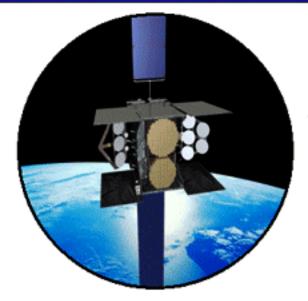




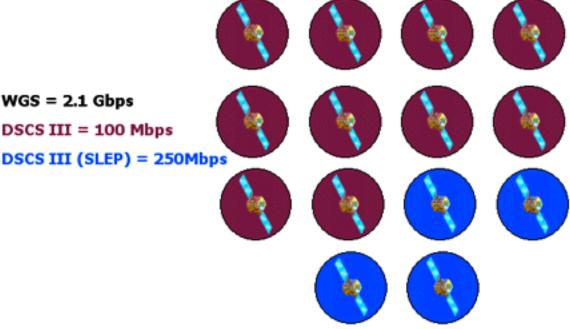
WGS Capacity Comparison with DSCS III

1 Wideband Gapfiller Satellite



WGS = 2.1 GbpsDSCS III = 100 Mbps

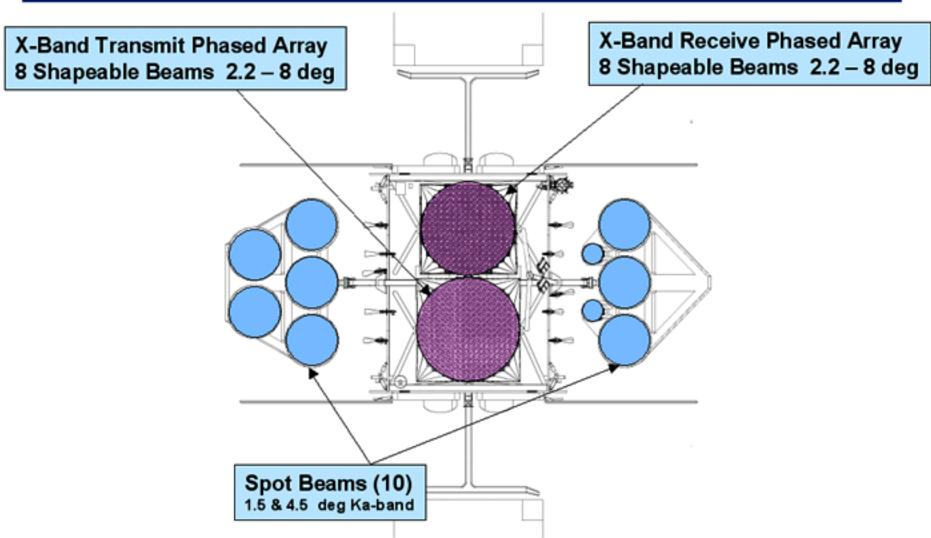
DSCS III Satellites



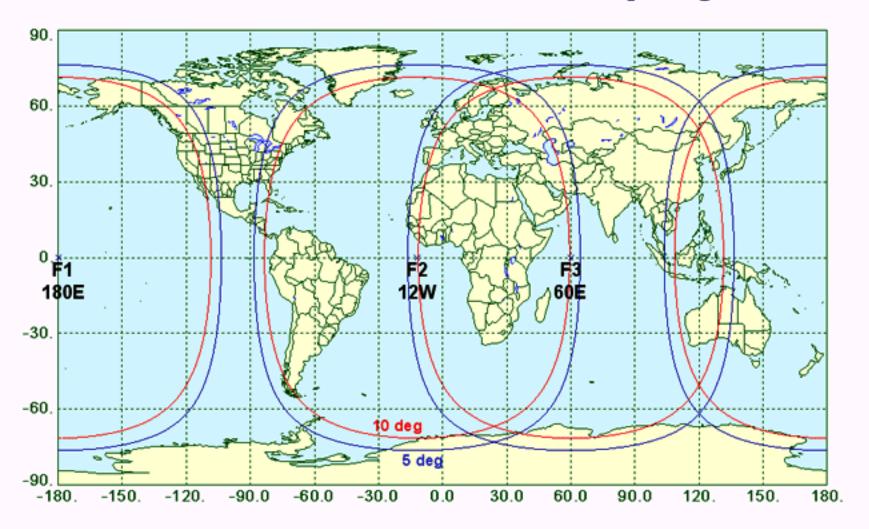
1 WGS = 2.1 Gbps > 10 DSCS III + 4 DSCS III (SLEP)



WGS Payload

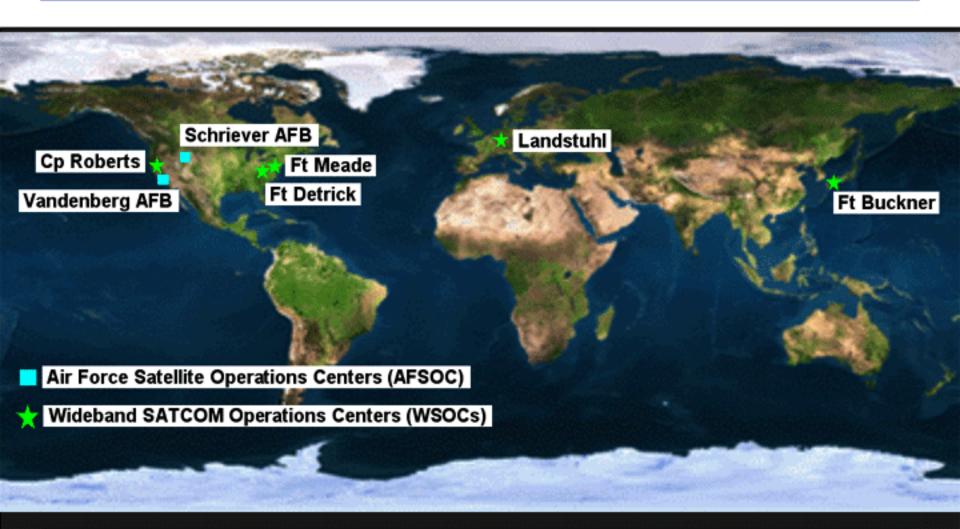


WGS Planned Deployment





WGS Control Segment



WGS Control Segment products will be integrated into existing facilities

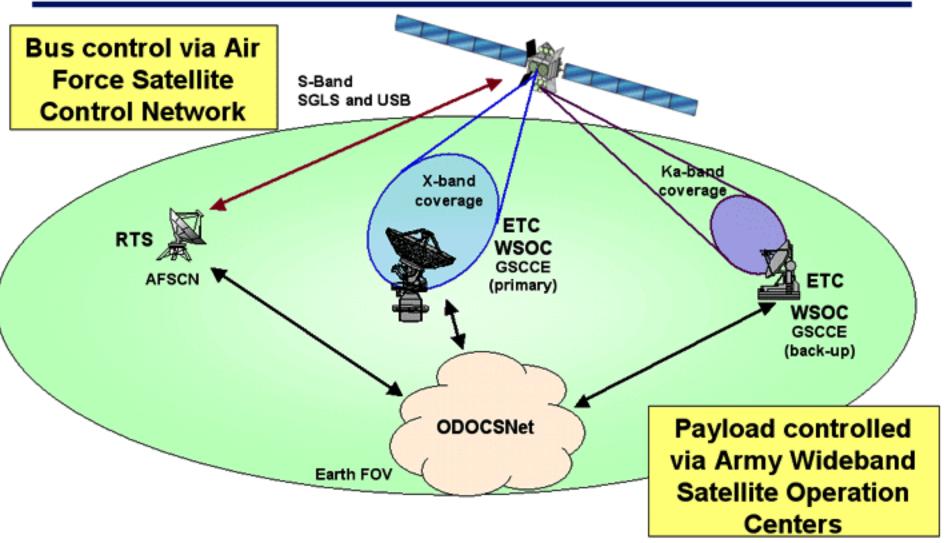


Key WGS Stakeholders





WGS Control Segment





Ground Control





A Co FT DETRICK, MD



B Co FT MEADE,



C Co LANDSTUHL,



D Co CP ROBERTS, CA



E Co FT BUCKNER, JA

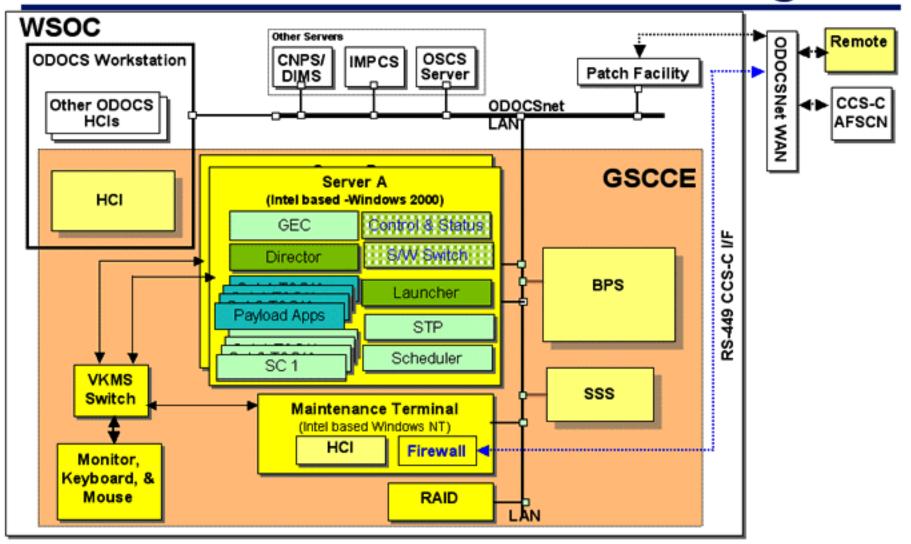




Integrity - Service - Excellence



Ground Segment Block Diagram





Mixed Programs, Contractors in a Legacy Environment

- WGS Ground Segment (GSCCE) must integrate into an existing, operational workstation (ODOCS)
- Workstations subject to upgrade
- GSCCE must co-exist with other applications

Solution:

- Common Object Request Broker Architecture (CORBA) based environment
- Provides "middle-man" with a standard interface for each component



CORBA Environment

Three Main Services

- GUI Navigation
 - Context sensitive/work flow navigation
 - Data population (form "pre-loading")
 - Provides standard and consistent user interfaces
- Messaging & Notification
 - Provides standard and consistent means for distributing control messages among applications
 - Based on CORBA Event Services
- Data Management
 - Provides standard and consistent stored data interfaces
 - Interfaces based on SQL/Call Level Interface

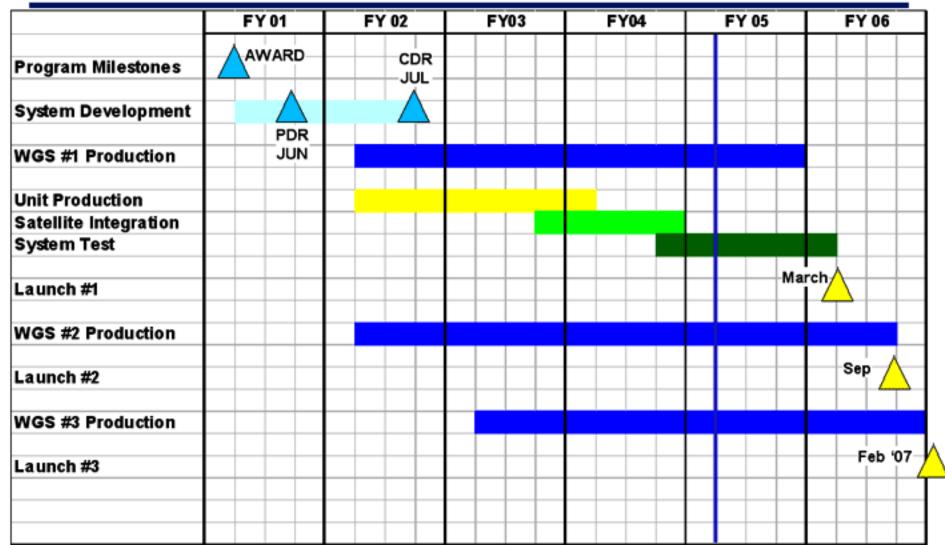


Commercial DoD Partnership

- Meet Government Requirements with combination of custom, legacy and COTS products
- Diverse Partners
 - Boeing Satellite Systems Custom and Legacy
 - Raytheon Eclipse (COTS Telemetry & Control)
 - ITT Integration and Custom Development
 - FDS Orbit Determination (COTS)



Program Schedule





WGS F1 31 March 06

