

BuilConnTM



Convergence and Correlation

Security in the Smart Building

Robert P Frazier
Security Solutions
Manager
IBM

- Traditionally Locks and Alarms
- Like IT systems, physical security is evolving
 - Digital surveillance
 - Access Cards
 - Biometrics
- All these elements produce data

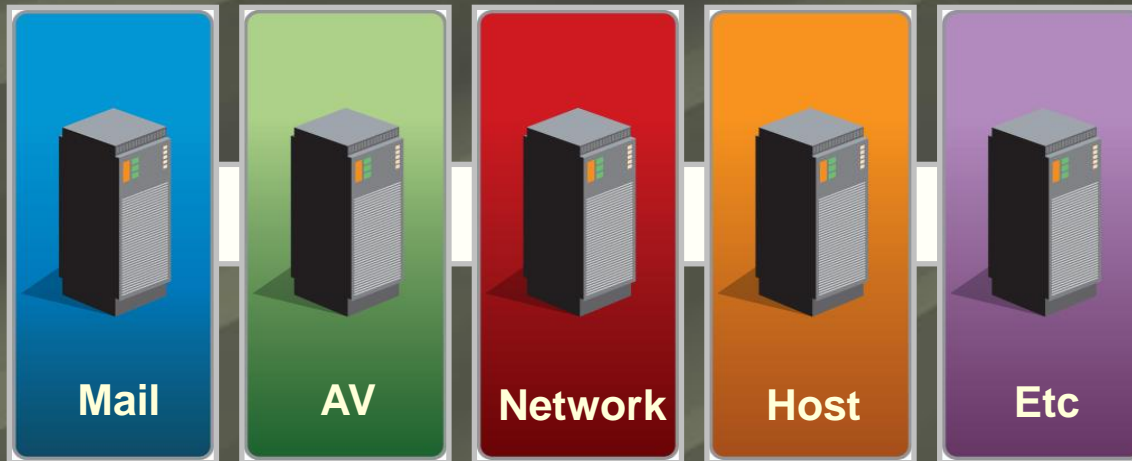


- Traditionally Network Centric
 - Firewalls, Routers, Switches
- Evolved into Enterprise Security
 - Host security
 - Identity Management
 - Desktop Security
 - Vulnerability Management
 - Traffic Anomaly Measurement
 - VoIP
 - Appliance based vice software



Silo Security

- Point security for specific issues
- Security data not Integrated
- Hard to get a true security picture
- Hard to integrate and maintain



- Building Convergence
 - TCP/IP enable sensors and controllers
 - Web enabled controller devices
 - Sensors and controllers are nano devices controlling environments
 - Leveraging TCP/IP infrastructure
- Complicates the security picture



- To converge silo security, IT vendors developed correlation engines and management consoles
 - ArcSight
 - Tivoli Security Operations Manager (TSOM)
 - CA
 - Cisco Mars
 - IBM X-Force engine
- Manages diverse devices and correlates data



- Physical security convergence
 - Digital video converted into searchable image data
 - Correlated with card access and biometric data
- Next logical step
 - Converge with logical data
 - ID management



- All security systems monitored all the time
 - Logical security framework extended to protect building controls
 - Correlation of events logic and physical to produce data
 - Controllers, computers, cameras, card-access,
- Move from silos to true pervasive security system
- Move from collected data to actionable information



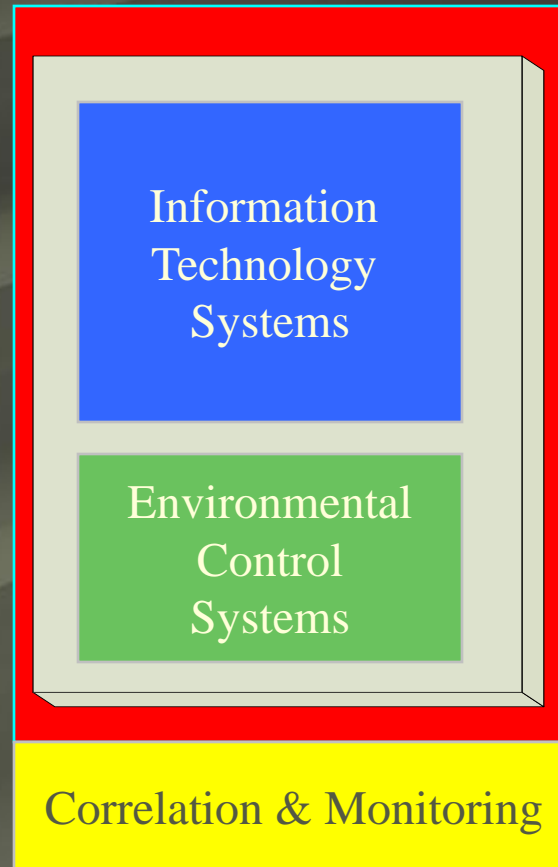
Building Security Convergence

Physical Security

IT systems and
Networks

Environmental
Control Systems

Building



Benefits of Converged Security

- Tighter integration of physical, logical, and environmental systems
- Continuous information about building for efficient management
- True knowledge through event monitoring, correlation, and analysis



Thank You

- Rob Frazier
- 325-695-7238 Lab
- 325-665-4131 Mobile
- securityguru@us.ibm.com

