

Mission Operations

Services and Support



Sidus Space delivers end-to-end mission operations solutions from mission design and planning to 24/7 real-time execution. Whether managing nominal or off-nominal events, our team ensures mission success through automation, security, and global infrastructure.

With experience supporting NASA, Department of Defense, and commercial programs, Sidus provides tailored, cost-effective operations that meet the most demanding mission requirements.

Key Features

- » **End-to-End Mission Operations** - 24/7/365 support for all mission types, with a Backup Control Center (BCC) for operational continuity
- » **Advanced Security and Infrastructure** - AWS-powered cloud architecture with in-house C2 routing, encryption, customer API integration, and robust physical and cybersecurity protocols
- » **Mission Engineering Support** - Integrated planning, analysis, and technical execution to ensure mission readiness and performance
- » **Global Ground Station Network** - Access to 27+ ground stations worldwide for reliable, low-latency data uplink and downlink



Capabilities

Mission Design and Development

- » Flight Dynamics Simulation and Rehearsals
- » Maneuver Planning and Timelines
- » Orbit Trade Studies and Trajectory Optimization
- » RF Link Budget Analysis
- » Integrated Vehicle Performance Validation

Mission Planning

- » Attitude Control and Maneuver Planning
- » Automated Command Sequences
- » Conjunction Assessment and Avoidance
- » Ground Station Scheduling
- » Payload Planning and Customer API Integration

Mission Execution

- » 24/7/365 Operations by Certified Flight Controllers
- » On-Orbit Software Updates and Station-Keeping
- » Payload Data Collection and Transmission
- » Integrated Vehicle Performance (IVP) Evaluation
- » TT&C and Health and Status Monitoring



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