

Integrating on-orbit communications with HaloNet™

What is HaloNet?

HaloNet is Viasat's revolutionary orbital communications network providing resilient, secure, and scalable connectivity for space missions by integrating satellite relay, ground networks, and deployable communication platforms.

Whether you're managing a single satellite or an entire constellation, HaloNet provides the infrastructure to keep your mission informed, connected, and in control.

How does it work?

HaloNet simplifies space communications by making mission-critical functions more interoperable. It surrounds missions with a seamless ring of connection, integrating relay, ground access, and field operations into one adaptive architecture.

Whether you're managing launch telemetry, downlinking sensor data, or extending operations into the field, HaloNet provides complete command and control — backed by trusted coverage and modular access.

From Earth observation, scientific research, surveillance, and more, our orbital coverage and end-to-end capabilities take care of every stage of the mission.

HaloNet capabilities

- ✓ L-band telemetry and command for low Earth orbit and near-Earth missions
- ✓ Launch support telemetry for near-real-time telemetry and command links during critical early mission phases
- ✓ High-throughput Ka-band space relay for missions that need real-time data delivery and persistent access
- ✓ Direct-to-Earth ground station access

Why HaloNet?



Interoperable:
Unified approach to command, control, and data



Global reach:
Without complex infrastructure



Government-grade security:
From ground to orbit



Mission continuity:
Across all phases



Flexible, scalable architecture:
Adapts to your needs