

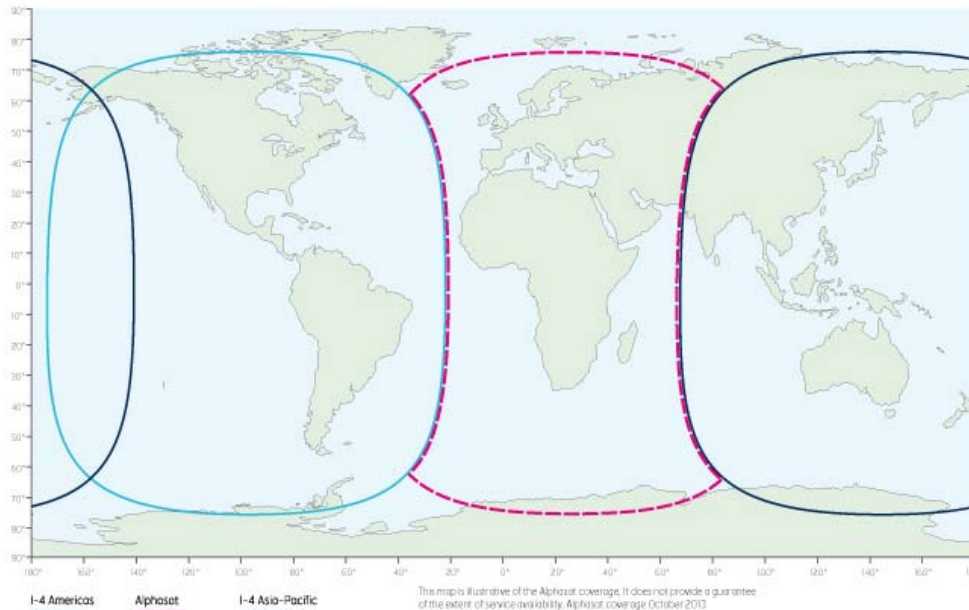
# Otesat-Maritel Updates

## New Products & VAS



# Networks – Infrastructures

- Inmarsat Satellite Network
- Land Earth Station Inmarsat Thermopylae (LES 005)
- Cooperating stations worldwide for global coverage



inmarsat.com



# Networks – Infrastructures

- Iridium Satellite Network



iridium  
anywhere



## Networks – Infrastructures

- Land telecommunications networks and infrastructure (OTE, OTEGLOBE)
- Corporate infrastructure for providing value added services





# Satellite Services

## ■ Inmarsat Services

(voice, fax, data, telex, ISDN, IP, MPDS, Streaming)

### ■ Maritime

- FleetBroadband 150/250/500
- FleetPhone
- Inmarsat Fleet 77/55/33, Fleet 77/MPDS
- Inmarsat C, Mini-C
- LRIT Services
- FB LINK

### ■ Land Mobile

- IsatPhone Pro
- IsatPhone Link
- Inmarsat BGAN

## ■ VSAT Services

- Xpress Link 3
- Ku-Band and C-Band Maritime

## ■ Iridium Services

(voice, fax, data, IP)

### ■ Maritime

- Iridium Openport
- Iridium Maritime (SC4000)

### ■ Land Mobile

- Iridium 9555 and 9575 Satellite Phones

## ■ Accounting Authorities Services

### ■ GR01

## ■ Point of Service Activation (PSA)

Activation of satellite terminals and services

# Value Added Services

## ■ Crew Communications

- Prepaid crew cards 24/7 to any fixed or mobile destination globally
  - CrewConnect (Inmarsat)
  - GoChat (Iridium)
  - SMS, Crew-mail, Internet browsing
  - SatGate Crew Internet Platform

## ■ e-mail services

- MailOnBoard
- Mailonboard Plus

## ■ Public Static IP

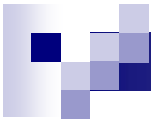
Unique IP address globally for distant access to the FleetBroadband terminal or to the network terminal that is connected, via network

## ■ Protection@comm

- Firewall, Antivirus on Network
- Firewall Onboard (Mikrotik)
- NOD32 Antivirus
- Antispam

## ■ P2P Services

- Leased Line Services
- VPN Services



## Value Added Services (continue)

### ■ Management of FleetBroadband Service

#### ■ online-Manager

- Web-based service designed to provide the ability to the customers to fully manage (activation, deactivation, change of packages and services, traffic information etc.) their FleetBroadband terminals

#### ■ Usage Monitoring and Control

- E-mail Alerts
- Auto-suspend

### ■ Web Admin Services

- MailOnBoard web Interface
- Traffic Information System (TIS)
- Scratch Card Management System
- Prepaid Web Mail
- hermes\_messaging Admin
- e-Invoicing services
- SMS Alert Management System
- VSAT Monitoring Tools
- SatGate Web Platform



# MailOnBoard (Business email)

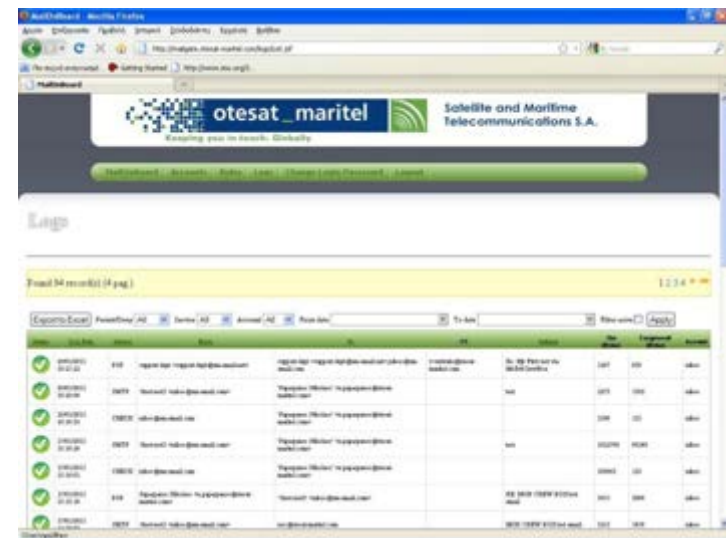
- MailOnBoard is a service provided by Otesat-Maritel for shore-to-ship and ship-to-shore e-mail communications. An inexpensive and easy to use e-mail solution via Inmarsat, Iridium and VSAT satellite systems
- The main features of the service are:
  - E-Mail data compression
  - Remote management via web interface
  - Self provisioning of vessels' e-mail address
  - Corporate domain name hosting





# MailOnBoard Features

- **Data compression up to 90% depending on file type**
  - A strong land-to-mobile and mobile-to-land compression mechanism reduces the size of incoming or outgoing e-mails, leading to low communication costs for your company
- **A user-friendly Web Interface, accessed through the Public Internet, gives the advantage of self-controlling the e-mail communications of the vessels**
  - Black & White Lists. Enable your own security rules and control the e-mails sent and/or received by your vessels
  - Option to limit the size of incoming or outgoing e-mails
  - Keep track of all incoming or outgoing e-mails in real time
  - Analytic logging of all e-mail communications, before and after compression
  - Ability to automatically forward e-mails for both Shore-to-Ship and Ship-to-Shore directions
  - Ability to add identifying words in the subject area of the automatically forwarded e-mails for both Shore-to-Ship and Ship-to-Shore directions
  - Ability to extract useful data in Excel file





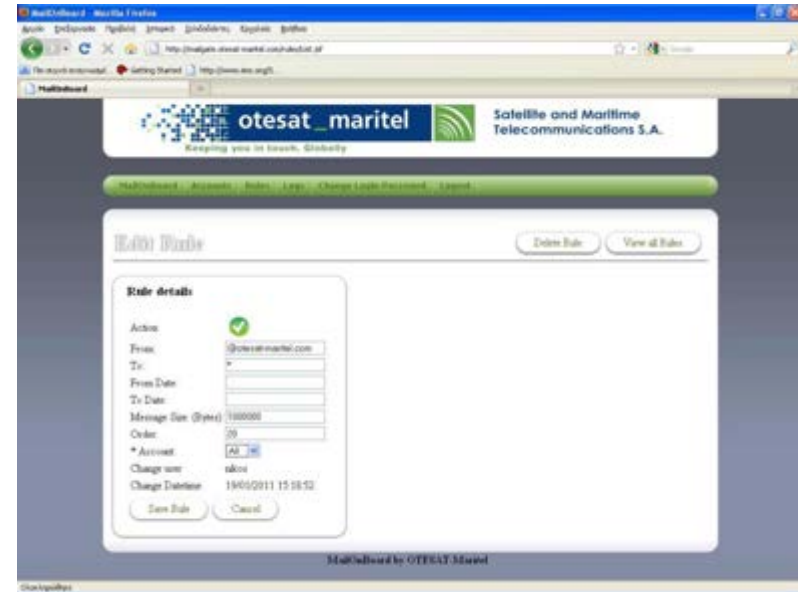
## MailOnBoard Features (continue)

- MailOnBoard runs on a regular PC and manages e-mail communications over Dial-Up or Broadband Internet connections
- MS Outlook, Outlook Express, Mozilla Thunderbird or other SMTP/POP3 clients are supported
- Send and receive e-mails automatically as often as you require
- E-mail account dedicated for each vessel
- Send and receive e-mail text and/or attachments
- Corporate domain name hosting
- Small sized installation file (1.17MB in zipped format) that can be sent via e-mail or in a CD. The user will also receive an installation and configuration manual for the MailOnBoard client and also for the Microsoft Outlook and Outlook Express

**IMPORTANT NOTE: All E-mail communications are protected through state of the art Anti-Spam and Anti-Virus services via Otesat-Maritel's Network**

# MailOnBoard Advantages

- Low communication costs
- Self controlling of vessels' e-mails
- Easy installation
- No third party e-mail client required
- Friendly usage
- Security
- Flexibility
- Can be used in combination with SaveonBroadband
- 24/7 Customer Support



# MailOnBoard <sup>Plus</sup> (Crew Email Welfare):

Multiple e-mail accounts per single vessel

Pre-paid (units related vouchers) or post-paid e-mail accounts

Customized pricing policy

E-mail service access through Internet when users are on shore using the same e-mail address

Synchronization (e-mails, rules, filters, folders, address book) process between vessel and shore side server

Vessel MailOnBoard server provides free of charge local e-mail communication

Is fully compatible with the s@tGate service or as a stand-alone service

## Web-based e-mail service

No e-mail client on user's PC is required

Access is granted through a common web browser

## User Account customization

Personal inbound/outbound rules and filters

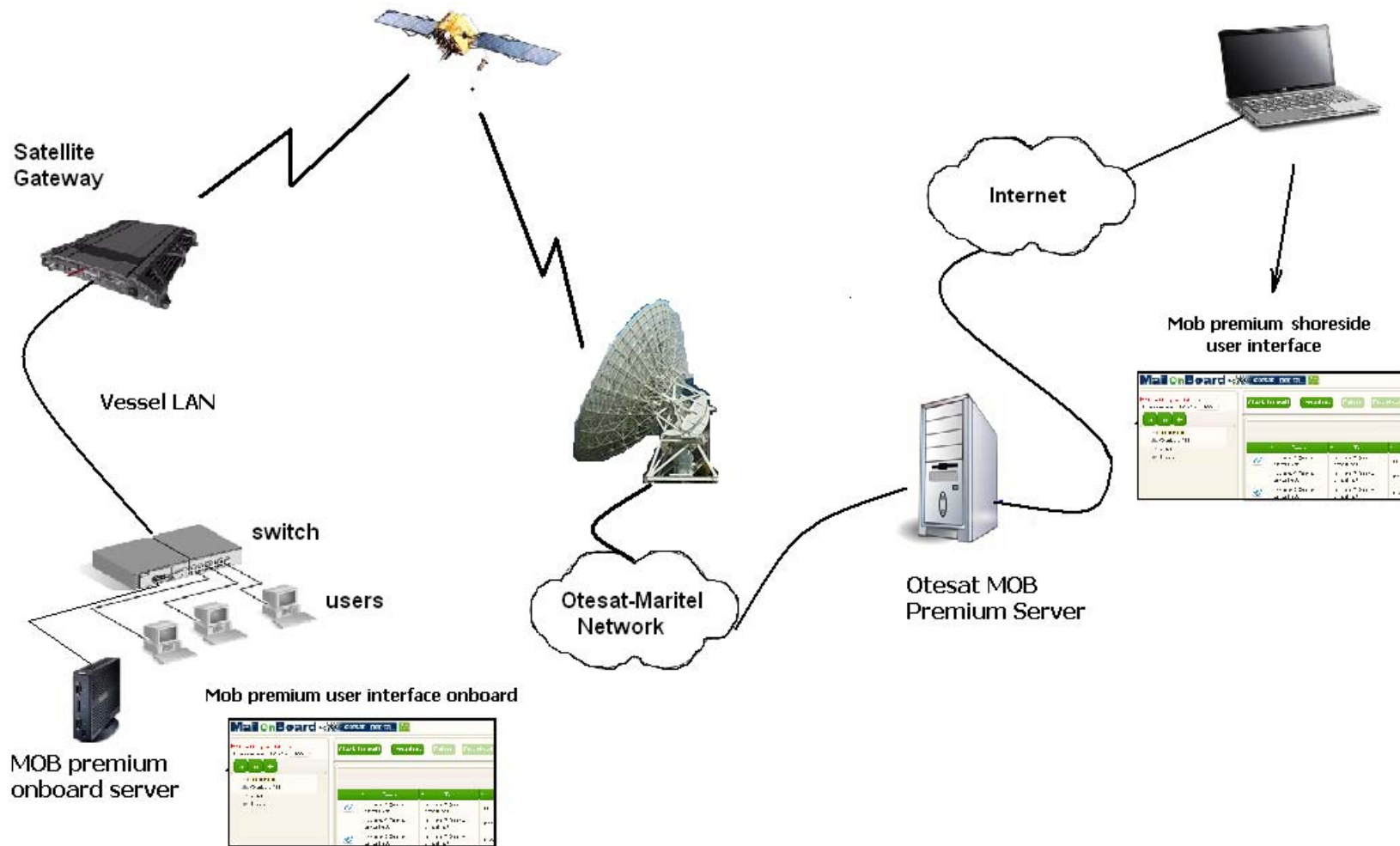
Personal folders

Personal address book

User may download e-mail headers only or entire message

Import/export user settings for back-up or mobility reasons

# MailOnBoard Plus Overall Topology:

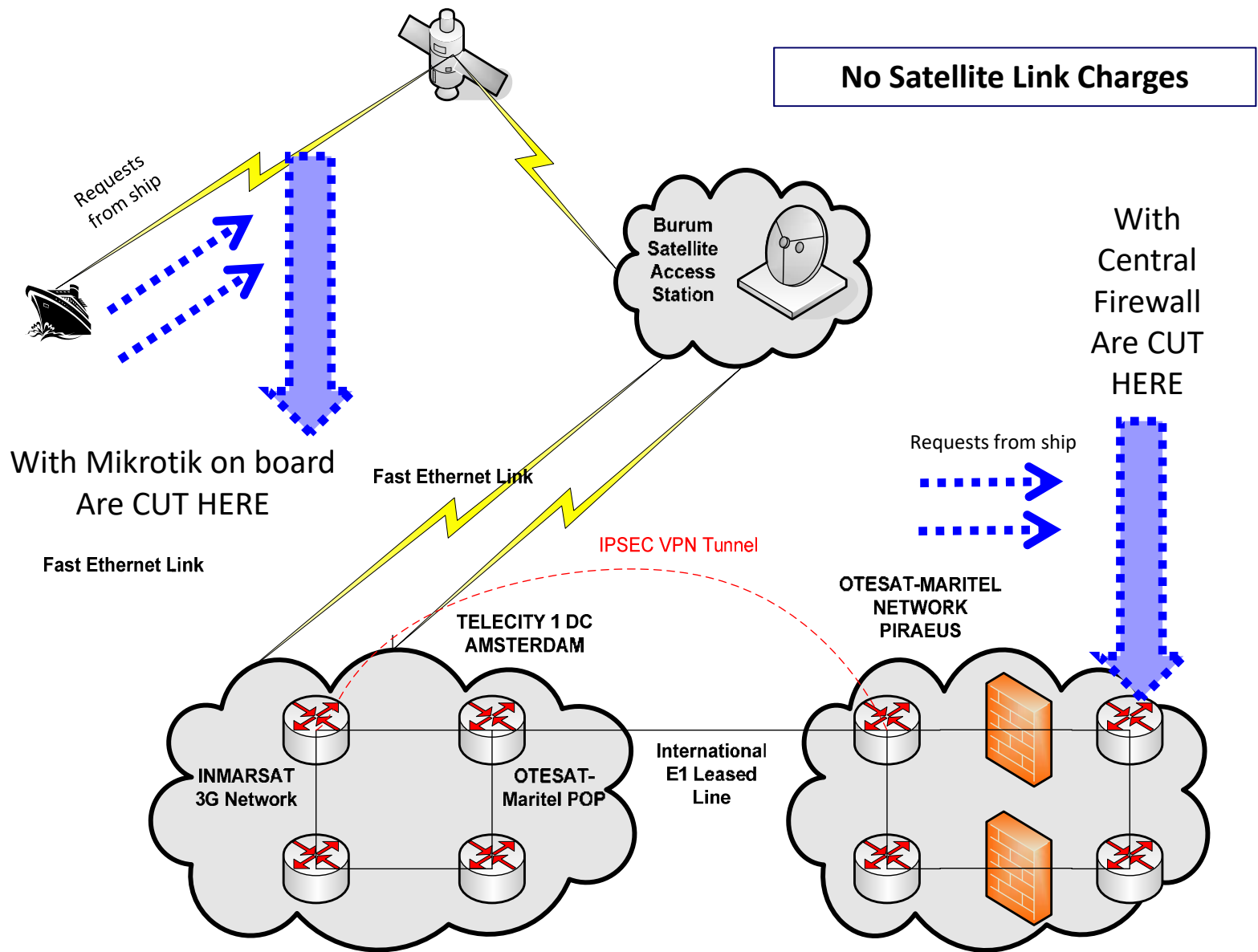


# Safety First - Mikrotik RB 750

## ■ Onboard Firewall Protection - Mikrotik RB 750

- Main idea: to Restrict any undesired requests from the ship to shore direction through the satellite link and before reaching the Otesat-Maritel Network's Central Firewall
- A router device with various capabilities.
- Operating System: MikroTik Router OS v3, Level4 license
- It has 5 Ethernet 10/100 ports (1 is for the Internet connection line and 4 ports are for connecting pc's).
- Easy configuration through winbox tool or web interface
- NAT / DHCP SERVER / FIREWALL / RADIUS
- WEB PROXY / VLAN SUPPORT / MPLS SUPPORT
- ROUTING PROTOCOLS SUPPORT
- ADMINISTRATIVE TOOLS & IP TRAFFIC ACCOUNTING





# Safety first - NOD32 Antivirus Solution

## ■ Port-IT Antivirus Solution

- Maritime edition of NOD32 from ESET
- But with integrated Sequential update engine ideal for maritime usage
- Updates are sent by e-mail in zip format
- Fixed frequency of sent updates (per week)
- Very small size of update files (about 450 KB per week)
- Advantage of controlling and monitoring update volumes
- Can be combined with antispams, firewalls, e-mail hosting and domain name services
- Every license covers up to five terminals on board

**ESET NOD32 Antivirus 4**  
Business Edition



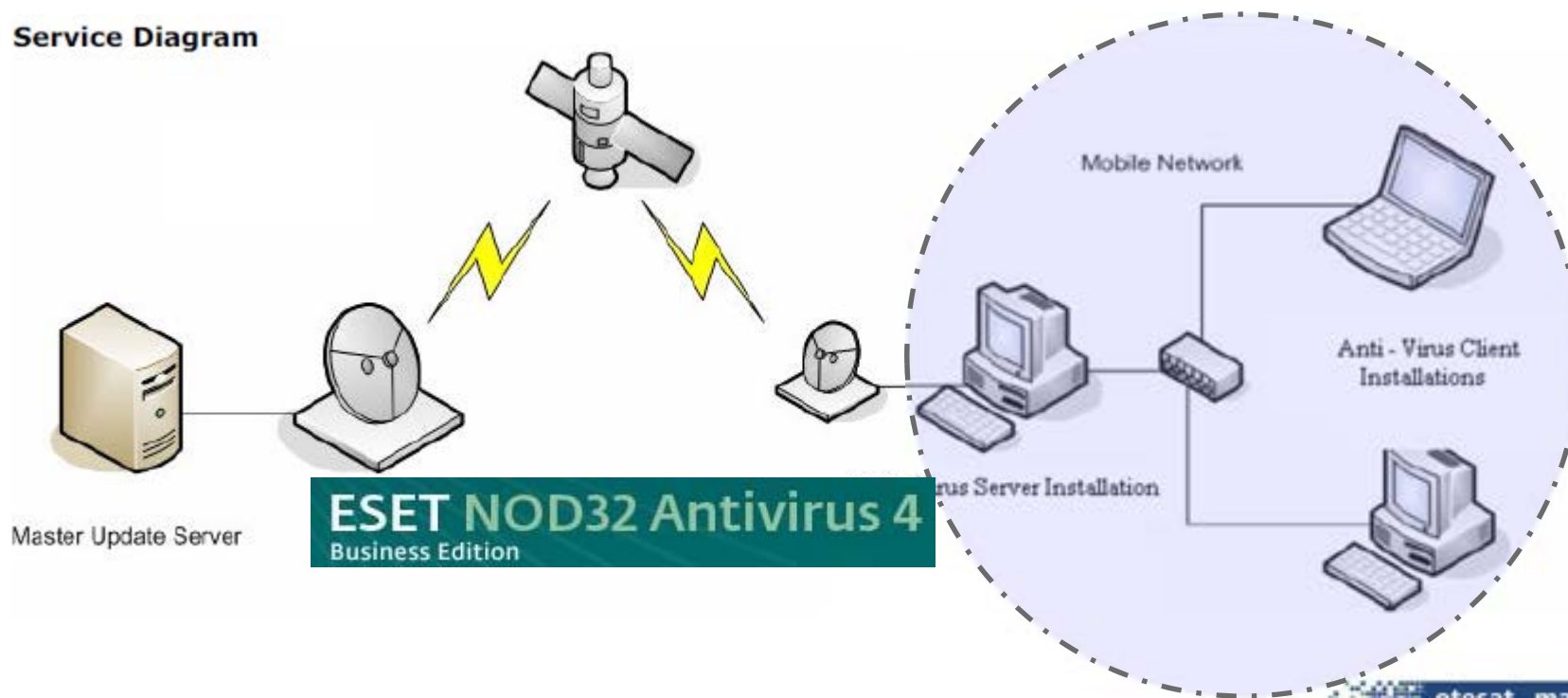


# NOD32 Antivirus Solution (continue)

## ■ Port-IT Antivirus Solution

- Proactive protection of all vulnerable entry points across the network of a vessel
- Easy Setup and provision of small update sizes which will save expenses
- Automatic updates from a central point inside the network of the vessel

Service Diagram





# s@tGate

## Crew Satellite Internet Welfare



otesat\_maritel Satellite and Maritime Telecommunications S.A.  
Keeping you in touch. Globally

s@tGate v8.1

Log In to your account:

Username

Password

Remember me next time

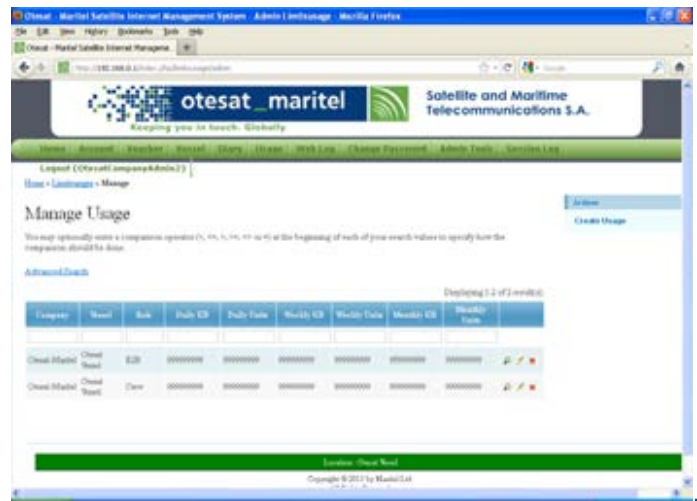
Login

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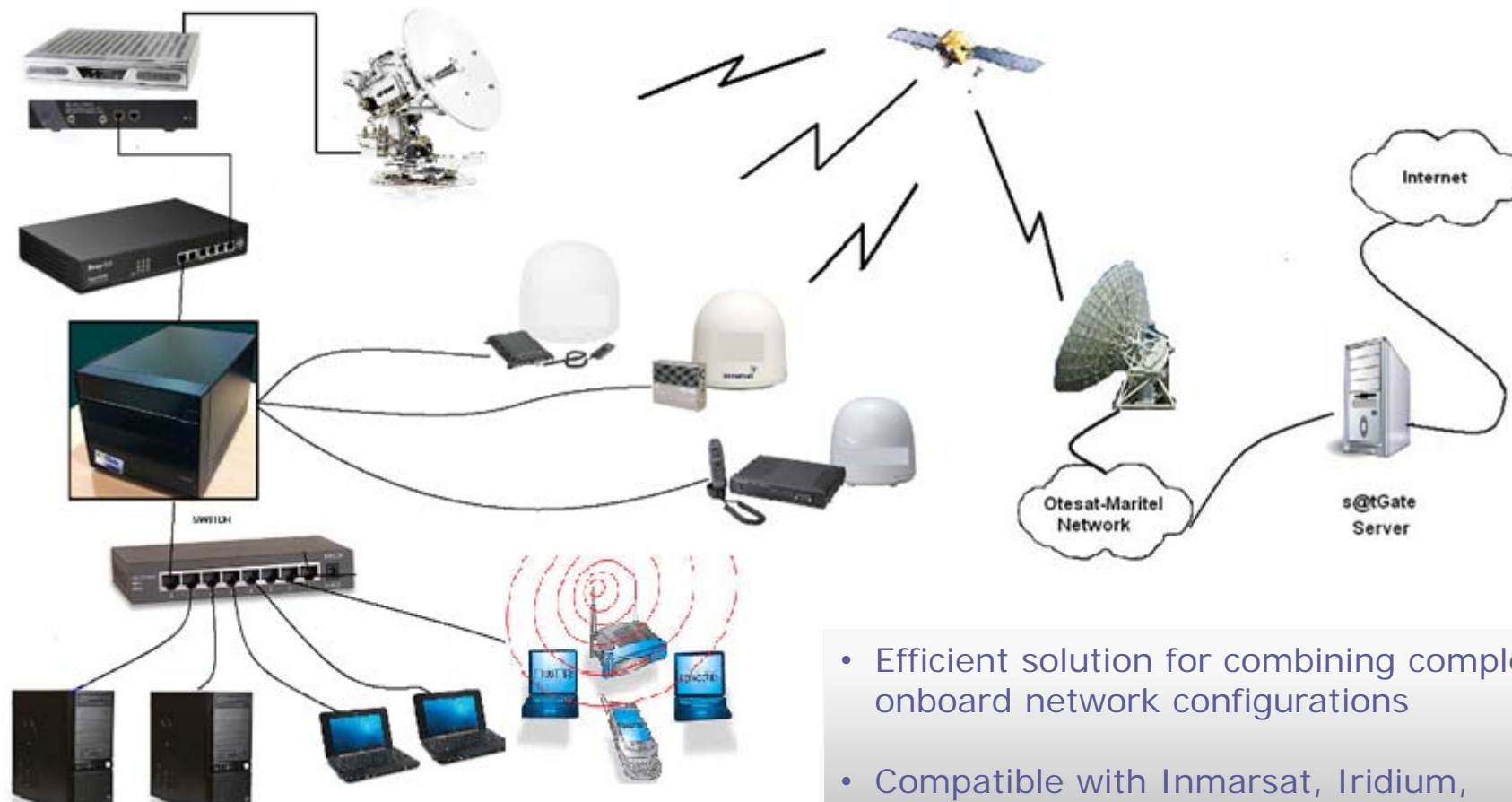
# Main features

- The main features of the service are:
  - Crew pre-paid internet access and B2B post-paid
  - Data compression and caching
  - Remote and onboard management via a user friendly web interface
  - One rate plan for business and crew

The service is provided via Otesat-Maritel's network and a hub is not required at customers' premises => No Customer Operation & Administrative Cost



# Network diagram



- Efficient solution for combining complex onboard network configurations
- Compatible with Inmarsat, Iridium, VSAT broadband satellite systems



# MailOnBoard

## Your ultimate e-mail communication tool for B2B and crew usage e-mail service for B2B usage - MailOnBoard

MailOnBoard is an easy-to-use and inexpensive e-mail solution via Inmarsat, Iridium and VSAT satellite systems. The service provides a strong land-to-mobile and mobile-to-land compression mechanism that reduces the size of incoming or outgoing e-mails up to 90% leading to low company communication costs. The service also provides corporate domain name hosting, runs on a regular PC and manages e-mail communications over dial-up or broadband internet connections whereas, MS Outlook, Outlook Express, Mozilla Thunderbird or other SMTP/POP3 clients are supported.

With MailOnBoard the user can send and receive automatically e-mails with text and/or attachments and provide a dedicated e-mail account for each vessel. The installation file is small (1.17MB in zipped format) and can be sent via e-mail or in a CD.

MailOnBoard also provides remote management and self-controlling of the vessels' e-mail communications via a user-friendly Web Interface that can be accessed through the public internet.



### ADVANTAGES

MailOnBoard offers a number of advantages, including:

- Low communication costs
- Self controlling of vessels' e-mails
- Easy installation
- No third party e-mail client required
- Friendly usage
- Security
- Flexibility
- 24/7 Customer Support

### WEB INTERFACE

Using the web interface you have the option to:

- Create black & white lists enabling your own security rules and control the e-mails sent and/or received by your vessels
- Limit the size of incoming or outgoing e-mails
- Keep track of all incoming or outgoing e-mails in real time
- Analytic logging of all e-mail communications, before and after compression
- Automatically forward e-mails for both Shore-to-Ship and Ship-to-Shore directions
- Add identifying words in the subject area of the automatically forwarded e-mails for both Shore-to-Ship and Ship-to-Shore directions
- Extract useful data in Excel file



Keeping you in touch. Globally.



# MailOnBoard

## Your ultimate e-mail communication tool for B2B and crew usage e-mail service for crew usage - MailOnBoard Plus

MailOnBoard Plus is an easy-to-use and competitive email service via satellite Inmarsat, Iridium and VSAT satellite systems for corporate use (B2B) or use by crews. It offers the ability to create multiple e-mail accounts and a powerful compression mechanism of the transferred volume that significantly reduces the size of the e-mail, up to 90 % (depending on the file type) and the communication cost for the company and crews. The service is based on the philosophy of client - server. MailOnBoard Plus installation of industrial standards, to the Local Area Network (LAN) is easy and does not require additional equipment to the company. To access the service, it is required to create email addresses which is accompanied by a username and a password. Via this service the user can send and receive e-mails automatically with or without attachments offering a unique e-mail account.

MailOnBoard Plus service offers a friendly-to-use Web interface for onboard and on land usage which provides the user the ability to access and manage e-mail through the Internet when outside the ship.

### FEATURES

In addition, the user-friendly Web interface onboard and on land, accessible via the public Internet, gives possibilities to full control and management of e-mail account. Among the available capabilities to the user are the following:

- Personal rules and filters incoming/outgoing
- Definition of the incoming/outgoing e-mail volume
- Monitoring of incoming/outgoing e-mails in real time
- Notification for the messages' volume before and after compression
- Ability to read the subject of the message or the entire message
- Ability to create white and black lists
- Creation of personal folders
- Creation of personal address book
- Import/export of user settings for back-up or for mobility reasons

All e-mail communications are protected through state-of-the-art Anti-Spam and Anti-Virus services via Otesat-Maritel's Network.

### ADVANTAGES

MailOnBoard Plus is the ideal solution for crew communications onboard via email, as it offers a number of advantages, including:

- Competitive telecommunications costs
- e-mail account management per user
- Easy installation of MailOnBoard Server to the existing vessel network
- Friendly usage
- Security
- Flexibility
- 24/7 Customer Support



### SPECIFICATIONS

The specifications of MailOnBoard Plus are:

- Multiple e-mail accounts per single vessel
- Vouchers of 1,250, 2,500 and 5,000 units are available
- Exploitation of the corporate pricing packages for competitive rates
- Pre-paid (units related vouchers) or post-paid e-mail accounts
- Access to e-mails via the Internet when users are on land
- Synchronization process (e-mails, rules, filters, folders, address books) between MailOnBoard Plus client ship and the server of OTESAT-Maritel
- Free of e-mail exchange among users locally when onboard
- Possibility to be combined with s@tGate service or as a standalone service
- Web-based email service - no e-mail client on users' computers is required and access is provided via a common Web browser

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