Product features

GSM/GPRS connectivity
The OnAir solution allows the deployment of standard GSM connectivity which can be used by any GSM 1800 MHz handset. Passengers do not need any specific hardware or software to be able to access and use the services.

Support of all GSM services
Mobile OnAir provides access to the full set of standard GSM/GPRS services: Mobile Originated Calls (MOC), Mobile Terminated Calls (MTC), Mobile Originated SMS (MO-SMS), Mobile Terminated SMS (MT-SMS), USSD, GPRS and GSM supplementary services (e.g. conference calling).

Standard GSM international roaming access
In the same way that passengers are able to roam onto other GSM networks when travelling, they can access the “OnMarine” network when cruising. This network name, or its official code (901 – 27), depending on the terminal, appears on the phone when it performs a network search and when it is attached to the network.

Support of all types of GSM subscribers
The OnMarine network supports access by all types of GSM subscribers, whether they own postpaid or prepaid subscriptions with their own network. Access is granted provided subscribers have the international roaming option activated and provided a roaming agreement between their home network and OnMarine has been implemented.

Transparent billing
As a benefit from the use of standard GSM roaming, passengers are invoiced for their communications by their home operator in their standard phone bill for postpaid subscribers or in real-time for prepaid subscribers. There is no need for any special registration or payment method.

GSM services filtering
The OnAir solution enables the Customer to allow or deny services temporarily or permanently. The following services can be selected independently: MOC, MTC, MO-SMS, MT-SMS and GPRS.

Simple installation requirements
The OnAir solution can be installed with limited space, cabling and power requirements. As such it is suitable for installation onboard a complete range of vessels or oil rigs. In addition, the time required to perform and maintain the installation is minimized.

Adaptable to existing satellite modem installations
The OnAir solution can be adapted to make use of most IP-based satcom installations that can be found onboard vessels with a very limited impact on the pre-existing infrastructure. The solution is agnostic to any underlying satellite technology (L-Band, Ku-Band, C-Band, etc...).

Cost efficient satellite bandwidth utilization
One of our key objectives is to optimize the use of satellite resources, and limit the underlying cost. Technologies such as compression, multiplexing, filtering and bandwidth on demand have been used to achieve a high degree of optimization. In most cases, the deployment of the OnAir solution can be performed on top of the existing satellite link without any need for a capacity upgrade.

Reliability and availability inherited from the airline industry
Our system has been designed for continuous operation in very demanding environments such as the aeronautical environment. When installed onboard vessels, the OnAir system benefits from developments performed to meet these stringent requirements and is capable of guaranteeing the highest levels of availability and reliability.

Autonomous operation
The OnAir system runs in a completely autonomous mode and does not require any intervention from the crew. In order to meet telecommunications regulatory constraints the service is automatically switched on or off based on the ship’s location.

Remote management and supervision
System maintenance and supervision can be performed remotely from OnAir centralized network supervision centre. System updates, upgrades and remote diagnostics can be performed transparently to the crew. OnAir can provide fully integrated system management, including the management of 3rd party satellite link provider is required.

Scalability
The OnAir solution is fully scalable and can be installed on a complete range of vessels or oil rigs with capacity requirements ranging from a few users to a few thousand users. Existing installations can also be tuned with very limited impact to cope with modification of the need for capacity.

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