Enterprise Buildings Integrator™

Honeywell

Honeywell Enterprise Buildings Integrator™ *An integrated facility management solution.*

PRODUCT FEATURES:
- The complete solution for the safety and comfort of your people and the effective operation of your buildings
- Provides an "enterprise view" that goes beyond traditional building automation, fire, and security systems
- Fully UL listed to provide authorized operators with 2-way command/control of any subsystem from any listed station
- Allows full interaction between applications to minimize risk to personnel and assets, maximize personnel productivity, and optimize system and equipment efficiency
- Operator segregation allowing access only to data and information appropriate for the specific user
- Fully scalable from a single application and controller, to enterprise integration with multiple applications and servers distributed across the Ethernet LAN and WAN
- Migration platform for a wide range of Honeywell legacy products including Excel Building Supervisor (XBS), Excel Building Supervisor Integrated (XBSi), DeltaNet Excel Plus, MicroCel, MacroCel, Excel Classic, FS90/FS90 Plus, Delta 1000 and Delta 2000

APPLICATIONS:
- Enterprise-wide, Integrated sequences of operation allow events in one subsystem to automatically and directly trigger events in another system. Example:
  - Tenant activates Fire Alarm pull station
  - EBI initiates digital video recording and captures the pre-recorded video leading up to the event
  - Doors are unlocked allowing safe egress while presenting live video to maintain facility security
  - HVAC initiates proper fan pressurization control for smoke control system operation
  - Instruction pages and system information is presented to the various operators to manage risk and follow proper emergency procedures
- Emergency and routine situations handled with maximum efficiency by bringing the right information together at the correct decision point

*Go to: **www.honeywell.com/ebi** for additional information regarding our powerful software applications.*

W7054A UL Listed EBI Server
Specification Data 74-3201
- Single or dual Intel Xeon processors at up to 3.2 Ghz clock speed
- 12 GB SDRAM (max)
- 584GB Internal HD storage (max)
- 10/100/1000 Gigabit on-board Ethernet
- Embedded SCSI and RAID controllers
- CD/CDR/DVD and tape backup options

Open System Integration – *EBI supports multiple industry standard communication protocols to allow enterprise-wide monitoring and control from a single client workstation.*

PRODUCT FEATURES:
- Client and server support for BACnet, LonWorks, OPC, Modbus, and Advanced DDE
- BACnet and OPC discovery mechanisms to simplify engineering and configuration

APPLICATIONS:
- Monitoring and control of third-party HVAC central plant and unitary equipment, industrial controls, and other systems utilizing Open System Communication Protocols
- Monitoring third-party Life Safety systems
- Integrated system sequences of operation
- History collection, trending, and global scheduling of third-party open systems

Experion Process Knowledge System™ (PKS)™ Integration – *Unlocks benefits via a unified, collaborative and open architecture that integrates seamlessly to deliver a single operator environment for plant control, life safety, HVAC, digital video and security.*

PRODUCT FEATURES:
- Harnessing the power of Honeywell's patented Distributed System Architecture (DSA), EBI lets you achieve this convenient and seamless single operator interface without complex engineering, database management or sharing
- Reduces training, maintenance and administration costs by employing the same tools for creating graphic displays (for building systems and process control), configuring points and all system configurations
- Supports implementation of occupational health and safety polices
- More effectively leverages your systems investment

APPLICATIONS:
- Integrates and controls a plant's HVAC, lighting, hydraulics and energy usage
- Provides primary monitoring and control of plant's life safety systems with integrated response prompting and tracking capabilities, for exceptional incident management and regulatory compliance
- Integrated access control provides site mustering capabilities to automatically track employees during emergency evacuation situations

Enterprise Systems Integration
Share information with personnel, office and financial system databases.

PRODUCT FEATURES:
- PeopleSoft and SAP Integration to EBI Cardholder Management System (CMS) database for database synchronization periodically or on demand
- Generic Cardholder Object Model (CHOM) database integration interface option
- Open Database Connectivity (ODBC) support allows read-only access to EBI point, history, and event data for third-party system analysis and reporting

APPLICATIONS:
- Changes made to personnel information in the HR database are automatically sent to the EBI CMS to update area and equipment access information
- Events in the EBI CMS sends information to the HR system for time and attendance or after-hours billing reporting for energy and services

Distributed System Architecture (DSA)
Provides centralized monitoring for geographically distributed systems, and scalability for large enterprise systems.

PRODUCT FEATURES:
- Integrate multiple servers each performing a different application: HVAC, Security, Life Safety, Industrial Control
- DSA for points and DSA for cardholders allows Operator Client Stations consistent access to both local and remote points and cardholder data
- Extends the capacity of a single server solution to support additional points, channels, and controllers
- Utilizes Windows 2000 Server

APPLICATIONS:
- The HVAC system and security system operate independently, and share data to optimize occupancy scheduling, lighting, and energy management strategies based on information from both systems
- Cardholder data may be managed from a single client on a single server in a "Traveling Card" concept allowing cardholders to move between sites

EBI DSA Server

EBI DSA Server

Intranet and Internet Access
Connectivity options allow access from anywhere in the world via HMIWeb Client and Browser Stations, or Web page access via Web Toolkit and Web Point Control optional interfaces.

PRODUCT FEATURES:
- HMIWeb browser station utilizing Microsoft Internet Explorer (IE) provides full client access with operator permissions and area segregation enforced
- EBI systems with TCP/IP network access and the network server option may also utilize Web Toolkit pages with Active X controls for analog and status point monitoring and control
- Web Point Control utilizes Java Applets to allow status point control and allow users to define schedules up to one week in advance

APPLICATIONS:
- Users away from the office may access their EBI system using VPN, or through a thin client access over the internet to check system status, issue commands, respond to alarms, or request reports

HMIWeb Client Browser Station

Internet Explorer Web Toolkit

Network Firewall

Primary Ethernet Network

Redundant Ethernet Network (optional)

Corporate Intranet, VPN, or WAN

Wide Area Network/Internet (WAN)

Local Area Network (LAN)

Redundant LAN (optional)

Excel Life Safety Sensors

	Model	Type	Features
SMOKE	TC806	Photoelectric	• Low-profile design, low current draw • Tamper-resistant wiring base • Integral insect resistant screen to reduce nuisance alarms • Dual LEDs provide 360-degree viewing • Optional remote LED annunciator • Built-in test mechanism
SMOKE	TC807	Ionization	
HEAT	TC808	Thermal 135° ROR/FT 190° FT	• Thermistor sensing circuit for fast response • Rate-of-rise detection model available • Dual sensor LEDs provide 360-degree viewing • Modern low-profile design • Compatible with Honeywell CLIP and FlashScan loop transmission
SPECIAL APPLICATIONS	TC840 Acclimate	Multi-Criteria Photoelectric Thermal	• Automatically optimizes performance for each installed location • Continuous monitoring of detector sensitivity • Digital pulse-width encoded communication with noise immunity • Compatible with Honeywell CLIP and FlashScan™ intelligent
SPECIAL APPLICATIONS	TC844 Filtrex™	Harsh Environment Photoelectric	• High-density Filtrex™ filter eliminates the need for sensor cleanings • Filtrex™ filter self-monitors clogs and reports a trouble condition at the panel when replacement is needed • Two sensor LEDs provide status indication at the control panel • Provides rotary-decade switches to set sensor address
SPECIAL APPLICATIONS	TC846 Pinnacle™	Ultra-High Sensitivity Laser Smoke Detector 0.02% - 2.00%/ft Obscuration	• Fast response to detect very early particles of combustion • Ultra-high sensitivity capability • On-board drift compensation • Transient rejection algorithms • Environmental tracking • Wide sensitivity range
MODULES	TC809D1004 TC809A1059 TC810R1024 TC810N1013 TC811A1006 TC809B1008 TC841A1000 HAZM-8 HFAN-C	Dual Input Monitor Module Intelligent Monitor Module Relay Module Control Module Intelligent Isolator Module Intelligent Mini-Monitor Module 2-Wire Interface Module 2-Wire Interface Module Fan Control Module	
ANNUNCIATORS	ACM-16AT ACM-32A SCS-8 LDM-R32	16 push button inputs and 32 LEDs 32 LEDs 8 x 3 position switches and 8 x 3 LEDs 32 relays	

- Enterprise Demand Management is sold as an option to the base system
- Enterprise Load Management and Advanced Energy Modeling options are sold as options to Energy Manager Foundation

*** Tailored Solutions Available for:**
- Rates analysis
- Tenant billing
- Energy (electric, gas) and thermal (heating and cooling) load forecasting
- Real-time-pricing (RTP) based control
- Data import and export
- Equipment modeling and optimization
- Measurement and Verification (M&V) and operations reports

System	Description
Base System	Includes 50 Meters
Adder 1	10 Meter adder to Base
Adder 2	50 Meter adder to Base
Adder 3	100 Meter adder to Base
Adder 4	250 Meter adder to base
Adder 5	1000 Meter adder to base
Options	
Load Management	Adder to Base
Weather Data	Adder to Base

HVAC Controls

Security and Access Control

Fire and Life Safety Systems

CCTV & Digital Video

Asset Tracking

Energy Applications

Honeywell, Enterprise Buildings Integrator (EBI), EXCEL 5000 OPEN, Excel Building Supervisor (XBS), Excel Building Supervisor Integrated (XBSi), Excel Plus, Excel Classic, Excel 500, Smart Excel 500, Excel 50, Excel Security Manager (XLS/XLS1000), Excel Life Safety, Delta 1000, Delta 2000, Intelliguard 9000 (i9000) and DeltaNet FS90 are trademarks of Honeywell International, Inc. All other brands are trademarks of their respective companies.

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