



SOVEREIGN COTM mPOWERED

Maximise mission efficiency with secure
Communications on the Move

A modern overseas
ground operation
might generate
hundreds of gigabytes
of data per day.

INDUSTRY PERSPECTIVE

As land-based mobile assets become more sophisticated, connecting them to geographically distributed infrastructure components and facilities requires next-generation data services. Conventional satellite communication services are no longer sufficient. A modern overseas ground operation might generate hundreds of gigabytes of data per day, producing much-needed intelligence and mission-critical data. Yet maximising the use of this data in operational areas

where fibre connectivity is unavailable remains a challenge. Modern satellite communications systems offer the only feasible, secure, and cost-efficient solution.

With high-bandwidth, low-latency services, commanders can access seamless communications across operations, and leverage valuable data and insights—even while on the move.



SERVICE DESCRIPTION

To support our customers in the government segment, and the entities that serve them, the Sovereign COTM mPOWERED service delivers a private fibre-like mobile broadband experience to command posts and tactical vehicles—both on the move and on the pause. Enabled by O3b mPOWER—our next-generation Medium Earth Orbit (MEO) communications system—the service facilitates flexible capabilities to meet diverse geographic and throughput needs efficiently.

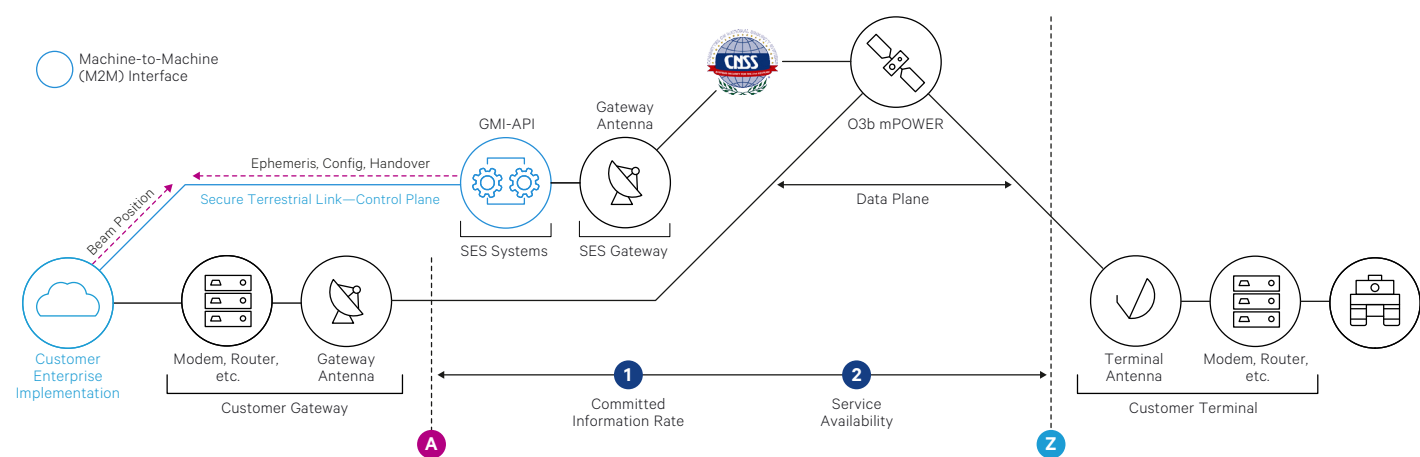
Sovereign COTM mPOWERED uses proven, state-of-the-art, single-antenna COTM terminals that are lightweight, user friendly, and easily installed on the roof of a vehicle. Our customers can create a customised private COTM network, with the ability to define a continuous service area with customer-defined coverage and capacity to efficiently serve both high and low traffic areas. The service enables contention

uncontended high-throughput, low-latency connectivity—with a per-vehicle capacity of up to 40Mbps on forward and return links combined.

Our customers can use their preferred waveforms and terminals, add resilience to tactical communications using High Assurance Internet Protocol Encryptor (HAiPE) and other government encryption solutions, and leverage the inherent anti-jam and resiliency inherent to MEO. Sovereign control can be enhanced by landing traffic at government gateways and defining customer-specific private network topologies.

With Sovereign COTM mPOWERED, we deliver a transparent service experience with unrivalled support at every step—from ensuring expert network deployment to maintaining optimal, predictable performance throughout the service lifecycle.

Unparalleled performance, operational flexibility, and scale for Communications on the Move—with enhanced government control





TECHNICAL SPECIFICATIONS

The Sovereign COTM mPOWERED service is available in two packages—Tier 1 (up to 40Mbps) and Tier 2 (up to 20Mbps).

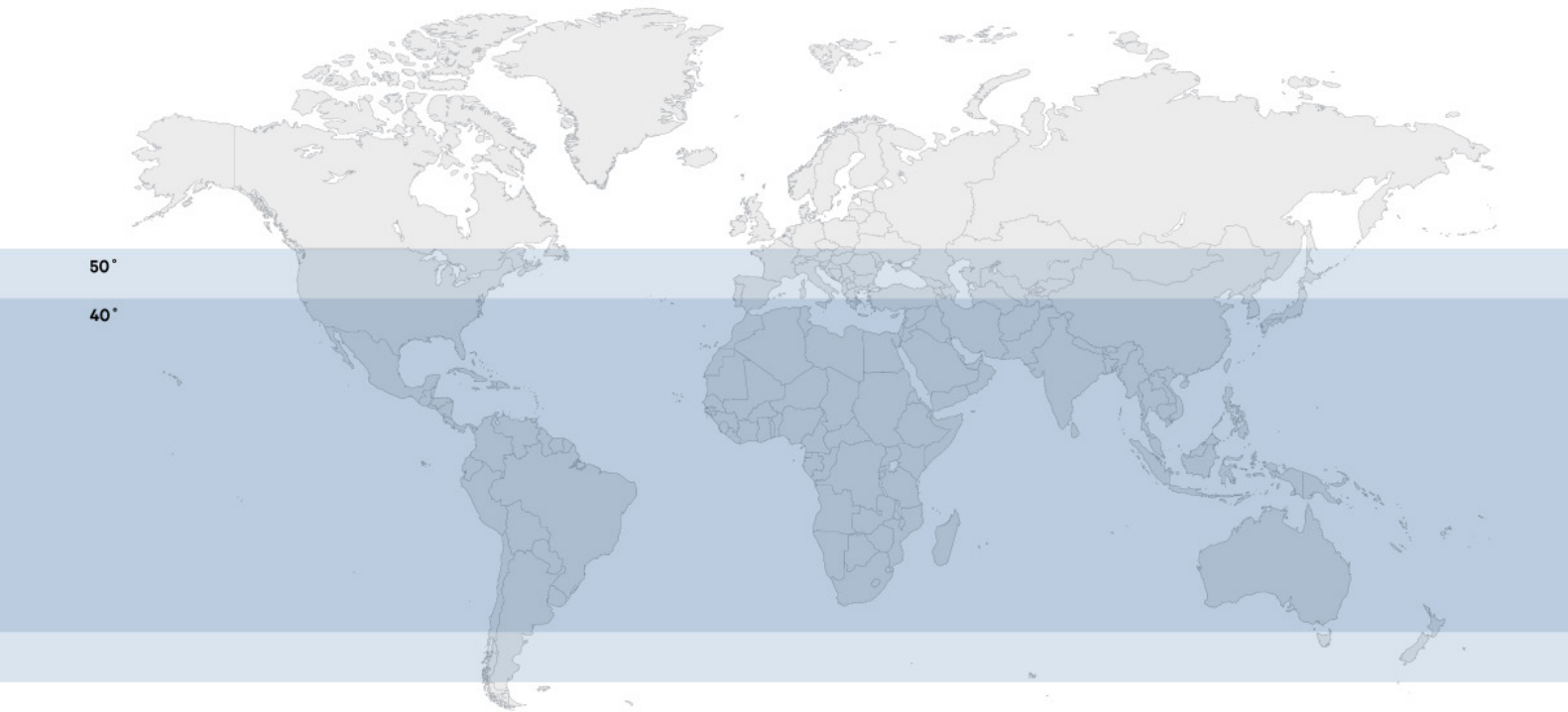
Constellation	O3b mPOWER	
Connectivity transport service	Physical Layer-1 transmits data between two RF endpoints over radio frequency	
Service availability SLA	98.5%	
Network latency SLA	150ms RTT	
Gateway	Customer gateway	
	Tier 1	Tier 2
Terminal options	Option 1 Customer-provided SES-certified modem and terminal	Option 1 Customer-provided SES-certified modem and terminal
	Option 2 GD 20-20M ¹ (modem agnostic), one-time payment	Option 2 Get SAT Milli SAT H (or W) LM with integrated Micromodem, one-off payment
	Option 3 GD 20-20M ¹ (modem agnostic), payment plan included in MRC ²	Option 3 Get SAT Milli SAT H (or W) LM with integrated Micromodem, payment plan included in MRC
Antenna/BUC	20.5" or 52cm/25W	9.8" or 25cm/25W
Capacity packages	FWD: 20Mbps RTN: ≤20Mbps	FWD: 10Mbps RTN: ≤10Mbps
Link flexibility	Customers can choose from FWD/RTN ratios of 3:1, 2:1, 1:1, 1:2, or 1:3	
Coverage	Defined operational area within +/- 50° latitude	
O3b mPOWER HW compatibility certification	Customer sponsorship; vendor action	
API integration	Customer sponsorship; vendor action	

¹Testing of MEO variant of GDMS SATCOM-on-the-Move Model 20-20M completed and it is ITAR/export controlled.

The Sovereign COTM mPOWERED service offers a range of features based on the requirements of government users:

- The use of customer-selected terminal hardware (subject to certification) ensures that existing equipment in your network can continue to be used to create mission-optimised ground elements.
- Government encryption solutions—including High Assurance Internet Protocol Encryptor (HAiPE)—with inherent anti-jam and resilience features.
- Ability to execute secure mobility, land traffic at your sovereign gateways, define unique government private network topologies, and use the waveform and encryption of your choice.

GLOBAL COVERAGE MAP



REIMAGINE YOUR ON-THE-MOVE COMMUNICATIONS WITH SOVEREIGN COTM mPOWERED

Having ample bandwidth, reconfigurable on a per-location basis, allows your ground-based mobile assets to remain in constant touch with other systems and facilities anywhere in the world, enabling them to deliver operational data in a reliable and timely manner.

From mission-critical operational and navigational data transfer to video conferencing, only O3b mPOWER offers the scale necessary to provide a fibre-like broadband experience—even while on the move.

Learn how [Sovereign COTM mPOWERED](#) can help you optimise communications with your land-based mobile operations.



Learn more about our full portfolio of services and solutions at [ses.com](#).

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