![SES logo]

TRUNK mPOWERED

—

Extend and protect your core network anywhere

323K

small population centres across the globe are still under-served by broadband networks

INDUSTRY PERSPECTIVE

According to Northern Sky Research (NSR), approximately 323,000 small population centres across the globe are still under-served by broadband networks, creating a large addressable market that will drive the demand for backhaul—from 224Gbps in 2021 to an estimated 22Tbps in 2030. Yet, fibre is often too costly to extend to remote locations, and microwave infrastructure requires significant resources to operate. For network operators who provide business, government, and residential end-users with critical broadband services, reliable high-throughput and low-latency satellite trunking is an essential solution—not only to reach under-served regions, but also to increase network resiliency in existing critical locations.

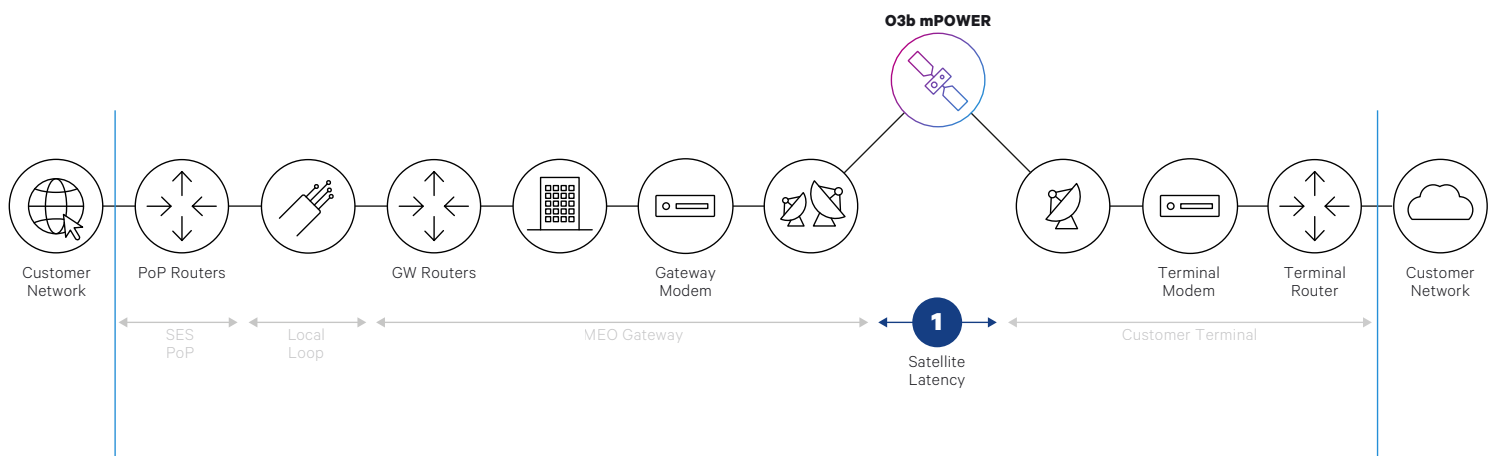O3b **mPOWER**

SERVICE DESCRIPTION

The Trunk mPOWERED service, enabled by O3b mPOWER—our next-generation medium Earth orbit (MEO) communications system—helps you extend your core network to under-served areas, quickly and economically. Use uncontended, multi-gigabit network services to meet universal service obligations, accelerate entry to new markets, and capture untapped revenue opportunities.

Leveraging thousands of electronically steered beams and software-driven resource control, O3b mPOWER provides you with the flexibility to route traffic to the gateway that best fits your network requirements—helping you reduce operational costs, maximise network performance, and easily comply with regulations.

While reaching untapped markets via terrestrial-based solutions can be time-consuming and expensive, O3b mPOWER accelerates time to market, delivers fibre-like low-latency performance, and extends reach using the same standards-based technologies employed by network operators worldwide.

We deliver a transparent service experience focused on ease of business, with unrivalled support at every step—from ensuring your service is deployed on time and as per the agreed plan, to maintaining its health and delivering optimal network performance throughout the service duration.

Extending your core network with Trunk mPowered

O3b mPOWER

Customer Network — PoP Routers — GW Routers — Gateway Modem — **1** Satellite Latency — Terminal Modem — Terminal Router — Customer Network

SES PoP — Local Loop — MEO Gateway — Customer Terminal

O3b **mPOWER**

TECHNICAL SPECIFICATIONS

Trunk mPOWERED is available in three service packages—Prime, Pro, and Premium—allowing you to select the service option that best fits your networking requirements.
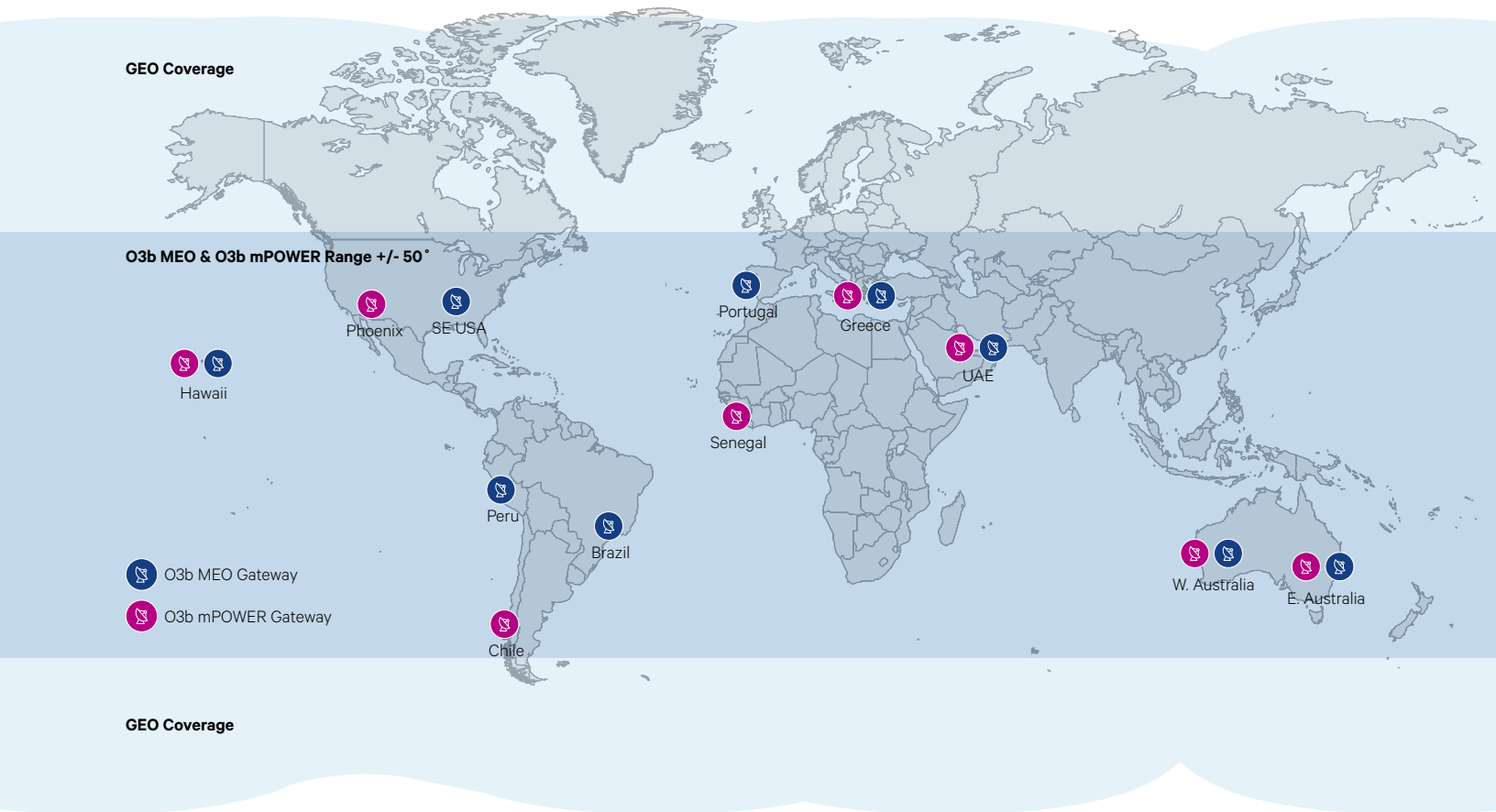
	PRIME			PRO			PREMIUM		
Constellation	O3b mPOWER			O3b mPOWER			O3b mPOWER		
Connectivity transport service	Layer 2 Ethernet P2P E-Line service (E-Access/E-Transit), Layer 3 IP transport			Layer 2 Ethernet P2P E-Line service (E-Access/E-Transit), Layer 3 IP transport			Layer 2 Ethernet P2P E-Line service (E-Access/E-Transit), Layer 3 IP transport		
Capacity packages	Minimum combination of 50Mbps (FWD+RTN):			Minimum combination of 100Mbps (FWD+RTN):			Minimum combination of 300Mbps (FWD+RTN):		
		Min.	**Max.**		**Min.**	**Max.**		**Min.**	**Max.**
	FWD	25	1000	FWD	10	1500	FWD	50	Multi-Gbps
	RTN	10	500	RTN	10	750	RTN	50	750
Link agility	Pre-defined link ratios (1:1 to 16:1) are available			Symmetric or asymmetric link ratios, with higher service data rates requests available for a limited time			Symmetric or asymmetric link ratios, with higher service data rates requests available for a limited time		
Burstability	Burst available with 10:1 contention			Burst available with 4:1 contention			Burst available without contention		
Network uptime SLA	≥99.5%			≥99.5%			≥99.5%		
Round-trip satellite latency SLA	≤150ms			≤150ms			≤150ms		
Customer portal	Includes network uptime, throughput consumption, and latency			Includes network uptime, throughput consumption, and latency			Includes network uptime, throughput, latency, jitter, and packet loss		
Antenna size	2 x 0.85m 20W, mP85 2 x 1.3m 20W, Intellian mP130 2 x 2.4m 40W, Viasat			2 x 2.4m 40W, Viasat			2 x 0.85m 20W, mP85 2 x 1.3m 20W, Intellian mP130 2 x 2.4m 40W, Viasat		

A variety of value-added services and features can be added to some Trunk mPOWERED service levels:

- **Customer-defined Point of Presence (PoP):** Customers can select any PoP location for traffic handoff, even those not in SES's network.

- **Data API Access:** Application Protocol Interface (API) feeds provide network operation and reporting of attributes such as throughput, latency, uptime, and jitter.*

- **Portability:** Transfer bandwidth from one site to another (new or existing) within a region.

- **Link agility:** Change link symmetry and service data rate of one or more links, without changing initial contract.

- **Bustability:** Temporarily increase maximum bandwidth for short periods of time to meet demand. Available on Premium tier only.

O3b **mPOWER**

*On roadmap, not available at start of service

GLOBAL COVERAGE MAP

GEO Coverage

O3b MEO & O3b mPOWER Range +/- 50˚

Phoenix   SE USA

Hawaii

Portugal   Greece

UAE

Senegal

Peru

Brazil

O3b MEO Gateway

O3b mPOWER Gateway

W. Australia   E. Australia

Chile

GEO Coverage

REIMAGINE YOUR BUSINESS WITH TRUNK mPOWERED

Extending your network beyond its current boundaries is crucial to reaching new markets, and enabling essential network services for under-served businesses, government agencies, and residential end-users. With ground-breaking throughput and low-latency performance backed by robust service level agreements, and comprehensive packages offered with a range of value-added services, Trunk mPOWERED helps you extend your core network to reach new customers—even in remote and hard-to-reach areas.

Learn how Trunk mPOWERED can help you accelerate your regional reach and growth.

Learn more about our full portfolio of services and solutions at **ses.com**