

Security / Surveillance System
Qualifications



1425 60th St NE, Suite 100 Cedar Rapids, IA 52402-1253
Phone: 319-739-0862 Fax: 319-294-6672

Fastek provides security system engineering services, integration services and system installation at the following enterprises. These projects are provided here as a sample of system engineering and integration work performed by Fastek.

- Lancaster County Courthouse: Implemented systems for access control, surveillance and intercom.
- Harrah's Casino, Council Bluffs: Designed and installed video surveillance systems including a wireless communications interface.
- Greater Toronto Airport Authority (GTAA): Design, consulting, project management and programming for the integration of building controls, surveillance, access control, information technology and other systems.
- University of Nebraska: Integrated campus wide surveillance system and implemented Fastek proprietary software for communications between access control, emergency blue phones and surveillance cameras.
- University of Nebraska Medical Center: Design, install and service video surveillance and access control systems.
- PayPal / EBay: Design, installation and service of video surveillance and access control systems.
- Ryan Construction: Providing engineering consultation services for systems integration requirements and planning for security and surveillance systems used in federal courthouses.
- Vicon/Hirsch System Integration: Created Vicon and Hirsch system integration through software interface development under contract from Vicon.
- Zorinsky Federal Building: Designed, installed and serviced system for access control and surveillance in Omaha, NE.
- Oshawa Airport: - Using expertise in Systems Integration, Security Systems, and Data Integrity, Fastek designed and implemented a solution that integrated the Software Solutions Key-Z metal key tracking system to the Software House C-Cure Access Control System. User information was synchronized between the data bases of the two security systems.
- Ankeny, Iowa Police Headquarters: System design and implementation (in process) for access control, audio recording and surveillance. This includes the design and installation of A/V recording equipment in interview rooms.
- Daytona Beach, Florida Police Headquarters: System design and implementation (in process) for access control, audio recording and surveillance. This includes the design and installation of A/V recording equipment in interview rooms.
- AegonUSA: Designed and installed an enterprise-wide IP video surveillance systems for high security in at this large financial and insurance company.

A Selection of BAS Integration Projects and Capabilities

Using standard or proprietary protocols: BACnet, LonWorks, OPC, TCP/IP, WAP, XML, web services...

Sub-Systems within a BAS

Integration of Industrial Boiler Control to BAS via OPC
Integration of 11 building sub-systems into a BAS via LON, Modbus, OPC and BACnet
Integration of LON based fan controllers to BACnet
Integration of Boiler Control to BAS via LON
Integration of Chiller Controls and Fan Controls to BAS

Systems within a Building

Access Control Integration of Card Access with Intercom System
Integration of Card Access with custom designed Employee Badging system
Integration of Card Access with BAS and Maintenance Management System
Integration of Card Access with Security Camera and Baggage Handling systems (airport)
Integration of Card Access with Security and Carpark systems

Energy Integration of electrical and gas monitoring meters to BACnet based BAS via FAS-BAC

Development of consumption data collection and reporting system
Tenant Energy Billing System
Shadow Billing System to verify Utility Invoice

Telephony Paging Interface for BAS alarms
Telephone Interface for BAS alarms and override control

Com. Network Fiber Optic Backbone for use as common Data Highway and Integration method

Switches for Fiber Optic Networks
SNMP Interface for BAS Supervisory Controller

Systems in Retrofit or Expansion

Integration of BAS Mfg. # 1 to BAS Mfg. # 2
Integration of BAS to BACnet
Integration of older version BAS to newest version BAS (same Mfg.)
Enhancement of older BAS to today's standards and features

Third party BACnet/LON connectivity

WEB enabled access to Building Systems

Web enabled phone and PDA interface to BAS

Design of the Web-based interface to collect and manage HVAC & energy information

Web based User interface for BAS

Design of XML/Web Services applications

Design and build customer specific dashboard applications

Business Systems Integration to Building Systems

Automated Interface between Energy Consumption and Accounts Payable

Interface between Hotel Property Management System and BAS (BACnet based)

Merge of employee Card Access records with payroll system (AS-400)

Automated Interface between HR system and Door Access

Security Video Systems

Interface between new and existing video security systems (airport)

Integration of video security system to fire alarm, burglar alarm, emergency call box.

Integration of camera system to BAS, FMS, equipment alarms

Installation of video security system for football stadium

Installation of surveillance camera system for University and Casino

Installation of security video system for R&D facility

Additional Interesting Projects

Process Control Integration of SCADA systems to BAS

Integration of GE Cimplicity to MachineXL vibration analysis

Consulting Feasibility of integration with various BAS

Assist in response to detailed systems integration RFI/RFQ

Design fiber optic network for security camera & "intelligent building" systems

Generation of BAS application engineering manuals