



### **Broadband Services, Anywhere**

SeaVsat's maritime solutions for marine communications services provide all the benefits of a carrier-class SatLink network for traditional ISPs and telecom carriers. Plus, it meets the unique requirements for global mobility for all types of marine vessels (e.g., cruise ships, ferries, freighters, fishing vessels, and private yachts) when paired with a stabilized marine antenna system.

Advantages of SeaVsat's Maritime Solutions include:

- Roaming between coverage
- Flat rate service
- Up to 4 Mbps downloads
- 24 x 7 support



### **Sophisticated Maritime VSATs**

The special SatLink Maritime VSATs (e.g., SatLink 1910 Maritime) work with the corresponding features implemented in the SeaVsat teleport or hub to allow global roaming and handle the roll and pitch of the seas, making the services less susceptible to outages. SatLink Maritime VSATs are also equipped with a GPS and special software for fast log-on and smooth transitions between different satellite beams while roaming.

SeaVsat's maritime technology allows you to define a different type and scope of service for each marine vessel served. Services can include Broadband Internet, operator defined VoIP services, and even standard cellular telephony services such as GSM and new 3G and 4G services. Each vessel can be given its own bandwidth and QoS policies. Speeds up to 4 Mbps of forward link capacity to a given vessel and up to 640 kbps return link to the mainland are offered from SeaVsat's global teleports. Higher return link capacities are feasible with custom implementations and dedicated SatLink hubs.

## **Global Coverage**

SeaVsat provides supplier services, installation, and equipment, all available on a global beam, which is a major advantage for those traveling great distances. SeaVsat is responsible for managing roaming in a way that provides global coverage with a single operator and equipment.

## **High flexibility, up to 4 Mbps / 640 kbps**

SeaVsat offers a wide range of products that allow defining different types of service for each of the client vessels. It is possible to define products with lower bandwidth for small vessels or private yachts, as well as products with higher capacity (up to 4 Mbps in inbound, and 640 kbps in outbound), for large vessels or cruise ships, on which there is high demand for Internet access, voice, and data.



## **DVB-S2 and DVB-RCS Compliant**

- ◆ Automatically updates GPS position by NMEA signal
- ◆ Up to 10 forward link configurations can be stored in order to achieve automatic roaming
- ◆ Routing features: Static & dynamic NAT and NAPT
- ◆ Virtual LAN definition
- ◆ Performance Enhanced Proxy Client (PEP-TCP), for increasing the bit rate
- ◆ QoS definition and control, for every service class (Best Effort, Voice, Videoconference, Critical Data)
- ◆ Parental Control ◆ HTTP Caching ◆ DHCP server
- ◆ Up to 18 Mbps IP throughput (1500 byte packets)
- ◆ Multicast support ◆ IPsec compatible (VPN)
- ◆ Header compression: removes up to 23 bytes on Tx and up to 21 bytes on Rx on each encapsulated IP packet
- ◆ Enhanced DiSEqC support, enabling very accurate control of the ODU output power when used together with the integrated power detector in the SatLink 4033 transmitters

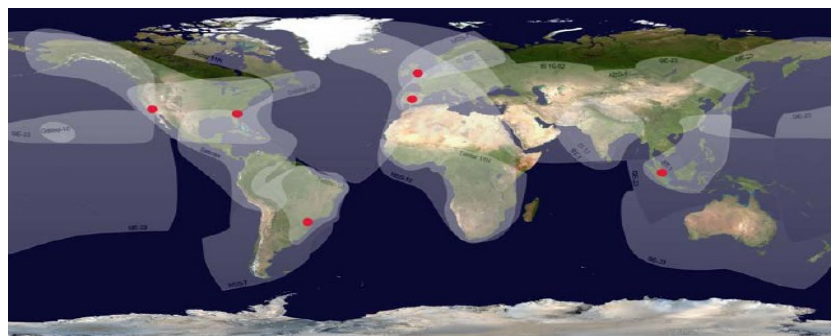


## **Roaming**

Our teleports cover most continents and ocean areas, serving the requirements of both terrestrial and marine applications with extensive global roaming capabilities for mobile terminals. High-speed mobile applications (e.g., for auto, truck and trains) are also served, as are transportable VSATs.

Six hubs located all over the world provide the global coverage. However, the whole group of hubs works as one. This fact, in addition to the pioneering technology, makes it possible to get an automatic roaming service, so the vessels will not need to change the configuration when moving from one beam to another. The achievement of automatic roaming is based on the technology of SatLink hubs and VSATs.

When a vessel has contracted a roaming service, the SatLink VSAT will receive the configuration for every one of the forward links it can connect to. This VSAT will be activated in several beams. Then, when the vessel changes from one footprint to another, the VSAT will connect to the appropriate hub.





### **SeaVsat Services**

SeaVsat offers a comprehensive array of service capabilities tailored to specific needs of maritime mobile implementations, including:

◆ *Global Teleport Services with capabilities such as:*

=> SeaVsat Connect – a flexible connectivity option with Bandwidth-on-Demand (BoD)

=> SeaVsat Multicast      => Global coverage      => VoIP Services

=> VPN (interconnection with terrestrial networks)

=> Global Interconnection between subsidiaries

=> Emergency and disaster recovery services

◆ *Full satellite network planning & design*

◆ *Turnkey Hub deployments and overall VSAT network project management*

◆ *Full network operation and maintenance services:*

=> Backup Service      => Staffing for hub operations

=> Installation      => Field support

=> Preventative and responsive maintenance



In addition, 24x7 year round global customer support is provided in English and Spanish for all SeaVsat products and service offerings.