

# Real-Time Earth

Rethinking ground segment as a service

The revolution in data delivery for Low Earth Orbiting (LEO) satellites is here. Imagine a future of virtually zero latency between data collection and dissemination anywhere. That is the world we are building.

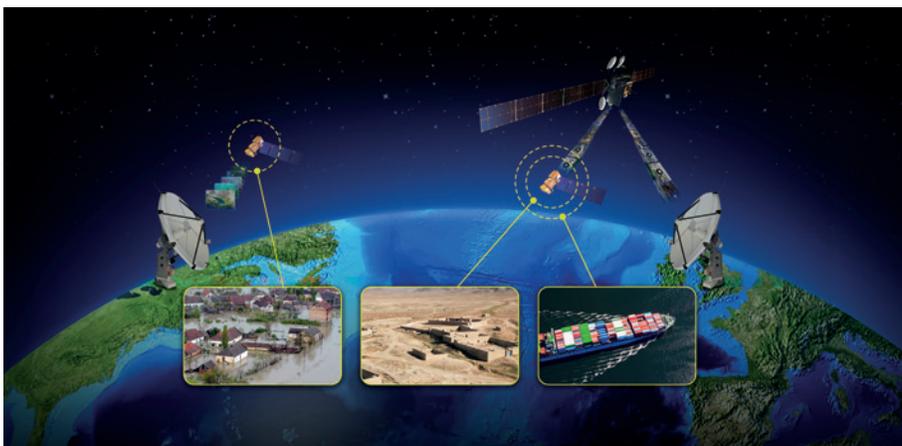
## Advancing data delivery

While satellite design and launch services have advanced significantly, the ground segment has lagged behind. The inability to command, downlink, and rapidly disseminate valuable earth observation and remote sensing data in a timely and secure manner is a business constraint to operators. Viasat is solving these challenges by leveraging our world-class ground antenna systems, unparalleled satellite technology and global network coverage.

This unique service offers satellite-to-ground communications for next-generation and legacy LEO satellites using S-, X-, and Ka-bands. Each customer gains access to their own virtual instance of the most reliable multi-mission modems for payload and TT&C, a monitor and control application trusted throughout the world, and network security backed by Viasat. Scheduling is done over a machine-to-machine interface run over a highly resilient cloud computing platform, available 24/7.

## Changing how data is delivered

End users in oil and gas, government, environmental, shipping and many other industries rely on getting their data as quickly as possible for critical decision making, and Viasat is strategically positioned to meet that demand. “Real-Time” satellite-to-satellite transmission is under development to provide a virtually zero latency environment for TT&C and payload data via LEO-to-Viasat-3 GEO satellite link. Real-Time Earth meets the requirements of today and is innovating for tomorrow. Join us in the data revolution.



## Features

- › **GLOBAL** Antenna systems strategically located worldwide to reduce latency; high-capacity continuous global coverage via space LEO-to-Viasat GEO satellite links in the near future.
- › **TRUSTED** Built on the same Viasat technology relied upon by the United States government and countries throughout the world to meet the most rigorous standards for reliability and security.
- › **RESILIENT** With thoughtful geographic site diversity in low-risk environments, back-up power as required, and spares on site, the RTE network is built for resilience.
- › **SCALABLE** Viasat’s IP-based architecture, downloadable software, and extensive installed base of Viasat antenna systems assures easy expansion of the RTE network with new Viasat ground stations and existing partner ground stations.
- › **SECURE** Employs (at a minimum) NIST 800-171 network security standards to protect sensitive mission data.
- › **FAST** Larger aperture antennas with state-of-the-art modems mean the highest data rates commercially available. More range, more data, less time.

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## Ground service

The only ground service completely backed by the world class technology of Viasat. This is a true network of strategically located antenna systems that are securely interconnected. Customers enjoy virtual access to a state-of-the-art multi-mission modem capable of downlink rates in the gigabits, with large antenna apertures allowing for closing the link at lower elevation angles. More data down, in less time.

### Coverage Areas<sup>1</sup>



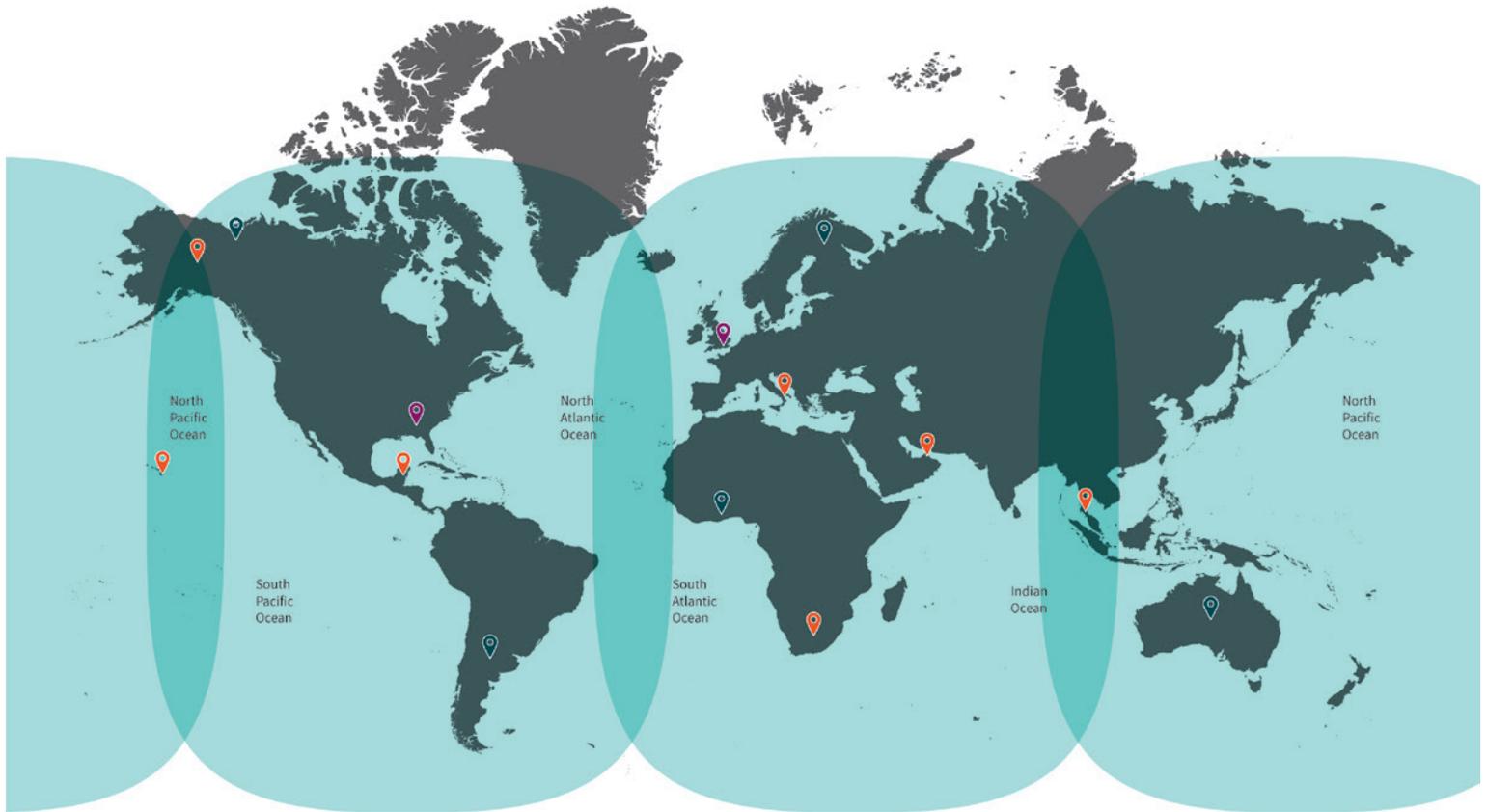
ViaSat-3

### Antenna Installations

 In operation

 2020

 Future planned



## Space service

With over 3 Tbps of capacity and global coverage using Viasat's groundbreaking ViaSat-3 constellation, the space network will enable real-time tasking and data delivery at the economics of broadband. Imagine real-time situational awareness, weather forecasting, environmental monitoring, and endless other applications.

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