

SOVEREIGN NAVAL mPOWERED

Connect your maritime assets with high-performance, secure data services

High-bandwidth, low-latency communications are now becoming a necessity for successful naval operations.

INDUSTRY PERSPECTIVE

As seaborne government assets become more sophisticated, connecting them to command-and-control infrastructure and analysis facilities on land requires next-generation data services. Conventional satellite communication services are no longer sufficient. A modern

warship might generate hundreds of gigabytes of data per day, producing and accessing much-needed intelligence and operational insights. High-bandwidth, low-latency communications are now becoming a necessity for successful naval operations.



SERVICE DESCRIPTION

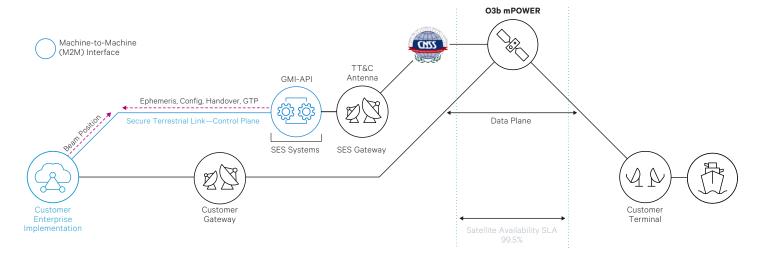
To support naval assets engaged in government operations, Sovereign Naval mPOWERED delivers unparalleled high-performance connectivity and operational flexibility on a scalable, global basis. The service is enabled by O3b mPOWER—our next-generation Medium Earth Orbit (MEO) communications system, which delivers a unique solution that allows government maritime customers to maximise sovereign control and security while operating on a commercial satellite system.

As part of O3b mPOWER's Sovereign Product Portfolio, Sovereign Naval mPOWERED allows customers to define and manage their own uncontended

bandwidth up to 1.5Gbps per ship, execute secure mobility, land traffic at their sovereign gateway, define unique government private network topologies, and use the waveform and encryption of their choice. Sovereign steerable beam (SSB) mobility can be deployed on a per-ship basis, with location obfuscation and the anti-jam and resiliency features inherent to MEO.

With Sovereign Naval 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 with enhanced government control



Tier 3

Option 2

0.85m/20W

Option 1

Customer-provided SES-certified1

SES-provided 0.85m terminal

Same equipment as above,

Total throughput 100Mbps

FWD/RTN ratio of 2:13

defined OR ≤2.5M sq. km

Regional service within customer-

payment plan included in MRC2

and/or modem, one-time payment

terminal and modem



Constellation

Satellite availability SLA

Gateway

Terminal options

Antenna/BUC

Capacity packages for operating region (OR) (baseline throughput)

Pre-defined OR with CIR

Link agility

Coverage

Within +/- 50° latitude

Link reconfigurability

Modify FWD:RTN ratio

OR portability

Within +/- 50° latitude; no more than three times per calendar year

Number of ships

on-concurrent operations/no pooling)

Terms and conditions

Billing

TECHNICAL SPECIFICATIONS

Tier 2

Option 2

1.3m/20W

Option 1

Option 2

3:1. or 2:1

The Sovereign Naval mPOWERED service is available in three packages—Tier 1 (up to 1.5Gbps per ship), Tier 2 (up to 500Mbps per ship), and Tier 3 (up to 100Mbps per ship).

customer-provided SES-certified¹

and/or modem, one-time payment

terminal and modem

SES-provided 1.3m terminal

Same equipment as above,

payment plan included in MRC2

Total throughput 100-500Mbps

Global service for transit (within MEO

(50Mbps increments)

coverage): 45Mbps (2:1)

defined OR ≤5M sq. km

FWD/RTN ratios of 4:1,

Regional service within customer-

Options for 2.5M Or 5M sq. km

O3b mPOWER

99.5%

Sovereign government gateway

Tier 1

Customer-provided SES-certified1 terminal and modem

Option 2

SES-provided 2.4m terminal and/or modem, one-time payment

Same equipment as above, payment plan included in MRC2

2.4m/40W

Option 1

Total throughput 500-1,500Mbps (100Mbps increments)

Option 2

Global service for transit (within MEO coverage): 45Mbps (2:1)

FWD/RTN ratios of 4:1, 3:1. or 2:1

Regional service within customerdefined OR ≤10M sq. km

Options for 2.5M, 5M, or 10M sq. km

Option 2 - Basic—monthly (at least 72-hour ANP prior to beginning of next billing cycle)

Option 1 - Not available

Option 2 - Available¹ (must provide at least 72-hour ANP prior to date when ported OR is needed for service)

Per-ship service (up to eight ships can be assigned to a beam, but only one can use it at a time)

- Option 1 One base year, plus option years (with standard gov early termination)
- Option 2 Three base years, plus option years (standard gov early termination applies only to option years
- Option 3 Five years (no early termination)

MRC based on CIR; uncontended service

¹Certification enabled by the SES Government Technology Certification (GTC) process. Full details provided upon request.

 $^{\mathrm{2}}$ In Option 3, equipment is amortised over the base years of the original contract. Once the contract is complete, the customer retains complete ownership of the equipment. If the customer chooses to renew the contract, the MRC is updated to no longer include equipment costs.

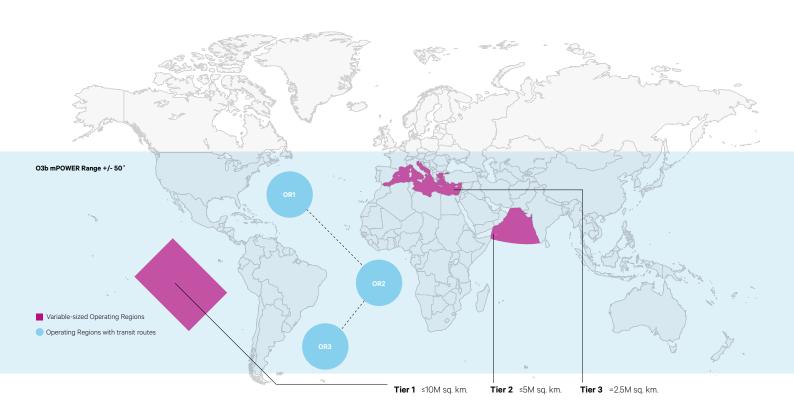
³The link budget does not allow for a greater FWD:RTN ratio than 2:1 for the Tier 3 package due to the smaller antenna size

Sovereign Naval mPOWERED offers a range of features to meet 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 and shipborne elements.
- Ability to execute secure mobility, land traffic at sovereign gateways, define
- unique government private network topologies, and use the waveform and encryption of your choice.
- Customer-controlled sovereign steerable beams (SSB) through a Generic Modem Interface-Application Programming Interface (GMI-API), with location obfuscation.



GLOBAL COVERAGE MAP



REIMAGINE YOUR MARITIME COMMUNICATIONS WITH **SOVEREIGN NAVAL mPOWERED**

Having ample bandwidth, reconfigurable on a per-ship basis, allows your naval assets to remain in constant touch with shore-based systems, enabling them to deliver intelligence and operational data in a reliable and timely manner.

Sovereign Naval mPOWERED provides unmatched high-throughput, low-latency, and secure data services for a wide variety of use cases. From mission-critical information transfer to video conferencing and enhancing the quality of life (QoL) of shipboard personnel, only O3b mPOWER offers the scale needed to enable a fibre-like quality of experience—even at sea.

Learn how Sovereign Naval mPOWERED can help you optimise your naval communications.









