CALIAN ®

Confidence. Engineered.

Intelligent fleet orchestration

Satellite operators can utilize Calian suite of mission orchestration tools for managing their satellite fleet

Operating government and commercial spacecraft for 30 years, Calian can deliver the solutions needed to operate your space mission. Integrated with your existing network or bundled with other Calian space offerings, this system provides tools for tasking updates and data dissemination, special activity planning, anomaly recoveries, orbit maintenance and collision avoidance.
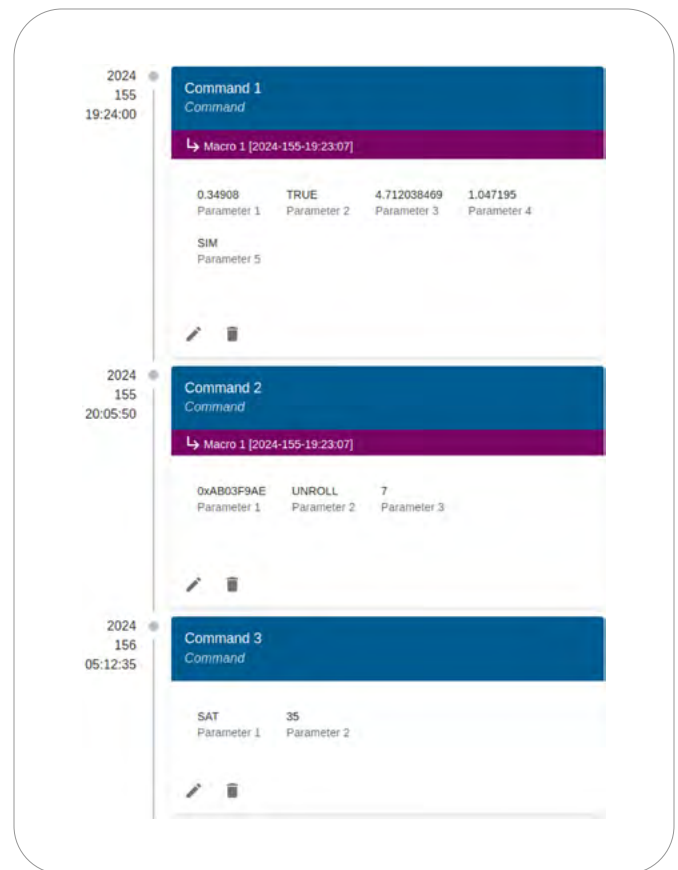
Real-time operations

Connecting to your ground station network, real-time operations are conducted with prepared pass plan activities to uplink new taskings and downlink bus and payload data. Automatic anomaly identification and recovery processes are available. Advanced encryption and decryption processes ensure your data is kept secure.

Fast and efficient planning

Bundling payload and maintenance commands into macro sequences, the planning segment conducts constraint and parameter verifications prior to real-time operations. Fast-tasking activities can be inserted as needed. Capacity analysis ensures your orbiting resource is operating at maximum capacity. Connect to your existing spacecraft database or we can make one for you.
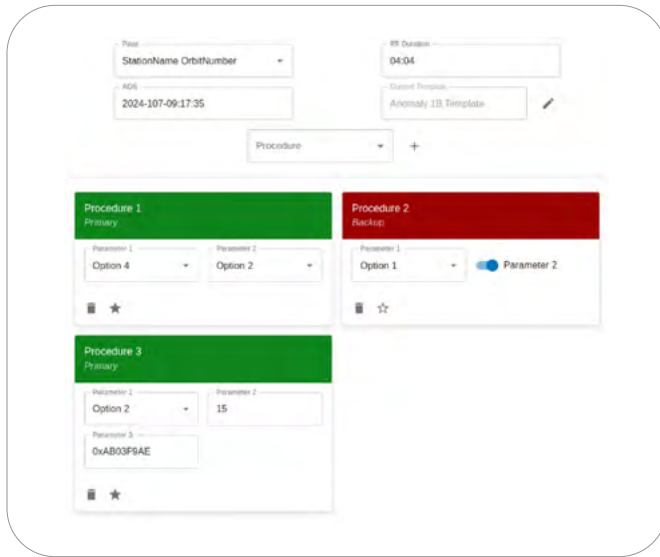
Fleet orchestration

Optimize the utilization your fleet with the resources at hand. Transfer activities within assets to maintain client deliverables, schedule required maintenance periods, and commission new or decommission old assets as needed.

Precise orbit maintenance

Leveraging all mission tracking data, accurate orbit knowledge is updated continuously. Orbital trends are monitored routinely and are decision points for regular orbit maintenance activities. Participating in the good stewardship of the orbital regime, your fleet operations will be protected 24/7 by advanced conjunction analyses from initial warnings to the planning and execution of collision avoidance activities.

Smooth operator

- Customer and operator tasking plans
- Constraint verifications
- CCSDS or custom command databases
- Secure encryption and decryption
- Telemetry verifications
- Accurate orbit knowledge and maintenance
- Conjunction analysis and actions
- Robust backup and archiving strategies
- Operator override controls
- User administration
- Stakeholder reporting
- Scalable to large constellations
- Web-based standards
- Automated and manual modes
- Virtualized deployments
- Secure mobile options
- Modular components
- Custom modifications as needed

Our experienced and capable SatDevOps engineers are available to provide support services to assist in managing your fleet.

For more information, visit https://www.calian.com/advanced-technologies/space/space-operations or contact at.opservices@calian.com