



Gentay Ltd
86 Pangbourne Drive
Stanmore
Midsex HA7 4RB
United Kingdom

Tel: +44 (0)203 371 0431

E-mail: info@gentay.co.uk
www.gentay.co.uk

GENTAY LTD launches the unique iPoP - Wireless Network Solutions for Vessels

LONDON, 16 May 2011 - Gentay Ltd is pleased to announce the availability of the low cost iPoP – Wireless Network Solutions for Vessels

PUSHING THE BOUNDARIES OF MARITIME TELECOMMUNICATION .With the increased requirement of transmitting data from ship to shore via satellite communication, there is a growing demand for 'Network Connectivity' onboard vessels that complies with regulatory requirements and is able to facilitate bidirectional access to data from the management office to the vessel and vice versa.

Installing conventional networks onboard vessels has proven costly due to the structural changes needed to accommodate such infrastructure such as stringing network cables throughout a vessel as well as potentially drilling through metal bulkheads to facilitate ducting. Off the Shelf Wireless products have been unable to provide a satisfactory level of connectivity both above and below deck due to the distance involved for wireless connectivity as well as interference from the metal bulkheads which block the wireless signal from reaching its intended target.

Using the latest developments in Broadband by Powerline (BPL) networking technology, wired and wireless networks have successfully been established and tested, suitable for a vessel environment enabling the provision of connectivity throughout the entire vessel. Coupled with modified wireless access points, wireless networks have been established which can communicate around steel bulkheads and provide a reliable and sustained connection.

Current Situation:

Currently wired networks are being installed to achieve connectivity onboard vessels, for example between the bridge and the engine room. However this has many disadvantages that can even affect the vessels operational objective.

These include but are not limited to:

- Time consuming – Wired networks take time to install and are generally installed during the vessel building or during dry docking.
- Expensive – Currently deploying even a simple wired network on board a vessel can cost in excess of £18,000.
- Hard to repair – if a network cable is damaged or broken, identifying the fault and repairing or replacing it can be time consuming and may need to wait for the next scheduled dry docking. This can have an effect on the operational capacity of the vessel.

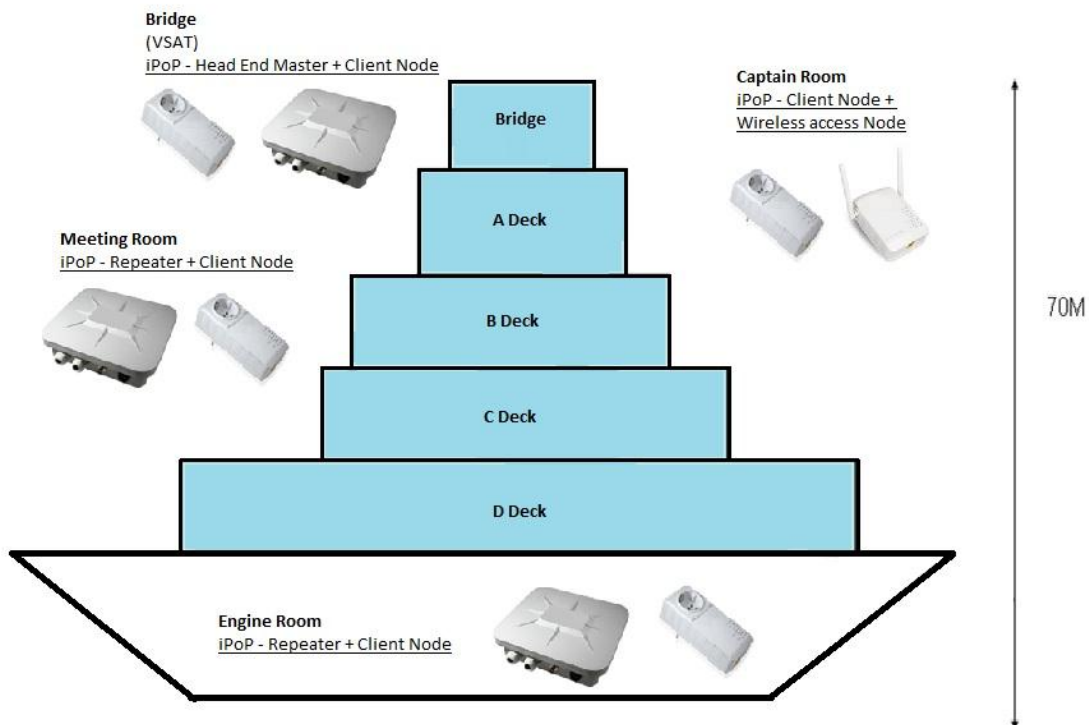
The use of conventional wired networks has also limited the amount of onboard technology capable of sending and receiving data, due to the constant change in the number of devices required for optimal operation.

The Solution:

Using the latest developments in Broadband by Powerline networking technology it is now practical to establish multiple wired and wireless areas which interconnect producing a large, stable wired and wireless network.

In collaboration with the Wallem Group, a major ship management company, a wired and wireless network onboard vessel was established to demonstrate the technical application of the iPoP Wireless Network Solutions for Vessels

As shown in the diagram below using BPL technology, a wireless signal can be fed to a large room through the ships power cables. By placing this technology around the vessel a large network containing both wired and/or wireless access points can be established as demonstrated in the diagram below.





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The resulting sea trials conclusively demonstrated that the speed, capacity and stability of the solution rival the same parameters in conventional corporate networks.

Speaking about this revolutionary innovation, Mr Martin Nygate, Director of Gentay said

“ Low cost practical networking solutions will open the door to many applications that will be of great us to the maritime industry but have been unaffordable because of the prohibitive costs of installing the required physical network on board.

For example, the affordable installation of IP CCTV (Internet Protocol Closed Circuit Television) virtually anywhere on the vessel for monitoring safety and security issues as well as to remotely monitor unauthorised intrusion onto the vessel.”

Daniel Merrens, Technical Manager for Gentay Ltd adds:

The iPoP - Wireless Network Solutions for Vessels is a scalable and secure system that integrates conventional networking to deliver bi-directional data access over existing power lines and its expandability is limited only by the amount of power sockets on the vessel”

About Gentay Ltd.

Gentay Ltd was established in 2002 with the purpose of defining and supplying the global Maritime and Oil & Gas industries with products and services which are difficult or not readily available on the general market.

Currently Gentay provides products to over 100 companies in the global Maritime community including Teekay, V-Ships, MOL, SCF, Maersk, and many

Gentay Ltd prides itself on its market research and development abilities to identify and meet the requirements of its targeted market.

For further information call Martin Nygate on +44 (0)203 371 0431