Space and Missile Systems Center

Enterprise Ground Services (EGS) Overview

SMC/AD
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Key Drivers for EGS
AFSPC Commander’s Intent

• Prepare for Tomorrow’s Fight
  – Increase enterprise resiliency and capability
  – Enable airmen to focus on advanced skills
    • Increase automation of routine tasks
• Provide robust common ground platform for commanding & data sharing
  – Training and operations efficiency
  – Enhanced situational awareness
  – Mission ops in challenging environments
• Avoid costly new ground system developments
  – Align with upcoming recapitalization cycles
  – Leverage open systems architecture – sustainable, responsive
• Foster rapid capability development
  – Promote greater competition – no single vendor controlling the architecture
  – Leverage government and commercial precedents
EGS Long-Term Objectives

Phased Transition of Key Elements

Key Objectives

- Consolidate common functions and automate common and repetitive satellite C2 tasks
- Establish government control and ownership of the technical baseline
- Make space derived products, data and information services more accessible to innovators, analysts and operators at the tactical edge
- Make tasking and response more dynamic
- Optimize for cyber security and resilience
- Optimize resources across operating domains
- 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 Fielding Strategy

- Establish initial C2 Center prototypes & connectivity
  - Leveraging Multi-Mission Satellite Operations Center (MMSOC) capabilities and experience
  - Shape future decisions & strategy
- Establish dynamic & open collaboration environment
  - Government-owned technical baseline, matured via interaction with industry, agencies, academia (info in GSAW Session 12a)
- Sponsor Research and Development projects
- Enforce EGS usage for new acquisitions
  - Ground systems design to enterprise standards/platform
- Mature Long-Term Operations and Sustainment Strategy
- Transition legacy systems into EGS via phased approach
  - Based on needs/resources – aim for modernization/refresh cycles
  - Legacy attributes may become EGS shared apps/services
Challenges

• Convergence (…through Collaboration)
  – To define stable, scalable, evolvable infrastructure (including Cyber protection)
  – While maintaining research and development agility

• Completeness/Confidence
  – In the long-term acquisition & transition plans
  – Sufficient to enable cost/schedule/technical forecasting

• Certification/Accreditation
  – Improved testing & accreditation cycle times
  – To support needed agility
Questions
Enterprise Space Operations
Desired End State