

# The "Intelligent Vessel" Solution Suite



## Maritime 3G/GPRS Broadband Roaming *a module of the Intelligent Vessel Solution*

# The "Intelligent Vessel" Suite



## SEAMLESS OPERATION

Utilizing SUN Microsystems unique Thin Client solutions over a robust virtualized environment we achieve high security levels. No more uncontrolled PC environment that causes numerous malfunctions and operational down times.

## FLEXIBLE & VERSATILE

Designed taking into consideration all current and future maritime technology achievements, the Intelligent Vessel provides flexible configuration capabilities to depict the real operational needs of any Shipping company.

## UNIQUE COMBINED FEATURES

Combining a complete suite of on-board communication and file transfer features such as: e-mail spam filtering, transfer data size restriction policy, auto-copy of messages to designated office accounts, web-caching for broadband connections etc. And of course a detailed and complete history log and reporting.

## EXCEPTIONAL R.O.I.

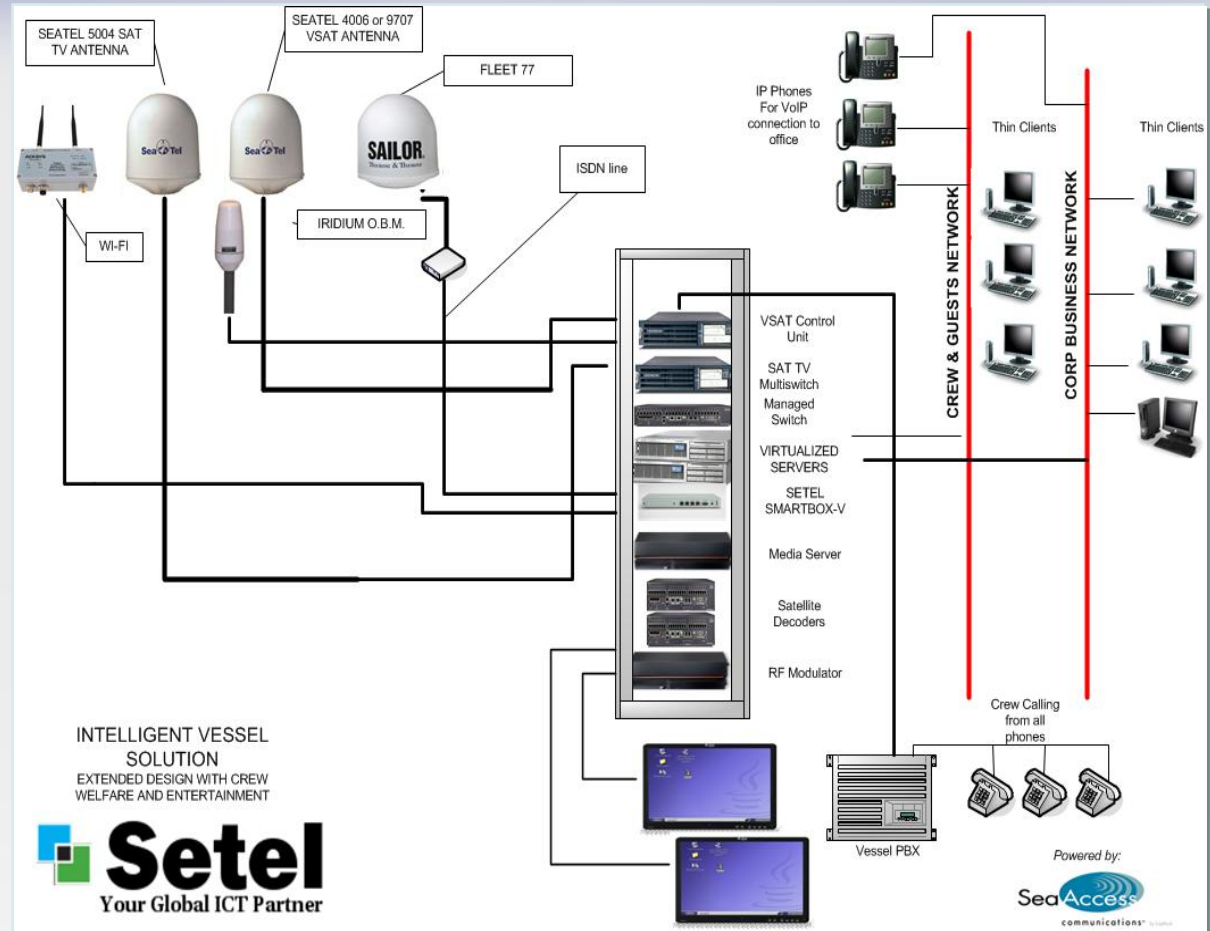
With Data LCR (Least Cost Routing) facilitation, elimination of PC usual problems, reducing down time, managing remotely the Vessel Network and improving productivity the Return on Investment is exceptional.

## ADVANCED SECURITY

Intelligent Vessel provides a totally secure environment where all corporate data are protected. Any new software installation, user modification, access rights, resources availability is remotely managed from shore.

## FIELD PROVEN PERFORMANCE

With a significant number of commercial vessels operating worldwide, the "Intelligent Vessel" solution is constantly proving its value. Customer testimonials are the live proof.



# Maritime 3G/GPRS Broadband Roaming Connection



The industry's unique 3G/GPRS Broadband Roaming Connection available on most major ports at fixed international rates and integrated with Intelligent Vessel.

## Integrated

- Seamless integration with the “Intelligent Vessel” suite
- Easy and seamless integration to the on-board network

## Customizable

- Extended bundle of customized services for Ship-to-Shore integration.

## Affordable

- Affordable and flexible pricing models to match any functional and operational needs and fit into communication budget.

## High Speed

- High quality services from Vodafone and Setel.
- 3G broadband connection to International major ports at high speeds. Ideal for remote support and maintenance

## International

- 3G broadband connection to International major ports at high speeds. Ideal for remote support and maintenance

# Maritime 3G/GPRS Broadband Roaming Connection



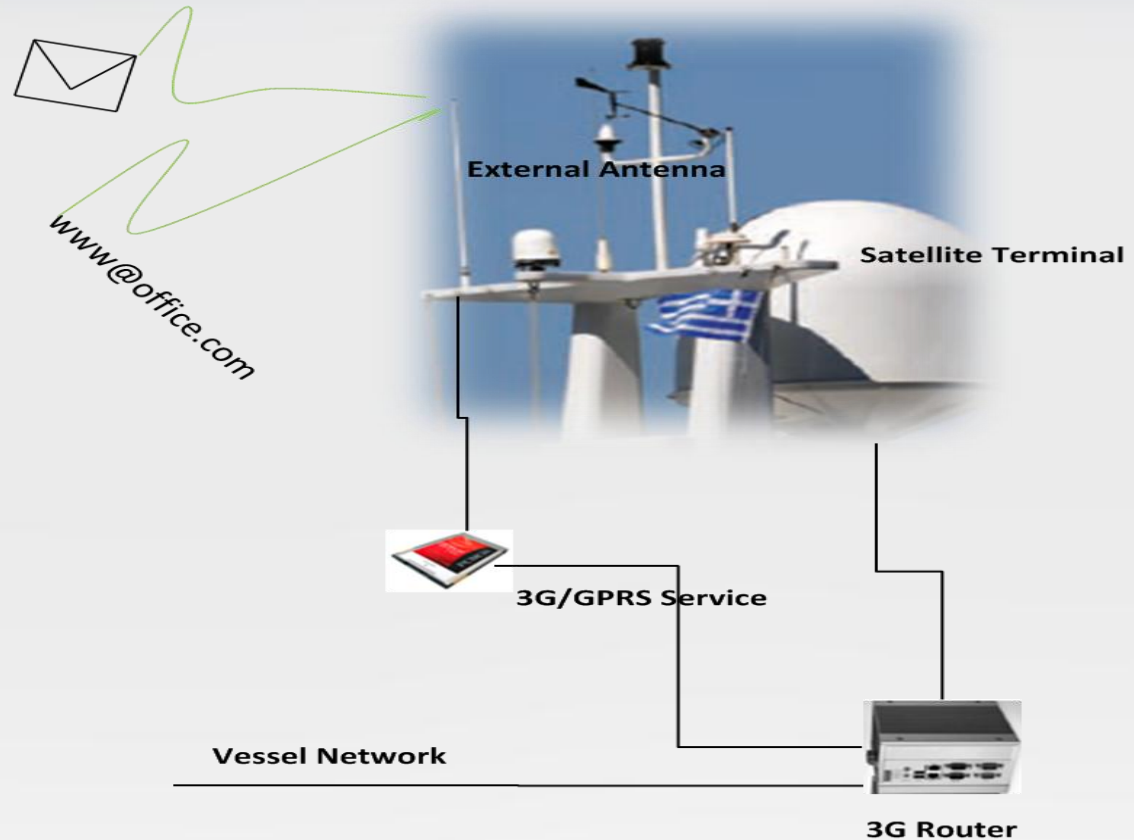
*Maritime Broadband  
International roaming  
powered by Vodafone*

*3G coverage on most  
major ports at fixed  
international rates*

*Proxy, Firewalling, VPN  
services available by  
Setel Hellas*

*24/7 Support*

*Flexible packages*



# Maritime 3G/GPRS Broadband Roaming Connection



## Roaming Programs:

RB 1

RB 2

RB 3

|                           |  |
|---------------------------|--|
| Charge                    | 46.17€/month*                            |
| Free MB                   | 25<br>min charge 100KB                   |
| Valid                     | European and non countries               |
| Charge beyond the free MB | 0.82€/MB(eu)                             |
|                           | 6€/MB (all the other worldwide partners) |

|                           |  |
|---------------------------|--|
| Charge                    | 63.25€/month*                            |
| Free MB                   | 50<br>min charge 100KB                   |
| Valid                     | European and non countries               |
| Charge beyond the free MB | 0.82€/MB(eu)                             |
|                           | 6€/MB (all the other worldwide partners) |

|                           |  |
|---------------------------|--|
| Charge                    | 124.87€/month*                           |
| Free MB                   | 150<br>min charge 100KB                  |
| Valid                     | European and non countries               |
| Charge beyond the free MB | 0.82€/MB(eu)                             |
|                           | 6€/MB (all the other worldwide partners) |

In case the vessel is in Greece, additional 5GB will be available without extra charges.

\* All above prices do not include VAT 23%, and mobile telephony fee.

# Maritime 3G/GPRS Broadband Roaming Connection



## Coverage Map

### Vodafone Coverage in Europe

Austria, Lithuania,  
Belgium, Luxembourg  
Bulgaria, Malta  
France, Netherlands  
Germany, Hungary  
Gibraltar, Poland  
Denmark, Portugal  
Estonia, Romania  
United Kingdom  
Slovakia, Ireland,  
Slovenia, Spain,  
Sweden, Italy,  
Czech Republic, Cyprus,  
Finland, Latvia,  
Guadeloupe, Martinique,  
Reunion

### Worldwide Partners

Croatia - Vipnet  
USA - Cingular  
Japan - Softbank  
Malaysia - Celcom  
South Africa - Vodaco  
Singapore - Mobileone  
Hong Kong - Smartone  
Canada - Rogers Wireless  
Chile-Entel Chile  
China-China Mobile  
Israel-Orange Partner  
Mexico - Telcel  
Thailand-TAC  
United - Arabic  
Emirates Du  
Ukraine - UMC

### All over the world

Vodafone Egypt  
Vodafone Albania  
Vodafone Australia  
Vodafone Zealand  
Vodafone Turkey

# Maritime 3G/GPRS Broadband Roaming Connection



## Basic Hardware Components

### 3G Broadband Router

#### Mobile Broadband Gateway with Combo

- ✓Built-in HSUPA
- ✓Support various WAN connection types such as Dynamic IP(DHCP client), Static IP, PPPoE, PPTP, and L2TP
- ✓Built-in NAT function for many PCs or devices to share Internet access
- ✓Support WEP, WPA, WPA2, WPA-PSK, WPA2-PSK encryption
- ✓Establish secured Wireless Connection via WPS function
- ✓Support NAT firewall, protecting from DoS(Deny of Service) attacks
- ✓Support Internet access control, like URL blocking, MAC filtering
- ✓Support multiple sessions IPSec, L2TP
- ✓Support NAT firewall, protecting from
- ✓Web-based UI management and Easy Setup

### BS External Antenna

#### Antenna:

- ✓Frequency Range: 900 / 1800 /2100-3G
- ✓Beamwidth: 6.5 degrees.
- ✓Transmitter-receiver: Omnidirectional.
- ✓Voltage standing wave ratioVSWR:  $\leq 1.5$ .
- ✓R: 50 Ohm
- ✓Gain: 7dB. (900 MHz).
- ✓Polarity: Vertical.
- ✓Max Power: 50W.
- ✓Connector: N type.
- ✓Weight: 0,580 kg.
- ✓Height: 70 cm.

#### Cable:

Coaxial Cable 10m RG213/U, including N type connectors , pigtail cable

# "Intelligent Vessel" Solution Suite Indicative Client List



**Diamlemos  
Shipping Co**



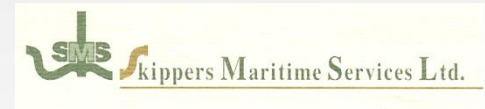
**Remi Maritime  
Corporation**



**BLUE PLANET  
Shipping Ltd.**



**BYZANTINE Maritime Corp.**





**Our solution energizes many Shipping Companies**

**It can work for *you* too!**