The Army and Space...

An Essential Relationship!

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Your Army – Serving The Nation...

From Combat Operations...

- 236,000-plus Soldiers deployed overseas in 80 countries
- Composed of adaptive & innovative Soldiers
- Led by experienced leaders
- Enabled by advanced technologies

... to Disaster Relief and Humanitarian Assistance Operations

Smart, well-trained Soldiers are the key to success
US Strategic Command

Provide the nation with **global deterrence capabilities** and **synchronized DoD effects** to combat adversary weapons of mass destruction worldwide. Enable decisive global kinetic and non-kinetic combat effects through the application and advocacy of integrated ISR, space and global operations, information operations, integrated missile defense and robust command and control.

**Mission Areas**

- Global Command & Control
- Integrated Missile Defense
- Space Operations
- Information Operations
- Intelligence, Surveillance and Reconnaissance
- Strategic Deterrence
- Global Strike
- Combating Weapons of Mass Destruction
** Joint Functional Component Command
Operationalizing Space

- Enable, extend, protect the network (Joint C2/NECC)
- Provide responsive space sensors for battlespace awareness
- Enable engagements out of contact; incorporate non-kinetic effects
- Improve logistics capabilities
New test moves Integrated Missile Defense Command & Control Battle Management & Communication (C2BMC) toward net-centric operations

Pushes situational awareness & planning to DoD C2 users

DoD users of C2BMC information

Net-enabling services: Registry, Security, Common Data Source Adaptor

C2BMC

C2BMC NECC Services
- Situational Awareness
- Planning

Ballistic Missile Defense picture
- Threat/interceptor tracks
- Engagement information

SIPRNET

Integrated Approach To Ballistic Missile Defense
Capabilities Gap

Warfighter Impact

- Gaps increase risk to future operations for USPACOM
  - Available Military and Commercial SATCOM is limited
  - OPLAN requirements are stressing

- Increased risk to the Global War On Terrorism
  - Available commercial SATCOM capacity is heavily committed to CENTCOM
  - SATCOM needed to support a second major operation may exceed combined remaining military & commercial capacity

- Increased cost for operations
  - More leases for Commercial SATCOM to fill gaps left by military systems

• Capacity shortfalls will continue
• Size of identified gaps grow as
  - Schedules for next generation systems are stretched
  - Performance of next generation systems is reduced

Projected Wideband Shortfall Over Time

Keep SATCOM Programs On-Schedule and On-Performance

Distribution A: Approved for Public Release and Dissemination
SATCOM Requirements

Growing Warfighter SATCOM Demands

Leases of commercial SATCOM

Transformational Satellite (TSAT)

Wideband Global System (WGS), Advanced EHF (AEHF) system, and Mobile User Objective System (MUOS)

Capacity of Current MILSATCOM (DSCS, Milstar, UHF)

Increasing requirements exceed capacity of DoD owned & operated MILSATCOM systems
Operationally Responsive Space
Concept

Responsive Payloads
- Mix-and-Match Sensors
- Tailorable Comm capability

Responsive Buses
- Plug n Fight Modularity
- Standard interfaces

On-Demand Launchers
- Affordable
- Streamlined processing

Payload Flexibility

Bus Standardization

Responsive Launch
Rapid Assembly, Check Out and Test

Responsive Launch (1-2 Days)
- Rapid Integration
- Responsive Range support

Rapid Initialization / Checkout (2-5 Days)

Tactical Operations
- Single Pass Tasking & Downlink
- Integrated with existing C2 theater assets
- Mission capable day 7-365

Tactical Ground Terminal

Operationally Responsive Space is Affordable, Organic & Responsive!
Working Together - Jointly!

- The warfighter needs to be involved from the beginning...and kept engaged through each step in the process.
- Government does not have all the answers...industry is vital to the solution.
- Capabilities must catch up with requirements.

The Warfighter is the centerpiece of all we do!