



SPACECRAFT BUSES,
SYSTEMS & SOLUTIONS

MISSION OPERATIONS



At Blue Canyon Technologies, our vertical integration spans from individual components to mission operations services that manage spacecraft on-orbit. Our customer-driven mission planning and on-orbit tasking allows the customer to focus on the mission while we manage the bus, leveraging our straightforward, agile interfaces.

With more than 24 years of cumulative on-orbit heritage and 50,000+ supported contacts, our Mission Operations team has the expertise you can rely on to support your mission. our Mission Operations team has the expertise you can rely on to support your mission.

SECURE PLATFORM

Our powerful, cloud-based mission operations platform employs a secure and highly scalable architecture, enabling rapid integration for a wide range of missions and Ground Station Network providers. It offers a versatile, centralized mission management solution that supports fully automated contact scheduling, command and control, telemetry trending, data delivery and more.

SEAMLESS AUTOMATION

- Event-based automation efficiently manages all contact objectives from pre-pass setup through post-pass processing without requiring an operator in the loop.
- Autonomous commanding leverages flexible state-based flow control for both routine operations and anomaly detection and response.
- Generate an optimized ground contact schedule to meet your mission through automated contact planning using configurable business rules and resource deconfliction.

ADVANCED MONITORING

- Blue Canyon provides extensive, customizable telemetry dashboards for real-time insights and long-term trending.
- Customers receive direct access to the Blue Canyon Command and Telemetry Database API.
- Our services include enhanced mission awareness through configurable real-time event and status notifications.

COMPREHENSIVE PRE-LAUNCH AND LEOP SUPPORT

- Dedicated pre-launch operations support ensures all operational requirements are met through customer collaborative CONOPS development, mission integration, system interface testing and LEOP simulations.
- Our team of highly experienced operations and systems engineers execute against a streamlined, flight proven LEOP commissioning strategy specifically designed to achieve operational readiness quickly and safely, often within hours of launch.

GROWING OPERATIONAL HERITAGE

Our team is currently operating 20 spacecraft spanning 11 different missions, supporting more than 120+ contacts per day. We are well positioned to take on additional buses, implementing our lessons learned over the last decade.



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