



Strengthening Space Superiority Through Innovation, Integration, and Collaboration

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COMMERCIAL SPACE FOR SECURITY

U.S. Space Command (USSPACECOM) works with Allies and partners to plan, execute, and integrate military space power into multi-domain global operations. These efforts aim to deter aggression, defend national interests, and defeat threats when necessary. Space capabilities allow us to safeguard the U.S. homeland while supporting global economic and security interests.

U.S. private industry's commercial space sector leads the way in space innovation. The commercial sector continues to rapidly advance space technologies to provide commodities and services for a myriad of purposes. This advancement strengthens the global economy and our national security. Acceleration of product development timelines and timely integration of space-based commercial capabilities enhance joint and combined force operations, which are imperative to maintaining space superiority. These strengths will help us counter our competitors who persist in developing and testing counterspace capabilities that challenge access and the freedom to operate in space.

"America's rapidly expanding commercial space sector provides a significant asymmetrical advantage over our strategic opponents. To maximize this advantage, U.S. Space Command last year updated our Commercial Integration Strategy focusing on three key areas, identifying and advocating for commercial systems and innovations, incorporating and operationalizing commercial capabilities, and informing and protecting commercial partners"

General Stephen Whiting,
Commander, USSPACECOM
April 2025

SHAPING THE SPACE DOMAIN

Evolving threats and technological developments are transforming the use of the space domain. USSPACECOM is actively working with partners across the space enterprise to explore commercial pathways to address capability gaps and reduce operational risks for the Joint Force. USSPACECOM achieves this by engaging with industry partners to identify capabilities aligned to our priorities and mission needs; meeting with commercial partners to evaluate capabilities and their utility to the warfighter; advocating for capabilities with appropriate acquisition organizations; and leveraging existing commercial partnerships within military space operations cells. The goal of these efforts is to meet needs in these areas:

USSPACECOM Priorities and Mission Needs:

- Integrated Space Fires
- Active Protection Measures for Space-Based Assets
- Enhanced Battlespace Awareness for Space Operations
- Joint Integrated Space Command & Control
- Sustained Space Maneuver
- Space Defense Critical Infrastructure Cyber Defense – Cyber Defense
- Space Defense Critical Infrastructure Cyber Defense – Domain Awareness
- Survivable & Endurable NC3 Architecture
- Assured Satellite Telemetry, Tracking & Control Architecture
- Modernized, Integrated Blue Data Architecture
- Flexible Satellite Communications
- SATCOM Ground Enterprise
- Passive Protection Measures for Space-Based Assets
- Integrated Offensive Cyber Effects in support of the Space Warfighter
- Earth-Facing Persistent and Resilient Intelligence, Surveillance, and Reconnaissance
- Positioning, Navigation, and Timing Resilience and Modernization

USSPACECOM: "THERE WILL NEVER BE A DAY WITHOUT SPACE"

- Integrated Sensor Tasking for Space Operations
- Common Intelligence Picture Support to Space
- Counter UAS Protection of Space Defense Critical Infrastructure
- Expanded Operations to xGEO

THE VALUE OF COMMERCIAL SPACE

Innovative commercial technologies amplify overall military space power and are a testament to the tenacity and pioneering spirit of U.S. entrepreneurs. The Department of Defense's 2024 DoD Commercial Space Integration Strategy seeks to align the Department's efforts and drive more effective integration of commercial space solutions into national security space architectures. USSPACECOM's commercial integration efforts align with national priorities to enhance competition and innovation in the commercial space industry. These efforts aim to leverage commercial advancements to strengthen national security and maintain U.S. leadership in space.

USSPACECOM's commercial integration efforts focus on four key priorities to fully leverage the benefits of commercial space solutions: ensure access to commercial solutions across the spectrum of conflict; achieve integration prior to crisis; establish security conditions to integrate commercial space solutions; and finally, support the development of new commercial space solutions for use by the joint force. As we integrate commercial solutions, cybersecurity and resilience remain top priorities. USSPACECOM is committed to working with industry partners to implement robust measures, share best practices, and ensure the protection of critical space assets. USSPACECOM's Commercial Integration Strategy was updated in 2024 to more closely reflect the concepts outlined in the DoD document and incorporate the lessons learned from successful execution since first publishing a Commercial Integration Strategy in 2022.

Current global events compel government and commercial stakeholders to challenge existing paradigms and reimagine possibilities to maintain space superiority. Today, commercial partners significantly contribute to space domain awareness, communications, and data sharing. Future operations require resilient space architecture, proliferated constellations, layered defense, end-to-end cybersecurity, sustained space maneuver, and capabilities that enable offensive and defensive space operations.

WE SHOULD NOT DO THIS ALONE

Commercial capabilities and services support government, civil, and commercial space architectures during peacetime and provide additional capacity to meet military requirements in times of crisis and conflict. While commercial capabilities are critical to our mission, USSPACECOM recognizes the importance of maintaining a balanced approach to avoid overreliance on single-source solutions. By diversifying supply chains and ensuring redundancy, we aim to enhance resilience and operational effectiveness. USSPACECOM supports ongoing efforts to streamline regulatory processes to enable a competitive and innovative commercial space industry. By reducing obstacles to collaboration, we aim to accelerate the integration of commercial solutions into national security space architectures. As reliance on the space domain continues to grow, so does the responsibility to protect and defend the assets and capabilities critical to our way of life. The combined efforts to communicate, collaborate, and synchronize capabilities have already proven to be an invaluable approach to securing the ultimate high ground. Enduring partnerships between commercial and government entities are vital to national security. We invite industry to collaborate with USSPACECOM in pursuing shared interests and achieving common goals. Sustained innovation and investment will ensure the United States maintains its strategic advantage in the space domain.

To discover what you can do to support USSPACECOM's mission, industry partners are encouraged to participate in USSPACECOM's Commercial Integration Working Group (CIWG) sessions to better understand our operational needs and collaborate on innovative solutions. For more information, visit our Industry Engagement Portal at <https://www.spacecom.mil/Partnerships-and-Outreach/Industry-Engagement-Portal>.



THOMAS A. LOCKHART
Director, Capability and Resource Integration
Directorate (J8) USSPACECOM