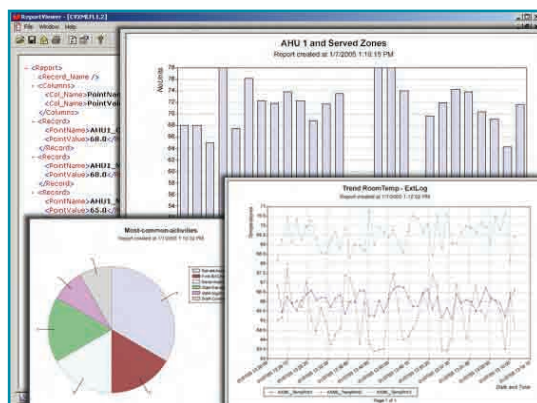
As a complete user interface for the Andover Continuum system CyberStation™ can be used to commission, configure, program, and monitor every Andover Continuum Infinet and BACnet field device, sensor and output attached to the network. CyberStation provides true integration of security (access control, intrusion monitoring and digital surveillance), power monitoring, life safety and climate control equipment within a single user interface.

Monitoring, Video Integration and Reporting

When it comes to monitoring and reporting, CyberStation really shines. Its graphics system is fully featured and provides dynamic updates of point values for any object on the system. Schedules, Trends, Reports and other tools can be launched from a graphic which provides quick, easy access to manage your whole system. Monitoring is further enhanced with the video integration features allowing the user to view live and recorded video from a "Video Layout" matrix. CyberStation's graphical reports can display raw log data in many output formats: html text reports, scalable vector graphic (SVG) bar, pie, and line charts, or as Adobe Acrobat PDF file. Furthermore, data can be represented statistically (e.g. the top 10 alarms, the highest temperature values). Reports can be run manually or executed on an alarm or schedule event and emailed to a predefined recipient list.

Alarms & Events

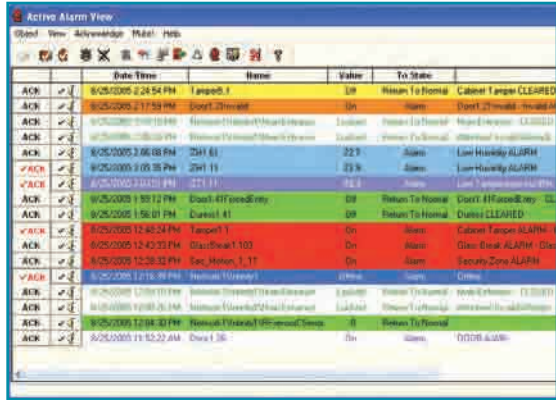
CyberStation serves as a powerful engine for collecting alarms and events and taking automatic actions (e.g. display the active alarm view, send as email, play an audio clip, launch a graphic, launch a live video layout). Users may be required to add a comment and sign off on alarm acknowledgments as an electronic signature of their action.



Andover Continuum Family of User Interfaces Features (continued)

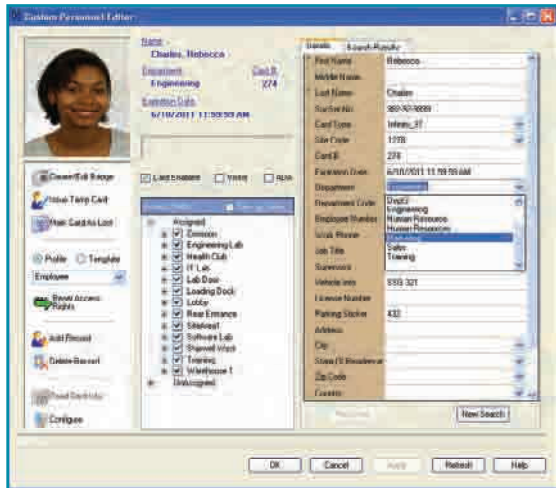
Programming

CyberStation contains a rich editor for programming Andover Continuum Infinet or BACnet controllers with the Plain English (PE) programming language. This flexible environment allows for the most complex and customer specific sequences to be programmed. PE code can even be written to issue BACnet read/write commands to third party BACnet Devices, thereby taken control of the foreign controller.



Simplified Personnel Data Entry and Badge Creation

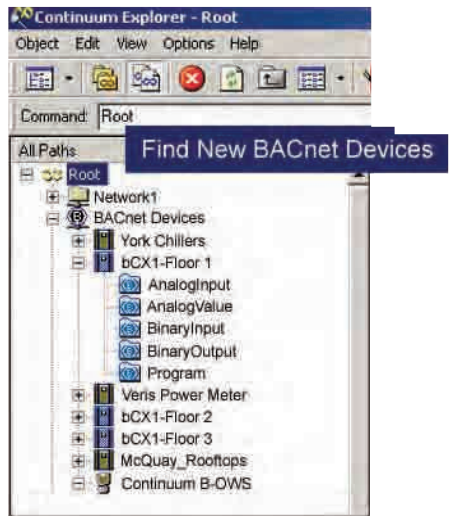
Personnel are easily managed from CyberStation with custom forms where card records can be entered with only basic training. Since the forms are customizable, you can be certain that these records are managed in a manner consistent with your organization. Assignment of access rights is as simple as assigning a record to a "Profile" that contains the valid areas and schedules for that group. To simplify data entry CyberStation can import data using LDAP or CSV files. When you are ready to create a physical badge, CyberStation is equipped with a full function badge creation package that captures photos, signatures and fingerprints and prints to a wide range of badge printers.



Native BACnet B-OWS

CyberStation communicates with the BACnet devices using BACnet/IP in strict accordance with ANSI/ASHRAE standard 135-2004 and is designed to function as a BACnet Operator Workstation (B-OWS) and BACnet Broadcast Management Device (BBMD). The CyberStation can communicate to all Andover Continuum BACnet Devices as well as any third party BACnet Device on the BACnet network.

CyberStation takes advantage of the self-describing nature of the BACnet protocol. BACnet Devices and objects from any vendor are easily discovered and created in the Andover Continuum SQL database using the "Find BACnet Devices" and "Save to Database" functions. You'll save hours compared with traditional integration that requires known addresses and point-mapping.



Andover Continuum Family of User Interfaces Features (continued)

CyberStation is equipped to make use of the other powerful services provided within the BACnet protocol including scheduling, trending, and alarming. Andover Continuum and third party BACnet Devices may be backed-up and restored using the BACnet backup and restore services providing for quick disaster recovery.

web.Client Browser Interface

web.Client extends the Andover Continuum system to the web. Using the same database as CyberStation, web.Client gives the operator the freedom to access the Andover Continuum system from anywhere on the network or over Internet. Many of CyberStation's editors and features are available in web.Client as you would use them in CyberStation. web.Client even uses the same graphics as CyberStation so there is no need to create or convert a specific graphic for web use. Furthermore, ad hoc reports may be created while connected to Andover Continuum via web.Client.

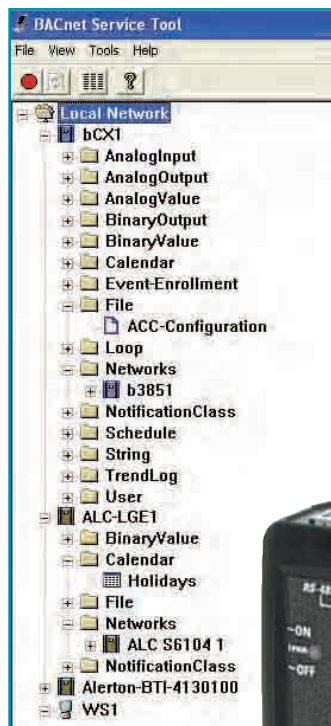


Embedded Web Server

Every Andover Continuum controller that resides on an IP Ethernet network contains an embedded web server. The embedded web server provides a simple interface for custom web pages that contain Andover Continuum data. A custom web page can permit a user to edit point values and display log data, as well as displaying present values of object properties. The embedded web server also comes with default web pages for controller configuration.

RoamIO₂ Service Tool

The RoamIO₂ service tool is the ideal interface for project commissioning and day-to-day maintenance. RoamIO₂ may be used with either a Pocket PC or a laptop and can connect to an Andover Continuum system's Infinet or BACnet/IP or MS/TP network. Furthermore, the RoamIO₂ unit can connect wirelessly to the Pocket PC or laptop using a Bluetooth interface. This tool allows the technician to view an Andover Continuum or BACnet point (and its properties) along with many editing capabilities. A user can disable a fan for maintenance or download a new application to a controller. Since the RoamIO₂ supports BACnet backup and restore, even a third party controller that supports backup and restore



Andover Continuum Family of User Interfaces Specifications

| Specifications | CyberStation | web.Client | Embedded Web Server | RoamIO ₂ |
|-------------------|--------------|------------|---------------------|---------------------|
| Native BACnet | Yes | Yes | Yes | Yes |
| BACnet/IP | Yes | Yes | Yes | Yes |
| BBMD | Yes | - | bCX1 only | - |
| Schedules | Yes - Full | Yes - Full | - | View |
| Trends | Yes - Full | Yes - Full | - | View |
| Alarms | Yes - Full | Yes - Full | - | - |
| Backup & Restore | Yes | - | - | Yes |
| Graphics | Yes - Full | Yes - Full | Yes - HTML | - |
| Configuration | Yes - Full | Yes - Some | Yes - Some | Yes - Some |
| Programming | Yes - Full | - | - | - |
| Reporting | Yes - Full | Yes - Full | Yes - HTML | - |
| User Security | Yes | Yes | Yes | Yes |
| Personnel Manager | Yes | Yes | - | - |
| Badging | Yes | - | - | - |
| LDAP | Yes | - | - | - |
| Encryption | IPSec/PKE | SSL | - | - |

All brand names, trademarks and registered trademarks are the property of their respective owners. Information contained within this document is subject to change without notice.

On October 1st, 2009, TAC became the Buildings Business of its parent company Schneider Electric. This document reflects the visual identity of Schneider Electric, however there remains references to TAC as a corporate brand in the body copy. As each document is updated, the body copy will be changed to reflect appropriate corporate brand changes.

Schneider Electric One High Street, North Andover, MA 01845 USA Telephone: +1 978 975 9600 Fax: +1 978 975 9674 www.schneider-electric.com/buildings

SDS-C-USERINTERFACE-A4.BU.N.EN.8.2008.0.00.CC

August 2008 pdw