

O3b mPOWER

O3b mPOWER Overview

O3B mPOWER FOR U.S. GOVERNMENT MISSIONS

O3b mPOWER is a unique system of advanced communication satellites and innovative ground infrastructure, fully integrated with the existing SES fleet and extended through an ecosystem of partners, to empower exponentially more with opportunities created by truly global cloud-scale connectivity.



The O3b mPOWER Vision

The original O3b MEO constellation was always envisioned as the first step in a bold and strategic evolution in global data services, and now O3b mPOWER facilitates the rapid shift to a cloud-based world – anywhere in the world.

To meet U.S. Government demand, O3b mPOWER scales the proven O3b model to deliver a ubiquitous, low-latency “virtual fiber” network to 30,000+ endpoints while seamlessly integrating with all other network infrastructure – from GEO satellites to fiber to microwave and new innovations.

O3b mPOWER challenges the conventional wisdom of what satellite services can do. As a high-powered, highly distributed network, O3b mPOWER has the ability to provide high-performance cloud-scale connectivity. As a result, it expands the role of satellite in an increasingly seamless global networking environment, and it opens a world of digital opportunity for organizations of all sizes regardless of their location or application requirements.

In short, O3b mPOWER is the highest-capacity, farthest-reaching, and most flexible satellite-based communications system ever.

O3b mPOWER TECHNOLOGY

A system unlike any other, O3b mPOWER includes step change technology advancements, including a new constellation of advanced MEO satellites, ground infrastructure innovation and convergence, and new software intelligence. The result is cloud-scale connectivity for low latency, application-aware services virtually anywhere in the world.

SATELLITE INNOVATION

O3b mPOWER sets new industry benchmarks across multiple performance metrics:

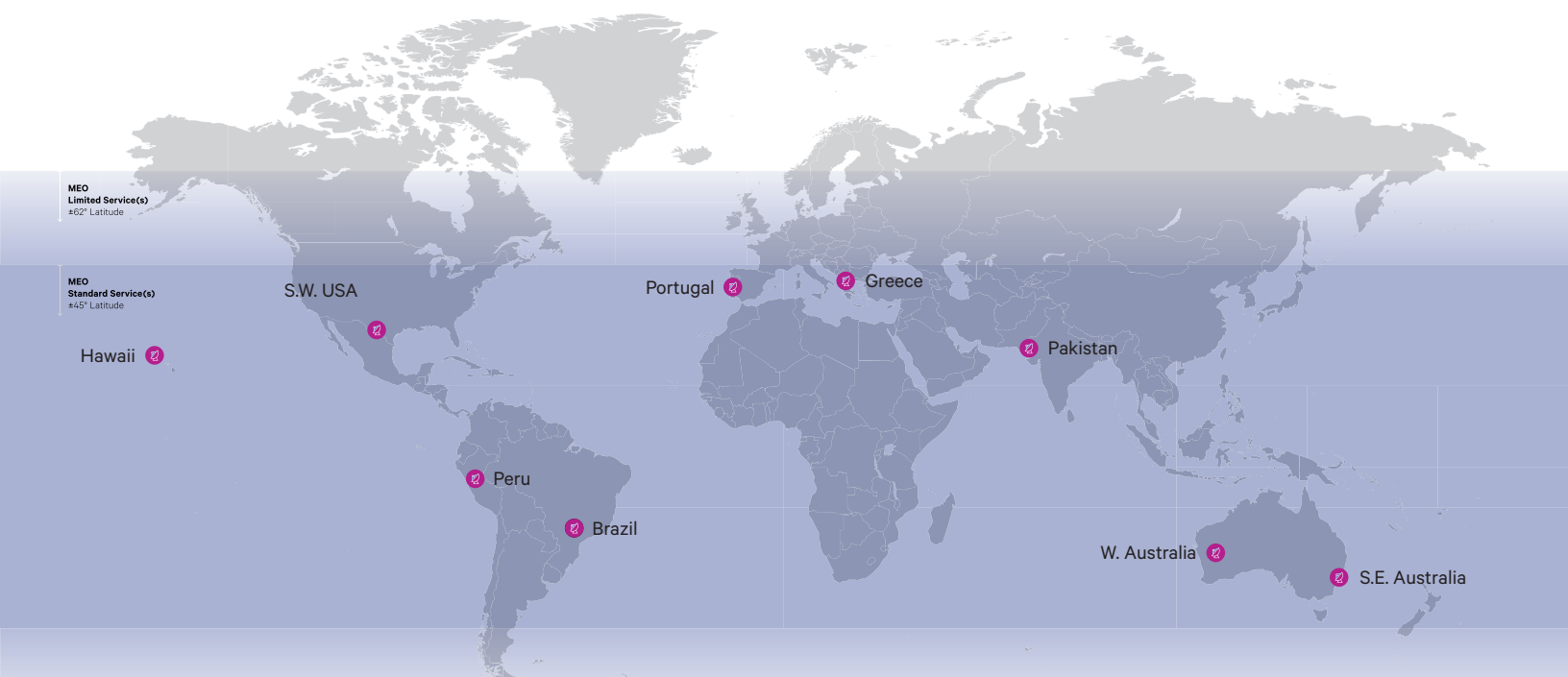
- **Capacity** – capable of delivering multiple terabits of throughput globally and can scale to tens of terabits
- **Flexibility** – intelligent beamforming enables the ability to shape, moderate, route, shift and switch beams to tailor and deliver bandwidth virtually anywhere
- **Coverage** – more than 30,000 formed beams systemwide provide unrivaled coverage of +/- 50 degrees latitude for nearly 400 million km², with full global coverage possible via inclined planes
- **Productivity** – with market-leading capacity, flexibility and coverage, O3b mPOWER is highly focused on visible earth and is capable of being fully productive 100% of the time – directing bandwidth to customers, not empty territory

CUSTOMER EDGE TERMINALS

O3b mPOWER introduces a new concept in network endpoints: Customer Edge Terminals. Bringing together application-specific antennas, storage, compute and routing resources, virtualized network functions and network intelligence in a small device that is fast and simple to install, O3b mPOWER puts high-performance data services in reach for more kinds of customers and in more places than ever before.

INTELLIGENT SOFTWARE

Software-defined networking capabilities enable O3b mPOWER to deliver services that are automated, agile and assured. In addition to the introduction of software-defined WAN services, the software behind O3b mPOWER provides the ability to route traffic by application over GEO, MEO and terrestrial links for intelligent resiliency. These advanced capabilities drive efficiency, reliability and flexibility for customers and their end-users.



SES MEO NETWORK

