

# Information Security Guidance for Enterprise Transformation

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# Problem

## How to address information security when planning enterprise transformation?

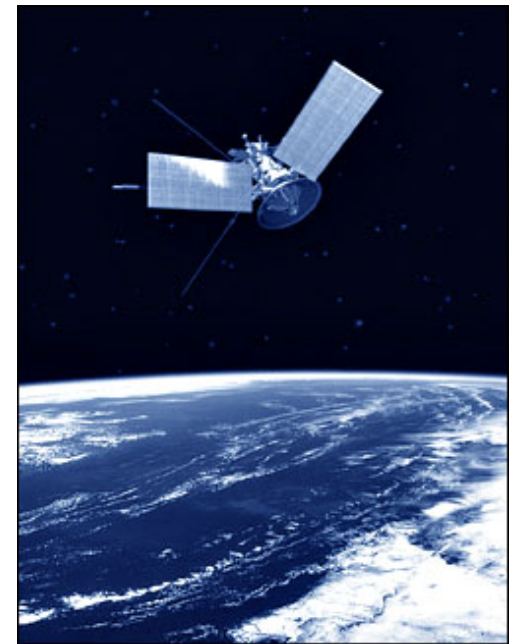
- Urgent need for enterprise transformation across MITRE sponsor base
- Information security high priority
- Focus is typically on system level
- Security insufficiently addressed at the enterprise level
  - Business requirement! Responsibility ultimately remains at the executive level
  - Inappropriately delegated to systems security specialists



# Background

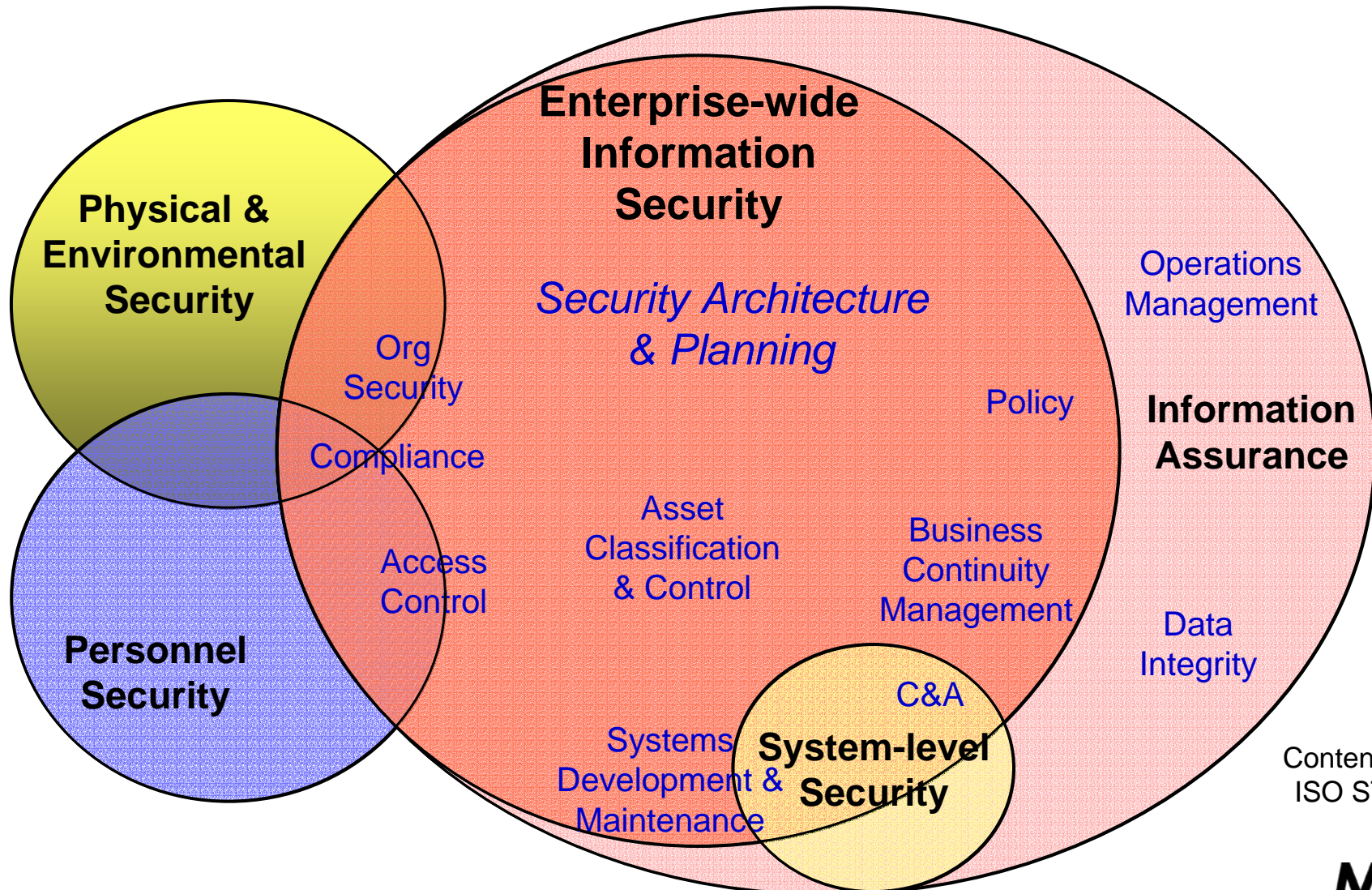
**Information security is a fiduciary responsibility that transcends financial issues**

- **Business and government now operate as global communities**
  - Shared resources and integrated operations
- **Critical dependence on ubiquitous computing and networking**
- **Information has become the primary asset**
  - Dangerous in the wrong hands
  - Must be managed on the enterprise level
- **Information security management currently immature**
  - Assurance typically focused on system level
  - Responsibility delegated to experts
  - Strategic planning deferred until too late



# Objective

## Establish Information Security Guidance for Enterprise Transformation



Content based on  
ISO STD 17799

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# Activities

- **Research and compile resources for enterprise-wide security**
  - **Government legislation and related guidance**
  - **Research results related to information security and architecture patterns (MTP and industry)**
  - **Case studies of information security requirements from sponsor projects**
  - **Best practices and solutions**
- **Publish management and technical guidance**
  - **Architecture approaches and representations**
  - **Acquisition guidance for allocating requirements across projects for integrated security management**
  - **Practical Guide to Enterprise-wide Information Security Architecture**

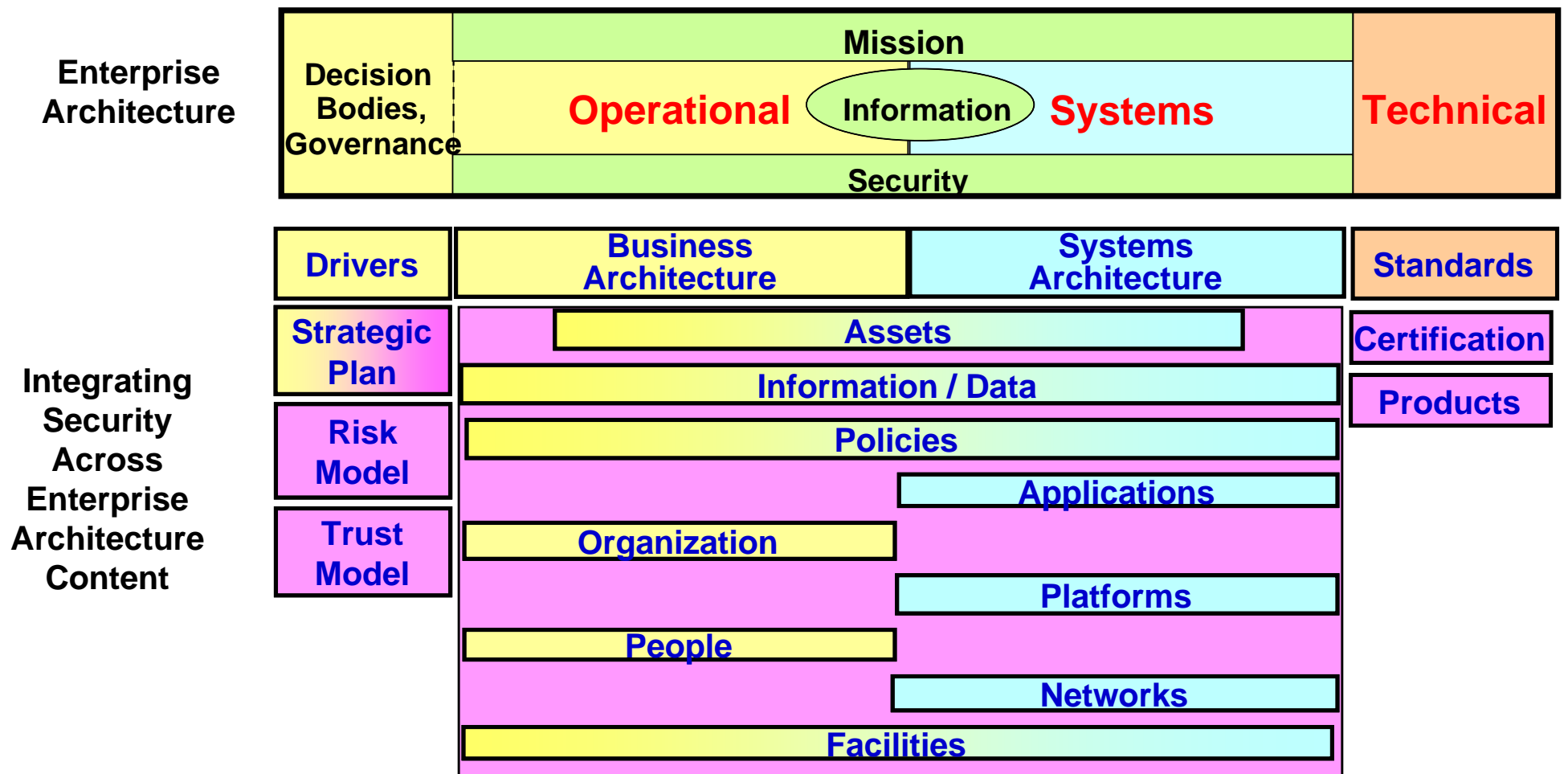


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# Highlight

## Enterprise Perspective of Security Architecture



Operational

System

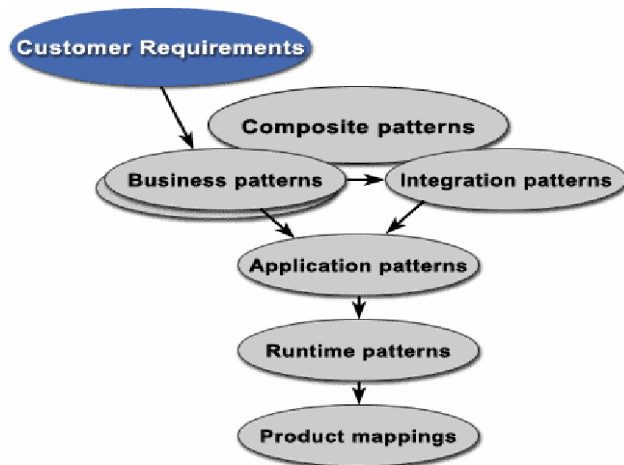
Technical

Security

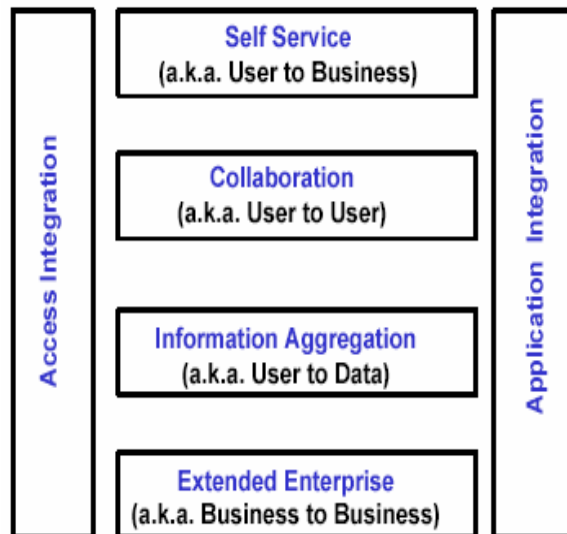
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# Highlight

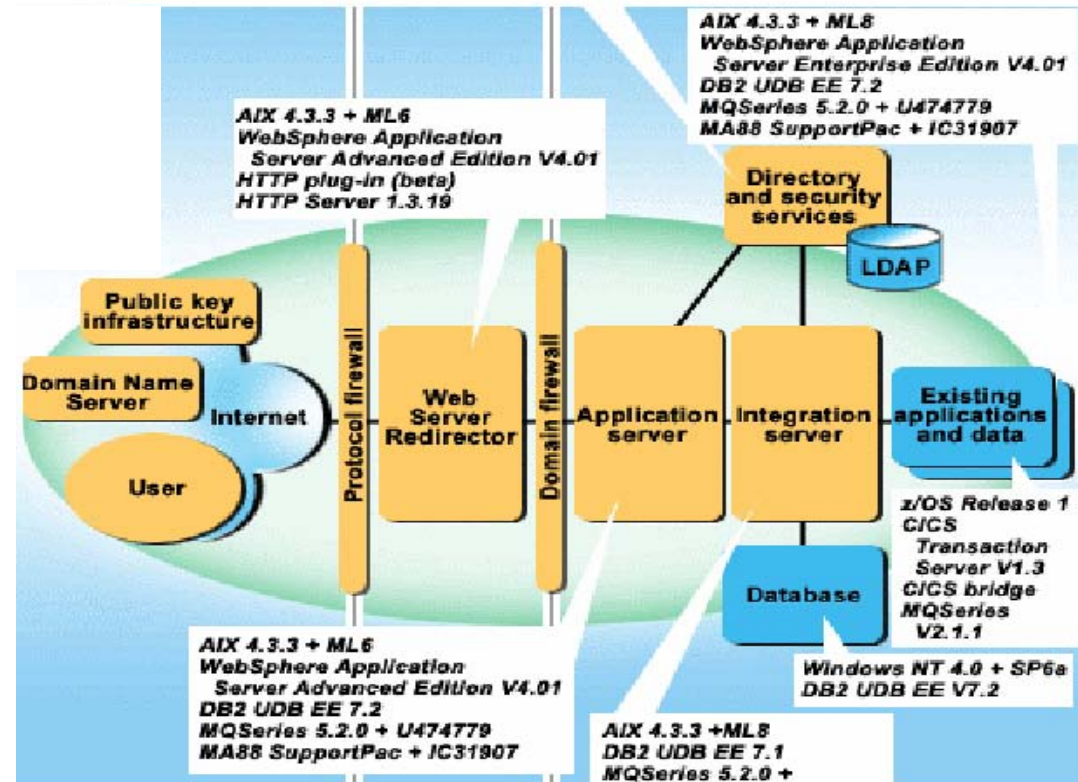


## Pattern Categorization



## E-Business Patterns

# Leveraging Enterprise Architecture Patterns for Security



## Example Composite Security Architecture

Source: Guru Vasudeva., Architecture Center of Excellence, Federal IBM Global Services

# Impacts

- **Capture and disseminate best practices in enterprise-wide information security:**
  - **Pragmatic methods for addressing information security architecture needs**
  - **Common vocabulary and approach to security architecture development**
- **MITRE sponsors will more effectively and efficiently:**
  - **Plan and manage their security operations and systems**
  - **Reduce security risks across their organizations**
  - **Enhance the integrity of IT and business systems**
  - **Reduce time to delivery of new capabilities**

