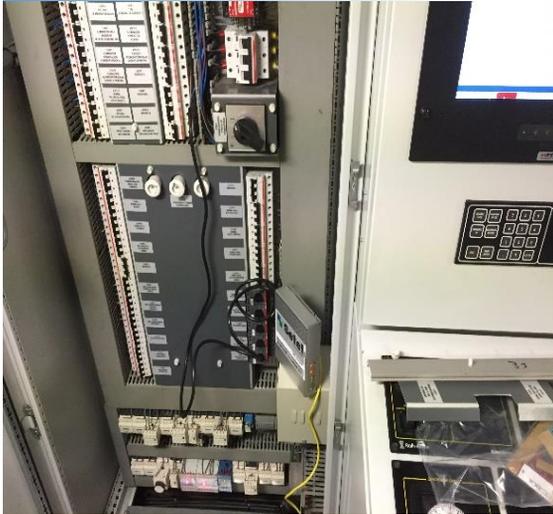


SETEL POWERLINE INSTALLATION CASE STUDY DAMEN SHIPYARD - ROTTERDAM

DEC 2015



Remote Diagnosis Wearable Camera over WiFi Trial



Requirement

To deliver an IP Remote Diagnosis Camera over WiFi Solution using the PowerLine Communications (PLC) Network and incorporating Alpatron's "Alpha-Eye" wearable Camera System and monitoring software platform.

Method

1 Setel Engineer provisioned the IP Network with a PLC Master Unit on the Main Electrical Distribution Board within 60 minutes. Setel PowerLine then installed the "Plug and Play" PLC WAP Units with no interruption to vessel daily operations. A laptop was set up in the on-shore Shipyard Office and the Alpha Eye wearer roamed the vessel. The video feed from the Alpha Eye was carried over the PLC network in live feed and distributed back to the on shore laptop via the vessel's local 4G connection.

Location

The Damen Shipyard in Rotterdam, where the vessel was alongside performing daily maintenance tasks.

Hardware

The Alpha Eye System was provided along with laptop to perform on-shore transmission trial over both VSAT connection and 4G WiFi system. PLC Hardware travelled with the install team.

Alpha Eye WiFi Camera

With the Alpha Eye, the crew on-board can call through a dedicated (satellite from 128kb, 3G or 4G) communication link directly with the expert in the Alpatron Marine office and really let us experience through live audio and visual contact the issues they are facing. Even in such a specialized and customized environment on-board, error analysis and problem solving can now be achieved in a matter of minutes. This unique remote support makes adjusting or replacing Components just that easy and with the fault Finding completed, missing parts can be Arranged to be ready in the next port of call.



Software

The Alpha Eye camera is hosted on a web-based monitoring platform. This allows viewing of live and recorded images either on board or from any on-shore location via the vessel's satellite connection, 3G or 4G.

Results

The Trial was a resounding success with excellent connectivity being provided to the Alpha Eye via the PLC WiFi Network in different areas of the vessel. The communication bridge over a 4G network worked well for sound and vision.



Resources Employed

Team	2 Pax
Vessel Master Unit	1
Deck Connection Unit	1
Vessel WAP Unit	2
Cameras	1
Network Established	60 mins
Install Complete	1 Hour

Summary

This incredibly powerful vessel was provided with a full Remote Diagnosis Camera capability with a recording and monitoring solution. This incorporated Alpatron's new Alpha-Eye high grade equipment provisioned onto the Setel PowerLine IP network.

Another example of Setel PowerLine and Alpatron providing the Smart Ships of tomorrow...today!