



*U.S. Army Space and Missile Defense Command/
Army Forces Strategic Command*



Space and Cyber

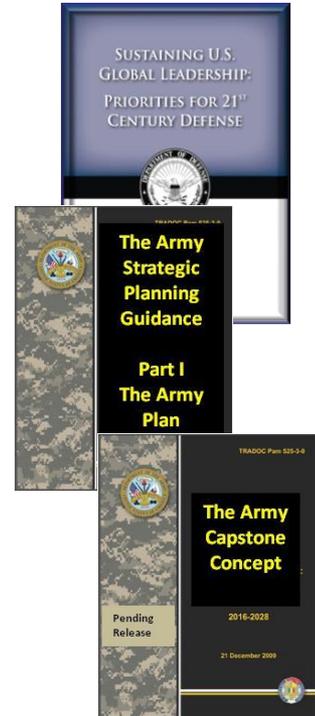
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The Strategic Landscape

- **Defense Strategic Guidance (“Priorities for 21st Century”)**
 - *“Modern armed forces cannot conduct high-tempo, effective operations without ... assured access to cyberspace and space”*
- **Army Strategic Planning Guidance:**
 - *“...the Joint Force relies on the Army for satellite communications, assured direct theater missile warning...and other capabilities.”*
- **Army Capstone Concept:**
 - *“The Army relies on space systems...provide rapid worldwide communication, ...provide situational awareness, ...provide theater missile warning, and gather information about adversaries.”*
- **Unified Quest 12:**
 - *“Getting there is half the battle...access to sea lanes, cyberspace and space are essential...”*

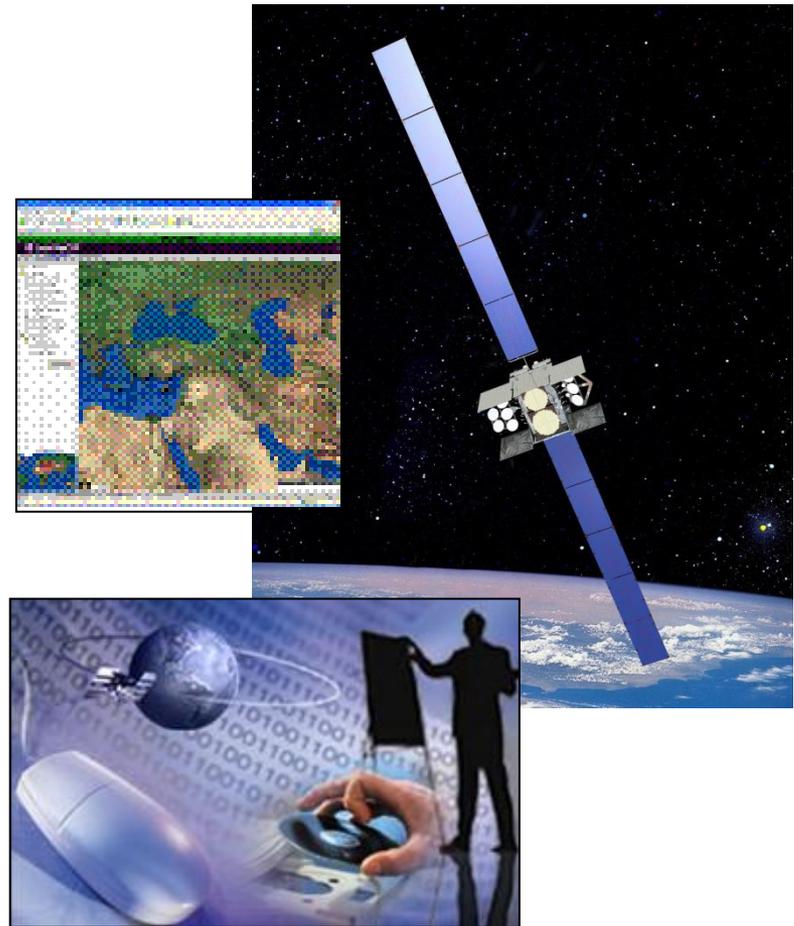


Strategic theme: Joint and Army forces depend on space capabilities



Synergies of Space and Cyber

- Space and Cyber are linked to Mission Command and support all Warfighting Functions
- Space enables delivery of Cyber effects to disadvantaged users
- Cyber supports Space Ops by enabling command of Space payloads and systems
- Space and Cyber have impacts across GCC AORs and must operate in near real time; at the speeds of light/orbit





Space yesterday...

1991: First Space war, Desert Storm, little or no Space doctrine

Now: Warfighting Functions, Joint, Army strategy

1992: SMDC Cdr designated Army Space proponent

1994: First space support teams activated

Now: 31 Space Ops Teams; support to OIF/OEF

1995: The first Army Space Bn activated

Now: Multi-compo Brigade with three battalions

1999: First FA40s selected

Now: 2,865 Space professionals; Div/Corps/ASCC, DOD, and other agencies

2001: One Space course, 14 students

Now: 14 core Space courses, Space Cadre courses, MTT, ILE, CGSC ~ 5,000 students/year

2012: "Cyberspace is the new frontier" - Hon. Leon E. Panetta



Zephyr 7



...is where Cyber is today, only faster



What we have learned...

- ✓ Integrate into the Warfighter Functions
- ✓ Operationalize support to the Warfighter
- ❑ Apply to Home Station and CTCs training
- ✓ Provide materiel development capability
- ✓ Include in education/leader development
- ✓ Develop the domain cadres

