



CONNECTING HUMANITY THROUGH SPACE™



LEARN MORE AT [ATLASGROUND.COM](https://atlasground.com)

SECURE RESILIENT SCALABLE --- PROVEN

113°

LATITUDINAL COVERAGE

44,000+

SUCCESSFUL PASSES EXECUTED

Inc.500

N°

102

2020

AMERICA'S FASTEST-GROWING PRIVATE CO'S

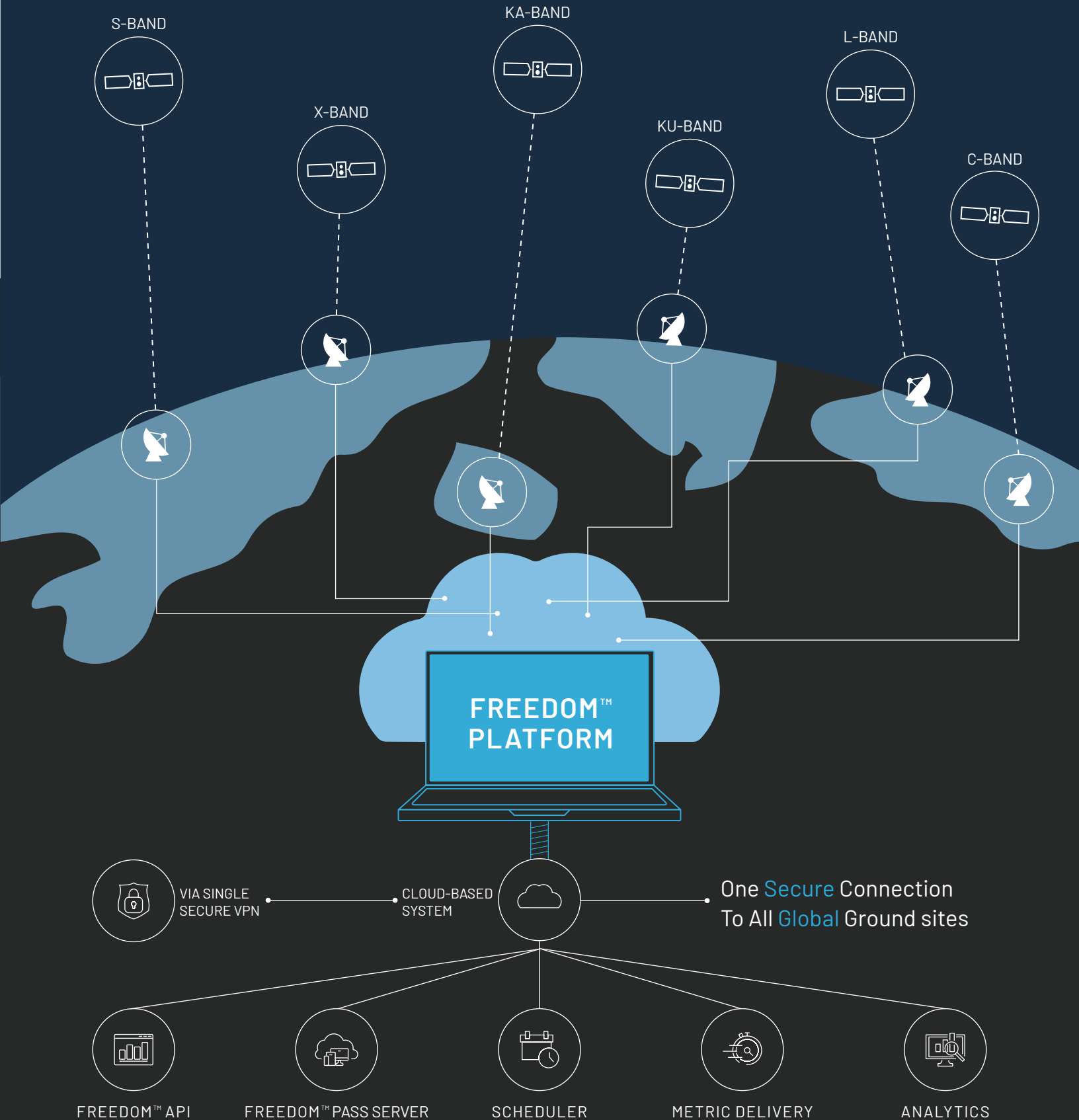
99%

PASS SUCCESS RATE

24/7

ON CALL SUPPORT

GROUND STATION AS A SERVICE



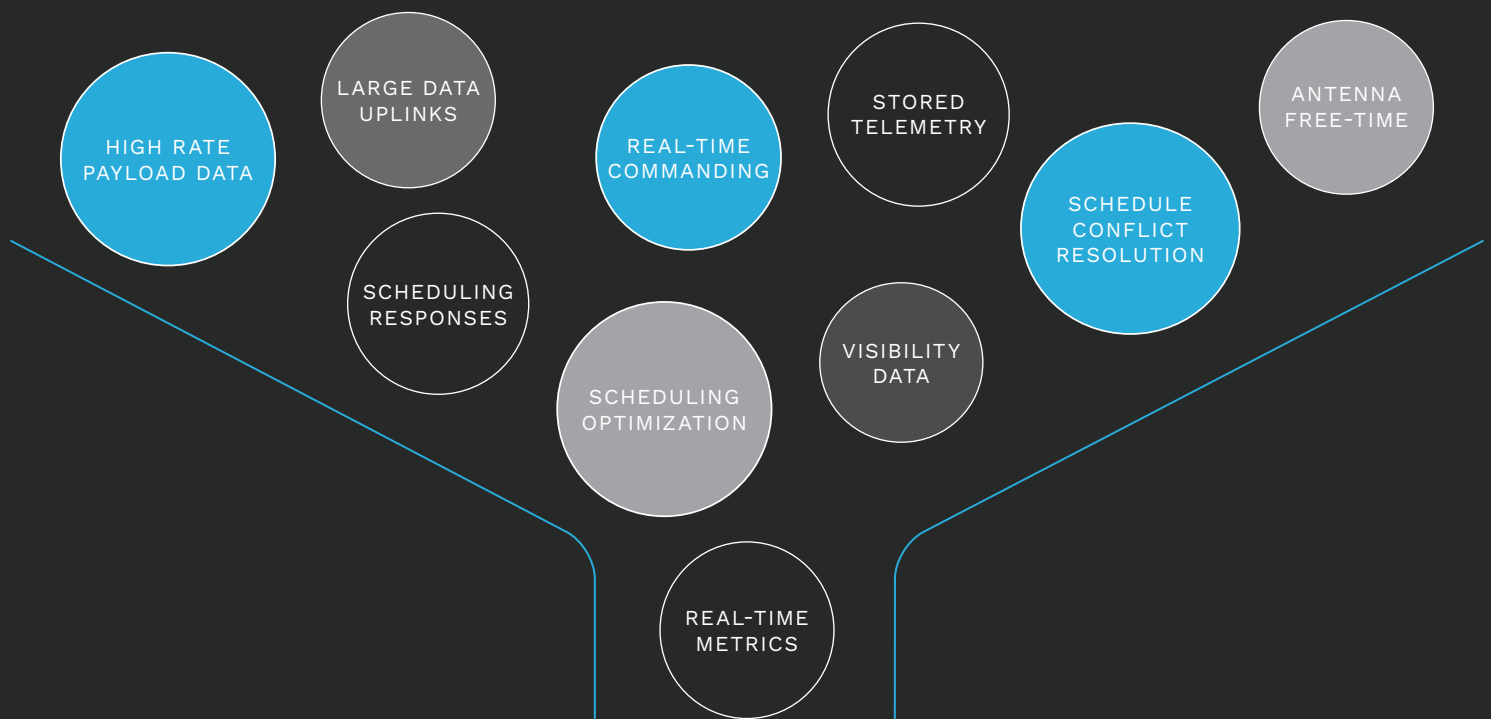
YOUR DATA. WHEN YOU NEED IT. HOW YOU WANT IT.

FREEDOM™ SOFTWARE PLATFORM

Unified Access to Space and Data

Freedom is a global ground network management system providing a simplified, intuitive solution to satellite communications. Freedom creates a single point of access to the ATLAS global antenna network. ATLAS has reduced the complexity of integration by removing direct connections between satellite operators and ground sites. By exponentially reducing the points-of-access, securing and scaling the system becomes much simpler.

Freedom makes communicating with a spacecraft simpler, faster, and more economical than ever before. All Freedom interfaces are built for 100% automated, machine-to-machine RESTful API communication which enables clients to conduct lights-out mission operations. Freedom leverages the power of AWS to deliver GovCloud compliance standards for security and reliability, making ATLAS a preferred, and trusted, satellite communications provider.



Equipped with a simple RESTful web interface to our network & Real-Time Messaging, supported by AWS IoT, Freedom keeps you up to date with systems status.

Integrate seamlessly into the ATLAS global network. This expensive and time-consuming workload is transferred to ATLAS, allowing clients to focus on their primary mission.

Freedom establishes the TCP/IP connection from client to antenna to provide users real-time commanding & telemetry with extremely low-latency.

FAST & SECURE DATA DELIVERY

Each ATLAS ground site is equipped with full featured, enterprise-grade network security components to eradicate malware, prevent penetration, and reduce vulnerability from potential threats. The ATLAS architecture and Freedom Software provide multiple layers of protection for our most-vulnerable system nodes by abstracting access to it. Giving you peace of mind that your data is safe and secure with every single pass.

SECURITY

Security of your data is paramount. Freedom leverages industry leading compliance standards, employing multi-factor authentication, AES-256 encryption, IP whitelisting, time-based restrictions, and access through a single IP entry point.

PREVENTION

ATLAS utilizes a comprehensive suite of security services throughout our network including anti-virus protection, application controls, content filtering, and cloud-based sandboxing to stop advanced threats like ransomware and malware.

DETECTION

All ATLAS modems and servers are equipped with host-based intrusion detection and prevention protections. All audit and security related data are immediately and continuously forwarded to our centralized security information and event management (SIEM) which collects, aggregates, and correlates data across all ATLAS system components.

DELIVERY

ATLAS utilizes AWS Accelerated Endpoints to provide clients maximum data throughput with low latency. Our team is responsible for the data backhaul from our globally disperse antenna network back to the AWS cloud and your servers.

SUPPORT

ATLAS maintains 24x7 operations staff to ensure continuous system availability and client support. With enhanced monitoring, alerting, and automation capabilities, our clients can be assured ATLAS is always here to provide maximum system uptime.

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DESIGNED FOR YOUR MISSION SUCCESS



Freedom transforms the entire process of accessing your spacecraft and your data. Our software is designed to allow clients full automation and easy integration into existing architectures - using one frame format no matter the hardware. This effectively removes the need for humans 'in the loop' and instead, placing them 'on the loop.' Simple and flexible satellite communications - your data, on your terms.

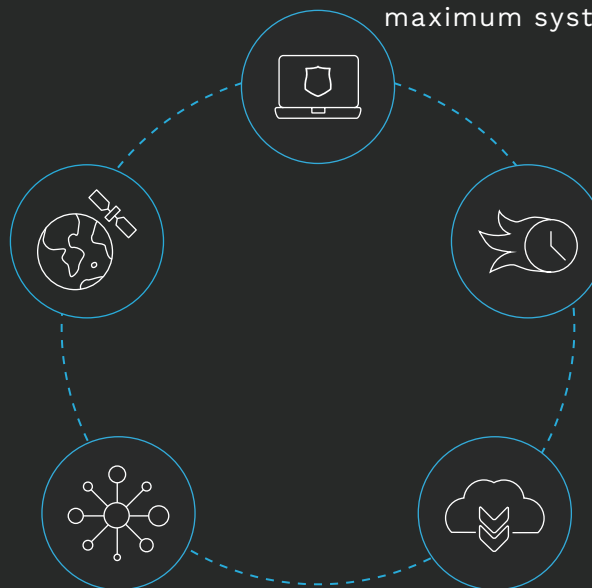
Time-based authentication and limited points of access yield maximum system security

Greater data and network availability for commercial and government users

Reduced network latencies via Google's Protocol Buffer data formatting

Scalability through just-in-time server availability and cloud computing

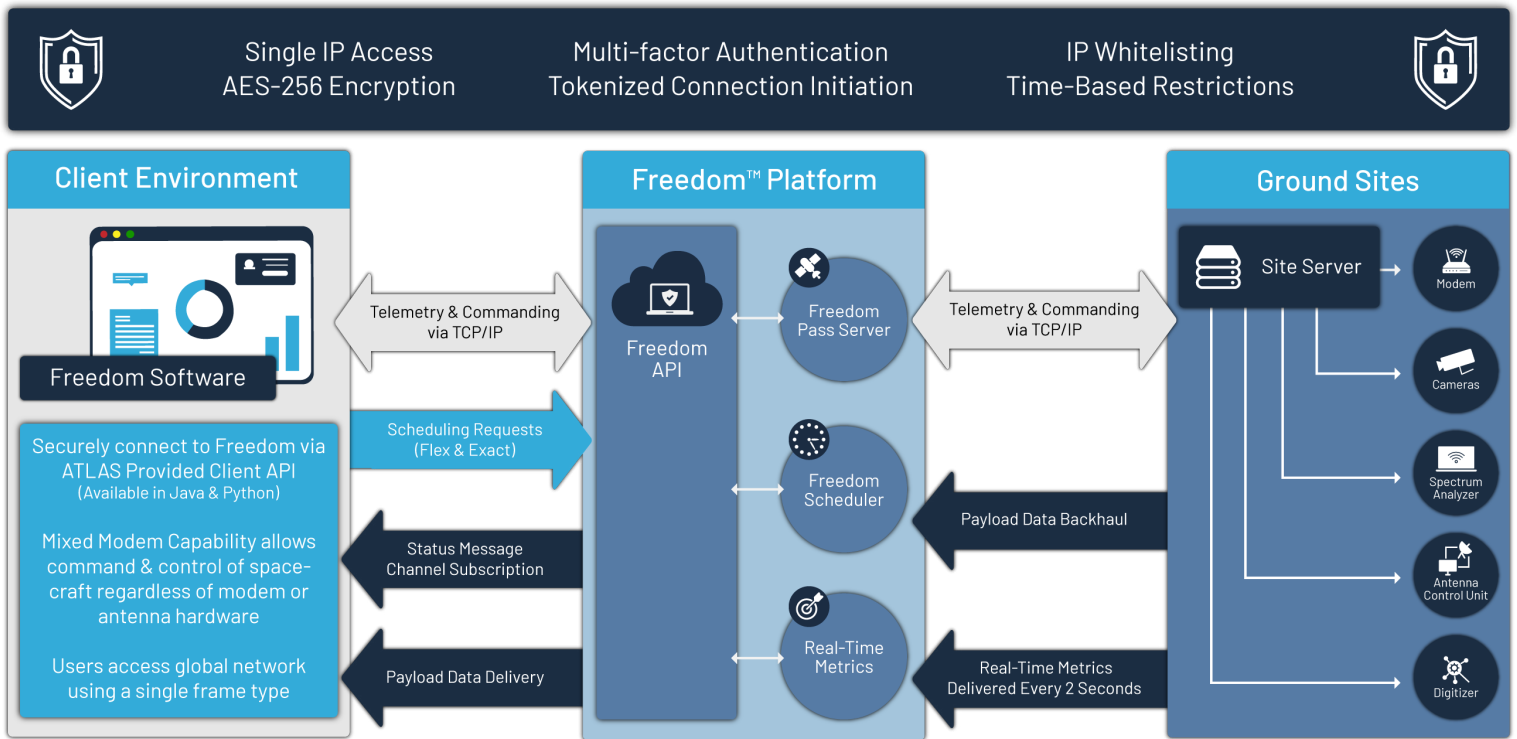
High rate data downloads of 2+ Gbps and direct delivery to client's cloud or server



FREEDOM™

HOW IT WORKS

Mixed Modem Capability Saves You Time & Money



ATLAS PROVIDED API

ATLAS has made network integration simple. The ATLAS API is delivered to the client, in either Python or Java, giving operators access to libraries full of functions and methods that interface directly with Freedom via REST.

Speed of Integration - saving you time and money.

CUSTOMER ENVIRONMENT

With Freedom, clients no longer have to connect to each site individually. Once integrated into Freedom, spacecraft operators have secure access to each ground site in the entire ATLAS global network.

Instant Access - When ATLAS adds an antenna, you have access.

SHARED NETWORK

Full network access, without full network cost. The ATLAS 'Shared Network' allows multiple clients to use the same antenna and baseband equipment. Which means we're able to cut costs across the board - and pass savings back to you.

Shared Network - Global coverage that doesn't cost a fortune.

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GLOBAL ANTENNA NETWORK

ATLAS' Global Network of satellite ground stations allows for simplified space-based communications, while scaling with you.

Designed around Freedom™, our global antenna network enables clients the flexibility to reliably schedule satellite passes with minimal human interaction. Our system allows entire data processing and forwarding workflows to be a “lights-out” operation.

Supported RF Bands

S-BAND
X-BAND
KA-BAND
KU-BAND
C-BAND
L-BAND



Pictured: ATLAS Chitose, Japan 3.4m antenna

 ATLAS ACTIVE
GROUND STATIONS

 ATLAS PLANNED
GROUND STATIONS



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ATLAS IN A BOX

Spacecraft Preflight Testing Brought to Your Doorstep

Communications is the thread that connects the entire space industry, and we understand how valuable your data is to your mission. That's why we created ATLAS in a Box.

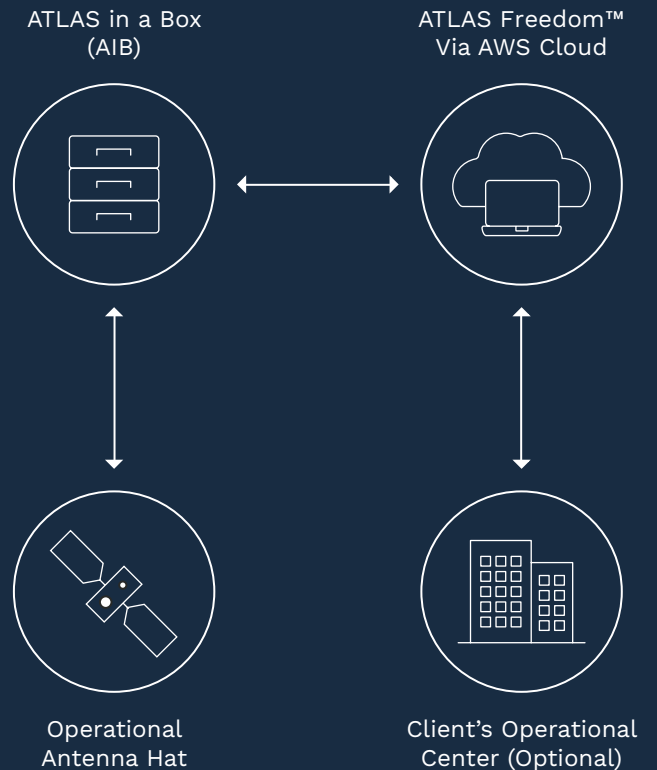
ATLAS in a Box (AIB) provides clients a hassle free, effective way to verify the compatibility of your satellites in production with the ATLAS network. AIB is a small form factor (1.3 cubic meters), transportable ground station emulation tool.

We ship our testing system, with an interface panel included, directly to you - giving you peace of mind that your spacecraft is mission ready.

HOW IT WORKS

- 1** Our team ships ATLAS in a Box directly to your office or operations center
- 2** Clients connect to the Freedom™ Platform running in the cloud
- 3** Freedom connects to ATLAS in a Box, like any ATLAS or partner antenna
- 4** ATLAS in a Box connects to the client's FlatSat or simulator directly
- 5** Validate command & telemetry flow between FlatSat to Freedom
- 6** Testing is complete - simply pack it up and ship the system back to ATLAS

End-to-End System Compatibility Testing



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ABOUT ATLAS



ATLAS Space Operations connects humanity through space, driving valuable and actionable changes here on Earth.

Leveraging Freedom™, our proprietary communications platform, ATLAS provides secure and scalable global satellite communications. Freedom is powerful and adaptable, providing services for government agencies and private sector clients, while also supporting ground networks outside of ATLAS.

Freedom is a cloud-based, data-driven, scalable space communications platform employing a fundamentally different approach to satellite communications. Unlike complex, costly, and labor-intensive legacy approaches, Freedom automates the communication process, pre-plans satellite passes, and eliminates the need for satellite owners to act as ground station operators.

Empowering Global Access to Space

ATLAS has been recognized as #1 on the World Teleport Association's Fast 10 — a ranking of the fastest-growing teleport operators in the world — and placed #102 on the Inc. 5000, rounding out our success by taking #15 among software companies.

Unique to ATLAS is our position on the Vet100, a subset of the Inc. 5000 that highlights the fastest-growing veteran-owned companies in America. This recognition carried special importance for the ATLAS team, many of whom are veterans of our nation's military.

Picture: ATLAS Utqiagvik (Barrow), AK 3.7m antenna at 71°N - North America's highest latitude ground station



CONNECTING YOU TO YOUR DATA.
EXPERIENCE FREEDOM™ THROUGH SPACE.

Learn more at atlasground.com

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