Military Roles in Response to the Terrorism Threat

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Traditional Military Roles

- Provide for the Defense of the Country
- Protect National Interests Abroad
- Support Civilian Agencies During National Emergencies
- Posse Comitatus Act
  - Limitation on Use of the Military as a “Civilian Police Force”
Military Response to Sept 11 Attacks

- Immediate Deployment of Aircraft and Ships
  - Air Patrols over New York, Washington
  - Surface Combatant Ships Deployed Along East Coast of US
- Interactions with FAA to Coordinate Air Picture
- Coordination with Local Civilian Agencies
Military Response Subsequent to Sept 11

- Operation “Enduring Freedom”
- Northern Command Created to Centralize Military’s Role in Defense of U.S.
  - “Defend the American People Where They Live and Work---Functioning in a Supporting Role to Civil Authorities” (Secretary of Defense Donald Rumsfield, April 17, 2002)
- Operation “Iraqi Freedom”
Operation Iraqi Freedom

Launched on 20 March; Baghdad taken 10 April

Key Elements to Success

- Mobile Force
- Precision Guided Weapons
- Command and Control
- Logistics
Key Issue in Aligning Military and Civilian Resources

- Definition of an Overarching SE Process that Provides
  - Means to Protect Sensitive Military Information While Sharing Significant Information on Activities of Terrorist Organizations
  - Integration of Multi-Source Intelligence and Sensor Data to Provide a “Coherent Operational Picture”
  - An Integrated Data Base Approach to Support Military and Civilian Activities
  - Alignment of Multiple Levels of Command and Control
  - Effective Allocation of Resources
Capability-Based System Acquisition

- Warfare Capability Analysis
- Portfolio (SoS) Investment Analysis
- Transformation Roadmap
  - “As-Is” Architecture
  - “Vision” Architecture
  - Transformation Roadmap

Capability-Based System Acquisition Process (Conceptual)

- (Current) Architecture
- Strategic Vision
- Evolutionary Acquisition (Block 1)
- Initial Operational Capability
- Incremental Operational Capability
- Final Operational Capability (Block 3)
- Technology Refresh

- “As-Is” Architecture
- “Vision” Architecture
- Transformation Roadmap
Capability Engineering Process

Operations Analysis

Current Architecture “As-is”

Capability Engineering

Investment Analysis

Strategic Vision Development

Vision Architecture

Capability Transformation Roadmap

Evolutionary Acquisition

System Block 1 (IOC)

System Block 2 Interim Capability

Iterative System Engineering Activities
Summary

- Military Assets Play a Vital Role in Responding to the Terrorist Threat
  - Need to be Appropriately Aligned and Coordinated with Civilian Agencies
- An Overarching SE Process is Needed to Provide the Basis for Coordination/Integration of Multiple Agency Assets
  - The DoD C4ISR Architecture Framework has been Successfully Applied by the Navy to Similar Requirements
  - An Integrated Engineering Environment has Also Been Successfully Deployed to Support the Navy Process