



FEATURES and BENEFITS

EMA is certificated for Quality management system ISO9001:2000. EMA is also a total solution provider for LRIT system with his partners and a range of products and services. With our own development and production we provide LRIT products to meet IMO obligations for Long-Range Identification and Tracking regulation. BlueTraker® LRIT is the leading transponder for integration in LRIT systems on the market.

Key elements of EMA's Long Range Identification and Tracking system:

BlueTraker® LRIT

- Satellite transponder for ships (Iridium)
- Automatic Position Report (APR)
 - identity of the ship
 - position of the ship
 - date and time of the position
- On-demand position report polling
- Pre-scheduled position reports
- Fully integrated and robust design
- Complete coverage and optimisation in running costs

Data distribution services

- Data delivery to any third party LRIT software application
- Worldwide coverage
- Real time position reporting down to once every 15 minutes

Monitoring application (optional)

- Web access or locally installed Fleet Management Software to pinpoint your vessels' position in real-time.
- Display of ship location/identity/date and time/route logs
- Viewing alerts, statistics and reports
- Detailed historical track data



CERTIFICATES & STANDARDS

ISO9001:2000

Quality management system certificate

CE1304

Certificate of compliance with standards for radio communication devices

IEC60950

Compliance with the safety standard for communication equipment

IEC60945

Marine environment standards compliance

IP68 and IP69K

Water and dust protection grade standards



CE1304



EMA d.o.o.
Mariborska 1
SI – 3000 Celje
SLOVENIA
+386(0)3 42 84 800
sales@ema.si
www.ema.si

EMA reserves the right to make changes without notice to products and or specifications.
©2008 EMA – Wireless Data Solutions - All rights reserved.
All trademarks or registered trademarks are the property of their respective owners.

www.bluetraker.com

Long range identification and tracking

SAFETY AND MARINE ENVIRONMENT PROTECTION SYSTEM



LRIT

234752,23
984693,71



BlueTraker®



INTRODUCTION

All vessels of 300 gross tonnage and above on an international voyage need to be compliant with long range identification and tracking (LRIT) regulations.

- All passenger ships including high speed craft,
- Cargo ships, including high speed craft, and
- Mobile offshore drilling units.

BlueTraker® LRIT improves maritime safety and security by monitoring the movement of cargo and passenger ships using cutting edge technology. To the primary LRIT benefit we add port efficiency, merchant maritime operator efficiency and better targeting of law enforcement resources.

BlueTraker® LRIT is EMA's product that is considered the benchmark for sophisticated automatic maritime tracking analysis. We can offer a unique level of experience in data exchange and routing of maritime data under international obligations. Join forces with BlueTraker® LRIT and benefit from the major electronic exchange system for data of this type: the European Union Vessel Monitoring System.

ALL IN ONE SOLUTION!

- Complete coverage system for all sea areas including polar sea areas above 70 degrees latitude
- Tracking, monitoring control and surveillance of ships
- Simple, user-friendly LRIT combination of devices and services
- High quality, cutting-edge technology
- Flexible service options for optimised monthly costs



HOW IT WORKS

Fleet monitoring is managed through connectivity of three key elements:

- **BlueTraker® LRIT** transponder for ships
- **Telematic data delivery** via Communication Service Provider (CSP)
- **Ship monitoring** at Data Centre (DC)

The onboard BlueTraker®LRIT device collects ship positions using GPS satellite signals and sends them together with the identity of the ship, date and time of the position to the collecting telematic data server via Iridium satellite network. The telematic data server processes the received data and delivers it in the correct format to the DC monitoring software. Every piece of important information about the monitored ship is displayed on the map ready for fleet management decisions. The BlueTraker®LRIT transponder offers bidirectional communication to and from the DC and allows the monitoring authority to poll ship information in real time.

APPLICATIONS

- **Commercial shipping**
- **Ship operators and their flags**
- **Ship owners**
- **Governmental regulatory bodies**
- **National, Cooperative or a Regional Data Centre**

PARTNERS

- **Application Service Providers (ASP)**
- **Communication Service Providers (CSP)**
- **Maritime electronic equipment distributors**
- **Telematic solution integrators**
- **M2M solution providers**
- **Telematic service providers**



COST EFFECTIVITY SOLUTION for a LONG LIFE OPERATION

The key to an advanced LRIT solution is the BlueTraker® LRIT transponder. It is a mechanically and electrically fully integrated device, avoiding any need to connect additional external components for tracking and monitoring. All its components are packed inside a very robust, double shell housing. This level of integration combined with 'open detect' seals, protects from the theft or mis-application to which "cable rich" modular devices are vulnerable.

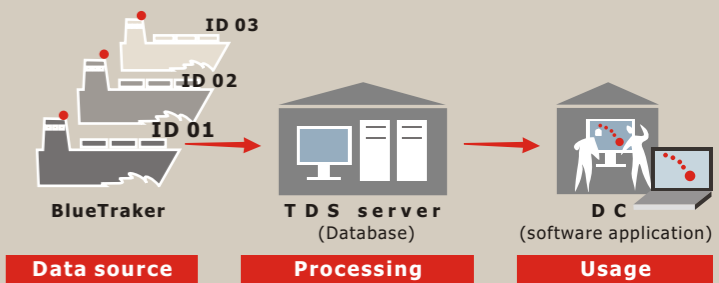
Most common vessel tracking devices communicate telematic data through satellite networks, but leave customers marooned paying high device maintenance costs. BlueTraker® LRIT closes this gap and reduces costs automatically and effectively while using the Iridium low Earth orbiting satellite network

Iridium constellation is the only one offering a truly 100% global coverage (from pole to pole) while competition CSP only covers a part of the land and the oceans - only up to 70% Latitude

TELEMATIC COMPONENTS FOR SYSTEM OPERATION



BlueTraker® LRIT is a wireless gateway with an embedded GPS receiver and antennas. BlueTraker® LRIT is used for transmission of Automatic Position Report via the Iridium satellite network. This robust tracking device is installed above the deck as no climatic environment is too tough for the BlueTraker® LRIT.



TDS: Telematic Data Server - collects data from the BlueTraker® LRIT transponder. After processing, the server sends data via international data exchange to LRIT monitoring software. This mapping and reporting software application resides at flag DC premises. Data is therefore sent using internet and Web Services Protocols.

LRIT: monitoring application - user-friendly fleet monitoring software which processes and displays data about your ship on the map and generates reports for the flag DC.

