

SETEL POWERLINE INSTALLATION CASE STUDY PORTSMOUTH

DEC 2015



Wearable Security Camera over WiFi Trial

Requirement

To deliver an IP wearable, security Camera over WiFi Solution using the Setel PowerLine Communications (PLC) Network and incorporating Edesix's VB-300 series wearable Camera System and monitoring software platform. The aim being to give crew better surveillance capabilities and control of access on board.

Method

The vessel in question already has a PLC network which has been in existence for 6 months, providing an 8 Desktop LAN. Setel PowerLine then installed the 3 x PLC WAP Units with no interruption to vessel daily operations. A laptop was set up on The Bridge and the VB-300 wearer roamed the vessel. The video feed from the VB-300 was carried over the PLC network in live feed and distributed back to the on laptop via the vessel's PLC WiFi connection.

Location

Portsmouth UK, where the vessel was alongside unloading after their latest passage.

Hardware

The Edesix System was provided along with a laptop to perform an on-board transmission trial over both VSAT connection and the LAN. PLC Hardware travelled with the install team.

Edesix – Wearable Security

The VB-300 series are the first generation of WiFi enabled Video Badge products from Edesix. The VB-300 series are equipped with security and footage protection features. VB-340 comes with double the battery capacity, to enable up to 14 hours of continuous recording.



Software

The WiFi feature enables the VB-300 series cameras to stream video and audio to Video Manager or an RTSP gateway service, while simultaneously storing evidential quality recording for later download and review. 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.



Resources Employed

Team	1 Pax
Vessel Master Unit	1
Vessel WAP Unit	3
Cameras	2
Network Established	60 mins
Install Complete	1 Hour

Summary

This previously PLC enabled vessel was provided with a full wearable security camera capability with a recording and monitoring solution. Adding PLC WiFi and Edesix's VB-300 camera equipment onto the existing Setel PowerLine IP network demonstrates the true "Future-proof" nature of the system.

Another example of Setel PowerLine and Edesix combining to create the Smart Ships of tomorrow...today!