

Client

Panama Maritime Authority

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Client Overview

The world's largest Merchant Marine Fleet is managed by the Panama Maritime Authority (AMP). This includes over 8,000 ships in excess of 200 million Gross Registered Tons (GRT).

As the largest registry, Panama is also the largest National Data Center (NDC) operator within the International Maritime Organization's Long-range Identification and Tracking system.

Project Details

Following an international competitive procurement process, with bids submitted by all major LRIT providers worldwide, our subsidiary Absolute Maritime Tracking Services (AMTS) was awarded a five year contract to supply LRIT services to the Panama Maritime Authority.

The award, on 20 December 2008, followed a comprehensive technical review and Live Test Demonstration (LTD). Based on this evaluation, and having achieved the highest test scores of the three shortlisted vendors, AMTS was awarded a turnkey contract for the supply, operations and support of the Panama LRIT National Data Center.

Within 30 days of contract signing, AMTS had delivered a fully operational LRIT monitoring center, LRIT Conformance Testing facility, and Application Service Provider (ASP); including registering over 5,000 ships using electronic records maintained by the Panama Maritime Authority and cross referenced with Inmarsat's ESAS system.

As required by contract, on 1-July-2009 the Panama National Data Center was upgraded to include a Disaster Recovery site and commenced 24 x 7 operations.

Following integration within the LRIT Production Environment, the Panama NDC has acted to assist other Data Centers seeking to enter the LRIT network.

Key Facts

- Long Range Identification & Tracking
- Awarded Dec. 2008, ongoing contract
- Total value \$12M USD
- Largest National Data Center (NDC), with 8,000+ ships monitored
- Over 5M positions processed to date
- 6,000+ positions/day forwarded to other Data Centers via the International Data Exchange (IDE)
- Inmarsat-C, IsatM2M, Iridium
- Fully fault tolerant; primary in Panama City, Panama with disaster recovery (DR) center located in Boston, MA
- Realtime counter-piracy coordination with NATO and EU Taskforces



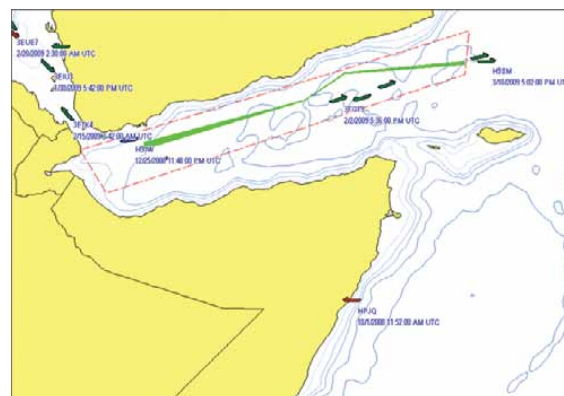
24 x 7 Operations Center



Tracking the world's largest fleet

Anti-Piracy Support

In support of NATO's efforts avoiding piracy attacks, deterring attacks and delaying successful attacks in the Gulf of Aden and off the Coast of Somalia, the government of Panama requested that the NDC provide LRIT data directly to the NATO Shipping Center, Northwood. Real-time information is currently being provided in Excel and Graphical formats, and shortly via secure OTH-GOLD data link. Panama has been among the first to provide this valuable information to NATO, as a key sensor input to their Maritime Domain Awareness picture.



Alert zone / corridor (Gulf of Somalia)

LRIT CONFORMANCE TEST REPORT	
Issued under the provisions of MSC.1/Circ.1296 on Guidance on the survey and certification of compliance of ships with the requirements to transmit LRIT information	
Issued by ABSOLUTE MARITIME TRACKING SERVICES, INC. No. 03009	
On behalf of the GOVERNMENT OF PANAMA PHOENIX SHIPPING	
AMP Circular No. 195	
Name of ship	AGHOS NIKOLAS
Port of Registry	Republic of Panama
Distinctive number or letters	3FY17
IMO Number	8306802
Maritime Mobile Service Identity	353864000
Gross tonnage	16985
Sea areas in which ship is certified to operate	A1 A2 A3
Sea areas for which this report is valid	A1 A2 A3
Application Service Provider conducting the test	Absolute Maritime Tracking Services, Inc.

THIS IS TO CERTIFY that the shipborne equipment designated to transmit LRIT information and specified below:

- has been found to meet the requirements of the provision of regulations V/19-1.6 and V/19-1.7 and of the Revised performance standards and functional requirements for the long-range identification and tracking of ships adopted by resolution MSC.265(84) and:
 - is of a type approved by the Administration in accordance with the provisions of regulation V/19-1. Yes No
- is of a type approved by the Administration in accordance with the provisions of regulation V/19-1. Yes No
- has been certified by the Administration as meeting the requirements of IEC 60945 (2002/08) and IEC 60945 Corr.1 (2005/04) on Maritime navigation and radiocommunication equipment and systems - General requirements, Methods of testing and required test results; Yes No
- is the ship security alert system of the ship and has been found to comply with the provisions of Yes No

Conformance Testing

With over 100 makes and models of Inmarsat-C equipment alone, close cooperation with manufacturers is essential to ensure valid Conformance Testing results are achieved. AMTS maintains high level technical points-of-contact with all major LRIT equipment suppliers. Our research into LRIT compatible equipment models had been adopted by several major flag administrations and is considered the definitive 'list' of LRIT conformant hardware.

In addition, AMTS authored the documentation defining technical/interoperability standards for Iridium equipment within LRIT. To date, four suppliers have produced hardware that offers Sea Area A4 coverage using the standards developed by AMTS.

One of the three largest LRIT Conformance Test Providers

Statistics

Ships Registered by AMTS.....	8,248	Total LRIT Positions Received.....	10,000,000+
Average Number of Ships Reporting.....	6,000+	Countries requesting LRIT Data.....	24
Commands to Shipboard Equipment.....	250,000+	Successful Conformance Tests.....	7,200+
Average Daily Position Reporting.....	22,000+	Search & Rescue Positions Sent.....	9,000+
Average Positions Forwarded Daily.....	4,200+	Realtime Piracy Alert Responses.....	15+