Space and Missile Systems Center

Enterprise Ground Services (EGS) Development

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Enterprise Ground Services

- **Vision:** Implement an Enterprise Ground Services Architecture enabling AFSPC to fight and win a war that extends into space
  - Provide the space warfighter with secure, flexible and adaptable situational awareness and command and control capability
    - EGS is *not* a new TT&C system
    - EGS enforces standards and interfaces to re-host existing TT&C software as services in shared infrastructure
Enterprise Space Operations – Desired End State
EGS Top-Level Strategy

**Phased Transition of Key Elements**

**Warfighter Objective**
- Train personnel to fight and win in space
- Improve Warfighter Effects
- Enable battle management and resilience options to “fight through”
- Optimize resources across space mission operations

**Acquisition Objectives**
- Create standards to establish government control and ownership of the technical baseline
- Consolidate common functions and automate common and repetitive satellite C2 tasks
- Make space derived products, data and information services more accessible to innovators, battle managers, analysts and operators at the tactical edge
- Make tasking and response more dynamic
- Exploit synergies to fight with space
- Optimize for cyber security and resilience
- Provide flexible, adaptable, and defensible satellite control operations

**Elements Affected**
- Consolidate TT&C
- Expose Data
- Optimize Mission Mgmt
- Modernize & Optimize Networks

**Enterprise**

**Phased Approach**
EGS Deliverables
EGS Architecture Layers

Open Systems, Layered Architecture

- Thick Clients
- Enterprise Presentation Layer
  - Presentation Interfaces and Process Automation Layer (UX, Workflow)
- Shared Mission Services
- Enterprise Middleware Layer (Deployment & Communication Standards)
- Mission Unique Applications
- Enterprise Service Bus (Service Model, Messaging, Application Security, Protocol Binding, etc.)
- Infrastructure Services
- Security Services
- Enterprise Services Layer
  - Management Services
  - Data Abstraction Layer (APIs, Virtualization)
- Common Ops Center Infrastructure
  - Configurable Communications Infrastructure
  - Gov’t Prescribed Interface
  - Procured Component

Owning Technical Baseline

Cross-Mission Products & Services

Common Operations Center Infrastructure

Integrated Cyber Protection