



## 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

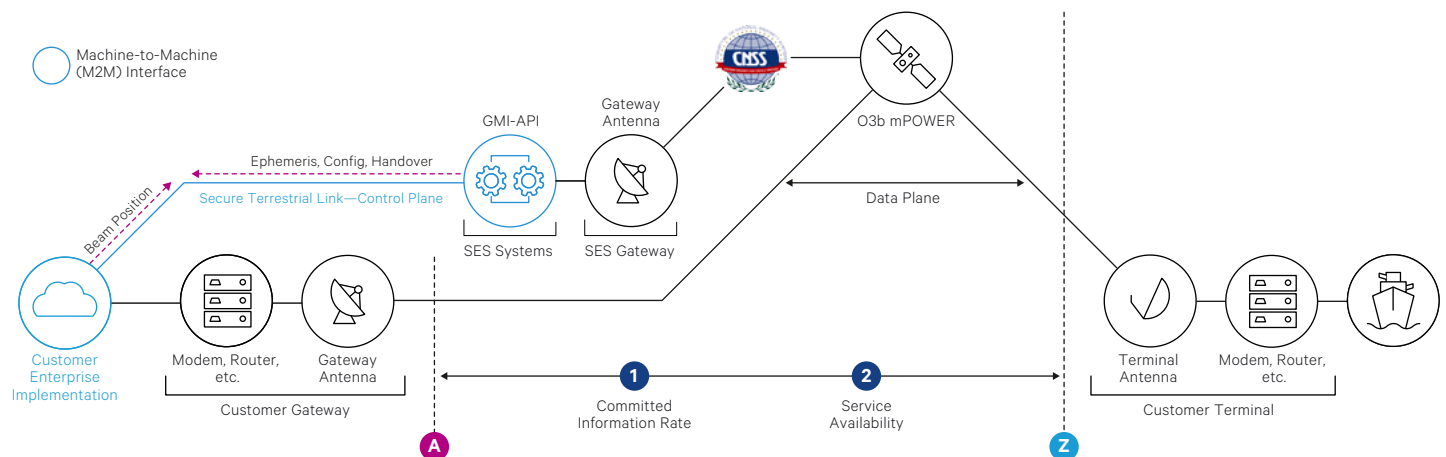
To support naval assets engaged in government operations, Sovereign Naval mPOWERED delivers unparalleled high-performance connectivity and operational flexibility on a scalable, global basis. The service is enabled by O3b mPOWER—our next-generation Medium Earth Orbit (MEO) communications system, which 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





## TECHNICAL SPECIFICATIONS

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).

<b>Constellation</b>	O3b mPOWER		
<b>Service availability SLA</b>	Option 1: 98.5%, Option 2: 99.5%		
<b>Network latency SLA</b>	150ms RTT		
<b>Gateway</b>	Customer gateway		
	<b>Tier 1</b>	<b>Tier 2</b>	<b>Tier 3</b>
<b>Terminal options</b>	<b>Option 1</b> Customer-selected SES-certified modems and terminals  <b>Option 2</b> Intellian 2.4m terminal and/or ARC-enabled modem, one-off payment  <b>Option 3</b> Intellian 2.4m terminal and/or ARC-enabled modem, payment plan included in MRC	<b>Option 1</b> Customer-selected SES-certified modems and terminals  <b>Option 2</b> Intellian 1.3m terminal and/or ARC-enabled modem, one-off payment  <b>Option 3</b> Intellian 1.3m terminal and/or ARC-enabled modem, payment plan included in MRC	<b>Option 1</b> Customer-selected SES-certified modems and terminals  <b>Option 2</b> Intellian 0.85m terminal and/or ARC-enabled modem, one-off payment  <b>Option 3</b> Intellian 0.85m terminal and/or ARC-enabled modem, payment plan included in MRC
<b>Antenna/BUC</b>	2.4m/40W	1.3m/20W	0.85m/20W
<b>Capacity packages</b>	<b>Option 1</b> Pre-defined operational area: <ul style="list-style-type: none"> <li>• 500Mbps – 1,500Mbps</li> <li>• 100Mbps increments</li> </ul> <b>Option 2</b> Global service for transit between operational areas (within MEO coverage): <ul style="list-style-type: none"> <li>• 45Mbps (2:1)</li> </ul>	<b>Option 1</b> Pre-defined operational area: <ul style="list-style-type: none"> <li>• 100Mbps – 500Mbps</li> <li>• 50Mbps increments</li> </ul> <b>Option 2</b> Global service for transit between operational areas (within MEO coverage): <ul style="list-style-type: none"> <li>• 45Mbps (2:1)</li> </ul>	<b>Pre-defined operational area:</b> <ul style="list-style-type: none"> <li>• 100Mbps</li> </ul>
<b>Link flexibility</b>	FWD/RTN ratios of 4:1, 3:1, or 2:1	FWD/RTN ratios of 4:1, 3:1, or 2:1	FWD/RTN ratio of 2:1
<b>Coverage</b> Within +/- 50° latitude	<b>Option 1</b> Regional service within customer-defined operational area ≤10M sq. km  Options for 2.5M, 5M, or 10M sq. km  <b>Option 2</b> Global service for transit between operational areas	<b>Option 1</b> Regional service within customer-defined operational area ≤5M sq. km  Options for 2.5M or 5M sq. km  <b>Option 2</b> Global service for transit between operational areas	Regional service within customer-defined operational area = 2.5M sq. km
<b>Number of ships</b> (non-concurrent operations /no pooling)	Per-ship service (up to eight ships can be assigned to a beam, but only one can use it at a time)		

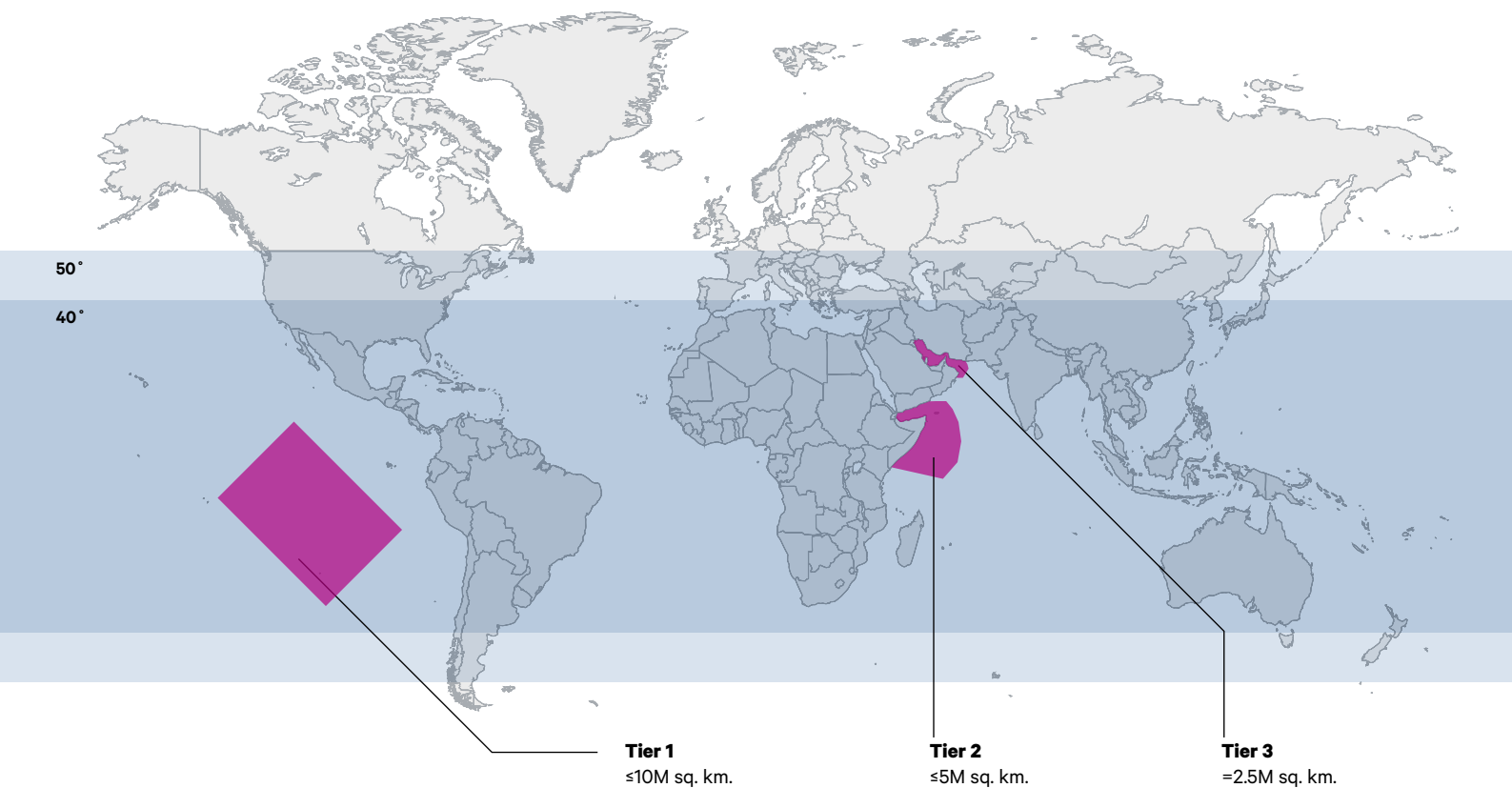


Sovereign Naval mPOWERED offers a range of features to meet the requirements of government users:

- 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](https://www.ses.com) can help you optimise your naval communications.



Learn more about our full portfolio of services and solutions at [ses.com](https://www.ses.com).

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