

West Cheshire College Integrated Building Technology

John Hamilton Honeywell Critical Infrastructure Protection 13th July 2011

Honeywell



Honeywell Today



 A Fortune 100 company – \$38.0B in sales

Diverse Businesses, Technologies and Products



ACS Overview

\$14.6 Billion in Sales 60,000 Employees 1,000 Facilities

- Safety
- Security

- Comfort
- Convenience

- Productivity
- Energy Efficiency



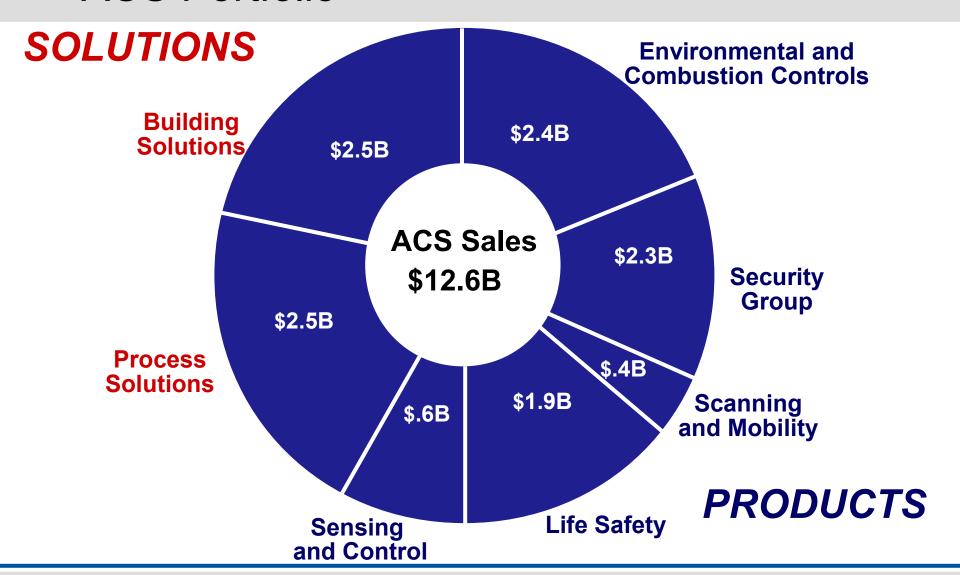




Positioned To Capitalize On Key Trends



ACS Portfolio





Who is Honeywell Building Solutions?

Honeywell Building Solution (HBS) is a leading provider of technical solutions and services.

- Design, Installation, Commissioning and Service:
- Fire and Security
- Building Management
- Energy
- Networks Solutions
- Refrigeration Systems
- Managed Services
- Managed Services Networks

Innovation

- Leading global provider of integrated building solutions.
- Deliver measurable value to our customers.
- Open systems.
- Ground breaking solutions









Using technology to drive operation



Maximising profitability

- · Revenue generation
- · Operational efficiency



Rapid response to incidents

- Safety
- Security
- · Crowd control



Enhancing the experience

- Spectators
- Visitors
- Participants



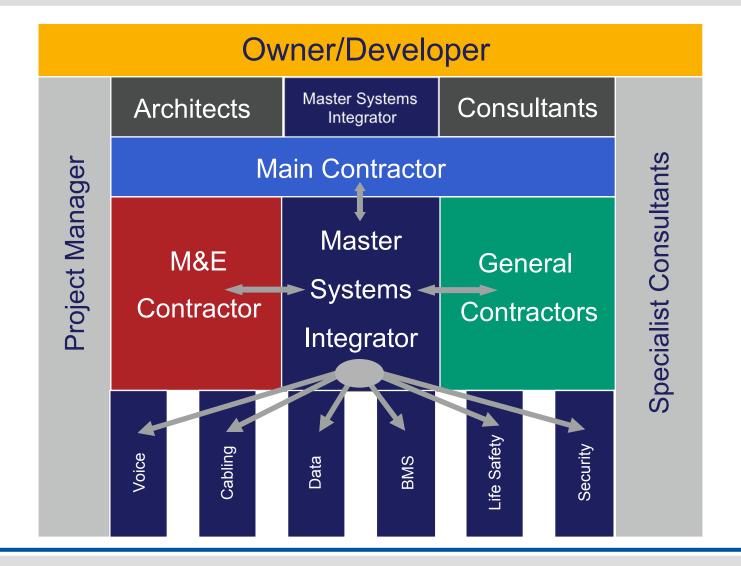
Complying with legislation

- · Public Safety
- Environment
- · Sports Governing **Bodies**



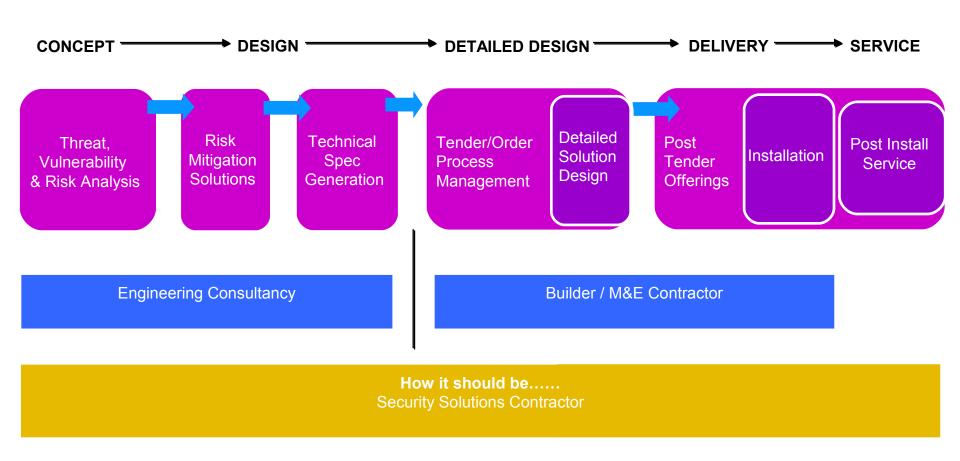


Stakeholder Relationships





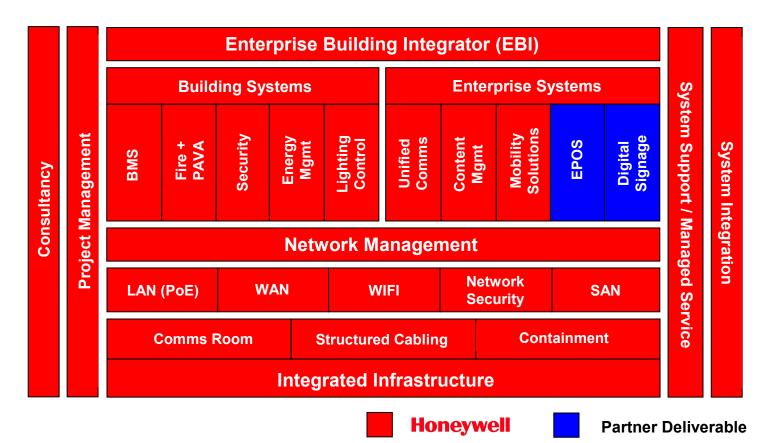
Security Delivery Chain



Responsibility during project lifecycle



Integrated Delivery



Honeywell Assumes Role of Master Integrator at West Cheshire



Global Functional Specification

- 3 Scope of Supply and Responsibilities
- 3.1 Scope of supply
- 3.1.1 Honeywell

3.2

Responsibilities

- 3.2.1 Honeywell
- 3.2.2 Contractor / Customer / Consultant
- 4 Basis of Design
- 4.1 Reference Documentation
- 4.1.1 Consultant/Contractor Documentation

4.1.2

Honeywell Documentation

- 4.1.3 Project Specific Documentation
- 4.2 Revision Control
- 5 System Architecture 5.1

Network Infrastructures

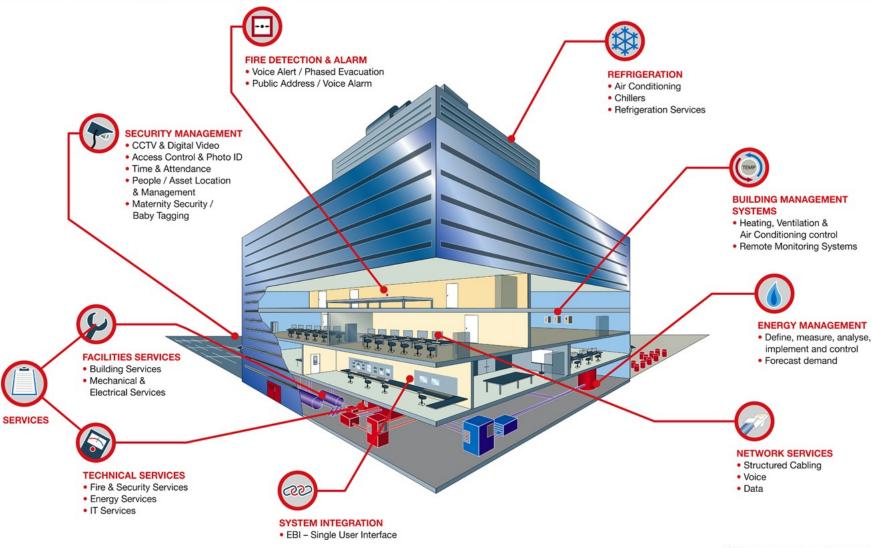
- 5.1.1 System Overview
- 5.1.2 System Description
- 5.1.3 System Settings





THE TECHNOLOGY SOLUTION

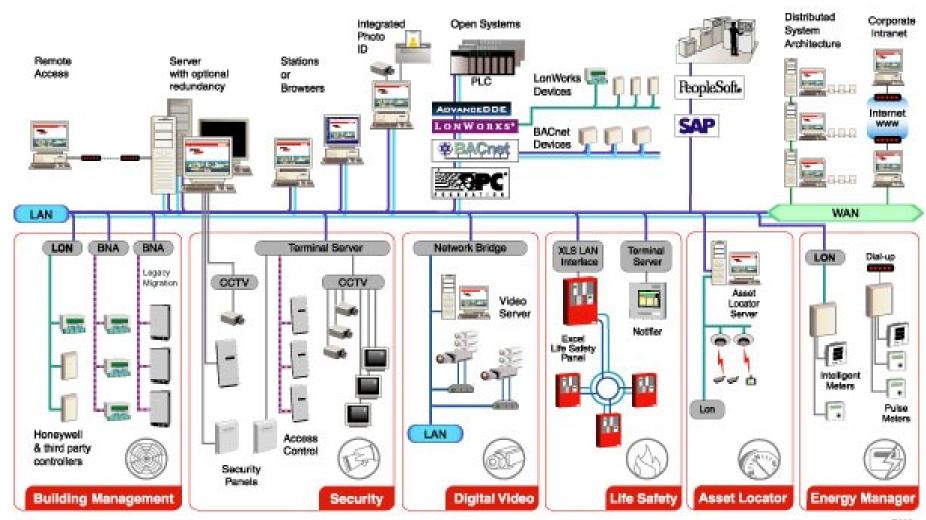
Delivering technology solutions from design to commission through to service



Honeywell



Part of the offerings





Integrated Systems – Example





West Cheshire College Integrated Building Technology

- 1. Structured Cabling
- 2. Switched Data Network
- 3. Wireless Data Network
- 4. HVAC
- 5. Life Safety systems
- 6. Access Control
- 7. CCTV
- 8. Intruder and Hold-up System
- 9. Lighting Control
- 10. Building Systems Integrator
- 11. Unified Communications
- 12. IPTV and Video on Demand
- **13. RFID**

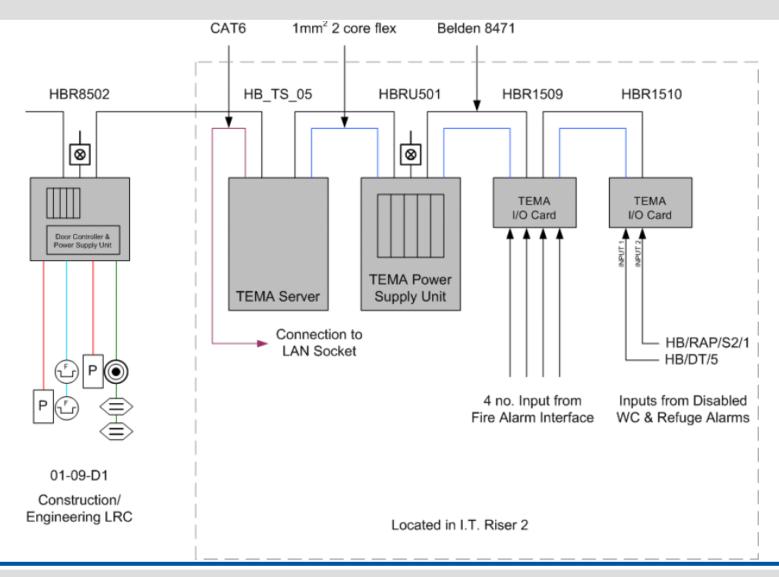


Access Control

- Monitor and control exit and entrance doors
- Log all transactions through all controlled doors
- Front end system to add, delete and modify users
- Live geographical layouts show how many persons are present in each learning area
- Read-in: Push button out or Read-in: Read-out can be configured
- Proximity readers using the Wiegand protocol are installed and both HID cards and fobs are being used
- Magnetic locks used that can withstand up to 5kN force
- Emergency links to the Fire Alarm system to unlock doors
- TEMA servers connect to the IP network and to the EBI
- TEMAline devices connect to the server on a LONworks bus
- Each TEMA server has its own PSU and battery backup



Access Control





Access Control

EBI Graphical information includes:

- Live status of each access control door.
- Modification and addition of card holders.
- Creation and implementation of access rights, groups and time periods.
- Manual control of individual access control doors.
- Event logging with respect to individual card holders with time/date stamp.
- Alarm management.
- CCTV image
- Last transit identification, including picture of card holder
- Area occupancy, including cardholder in area information



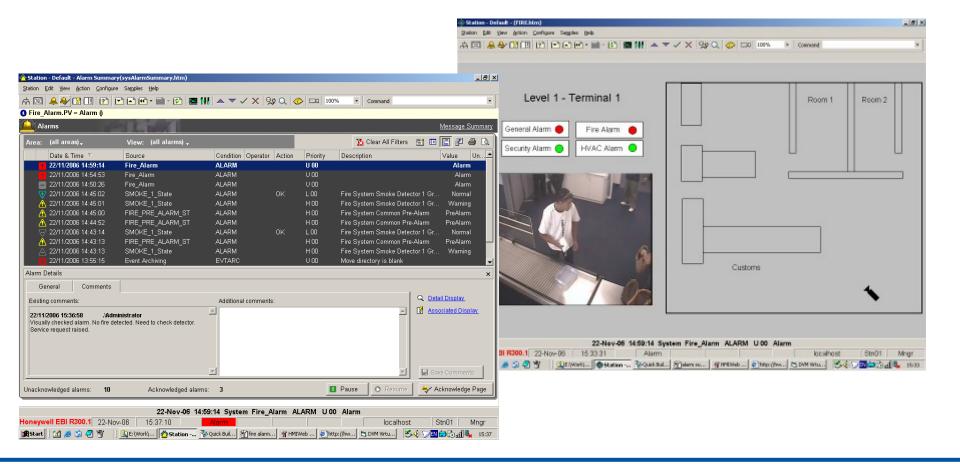
Security Management System





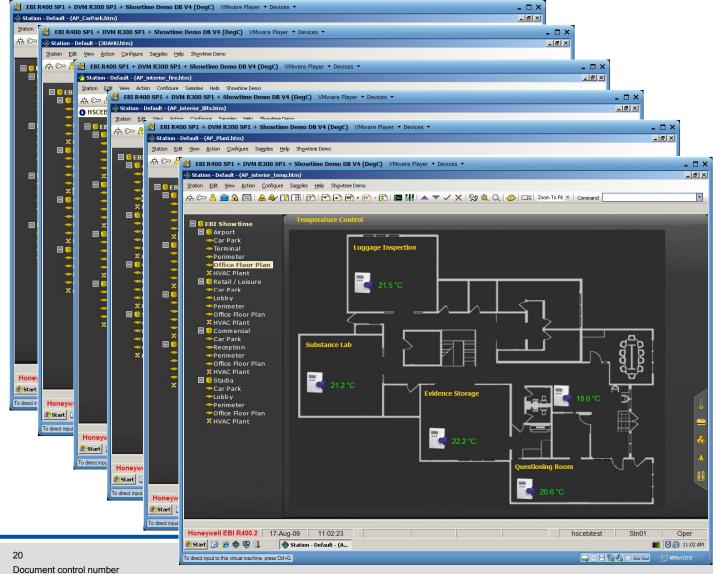
Incident Management

 Data is represented in a consistent manner and all can be viewed from a single location: determining a sequence of events is made much easier.





Graphical User Interface





Monitoring Functionality

Summary of Features

- Smart trap management and SNMP polling (including SNMP V3) to reduce network bandwidth and resource utilization.
- Powerful root cause analysis and false positive elimination.
- Smarter alerts for operators
- Total flexibility independent of hardware or software vendor.
- Fault and event storm management.
- Stateful event correlation.
- Scalable client-server, multi-threaded architecture.
- Service Level Agreement (SLA) compliance monitoring.
- Seamless integration with industry standard software such as HP Openview.
- Any IP based devices can be monitored dependant on capabilities.

Reduced Capital Costs



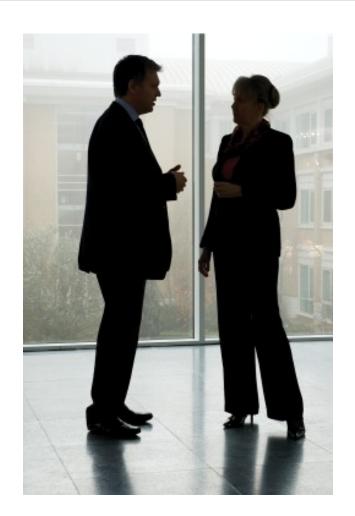
Technology as a fundamental part of an Education College business strategy:

- Integrated design approach, allowing efficient design development & faster implementation
- One common infrastructure more efficient deployment of new systems
- Cost savings on installation incl.
 leveraging use of cabling infrastructure
- Common upgrade path / centralised management systems
- Building flexibility to suit tomorrow changing requirements



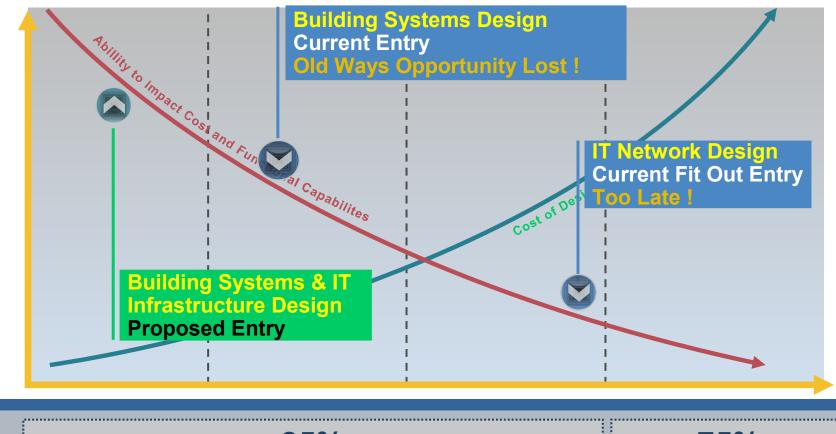
Benefits of a 'Integrated Solution'

- Cost reduction opportunities
 - CAPEX (Construction) savings
 - OPEX savings
- Revenue enablers
 - Connectivity/mobility
 - Advertising
 - Tenant services
- Customer / employee enhancements (NFP organisations)
 - Enhanced Customer experience
 - KPI management





Change the Way we Design, Build, Operate, and Use Real Estate







Questions

Questions

Or for any requests for information please contact;

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