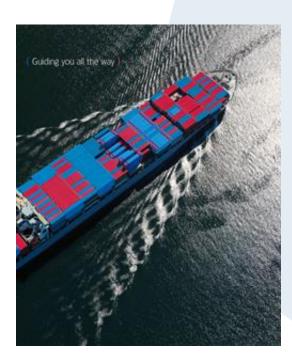


The first complete and fully managed cloud-on-board.

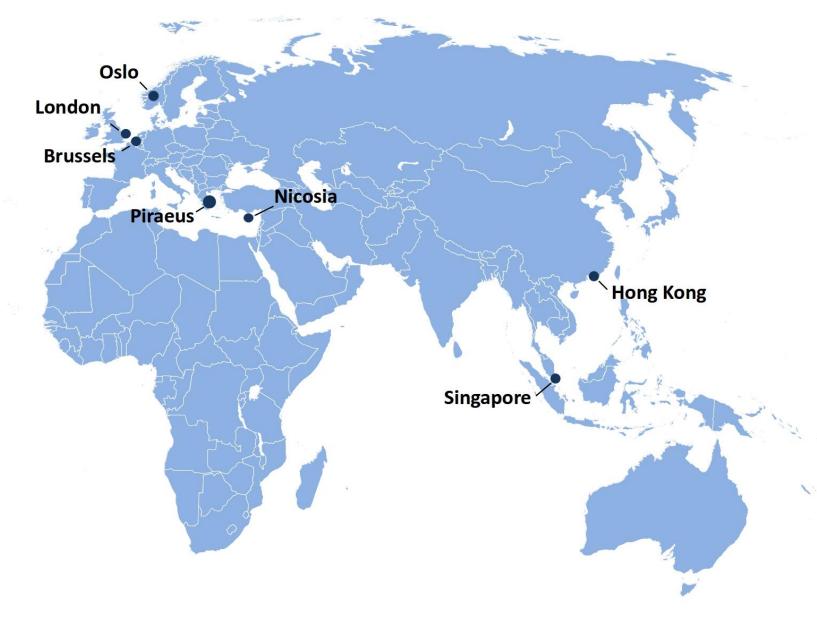
Navarino Profile Overview

- Specialized in merchant shipping satellite communications.
- Over 500 Shipping companies across 14 countries, providing 3,000 vessels, (2,500 vessels directly and a further 500 through agents) with connectivity solutions.
- Self financed, no debts.
- 7 existing offices in major shipping centres. Greece, Norway, UK, Singapore, Hong Kong, Cyprus, Belgium.





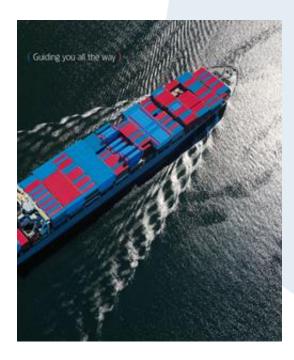






Navarino Profile Overview

- Global Xpress VAR (Value Added Reseller) since 2013.
- Navarino is the developer and distributor of INFINITY.
- 12% of the global FleetBroadband traffic is generated by Navarino customers.
- Heavy investment in innovative and technologically advanced solutions.







An industrial pc or server onboard the ship

An instance in the cloud



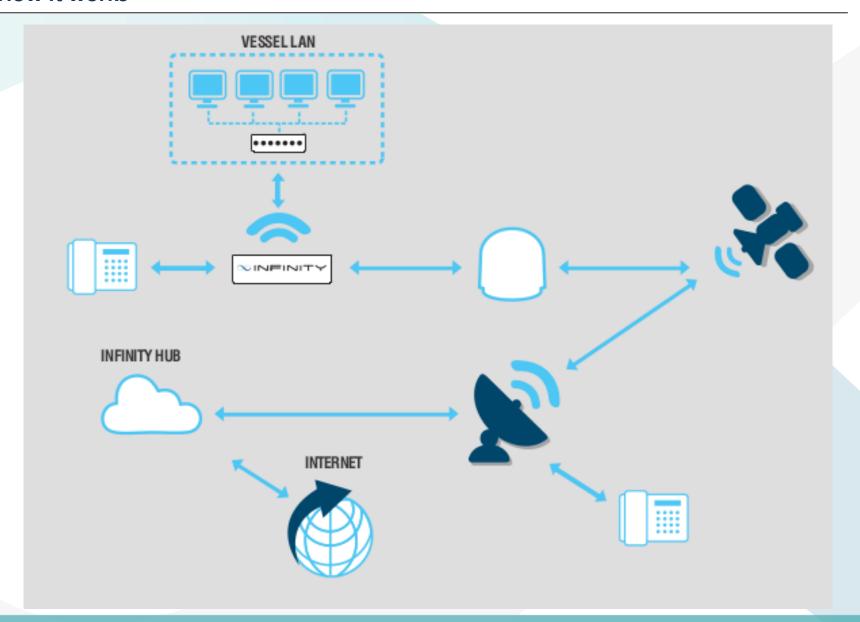
Infinity Software at ship and onshore

A web interface





## **How it works**



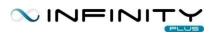




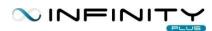
### **Infinity Types**

















#### **Standard - Standard RM**

Aluminum Compact with fanless Design, Intel® Celeron® J1900 Processor 2GHz, 4GB RAM DDR3L 1333 MHz, 2xSSD SQF 32GB, SATA 2.0, 4 x Gigabit LAN

#### **Fanless**

Aluminum Compact with fanless Design, Intel® Core™ i7-4650U ULT 1.7GHz 4<sup>th</sup> Gen, 8GB RAM DDR3L 1600 MHz on board, 2xHDD 2.5" 1TB 7200RPM 32MB Cache, SATA 3.0, 4x Gigabit LAN

#### **RM Advantech**

Advantech RM server, Intel®
Core™ i3-4330 3.5GHz, 8-64
GB RAM DDR3 1600 MHz on
board, 2x HDD 2.5" 1TB,
7200RPM 32MB Cache, SATA
2.0, 4x Gigabit LAN

#### Infinity Plus | Infinity Cube (Dell R230 - R430 - T430 - R420XR)

Dell PowerEdge servers with 1U Rack mount Chassis (R models), 64-bit Intel® Xeon® processors (E5-2600 v5 product family for R430/T430 & E5-2400 v2 product family for R420XR) with 8-384 GB RAM (E3-1200 with 8-64 GB RAM for R230), 6x LAN, 4x HDD Disk 1TB Near Line SAS, Hot-plug hard drives and power supplies, Cabling, 5-year Worldwide hardware Support on site by Dell Infinity Cube has two nodes and it also includes:

- 2 x 24-port managed switches 1Gbps
- 1 PDU
- 2 x Dell Cable Management ARM 1U





## **Infinity Plus**







- Launched in 2012
- Remote & onboard set up and administration of Virtual Machines
- Easy Deployment of new applications
- Infinity functionality embedded





## **Infinity Cube**



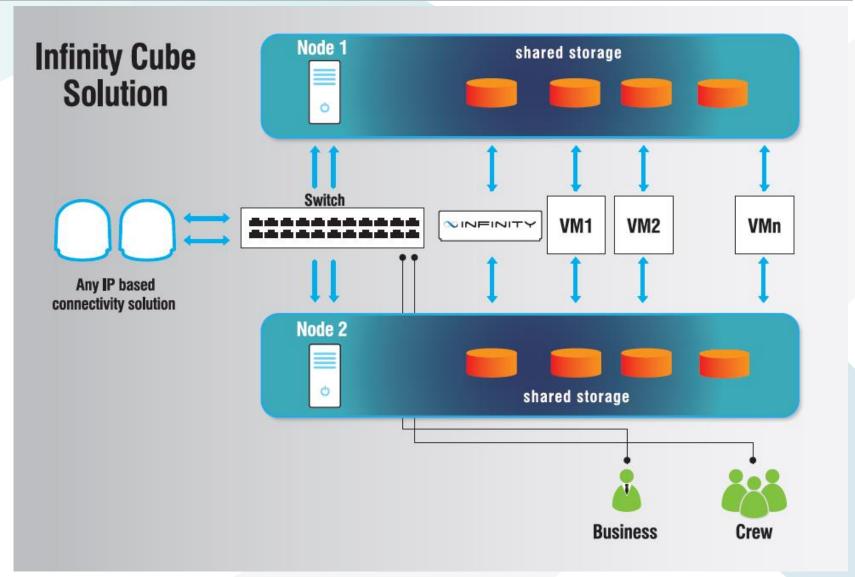


- High Availability environment with Active-Active Clustering
- Advanced Virtualization environment
- Consolidation of the onboard IT infrastructure
- 24/7 Remote onboard IT support
- Content delivery onboard
- The first "Cloud on board" for merchant vessels





#### The first "Cloud on board" solution



High Availability environment with active-active clustering



## Infinity – Main features



Crew calling PINs or registered users



Crew internet access with Pins or registered users



Web surfing with compression.



Fully managed firewall and router including "fleet wide" rules



E-mail service with compression



File Synchronization



Failover and load balancing



**Ship to Shipping** company free VoIP



**Web Services** (SOAP & XML)



File to email/ email to file

Virtualization



**Quality of Service** 





Address book replication



High availability



**Advanced Recovery** Option







## Infinity - Supplementary features



Light versus Normal Surfing on Demand



File Type filtering for e-mail and web, including Smart e-mail filtering



Virtual LANs



**VPN Connectivity** 



Kill All - Kill any



Areas of Interest



Web Accelerator



**Access Control Lists** 



Advanced Content Filtering including Antivirus

**Functionality with** 

automatic queries

Remote monitoring of critical functions

**Multicast Support** 



Vessel live position, speed and heading calculation and status reporting



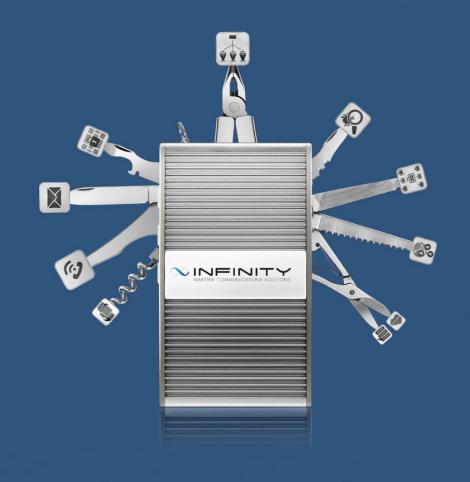
Traffic measuring and reporting



Security and Audit trail



IPv6





# **Infinity Plus and Cube additional functionality**

	Infinity Plus	Infinity Cube
Virtualization capabilities	•	•
Web Manageable Virtualization platform through a user friendly interface	•	•
VDI Support	•	•
Remote Set-Up and Installation on New VM's	•	•
Continuous Data Replication		•
Clustering Management and Administration Tools		•
Cluster-Aware File System and Volume Management		•
Shared Storage		•
Full redundancy with active-active clustering		•





#### **Advanced Virtualization environment**

INFINITY Cube allows to remotely setup new virtual machines and install software applications in them.

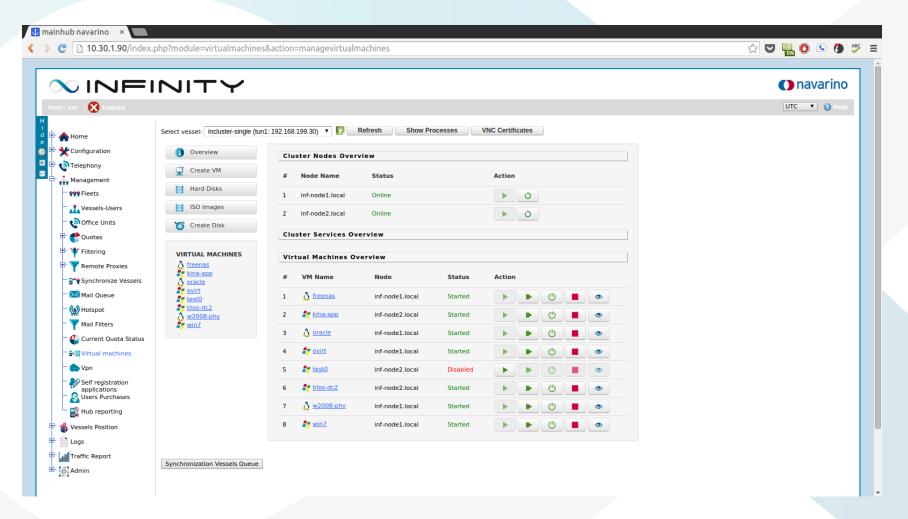






#### **Advanced Virtualization environment**

Remote monitoring of the hardware, the clustering and the VMs status

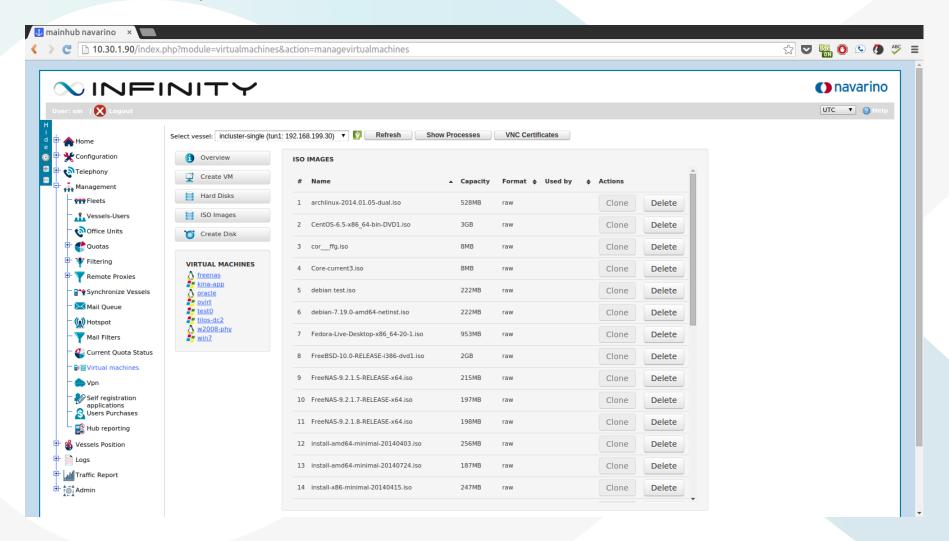






#### **Advanced Virtualization environment**

# Virtual CDs manipulation







### **Industry-leading Technology department**

- Any connectivity option through satellite circuit needs a bandwidth management and optimization tool. The solution is INFINITY.
- ◆ The most successful product on its category with a proven record of 4,000+ successful installations. You are encouraged to ask for references and to make your own comparison tests.
- Dedicated team of system developers and engineers to tailor our solutions according to your requirements.

You ask for more, you get more







# Thank you!



