GLOBAL NETCOM

Remote Monitoring Centre

GLOBAL NETCOM is a Remote Monitoring Multicentre that provides an easy way to obtain information and interacts with the different remote stations installed in lighthouses, buoys and beacons, displaying the data in a clear way on a computer screen.

This control centre can be located in a server in the customer's premises if desired, or in a general server shared by several clients.

It admits all kind of communications: GSM, radio, satellite, ADSL, microwaves, optical fibre, AIS, etc.

Thanks to its design based on WEB concept, customers just need an Internet connexion to monitor their beaconing systems.

Features:

- The Managing Software has been designed in such a way that final users can maintain, create new remote stations or modify the existing ones.

- Simple and intuitive operation, allowing to obtain information fastly and interact with the remotely monitored stations.

- The system allows the storage in databases type ORACLE, MySQL, SQL SERVER or others.

- Historical records are configurable by the user, in order to obtain reports.

- Designed to interact with an AIS Base Station, able to generate virtual or synthetic navaids.

- Its flexible structure can be customized under client request.

Remote Monitoring
Centre
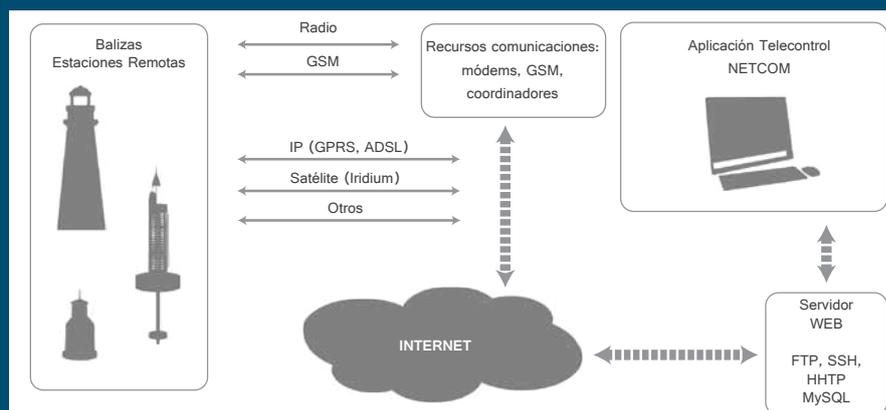
GLOBAL NETCOM

Hardware

PC/Server (minimum requirements):	Transceiver unit
Intel Xeon processor.	Configurable depending on requirements and type of communication used, GSM, radio, satellite, ADSL, microwaves, optical fiber, AIS, etc.
Microsoft Windows Server 2003/2008.	
2 nos. Hard Disk of 300GB (One as a mirror of the other, to ensure the protection of the information).	
4 GB RAM.	

Software

Communication program with message transceiver.

Database driver.

Web application for network access.

GIS Map of the area (electronic chart with dynamic positioning).

Individual screens for each Remote Station.

System screens

Initial system start-up.	Remote station configuration.
Validating user.	General system configuration.
System General Display.	Total active alarms.
Individual screens (Remote Stations).	Historical reports of alarms and status.

General Screen (Fig.1)

Access to the whole application.

Dynamic GIS map of the area.

Every remote station positioned on the basis of the latest GPS data received:
- Green flag: Beacon in correct operation.
- Yellow flag: Low level alarm, the beacon is still operating.
- Red flag: General alarm, beacon off.

Fig. 1

Individual Screen (Remote Station) (Fig.2)

Indicators	Light signal status pilot (green, yellow or red).
	Beacon status (on/off).
	Battery voltage reading.
	LED current consumption reading.
	Correct light rhythm signal.
	Other free-configuration values.
Alarms	LED failure alarm.
	Low-battery voltage alarm.
	Flasher failure alarm.
	Alarm on beacon consumption excess.
	Mooring chain breaking (for buoys, through GPS positioning).
Commands	Switching-on/off.
	Request of status report.
	Beacon general reset.

Fig. 2

MSM

SGS ISO 9001 SGS ISO 14001 IALA CE