



U.S. Army Space
and Missile Defense
Command

UPDATE

Huntsville Aerospace Marketing Association

SES Richard P. DeFatta
Director
Space and Missile Defense
Center of Excellence





U.S. Army Space
and Missile
Defense
Command

Overview

Mission

Develops and provides current and future global space, missile defense, and high altitude capabilities to the Army, joint force, and our allies and partners, to enable multi-domain combat effects; enhance deterrence, assurance, and detection of strategic attacks; and protect the Nation.

Mission Areas

ASCC/Operational Support

Service Activities

Army Propensity

Priorities

- Provide trained and ready forces for space, missile defense, and high altitude missions
- Conduct integrated planning and synchronized operations in the execution of our space and missile defense missions
- Prepare for future conflict
- Accomplish our mission as one team of empowered, innovative, ready and resilient professionals

Other CG Roles & Responsibilities

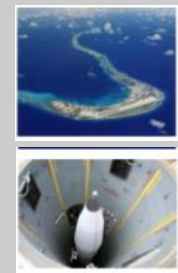
- Commander, Joint Functional Component Command for Integrated Missile Defense (JFCC IMD)
- Senior Commander for U.S. Army Garrison - Kwajalein Atoll and Fort Greely, AK.
- Army Air and Missile Defense Enterprise Integrator
- Personnel Developer, Functional Area 40 Space Operations Officers



USASMDC



JFCC IMD



Senior Commander



1st Space
Brigade



U.S. Army
Satellite
Operations
Brigade



100th Missile
Defense
Brigade (GMD)



SMD
Center of
Excellence



Technical
Center





U.S. Army Space
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Command Relationships



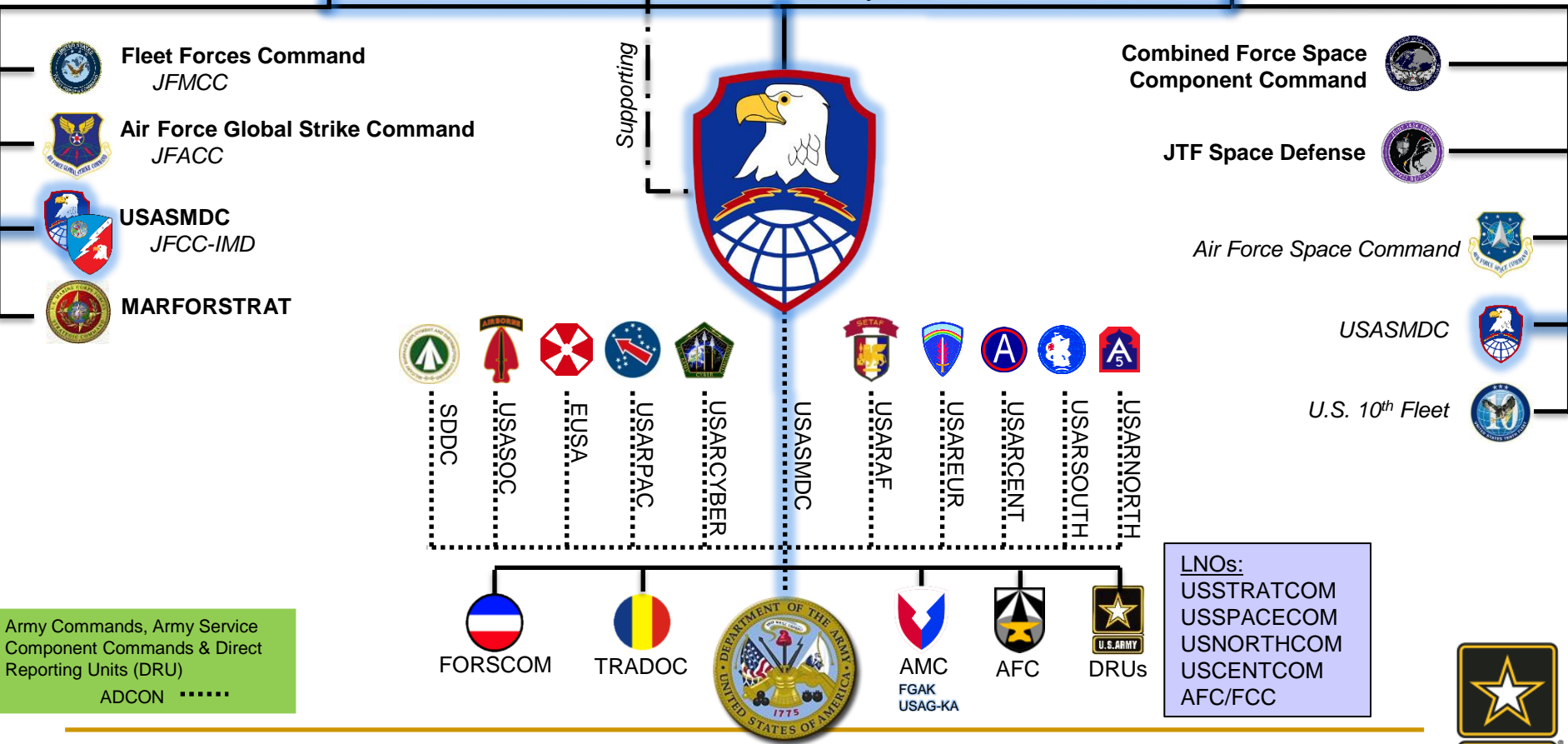
USSTRATCOM Functional &
Service Components
— Assigned



Dual
COCOM Authority



USSPACECOM Functional &
Service Components
— Assigned





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Space and Missile Defense Command



Supporting

Dual Hatted



CG
JFCC-IMD

Multi-component

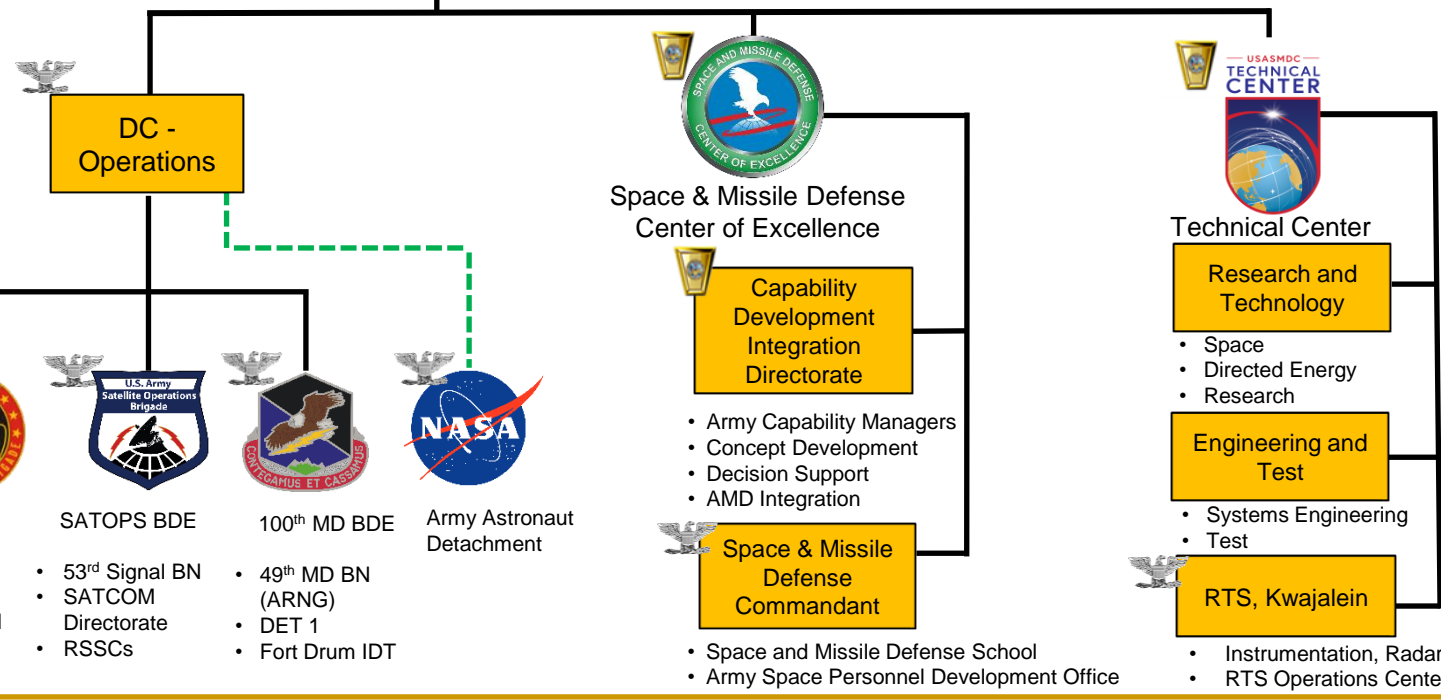
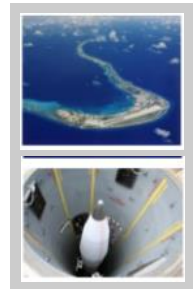


Commanding
General



Sr. Commander

- US Army Garrison, Kwajalein Atoll
- Fort Greeley, Alaska



- 1st Space BDE**
- 1st SP BN
 - 2nd SP BN
 - 117th SP BN (ARNG)
 - MDBs
- SATOPS BDE**
- 53rd Signal BN
 - SATCOM Directorate
 - RSSCs
- 100th MD BDE**
- 49th MD BN (ARNG)
 - DET 1
 - Fort Drum IDT
- Army Astronaut Detachment**

- Capability Development Integration Directorate**
- Army Capability Managers
 - Concept Development
 - Decision Support
 - AMD Integration

- Space & Missile Defense Commandant**
- Space and Missile Defense School
 - Army Space Personnel Development Office

- Research and Technology**
- Space
 - Directed Energy
 - Research
- Engineering and Test**
- Systems Engineering
 - Test
- RTS, Kwajalein**
- Instrumentation, Radars & Optics
 - RTS Operations Center (ROC-H)



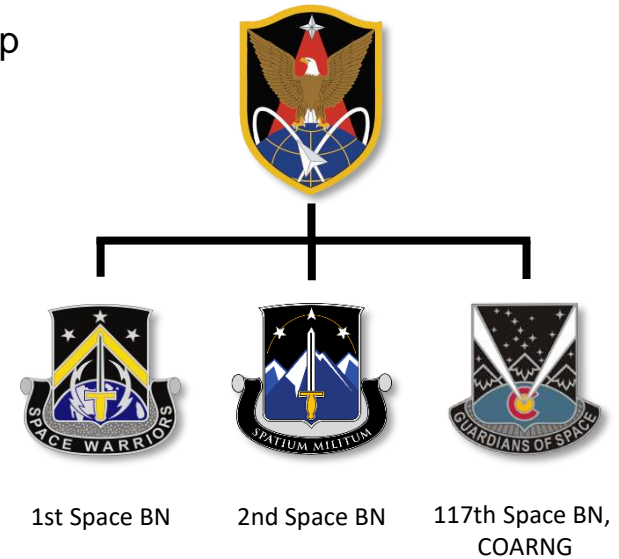


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1st Space Brigade

- **Army's Only Space Brigade** – Unique/multicomponent brigade made up of Active Component (AC), US Army Reserve (USAR), Colorado Army National Guard (ARNG) Soldiers, and Department of the Army Civilians
- **Forward Stationed Forces** – 17 locations | 11 countries | 6 time zones
- **Continuous Operations** – 40% of the brigade's personnel are involved in the execution of 24 x 7 missions
- **Space Combat Multipliers to Army/Joint Formations**
 - Deployed forces to the CENTCOM, INDOPACOM, and EUCOM AORs



Missile Warning



5x – AN/TPY-2 Forward Based Mode Radars
4x – Joint Tactical Ground Stations

Space Control



9x – Space Control Detachments
(6x - AC, 3x - RC)

Space Support



28x – Army Space Support Teams (ARSST)
(6x - AC, 10x - RC, 12x - ARNG)

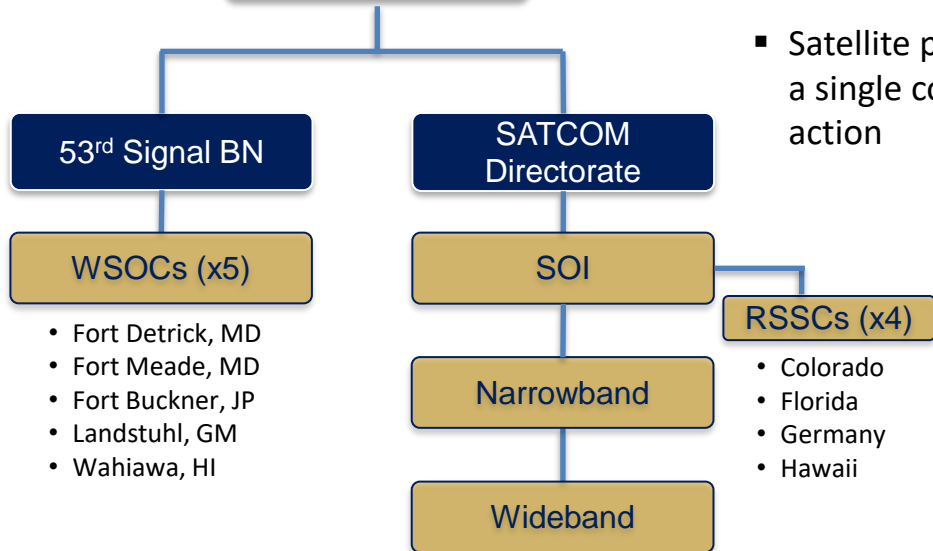




U.S. Army SATOPS Brigade



SATOPS BDE



- Integrated as an operational command element (TF SATCOM) within Combined Force Space Component Command (CFSCC)
- Operationally postured for presentation of SATCOM forces to the joint commander
- Satellite payload controllers, managers, and planners organized under a single commander to improve operational agility and synchronized action

Primary Tasks

- 24/7 SATCOM resource planning, management and monitoring in support of assigned customers
- Systems engineering & modeling
- Coordination of allocation sharing
- Support:
 - EMI response/resolution
 - Deliberate & crisis planning
 - Developing theater SATCOM restoration plans





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★ Colorado Springs, CO

100th Missile Defense Brigade



- **The Nation's only defense against ICBM threats to the homeland**
 - Intercept and destroy an enemy warhead in its mid-course phase of flight, outside the Earth's atmosphere.
 - On watch 24/7 – 365 days a year
- **Multi-component** – Active duty, Colorado ARNG, Alaska ARNG, California ARNG

Missile Defense Element

Monitors ballistic missile defense sensors that detect incoming missiles and, on order, fires Ground-based Interceptors to destroy the hostile missile.

Schriever AFB, CO

Fire Control Center

Executes the tactical employment of the Ground-based Midcourse Defense Interceptors.

Fort Greely, AK

Detachment 1

Responsible for operating GMD launch facilities and support equipment in direct support of the MDE and FDC's missions.

Vandenberg AFB, CA

IDT Security

Provides constant security to the In-flight Interceptor Communication System Data Terminal

Fort Drum, NY



"300 Protecting 300 Million"





Space and Missile Defense Center of Excellence



Capability
Development



Capability
Integration

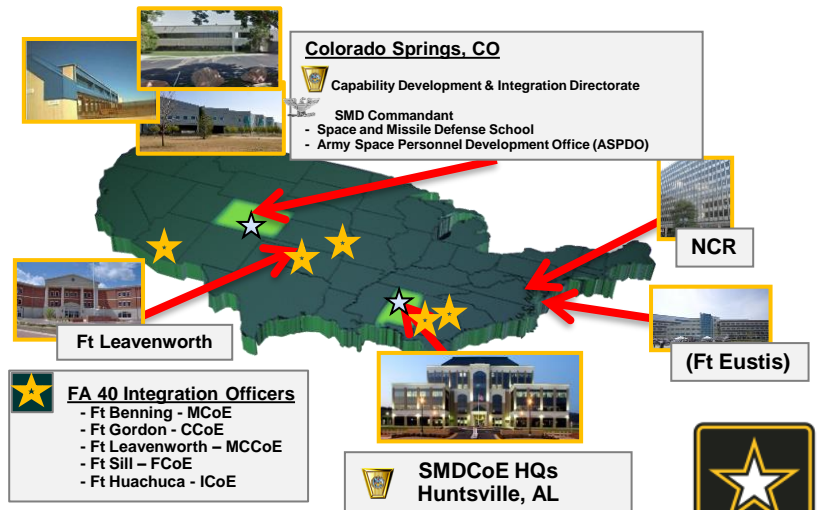
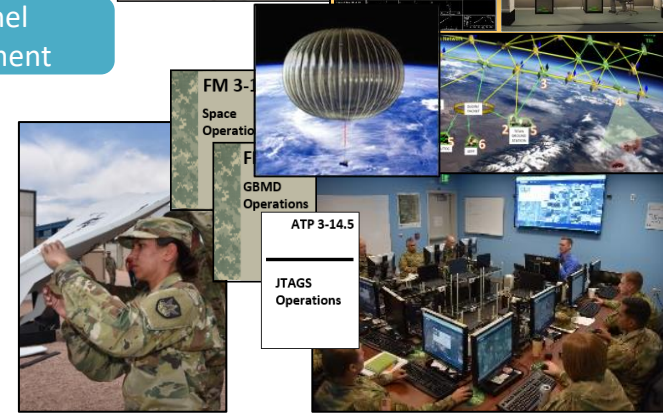


Training & Doctrine



Personnel
Development

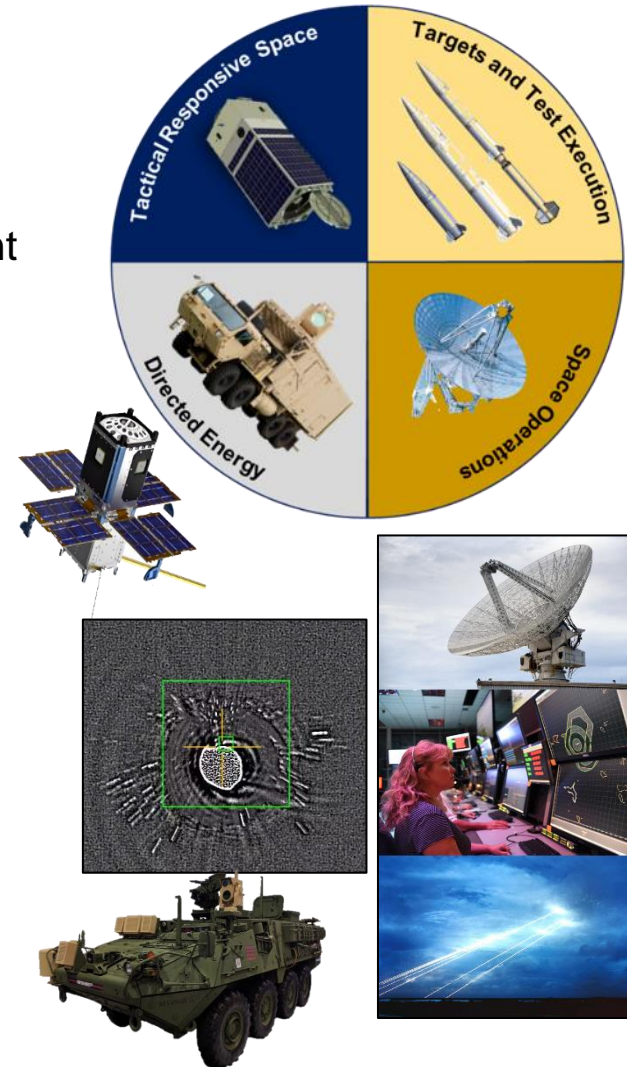
- USASMDC's generating force element – develops and sustains the operational Army's space and missile defense capabilities for employment by joint force commanders
- Space and Missile Defense School trains agile, adaptive, and ready space and missile defense Soldiers – a TRADOC Institute of Excellence
- Army Capability Managers integrate DOTMLPF-P activities across space, high altitude and strategic missile defense equities
- Designs and documents space and missile defense organizations
- Performs wargames, experiments, concept integration and evaluation, and prototyping
- Provides modeling, simulation and operational analysis for Army space, missile defense, high altitude, hypersonics, high energy laser, and cyberspace
- Conducts air and missile defense enterprise integration
- Executes life-cycle management for Army FA 40 Space Operations Officers





Technical Center

- Conducts research, development, test, and evaluation
- Execute space and missile defense research and development
 - High energy laser technologies to counter rockets, artillery, mortars, UAS, and other threats
 - Space-based capabilities in low earth orbit to directly enable next-generation Army communications and ISR tactical systems
 - High power microwave technologies for counter-IED and counter-UAS applications
 - Test execution support for space, missile defense, and hypersonic technologies and ballistic missile targets
- Operates Ronald Reagan Ballistic Missile Defense Test Site
 - Executes space operations and space surveillance missions in support of USSPACECOM



Delivering Technologies and Solutions to Enable Warfighter Dominance