

WEBS-AX Security

SEC-H-201, SEC-H-600 PRODUCT SUITE AUTOMATION SOLUTION

SPECIFICATION DATA



FEATURES

- Integrated management of access control, alarm monitoring, and credential database
- Pre-defined custom reports on-screen or exported
- Web-based security application - easily managed via a web browser anytime, anywhere
- Web User Interface serves rich presentations and live data to a browser
- No thick client software required
- Custom graphic floor plans and equipment displays
- User-definable Wiegand card formats
- Intuitive, guided setup wizard
- Robust, modular solution for smaller facilities
- Seamlessly integrates to Video Monitoring, HVAC, Lighting, and Energy Management in the WEBS-AX Automation System
- Connectivity to any BAS system via BACnet[®], LONWORKS[®], Modbus[®], and oBIX
- IT connectivity includes XML, oBIX, SNMP
- Built on the Niagara^{AX} Framework - the industry's leading facility management software platform
- SEC-H-201: Expandable to 16 readers and 64 input and 64 output points. Up to 2500 personnel credentials.
- SEC-H-600: Expandable to 32 readers / 120 input and 120 output points. Up to 10,000 personnel credentials.

APPLICATION

WEBS-AX is a product suite developed on the Niagara Framework[®] that provides an end-to-end building automation solution. WEBS-AX is a fully distributed system when multiple units are networked together, providing unsurpassed scalability and reliability. Users can seamlessly integrate LONWORKS, BACnet IP (client), BACnet MSTP, Modbus, OPC[®] and other standard protocols with legacy systems to provide a unified real-time controls network. The WEBS-AX automation system includes a browser-based graphical user interface allowing users to view and manipulate underlying systems without the need for dedicated workstations or client software.

The WEBS-AX Security Controller provides an out of the box, web-enabled solution, for access control and intrusion detection with integrated reporting and alarm management. Users can assign access rights, schedules, credentials, and provide system set up, and maintenance via a web browser from anywhere in the world. The easy to use security control application and user interface are embedded in the WEBS-AX Security Controller requiring no additional software to set up or operate the system. The embedded application can provide complete access control and intrusion detection functionality in a stand alone mode or it can be easily integrated into the WEBS-AX automation system to control lighting, HVAC equipment, and other building management strategies in response to access events and system alarms.



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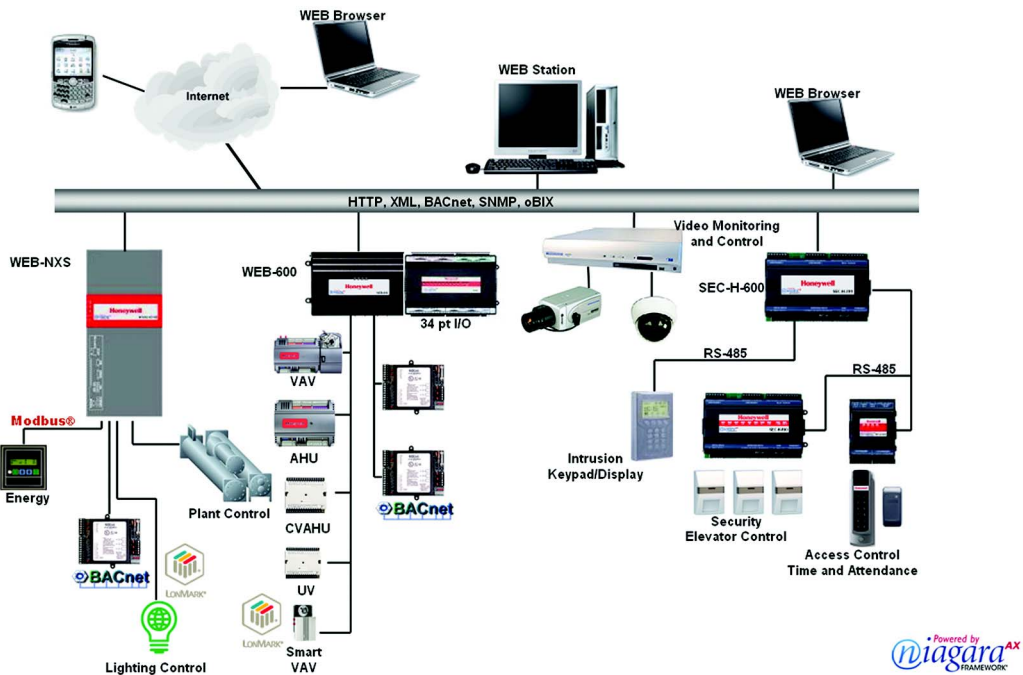


Fig. 1. WEBS-AX Integrated Facility Management Architecture.

SECURITY FUNCTIONS

WEBS-AX Security Views

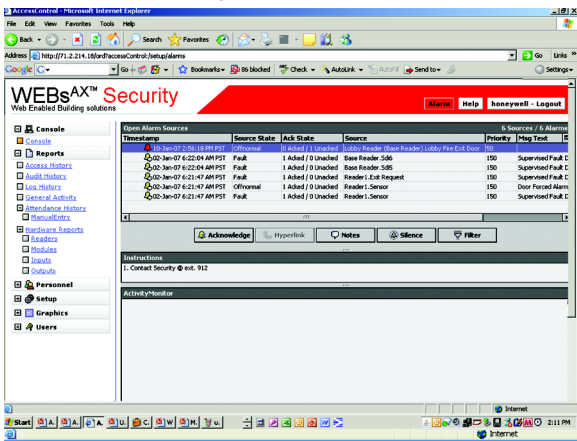


Fig. 2. Real Time Monitoring.

Access real time alarm and activity monitoring from an intuitive, easy-to-use console. Quickly view facility graphical layouts to locate points of entry, exit and alarms. Facilitate the operator and controller response to system events with unique alarm point instructions. Process events with pertinent notes to create a written record of events. Email alarms to selected recipients and export information for use with other software programs.

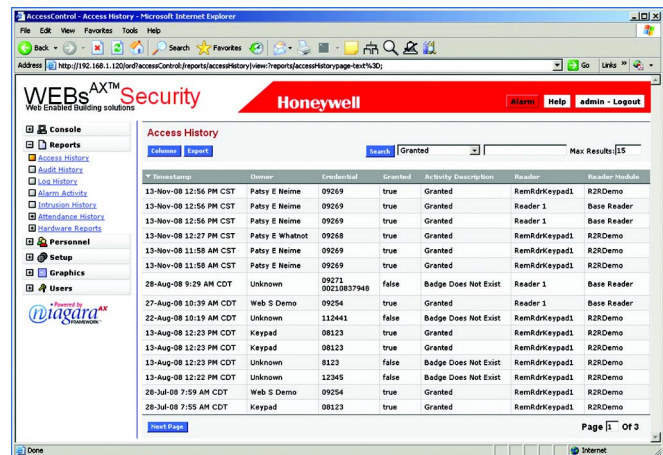


Fig. 3. Comprehensive Reporting.

Historical data is easily searchable through a list of pre-defined reports and comprehensive ad-hoc reporting capabilities. Time and attendance, audit history, general activity, and alarm logs can be viewed via a browser and exported to comma separated value (.csv) format or standard PDF (.pdf) format utilizing flexible report styles to customize report layouts.

WEBS-AX Security Enclosures

Custom enclosures are available for secure mounting of the WEBS-AX Security controller and the Remote Reader and Input/Output modules. Three sizes are available to allow for various combinations of controllers and remote modules and all are equipped with a key lock and tamper switch. The medium and large enclosures may be ordered with a factory mounted universal voltage power supply (NPB-PWR-UN-H) covered by a protective metal shield. Knockouts are provided on top, bottom and sides for external connections. The enclosure interiors have a generous amount of space for cable management. These enclosures are required to maintain the UL access control and FCC listing.



Fig. 4. WEBS-AX Security Panel Options

WEBS-AX Security Controller (SEC-H-201) and Expanded Capacity Security Controller (SEC-H-600)

These security controllers are Web-enabled with integral access control and intrusion detection software, web-server user interface, embedded database, report engine, and RS-485 network connection for remote readers and I/O modules. These controllers include onboard capacity for two 12 VDC Wiegand-style card readers and the required I/O to support two standard doors and monitor battery backup. Two option card slots are available for RS-232, RS-485, or LON FTT-10 communication cards.

WEBS-AX Reader Module (SEC-H-R2R)

The Remote Reader Module contains an additional two Wiegand-style card reader inputs and the required I/O to support two doors. Up to seven reader modules can be connected to a SEC-H-201 controller RS-485 network to increase capacity to sixteen individual card readers. The SEC-H-600 controller can connect to up to 15 reader modules for a total capacity of 32 readers.

WEBS-AX Input/Output (I/O) Module (SEC-H-RIO)

The Input/Output Module contains capacity for eight supervised inputs and eight relay outputs. A total of eight I/O modules can be added to the SEC-H-201 controller network for system expansion to sixty-four inputs and sixty-four outputs. The SEC-H-600 controller can connect to up to 15 I/O modules for a total count of 120 input and 120 output points.

Intrusion Keypad/Display (SEC-H-INT-KP)

The Intrusion Keypad/Display allows building occupants to arm or disarm intrusion zones. The LCD display allows the user to view the status of a zone before arming to avoid false alarms. An NPB-2X-RS485 option card must be installed in the security controller for communication to this device.

Table 1. Hardware Specifications.

Product	Wiegand Card Reader Inputs	Supervised Inputs	Relay Outputs	Digital Inputs
Security Controller SEC-H-201, SEC-H-600	2	6	4	3
Remote Reader Module SEC-H-R2R	2	4	2	2
Remote Input/Output Module SEC-H-RIO	-	8	8	2

Table 2. Resource Capacities.

	SEC-H-201	SEC-H-600
Reader Modules (SEC-H-R2R)	7	15 ₁
I/O Modules (SEC-H-RIO)	8	15 ₁
Total Readers	16	32 ₂
Total Digital Input/Output Points	64/64	120/120 ₂
Personnel Records	2,500	10,000
History Records	5,000	50,000
Intrusion Keypad/Display (SEC-H-INT-KP)	2	10
Cameras (DR-JAC-DED-AX, DR-JAC-AXS-4)	N/A	16

₁ Maximum of 15 modules (SEC-H-RIO and SEC-H-R2R) per SEC-H-600.

₂ Up to 32 readers or 120 I/O points, depending on module combination.

WEBs Compact Security Solution

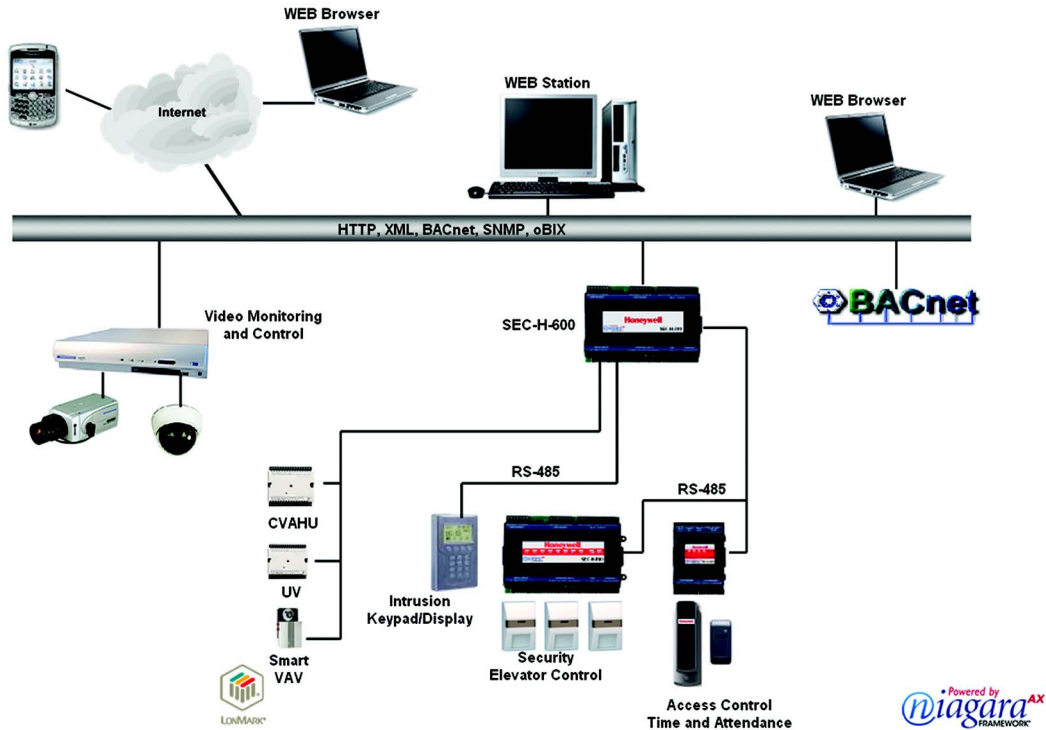


Fig. 5. WEBS Compact Security Solution Architecture.

WEBS Compact Security Solution provides a cost effective solution for integrating access control, security, video surveillance, and building automation on the SEC-H-600 platform. A Lon or BACnet Focused Driver Option Pack determines the mix of controlled devices that can be

integrated onto the platform. The embedded WEBS-AX security control application allows thin-client configuration of the access control and security functions. WEB Station software is required for configuration of the HVAC devices.

Table 3. WEBS Compact Security Solution System Capacities

	Lon Focused Driver Option Pack	BACnet Focused Driver Option Pack
LON Devices / Points (TP/FT-10)	60 Devices / 2000 Points	5 Devices / 100 Points
BACnet Devices / Points (IP or MSTP)	5 Devices / 100 Points	60 Devices / 2000 Points
Modbus TCP or RTU	5 Devices / 100 Points	5 Devices / 100 Points
SNMP (over Ethernet)	5 Devices / 100 Points	5 Devices / 100 Points
Remote I/O modules (SEC-H-RIO)	15 ₁	15 ₁
Remote Reader Modules (SEC-H-R2R)	15 ₁	15 ₁
Digital Input/Output Points	120 inputs/ 120 outputs ₂	120 inputs/ 120 outputs ₂
Card Readers	16 ₂	16 ₂
Intrusion Keypads (SEC-H-INT-KP)	4	4
Personnel Records	10,000	10,000
History Records	50,000	50,000

₁ Maximum of 15 modules (SEC-H-RIO and SEC-H-R2R) per SEC-H-600.

₂ Up to 16 readers or 120 I/O points, depending on module combination.

SPECIFICATIONS

SEC-H- 201 Platform

PowerPC 405EP 250 MHz processor
128 MB SDRAM & 64 MB Serial Flash
Battery Backup
Real-time clock

IBM J9 JVM Java Virtual Machine
Niagara^{AX}

Power Supply

NPB-PWR-UN-H: 90-263 volts, 50/60 Hz, 15Vdc power supply module, 30 watt

SEC-H- 600 Platform

PowerPC 440 524 MHz processor
256 MB DDR RAM & 128 MB Serial Flash
Battery Backup
Real-time clock

Environment

Operating temperature range: 0° to 50° C (32° to 122° F);
Relative Humidity range: 5% to 95%, non-condensing
Storage temperature range: 0° to 60° C (32° to 140° F)

Communications

2 Ethernet Ports - 10/100 Mbps (RJ-45 Connectors)
1 RS 232 Port (9 pin D-shell connector)
1 RS 485 Port (terminal block connection)

Agency Listings

FCC part 15 Class A
UL 294 Access Control Units
CSA No. C22.2 No. 205 Signal Equipment
BTL (B-BC)

Operating System

QNX RTOS

Table 4. Ordering Information.

Model	OS Number	Description
Security Controller	SEC-H-201	Includes connections for 2 Card Readers, 6 Supervised Inputs, 4 Form C Relay Outputs, and 3 Digital Inputs. Includes 64 MB RAM/64 MB Flash, (2) 10/100 Mb Ethernet ports, (1) RS-485 serial port, (1) RS-232 serial port, and 2 communication card option slots. Contains removable screw terminal connectors, and status indication LEDs. The Security Controller is designed for DIN rail mounting. Includes WEBSAX security appliance, Web UI, Niagara Network Connectivity, and BACnet Server IP.
Expanded Capacity Security Controller	SEC-H-600	Includes connections for 2 Card Readers, 6 Supervised Inputs, 4 Form C Relay Outputs, and 3 Digital Inputs. Includes 256 MB RAM/128 MB Flash, (2) 10/100 Mb Ethernet ports, (1) RS-485 serial port, (1) RS-232 serial port, and 2 communication card option slots. Contains removable screw terminal connectors, and status indication LEDs. The Security Controller is designed for DIN rail mounting. Includes WEBSAX security appliance, Web UI, Niagara Network Connectivity, and BACnet Server IP.
2 Reader Module	SEC-H-R2R	Includes connections for 2 proximity card readers, 4 Supervised Inputs, 2 Form C Relay Outputs, and 2 Digital Inputs. Contains removable screw terminal connectors, and status indication LEDs.
8 Input/ 8 Output Module	SEC-H-RIO	Includes connections for 8 Supervised Inputs, 8 Form C Relay Outputs, and 2 Digital Inputs. Contains removable screw terminal connectors, and status indication LEDs.
Power Supply Module	NPB-PWR-UN-H	90-263 V AC/ 15 VDC Power Supply Module for Security Controller, DIN Rail Mountable
Medium Security Enclosure 1	SEC-ENC-H-1	Enclosure with DIN rail, tamper switch, key lock, NPB-PWR-UN-H Universal Power Supply and capacity for user provided SLA batteries. Can enclose one Security Controller, or two Reader Modules, or one Remote I/O module. Includes Universal Power Supply. Enclosure dimensions: 17"W x 15"H x 4"D
Medium Security Enclosure 1 w/o power	SEC-ENC-H-1-NP	Enclosure with DIN rail, tamper switch, key lock, NPB-PWR-UN-H Universal Power Supply and capacity for user provided SLA batteries. Can enclose one Security Controller, or two Reader Modules, or one Remote I/O module plus one additional Reader Module. Enclosure dimensions: 17"W x 15"H x 4"D
Large Security Enclosure 2	SEC-ENC-H-2	Enclosure with DIN rail, tamper switch, key lock, and capacity for user provided SLA batteries. Enclosure includes 2 DIN rails for additional module expansion. Can enclose one Security Controller, or up to four Reader Modules, or two I/O modules. Includes Universal Power Supply. Enclosure dimensions: 17"W x 22"H x 4"D

Table 4. Ordering Information.

Model	OS Number	Description
Large Security Enclosure 2 w/o power	SEC-ENC-H-2-NP	Enclosure with DIN rail, tamper switch, key lock, and capacity for user provided SLA batteries. Enclosure includes 2 DIN rails for additional module expansion. Can enclose one Security Controller, or up to four Reader Modules, or two I/O modules plus one additional Reader Module. Enclosure dimensions: 17"W x 22"H x 4"D
Small Security Enclosure 3	SEC-ENC-H-3	Small enclosure with DIN rail, tamper switch, and key lock. Single 2 reader module-only option available for this enclosure. Enclosure dimensions: 6"W x 9"H x 4"D
Intrusion Keypad/ Display	SEC-H-INT-KP	Keypad with LCD Display for arming and disarming intrusion zones. Display provides zone status feedback to the user to ensure that zones are armed and prevent false alarms. Requires NPB-2X-RS485 communication card.
Dual Port RS-485 Option Card	NPB-2X-RS485	Dual port RS-485 Option Card. Uses one of two option card slots on the SEC-H-600. For use with Lon/BACnet Focused Driver Pack or Intrusion Keypad/Display.
WEB-600/SEC-H-600 driver for Dedicated Micros DVR.	DR-JAC-DED-AX	4 camera license and Dedicated Micros DVR driver for WEB-600 or SEC-H-600. WEB-600 and SEC-H-600 may be licensed for up to 16 cameras.
WEB-600/SEC-H-600 driver for AXIS IP Cameras	DR-JAC-AXS-4	4 AXIS IP camera license for WEB-600 or SEC-H-600. WEB-600 and SEC-H-600 may be licensed for up to 16 cameras.
Compact Security Solution		
LON Focused Driver Pack for Compact Security Solution	DR-SEC-LON	Lon Focused Driver Pack for use with SEC-H-600. Includes support for 60 LON TP/FT-10 Devices, 2000 LON points, 5 BACnet Devices (IP or MSTP), 100 BACnet Points, 5 Modbus TCP or RTU devices, 100 Modbus TCP or RTU points, 5 SNMP devices, 100 SNMP points. Requires option card for RS-232, RS-485, Lon TP/FT-10 communications.
BACnet Focused Driver Pack for Compact Security Solution	DR-SEC-BAC	BACnet Focused Driver Pack for use with SEC-H-600. Includes support for 60 BACnet Devices (IP or MSTP), 2000 BACnet points, 5 LON TP/FT-10 Devices, 100 LON Points, 5 Modbus TCP or RTU devices, 100 Modbus TCP or RTU points, 5 SNMP devices, 100 SNMP points. Requires option card for RS-232, RS-485, Lon FTT 10 A communications.
RS-232 Option Card	NPB-RS232	Single Port RS-232 Option Card. Uses one of the two option card slots in the SEC-H-600. For use with Lon/BACnet Focused Driver Pack.
Dual Port RS-485 Option Card	NPB-2X-RS485	Dual port RS-485 Option Card. Uses one of two option card slots on the SEC-H-600. For use with Lon/BACnet Focused Driver Pack or Intrusion Keypad/Display.
LON Option Card	NPB-LON	78 Kbps TP/FT-10 LON Adapter. Uses one of the two option card slots in the SEC-H-600. Required for interface to LON devices.
WEB Supervisor Video Drivers		
WEB Supervisor Video Driver for Dedicated Micros DVR	DR-SUP-DED-AX	Base 16 camera license and Dedicated Micros DVR driver for WEBs-AX Supervisor.
WEB Supervisor Video Driver for 4 additional cameras	DR-SUP-DED-4	Additional 4 camera License for WEBs-AX Supervisor
WEB Supervisor Video Driver for AXIS IP Cameras	DR-SUP-AXS-AX	Base 16 AXIS IP camera license for WEBs-AX Supervisor.
WEB Supervisor Video Driver for 4 additional AXIS cameras.	DR-SUP-AXS-4	Additional 4 AXIS IP camera License for WEBs-AX Supervisor.

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