Andover Continuum
Family of User Interfaces

- 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 Infinet and BACnet networks – wired or wireless

- Powerful interfaces for graphics, schedules, trends, reports, alarms, personnel, programming and more

MONITOR, CONTROL & 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.

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.
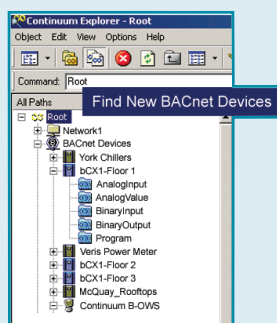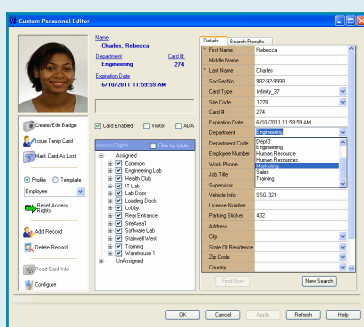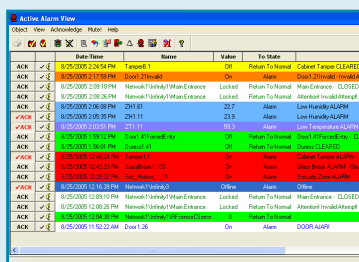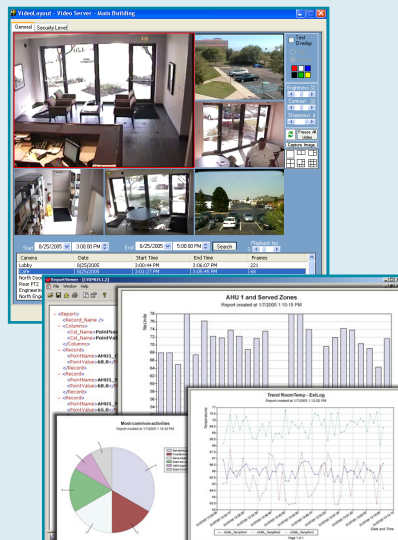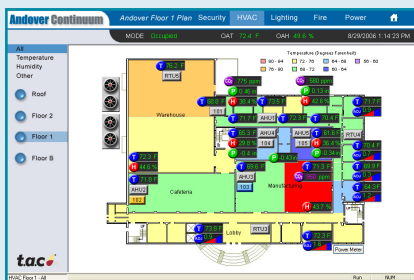
SECURE COMMUNICATIONS WITH 192-BIT IPSEC/IKE ENCRYPTION AND SSL
To assure your building runs as planned without interruptions, the Andover Continuum system can be configured for a high level of encryption and authentication between workstations, controllers, servers and web browsers.

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.

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.

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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 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.

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.

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.

RoamIO$_2$ Service Tool

The RoamIO$_2$ service tool is the ideal interface for project commissioning and day-to-day maintenance. RoamIO$_2$ 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 RoamIO$_2$ 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 will many editing capabilities. A user can disable a fan for maintenance or download a new application to a controller. Since the RoamIO$_2$ supports BACnet backup and restore, even a third party controller that supports backup and restore may be reloaded.
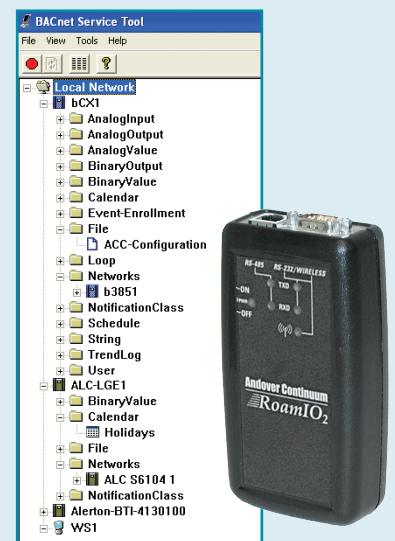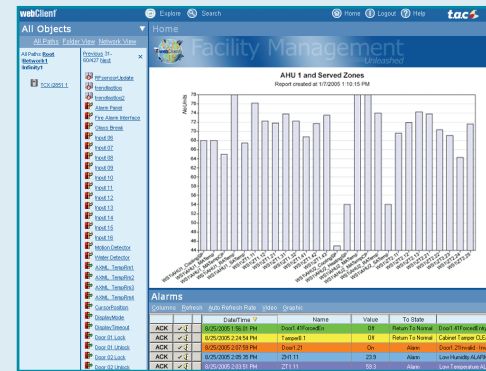
Specifications	CyberStation	web.Client	Embedded Web Server	RoamIO$_2$
Native BACnet	Yes	Yes	Yes	Yes
BACnet/ IP	Yes	Yes	Yes	Yes
BBMD	Yes	–	bCX1 only	–
Schedules	Yes – Full	Yes – Full	–	View
Trends	Yes – Full	Yes – Full	–	View
Alarms	Yes – Full	Yes – Full	–	–
Backup & Restore	Yes	–	–	Yes
Graphics	Yes – 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	–	–

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