REMOTE MONITORING CENTRE

GLOBAL NETCOM

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.

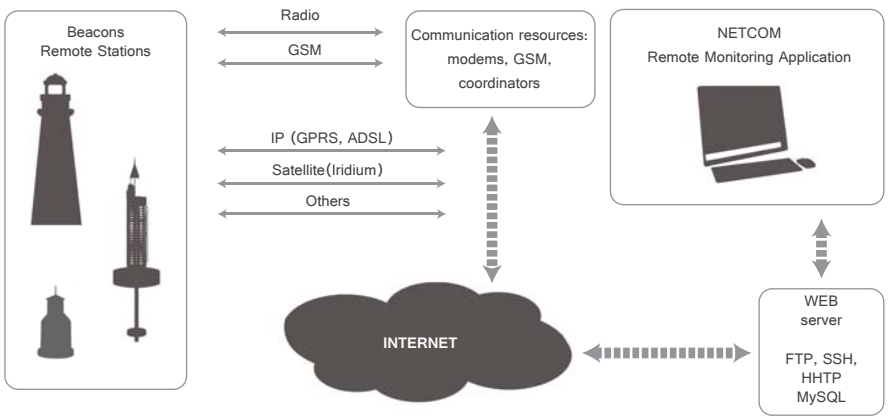
This control centre can be located in a server in the customer's premises if desired, or in a general server shared by several clients.

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.



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Specifications subject to change without previous notice.

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.

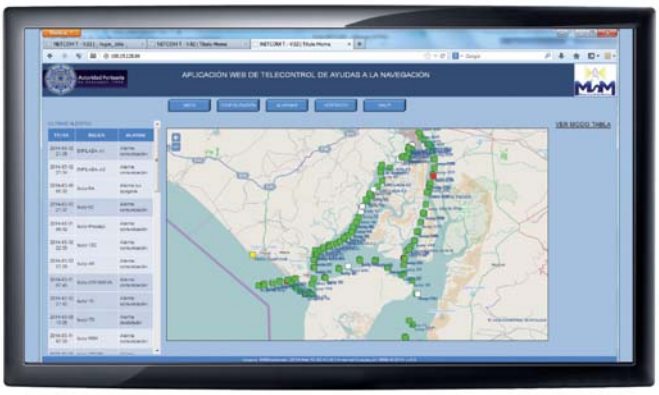

Fig.1

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

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