# PRODUCT ANNOUNCEMENT

## CyberStation & web.Client v1.9, NetController II v2.1 and ACX Series v1.1

### Literature

CyberStation Installation Guide
P/N: 30-3001-720

CyberStation Access Control Essentials Guide
P/N: 30-3001-405

CyberStation HVAC Essentials Guide
P/N: 30-3001-1000

Introducing BACnet – A Guide for Continuum Users
P/N: 30-3001-863

web.Client Planning & Installation Guide
P/N: 30-3001-835

Plain English Language Reference Guide
P/N: 30-3001-872

RAS Configuration Guide
P/N: 30-3001-814

NetController II Operation & Technical Reference Guide
P/N: 30-3001-995

ACX 57xx Series Controller Operation & Technical Reference Guide
P/N: 30-3001-999

Release Notes 1.9

### Resource List

Feature Blast: CyberStation & web.Client v1.9
P/N: FB-C-CYBER-WEBC-V1_90-A4

Feature Blast: NetController II v2.1
P/N: FB-C-NETC-II-V2_1-A4

Feature Blast: ACX Series Access Controller for Ethernet v1.1
P/N: FB-C-ACX-V1_1-A4

Feature Blast: Federal Information Processing Standard (FIPS) Solution
P/N: FB-C-FIPS-A4

### Product Overview

Andover Continuum 1.9 is a new version of CyberStation and web.Client software. Version 1.9 is designed to provide Microsoft Vista support along with several new features to build on v1.8x's security-focused offering to ensure a safe and secure environment for any given circumstance. Additionally, v1.9 introduces direct support for third party drivers using the BACnet bCX1 Controller/Router. Revision 1.9 is a paid upgrade for all Andover Continuum systems (i.e. v1.8x or below).

To easily present the benefits of rev 1.9 to your customers, please refer to the separate, detailed "Feature Blast!""

### Features and Benefits
### Video Monitor

Video Monitor provides a way to link each Continuum object to 16 cameras residing on Pelco video servers - specifically Pelco DS RealVue, DS NVR, DVXi and DVX video servers.
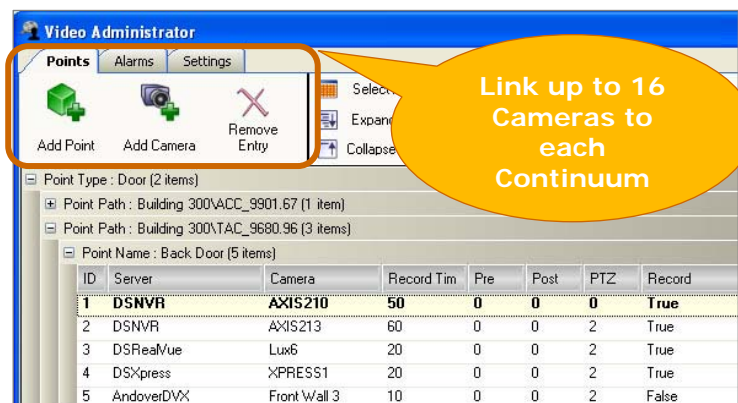


When your security needs call for direct control of video server recording, you can call on Continuum's Video Monitor. Video Monitor easily links Continuum objects such as doors, intrusion sensors and fire monitoring points to

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cameras on Pelco video servers. This makes it possible to instantly show live and recorded video feeds on a workstation after an alarm event.

On alarm, Video Monitor can send record commands to the Video Servers that host the cameras, which may include Pan-Tilt-Zoom (PTZ) preset calls so that the cameras are positioned towards the incident. Each camera can be set to record for a specific time duration for the event. The resulting video clip will be that event duration plus any pre- and/or post- event time that may be set at the Video Server. This guarantees that a suitable video clip will be available for review afterwards.

Through Video Monitor, Continuum can also receive alarm events from the Video Server. The Video Monitor Administrator application lets you determine which video server to record Video Server offline alarms as well as camera loss and motion detection alarms from each individual camera.
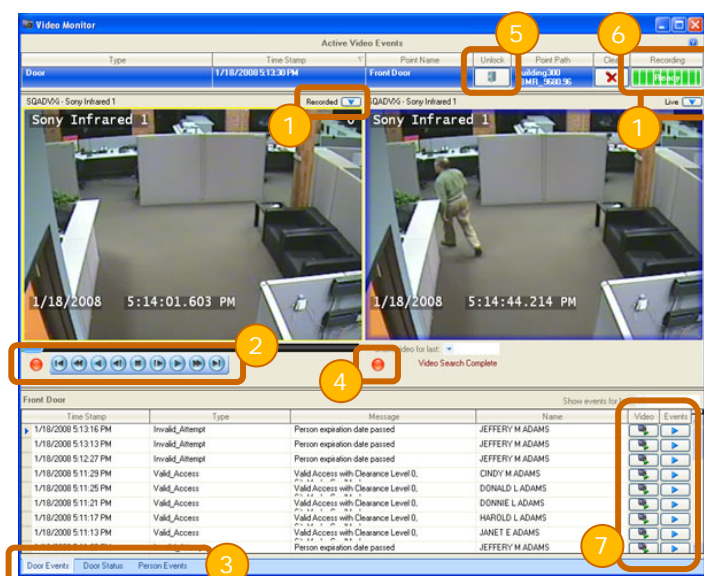


The monitoring capabilities of Video Monitor provide the operator with all the tools necessary to investigate:

1. See live and recorded video simultaneously from one of the sixteen linked cameras
2. Control video playback via VCR-like controls
3. View Door Events, Door Status, and Person Events
4. Invoke manual recording with a single button
5. Control door locks for momentary unlocks
6. View status of Video Recording
7. Search for video clips by alarm, door or person events
8. View personnel details and edit records
9. Position PTZ cameras through presets or manual control
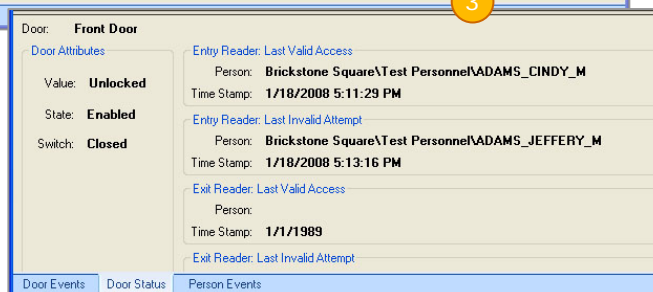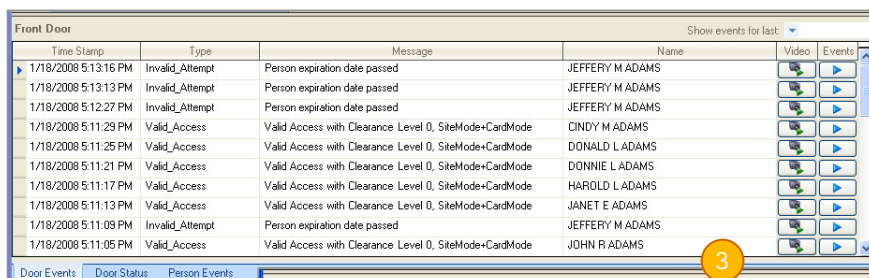
If a new event occurs during the review of a previously launched session, it is added to the event queue. The operator may continue with his current session or choose to switch to one of the queued events. This way, the operator is always in control of the investigation activities.

## DigitalSENTRY Enterprise Video Acquisition Unit (VAU) Support

Adding to Continuum's support for Pelco video products, version 1.9 is now compatible with the DigitalSENTRY Enterprise Video Acquisition Unit (VAU), which also uses the iVEX video compression technology. Cameras connected to the video system via a VAU are visible in the associated Video Server object's camera dropdown list. DS Enterprise VAU cameras are compatible with both Continuum Video Layouts and the new Video Monitor application.

## Microsoft Vista Support

CyberStation and web.Client v1.9 software is now supported on the Microsoft Vista operating system (OS). Meeting with the latest emerging IT requirements for compatibility with MS Vista, v1.9 has been successfully recompiled and tested with Microsoft Vista Business and Microsoft Vista Ultimate. web.Client browser machines with the MS Vista OS can connect to the server via MS Internet Explorer 7.0.

## Microsoft SQL Express Support

CyberStation v1.9 supports Microsoft SQL Express for Single-User (SU), or "Stand Alone", installations. If performing an upgrade from a previous version using MSDE 2000 (i.e. v1.81 or below), the database application will automatically be upgraded to Microsoft SQL Express during the software installation/upgrade process.

## Supports BACnet bCX1 with 2$^{nd}$ Generation Continuum XDrivers

CyberStation v1.9 supports the new BACnet bCX1 XDriver feature, specifically for 2$^{nd}$ Generation Continuum XDrivers. Allowing direct communications between BACnet and third-party devices eliminates the need for additional network controllers required for driver support. This also allows for project growth to include more field devices from Schneider Electric and third-parties to complement the Andover Continuum system. Rather than focus on the HVAC system, the solution can expand to encompass other functions of the customer's site (e.g. lighting, power management, smoke control). Use the XDriver support on the BACnet bCX1 to integrate with Schneider products for lighting control or power monitoring for a complete building automation solution.

Please refer to the Third Party Communications Interfaces and Protocols datasheet for a full list of 2$^{nd}$ Generation Continuum XDrivers.

Note:   BACnet bCX1 Series v4.500047 is required to support this add-on feature.

## HSPD-12/FIPS-201 Support*

TAC continues its commitment to supporting the new United States Homeland Security Presidential Directive (HSPD-12) and Federal Information Processing Standard (FIPS-201) with a software revision to import data from a FIPS approved Identity Management System (IDMS) / Personnel Identity Verification (PIV) middleware system.

The FIPS support in Continuum v1.9 permits data to be synchronized between CyberStation and the IDMS/PIV systems and also distributes FIPS compliant data to controllers for access control decisions. FIPS compliant access control requires all NetController II, ACX Series, and AC-1 Family units to be upgraded to firmware that is FIPS compatible.

### Transitional "Dual" Card*

Transitional cards that were partially supported in CyberStation 1.81 have now been fully implemented. With v1.9, a second credential (e.g. Prox or FIPS-PIV card) assigned to each personnel object may be downloaded to a controller that supports dual credentials. This feature is useful for sites transitioning from one card access system to a FIPS-compliant system. Use of dual credentials may be temporary or indefinite.

Note:    This feature may also be used at non-FIPS sites and does not require the FIPS option when used solely with non-FIPS credentials.

### Personnel Import Utility (PIU) Enhancements

The Personnel Import Utility launched in version 1.8 is now enhanced to allow XML as a data source. TAC has included a standard XSLT transformation script that integrates with the PIV middleware from ImageWare Systems, TAC's preferred and tested PIV system for FIPS installations. The PIU synchronizes import and export of personnel data using XML. The PIU may exchange data from other systems that utilize XML by editing the XSLT transforms.

\*    Andover Continuum NetController II v2.1 and ACX Series v1.1 is required to support this feature. Any AC-1 Series module will also need to be updated with its FIPS compatible flash file.  The AC-1 and AC-1A require v25; the AC-1 Plus requires v29.

## Activation Date added to Personnel Records

Activation Date is now a new attribute in Personnel Records.  In the past, a personnel record is active as soon as configured (unless otherwise specified and manually changed when desired).  This new attribute allows for a personnel record to be created and configured but the access privileges are not valid until the specified activation date occurs; activation is automatic upon the activation date.

Note:    This new attribute is only supported on the ACX Series (Models 5720 and 5740) and NetController II (Model 9680).

## New Door Attributes for Keypad Input Custom Sequences for the ACX Series

Create custom entry sequences that would normally require custom firmware in similar products by other vendors. The new "KeypadCommand" and "KeypadString" Door attributes may be used to provide additional control at the door simply by creating a Continuum Plain English program that references these attributes. After presenting his badge and valid access has been granted, the operator has up to three seconds to enter a custom code using the keypad. That code can be used to issue any number of commands: turns the lights on or off, hold the door for extended periods or enter a reason code for entering that area – whatever the application, these attributes have you covered!

Note:    This feature is only supported on the ACX Series (Models 5720 and 5740).

## Business Opportunity

CyberStation v1.9 offers business opportunities in four major areas: 1) meeting the latest IT requirements for system compatibility, 2) further enhancing the advanced security feature set offered in versions 1.8 and 1.81, 3) completing the Andover Continuum FIPS 201 solution, and 4) offering support for third party driver functionality to include more complementary Field Devices and Schneider Electric products to be integrated in the overall system.

IT managers are becoming increasingly involved in the selection of building management systems and setting requirements for their network (including operating systems and applications).  CyberStation and web.Client v1.9 now include support for Microsoft Vista, Microsoft SQL Express, and Microsoft Internet Explorer 7.0, allowing the opportunity to target these customers who have or plan to standardize on these latest IT products.

Video integration into Andover Continuum is even more effective in v1.9.  The new Video Monitor application designed within CyberStation is a standard feature that easily links Continuum objects such as doors, intrusion sensors and fire monitoring points to cameras on Pelco video servers. This makes it possible to instantly show live and recorded video feeds on a workstation after an alarm event.  As a free feature included in v1.9, expanding systems to include video functionality and adding Pelco video servers to your Andover Continuum system is even easier!

U.S. government agencies are required to comply with HSPD-12 by installing physical and logical security solutions throughout their sites that meet the FIPS 201 standard. Failure to comply with these mandates could result in a drop in funding to that agency by the U.S. government. Therefore, existing and perspective TAC government customers should be approached during this deployment period. The Continuum system has a clear path for customers to get their site compliant with the new regulations.

The new XDriver support option on the BACnet bCX1 Controller/Router also allows for project growth to include more Field Devices and Schneider Electric devices to complement the Andover Continuum system. Rather than focus on the HVAC system, the solution can expand to encompass other functions of the customer's site (e.g. lighting, power management, smoke control). Simplifying third party integration is an additional opportunity to leverage TAC's relationship with Schneider Electric.  Use the XDriver support on the BACnet bCX1 to integrate with Schneider products for lighting control or power monitoring for a complete building automation solution.

## Technical & Market Opportunities

TAC is among the first companies to offer a HSPD-12/FIPS-201 solution. We believe that the Andover Continuum solution, which includes a partnership with ImageWare Systems for PIV middleware, is one of the best. The ImageWare product gives government agencies the flexibility to integrate with enterprise level Identity Management Systems (IDMS) including IBM Tivoli, customize the data entry workflow and business logic, and seamlessly exchange this data in a synchronized fashion with Continuum. Furthermore, ImageWare's Biometric Engine provides the most compatibility with biometric devices (e.g. fingerprint, iris, hand geometry, facial) making it possible to deploy the Continuum solution while supporting the customer's full range of field devices.

TAC is not the only security vendor to partner with ImageWare for a FIP 201 solution. Honeywell has also based their FIPS products around ImageWare. Other security vendors have chosen other partners. Lenel has partnered with ActivIdentity. ActivIdentity was considered by TAC for this partnership, but after an evaluation, TAC concluded that the ImageWare solution is more comprehensive and a much better value for TAC customers.

The FIPS feature set should really be thought as an elevated security feature set. TAC is already in discussions with airports who are interested in the advantages of the new Andover Continuum offering. We believe that other segments will also be attracted to our new capabilities. Perhaps they won't utilize the entire FIPS compliant package, but they are likely to employ a subset of the FIPS solution in new ways.

At TAC, we believe that many of the v1.9 features can also be applied to less critical applications. So take the opportunity to leverage these enhancements to wide range of installations. From an access control perspective, v1.9 supports enhancements for both the ACX Series and NetController II. The Transitional "Dual" Card support can be used for sites requiring support for two credentials per person, or can be used during a transitional period overlapping use of one credential type to another. The Keypad Input Custom Sequence for the ACX allows some flexibility for applications requiring custom responses based on valid access events.

Including the XDriver function in the BACnet bCX1 (i.e. eliminating a dependency on Infinet controllers) allows the opportunity to do more BACnet projects, increasing market experience and expertise in successfully designing and configuring BACnet systems – which is in line with TAC's strategy of promoting communication through open protocols. Many competitor solutions require a separate device to serve as a gateway. Andover Continuum is uniquely positioned since one device can do it all.

## Ordering

Orders placed effective December 1st, 2008, will begin shipping with version 1.9 software. Upgrades may be ordered effective November 17th, 2008, and will be fulfilled upon receipt of order.

Because v1.9 is a "major" revision, all upgrades are paid upgrades. Standard upgrade prices are the same whether upgrading from v1.4x or 1.7x. When upgrading, all workstations and web.Client servers must be upgraded to the same version. To order an upgrade, complete an Andover Continuum Upgrade Form (found on the ExchangeOnline Global website) and follow your region's corresponding upgrade procedures.

Orders for new v1.81 software or paid v1.8x upgrades placed on or after September 2nd, 2008, are eligible for free upgrade to v1.9. Simply fill out the CyberStation or web.Client v1.9 Upgrade Form(s), including the original P.O. and Order numbers.

New software orders can be placed using the standard part numbering scheme using the following options.

### Part Numbers:

**CyberStation:**

| | |
|---|---|
| SU-INT | Single User Integrated |
| SU-HVAC | Single User HVAC |
| SU-SEC | Single User Security |
| LAN-INT | LAN Integrated |
| LAN-HVAC | LAN HVAC |
| LAN-SEC | LAN Security |

**CyberStation Options:**

| | |
|---|---|
| -U | Unlimited Points |
| -P | Programmer's Version |
| -B | Badging Option |
| -CFRB | Basic CFR Compliance Pack – 1st Workstation |
| -CFRBV | Basic CFR Compliance Pack – 2nd Workstation & up |
| -CFRA | Advanced CFR Compliance Pack – 1st Workstation) |
| -CFRAV | Advanced CFR Compliance Pack – 2nd Workstation & up |
| -C | Critical Security Option – includes Condition "Threat" Level |
| -D | Data Exchange Option – includes Personnel Import Utility |
| -USB | USB Key |

**web.Client:**

| | |
|---|---|
| WEBC-x-PM | Personnel Manager version, x user connections = 1, 2, 5, 10, 15, 20, 25 |
| WEBC-x-PRO | Pro version, x user connections = 1, 2, 5, 10, 15, 20, 25 |

**web.Client Options:**

| | |
|---|---|
| -WCxPM | Option to add web.Client PM to Single User CyberStation (SU), x user connections = 1, 2 |
| -WCxPRO | Option to add web.Client Pro to Single User CyberStation (SU), x user connections = 1, 2 |

Please be sure that your workstation machines fulfill the upgrade rev requirements (e.g. operating system version, processor speed, hard drive space) before upgrading your site. Also, remember that all of your workstations and web.Client server(s) must be at the same rev.

There are specific firmware upgrades required for compatibility with this v1.9 release. Visit the ExchangeOnline site to download the latest firmware files and upgrade your controllers to the latest revs.

**HSPD-12/FIPS-201 Support:**

The options listed above do not include the newly introduced add-on options for HSPD-12/FIPS-201 Support. These will be –F options required on the CyberStation workstation and network controller products (only available on the NetController II and the ACX Series). These add-on options will require special approval, and will only be available through upgrade procedures (i.e. not through typical new product orders processes). Please refer to the separate FIPS 201 specific Product Announcement (PA-C-FIPS-A4) for more details.

## Compatibility

All new orders for CyberStation and web.Client placed after December 1$^{st}$, 2008, will ship with rev 1.9. When using v1.9, all CyberStation workstations and web.Client application servers must be upgraded to the same version. Please make sure the site's operating systems, firmware and SQL servers are all compliant with the matrix below.

### Andover Continuum Software and Firmware Compatibility Matrix for v1.9

| | | CyberStation/web.Client Software Version |
|---|---|---|
| Last Updated: October 30$^{th}$, 2008 | | 1.9 |
| LAN Configuration | DB Server OS | MS Vista Business, MS Vista Ultimate, Win Svr 2003 (SP1), Win Svr 2003 R2 |
| | SQL Version | MS SQL 2000 (up to SP4), MS SQL 2005$^3$ Standard & Enterprise Editions |
| | CyberStation PC OS | Win XP Pro (SP3), MS Vista Business, MS Vista Ultimate, Win Svr 2003 (SP1), Win Svr 2003 R2 .NET v2.0 & .NET v3.0 (Video Only) |
| | web.Client Server OS | Win XP Pro (SP3), MS Vista Business, MS Vista Ultimate (up to 2 connections) WinSvr 2003 (SP1), Win Svr 2003 R2 (both up to 25 connections) .NET v2.0 & .NET v3.0 (Video Only) |
| Single User Configuration | SQL Version | MS SQL Express (SP4) |
| | CyberStation SU (Cyber / DB Server OS) | Win XP Pro (SP3), MS Vista Business, MS Vista Ultimate, Win Svr 2003 (SP1), Win Svr 2003 R2 .NET v2.0 & .NET v3.0 (Video Only) |
| | web.Client SU (CyberStation, web.Client Server, & DB Server OS) | Win XP Pro (SP3), MS Vista Business, MS Vista Ultimate, Win Svr 2003 (SP1), Win Svr 2003 R2 (all up to 2 connections) .NET v2.0 & .NET 3.0 (Video Only) |
| | web.Client: Browser PC OS | Win XP Pro (SP3), MS Vista Business, MS Vista Ultimate, MS Vista Home Premium, Win Svr 2003 (SP1) , Win Svr 2003 R2 .NET v2.0 & .NET v3.0 (Video Only) |
| | web.Client: Browser | On MS XP: MS IE 6.0 SP1, MS IE 7.0; On MS Vista: IE 7.0 |
| | | **Compatible Firmware Versions** |
| | NetController II | 2.1$^4$ |
| | ACX Series (5720/5740) | 1.1 |
| | CX Controllers | 1.5x |
| | CX 9702 | 1.x |
| | bCX1-CR-INF (Infinet) | 1.0, 1.1, 1.2$^1$ |
| | i2 Controllers (Infinet) | 3.x  (3.3 to use xPUI4 Expansion module) |
| | i2 Controllers-WL (Wireless Only Infinet) | 3.5 |
| | Exceptions: | |
| | i2608, i2624, i2804, i2814, i2885, i2887 | 3.x |
| | i2865-V, i2866-V, i2885-V | 3.5 |
| | i2 Controllers-WL (Wireless Only Infinet) | 3.5 |
| | Infinet Controllers | 1.4 or greater |
| | Exceptions: | |
| | ACX 700 | 1.5x |
| | ACX 780 | 1.5x |
| | DCX 250 | 2.16 |
| | LSX 280 | Not supported. |
| | bCX1-R, bCX1-CR (BACnet) | 4.3, 4.4, 4.5$^{2, 5}$ |
| | b4920 | 4.2 |
| | b3 Controllers (BACnet) | 4.3, 4.4, 4.5 |
| | Exceptions: | |
| | b3865-V, b3866-V, b3885-V | 4.5 |
| | b3 Controllers-WL (Wireless Only BACnet) | 4.5 |

1  v1.2 required on bCX1-CR-INF to set comm. port for Wireless.
2  v4.5 required on bCX1-R/bCX1-CR to set comm. port for Wireless.
3  Only Standard Edition of MS SQL 2005 is supported on MS Vista machines.
4  Special IOU module firmware versions required for FIPS support: AC-1 and AC-1A: Minimum v25; AC1-Plus: Minimum v29.
5  Minimum v4.500047 required for XDriver Support on the BACnet bCX1-4040.

The complete Andover Continuum Software and Firmware Compatibility Matrix is posted on the ExchangeOnline Global website.

## CyberStation and web.Client 1.9 FAQs

1. **My site is at rev 1.5 — how do I get to 1.9?**

   Upgrades from pre-1.9 versions (i.e. v1.8x and below) to v1.9 are paid upgrades and require software key cookie upgrades.  Complete an Upgrade Form, specifying serial numbers for all CyberStation and web.Client keys. Submit the Upgrade Form and you will be mailed a new v1.9 CD and the required sets of firmware. You will also be sent a unique code for each key by email. Using the CyberKeyWriter.exe program, update each key and then install v1.9 on each CyberStation and web.Client machine. Flash files for controllers are included on the Service Release CD or you may download them from the ExchangeOnline website. Carefully follow the upgrade procedures in the CyberStation Installation Guide and web.Client Planning & Installation Guide to upgrade your workstations and web.Client Server(s).

   Note:    A v1.9 software CD will only be mailed for paid upgrades. Sites that request a free upgrade due to the 90-day period (as described in the Ordering section) can download software from the ExchangeOnline Global website or can pay for a software CD.

2. **Does 1.9 support Microsoft Vista operating system?**

   Yes. Microsoft Vista is now supported for CyberStation and web.Client as detailed in the Compatibility Matrix on the previous page of this announcement.  Refer to the CyberStation Installation Guide (P/N: 30-3001-720) and the web.Client Planning & Installation Guide (P/N: 30-3001-835) for more specific information on compatibility.

3. **Does v1.9 support Microsoft SQL 2005 Express?**
   Yes. For Single-User (SU) or "Stand Alone" systems, v1.9 now installs MS SQL 2005 Express free of charge.  When upgrading from pre-v1.9 installations to v1.9, your Microsoft database application (e.g. MSDE 1.0, MSDE 2000) will be upgraded to MS SQL 2005 Express. Carefully follow the upgrade procedures in the CyberStation Installation Guide to upgrade your stand alone (i.e. SU) workstation.

4. **My site is currently a LAN site with a SQL 7.0 Server, can I upgrade to 1.9 if 1.9 does not support SQL 7.0 Server?**

   Yes, however, you will need to upgrade the SQL Server to version 2000 (with SP4) or 2005 prior to upgrading.

5. **Can I install CyberStation v1.9 or browse web.Client v1.9 on Windows 2000 Pro or Windows 2000 Server machines?**
   No. Microsoft Windows 2000 is no longer supported for CyberStation and web.Client after v1.81.  In fact, v1.81 had limited compatibility with Windows 2000; it could only be used for systems that didn't use the video features which requires Microsoft .NET Framework 3.0. Continuum v1.9 requires Microsoft .NET 3.0 for all installations and MS .NET 3.0 is not supported by Windows 2000 operating systems.

6.  **Does version 1.9 include Pelco DS RealVue and DS NVR support?**

    Yes. Since v1.81, CyberStation video features have been compatible with Pelco DS RealVue and DS NVR digital video management systems (DVMS). Andover Continuum is only compatible with previously branded "Integral Technologies" video servers. This includes the DS RealVue, DS NVR, DVXi and DVX lines, and now with v1.9 includes the DS Enterprise VAUs.

7.  **Does version 1.9 include Pelco DX4500, DX4600, DX8100 and DVR5100 (Endura) video servers?**

    No, v1.9 does not include support for these Pelco products (including Endura). TAC and Pelco are working to deliver support for additional Pelco video servers. CyberStation v1.91 will address Endura support.

8.  **Have I lost any video functionality offered in previous CyberStation versions?**

    No. Version 1.9 video layouts have been re-designed for compatibility with DSConnex which is what allows communications/compatibility with Pelco (specifically former "Integral") DVMS; however, no features have been dropped in this re-design.

9.  **Is Video Monitor included free in v1.9 or is it a paid option?**

    The new Video Monitor feature is free in v1.9. It is a great opportunity to leverage the new video functionality in v1.9 to expand existing sites to include digital video.

10. **How is the Video Monitor feature in v1.9 different from the Video Monitor (or VideoMon) "Add-On" software?**

    The new Video Monitor feature in v1.9 is natively designed within the CyberStation software and is compatible with DS RealVue and NVR video products.

    The Video Monitor "Add-On" Software (P/Ns: VIDMON and VIDMON-PLUS) is an external application developed as the initial video integration solution for Continuum. It doesn't support the newer video formats, is not supported through Product Support Services, and is a paid option. The Video Monitor "Add-On" Software has not been discontinued since it can still be used for pre-v1.8x systems, however the native Video Monitor feature within CyberStation is the preferred and supported video solution.

    Note:    Limited release v1.82 includes the new CyberStation Video Monitor functionality as a paid feature.

11. **Do I require any special hardware products to support the new v1.9 features?**

    The following v1.8x/v1.9 features require specific hardware models to support:
    - HSPD-12/FIPS-201[*]
    - IPSec/IKE Encryption (between Ethernet Devices)[*]
    - Area Lockdown[*]
    - Condition "Threat" Level Based Access Rights[*]
    - HID Corporate-1000 Cards[*]
    - FIPS PIV cards[*]

- Transitional "Dual" card[*]
- Activation Date attribute added to Personnel Records[*]
- Door attributes for custom entry sequences (only supported by the ACX Series)

* Each of these requires the NetController II or ACX Series Access Controller for feature support.

## 12. Are there any specific controller firmware versions required for compatibility with v1.9?

Yes, there are new firmware versions required to support features introduced over the last few revs. The following table summarizes the new controller firmware required for compatibility with v1.9.

| Product | v1.9 Compatible Firmware Version |
|---|---|
| NetController II (Model 9680) | v2.1 |
| ACX Series (Models 5720 and 5740) | v1.1 |
| BACnet bCX1 (Model 4040) | v4.500047 |
| AC-1 and AC-1A IOU Modules | v25 |
| AC-1 Plus IOU Module | v29 |

New NetController II, ACX Series, and AC-1 family units from the factory will start shipping with these new firmware versions. In general, it is good practice to upgrade to the latest firmware versions for the best functionality.

Check the Compatibility Matrix in the previous section or posted on the ExchangeOnline Global website to see what firmware versions are compatible with v1.9.

## 13. I haven't upgraded my controllers since they were installed. Will they need to be updated to support v1.9?

In most cases, yes. It depends on their current revision. Check the Compatibility Matrix in the previous section or posted on the ExchangeOnline Global website to see what firmware versions are compatible with v1.9.

## 14. What XDrivers are supported on the BACnet bCX1 Controller/Routers?

The BACnet bCX1 Series is compatible with 2nd Generation Continuum XDrivers (like the Infinet bCX1, NetController II, and the ACX Series). The Modbus/RTU and Modbus/TCP drivers are some of the XDrivers that have been recompiled and tested for the new hardware. In the future, other drivers may be made available for the bCX1. Refer to the Third-Party Interfaces and Protocols Datasheet (P/N: SDS-C-DRIVERLIST-A4) which can be found on the ExchangeOnline Global website for more information.

## 15. Can I assign multiple credentials per personnel record in v1.9?

Version 1.81 introduced support for up to two credentials (e.g. access cards) per personnel object, however only the first credential information could be downloaded to the controller. Version 1.9 permits both credential data to be downloaded to the controller. Please note that this feature can only be used with the NetController II and the new ACX Series controllers.

**16. How can I find out more about the Andover Continuum HSPD-12/FIPS-201 solution?**

A FIPS Solution specific Product Announcement (FB-C-FIPS-A4) has been created to complement this CyberStation and web.Client v1.9 release and will be posted on the TAC ExchangeOnline Global website.  Refer to that document for information and FAQs regarding the Andover Continuum FIPS solution.

**17. Can I purchase a NetController II or ACX Series controller with FIPS support?**

Refer to the special FIPS Solution specific Product Announcement (FB-C-FIPS-A4) referenced in question 16 for more information on how to order FIPS compliant products and add-on features.

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