

Connecting Humanity Through Space™

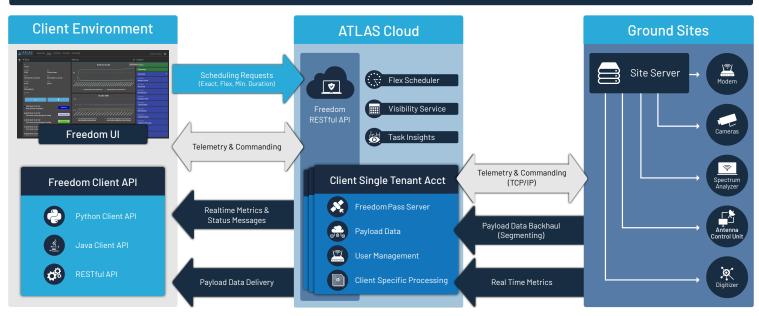
FREEDOM™ HOW IT WORKS



Single IP Access AES-256 Encryption Multi-factor Authentication
Tokenized Connection Initiation

IP Whitelisting
Time-Based Restrictions







Freedom is a SaaS system accessed via an API (Java, Python, REST) supporting your TT&C data format, regardless of baseband, through a single entry point in the cloud. Customers receive 100+ metrics every 2 seconds to monitor the state of the service. Your data... simplified.



ATLAS Freedom is NIST 800-171 compliant by a Certified Third-Party Assessment Organization. Freedom leverages industry leading standards: multi-factor authentication, AES-256-Encryption, IP whitelisting, time-based restrictions, and access through a single IP entry point.



ATLAS has developed and refined a 5-phased approach to onboarding customers. Phase 1 begins API integration and progresses in phase 5 to full bench testing with our small form factor transportable ground station. Each phase reduces risk culminating in the first communication with your spacecraft.



GROUND SEGMENT VALUE CHAIN

The ground segment value chain has many components that roll up into one comprehensive managed service provided by ATLAS Space Operations via our Freedom Software Platform™. **ONE SERVICE FOR ALL YOUR NEEDS.**

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BASEBAND

Procurement, integration, and maintenance of baseband hardware such as Modems, FEPs, and data recorders.



CLOUD INTEGRATION

Direct integration with cloud provides access to your entire ground network via a single, cloud-based entry point.



BACKHAUL

Highly configurable payload data backhaul pipeline from ground site to cloud to customer. Options for intermediate data storage or never-at-rest.



SECURITY

NIST 800-171 accreditation. Multi-factor authentication. Tokenized connection initiation. IP Whitelisting. Time-based restrictive access. AES-256-Encryption.



SCHEDULING

Scheduling / Deconfliction of assets on a federated network using data science and Machine Learning algorithms.



DATA DELIVERY

Automatic data file delivery and / or real-time streaming of downlink and uplink data.



USER INTERFACE

Web based UI for quick, easy access without complex programming interfaces. Get started without the cost of machine to machine integration.



Procurement, building, integration, and maintenance of antenna and componentry for managing RF signals (Switches, LNB, Amplifiers).



NETWORK OPERATIONS

24/7 Network Operations. Immediate on call support for monitoring and resolving all hardware and software issues at scale.



LICENSING

Global expertise on spacecraft frequency licensing.



ONE API

One API for all access (including streaming data, header formats, cloud modems, etc.) allows for rapid expansion to new and existing sites.



ORCHESTRATION

Configuration and coordination of ground hardware using software. Outage-resilient synchronization orchestrated from the cloud.



DATA COLLECTION

Data retention policies per customer (streaming, temporary storage, or long term archiving).



ANALYTICS

Data analytics of more than 1 billion metrics collected to support Machine Learning/Al analysis.



