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.
Remote Monitoring Centre

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Hardware

- PC/Server (minimum requirements): Intel Xeon processor.
- 2 nos. Hard Disk of 300GB (One as a mirror of the other, to ensure the protection of the information).
- 4 GB RAM.

- Transceiver unit: Configurable depending on requirements and type of communication used, GSM, radio, satellite, ADSL, microwaves, optical fiber, AIS, etc.

System screens

- Initial system start-up.
- Validating user.
- System General Display.
- Individual screens (Remote Stations).

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.

Individual Screen (Remote Station) (Fig.2)

- 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.

- LED failure alarm.
- Low-battery voltage alarm.
- Flasher failure alarm.
- Alarm on beacon consumption excess.
- Mooring chain breaking (for buoys, through GPS positioning).
- Switching-on/off.
- Request of status report.
- Beacon general reset.

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.

Specifications subject to change without previous notice.