

# SETEL POWERLINE INSTALLATION PROOF OF CONCEPT - CASE STUDY HANSA TANKERS

OCTOBER 2016



“We were incredibly impressed at the speed and ease of deployment for this solution.”

Hansa Tankers Rep



## To deliver a Trial of PowerLine Communications on a Chemical Tanker Implementing WiFi, VoiP Phones and VSAT connectivity.

### Requirement

- WiFi Network.
- VoiP Phone System.
- VSAT Connectivity.

### Implementation

A VoiP Phone network, comprised of Borderless Hub VoiP Phones connected to PLC Connection Points Electric (CPEs) has been provided in 4 locations with a DECT Receiver with 2 x Wireless Handsets on A Deck in The Cargo Control Room with handsets in both The Crew Mess and Officers' Mess rooms.

A Satellite antenna is currently being installed. A CPE access point has been provided in the Chart Locker on the Bridge at the point where the Inmarsat Rack will be installed to connect the network to the Internet.

A WiFi network, comprised of PowerLine Communications (PLC) Wireless Access Points (WAPs) was installed to enable access to the Inmarsat signal once fitted. This will be throughout the Accommodation rooms and Mess areas.

### Connection

With the Setel MASTER Unit installed on the main Electrical DB, we were able to simply connect all aspects in the desired locations.

### Hardware

Pre-planning and solution architecture design allowed for forward mounting of the necessary PLC Hardware direct to the vessel.

### Vessel Details

The MT MID OSPREY was in Dry Dock for this installation but this solution can be applied at any time the vessel is available for boarding, including whilst being fully operational.

### Resources Employed

1 x Setel Gateway unit as **MASTER**  
4 x Setel CPE units as **SLAVES** for VoiP and DECT Phones  
5 x Setel Deck WAP units to provide **Wi-Fi**  
1 x Setel CPE unit to connect to **VSAT**

Installation Time – **7 hours**

Install Team – **One Engineer**

**NB: Please see Setel PowerLine datasheets for details of specific equipment used**

### Summary

Mission accomplished in the most flexible and cost effective way, using Setel PowerLine's suite of PowerLine products.

Networking previously not deemed viable for existing fleets, due to cost, complexity and time involved in re-cabling, is now possible with our unique solutions.

Please see our website for more case studies or [contact us](#) for more details.