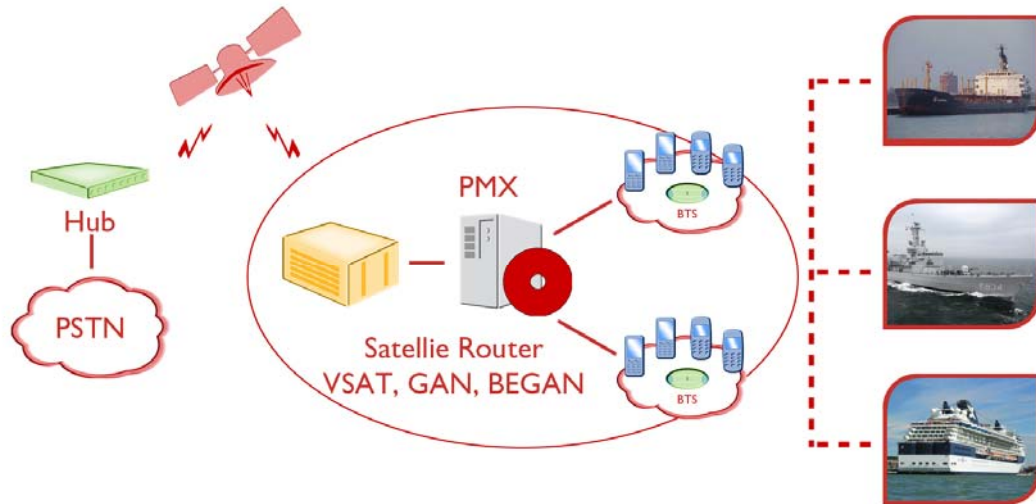


Maritime GSM

Mobile Coverage at Sea



Private Mobile Networks (PMN) provide a Maritime GSM Solution that is easy to install, uses the passengers and crews existing mobile phones and can provide a revenue opportunity for the vessel.

Features and Benefits

- Once outside of the port area crew and passengers on cruise ships and ferries often find it difficult to get a mobile signal
- Provide greater customer service and a new revenue stream by offering a private GSM onboard your vessels
- Create a private GSM using Private Mobile Network technology and this network will provide connectivity for mobile users on the ship at all times
- Customers will be able to make calls on the ship to each other and calls back to shore over the ships satellite link on a pre-paid basis
- All that is needed is a GSM network covering the ship and for passengers to be issued with a replacement SIM card for their existing mobile phone for use while at sea

Implementation Overview

- Calls between crew or passengers while on board are managed locally without additional authorisation being needed
- Calls to phones on shore under go a USSD* through a shore based pre-paid platform. If SIM has credit then the call is allowed. Time restrictions are implemented on low credit. For greater efficiency of use of satellite bandwidth all calls are compressed and headers stripped from them when being passed over the IP Link to shore
- Once on shore the call is received by the satellite station, passed to a hub connected to a pre-paid platform with the ability to direct calls over least cost routes in the network. Both PSTN and Mobile network access are provided

* Unstructured Supplementary Service Data (USSD) is a technology unique to GSM. It is a capability built into the GSM standard for support of transmitting information over the signalling channels of the GSM network. USSD provides session-based communication. Unstructured Supplementary Services Data (USSD) works on all existing GSM mobile phones.

t +44 (0) 1845 571571 e info@privatemobilenetworks.com w www.privatemobilenetworks.com
 Private Mobile Networks Ltd, Thirsk Industrial Estate, Thirsk, North Yorkshire, YO7 3BX
 Registered in England No 05614745

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