# Long Range Identification and Tracking - LRT









Assessment of existing provision

- Upgrade software or, purchase standalone equipment
- Register with ASP for compliance test
  Receive certificate of compliance





- The LRIT information for transmission includes:
   ship's identity, location and date and time of the position.
- There is no interface between LRIT and AIS.
- AIS is a broadcast system,
- Data derived through LRIT will be available only to the recipients who are entitled to receive such information and safeguards concerning the confidentiality of those data have been built into the regulatory provisions.
   SOLAS Contracting Governments will be entitled to receive information about ships navigating within a distance not exceeding 1000 nautical miles off their coast.





The regulation entered into force on 1 January 2008 and applies to ships constructed on or after 31 December 2008 with a phased-in implementation schedule for ships constructed before 31 December 2008. LRIT is intended to be operational with respect to the transmission of LRIT information by ships as from 31 December 2008. There is an exemption for ships operating exclusively in sea area A1 from the requirement to transmit LRIT information, since such ships are already fitted with AIS. The MSC also adopted *performance standards and* functional requirements for LRIT and an MSC resolution on Arrangements for the timely establishment of the long range identification and tracking system.





- Software upgrade then test
  - Discovery and James Cook have a TT 3020C Transceiver, connected to a Skanti PCU 9000 message terminal.
- Check compatibility of software on this equipment and if upgrade available.
- Having upgraded the 3020C system, arrange to have it tested for compliance by an official LRIT ASP company such as Purple Finder. Either the unit is now compliant or it isn't. If it is, nothing more needs to be done in terms of hardware.
  - Both ship's had software compatibility issues so we went for standalone system.

#### 2. Purchase and fit a specific LRIT system.

Thrane & Thrane TT-3000 LRIT unit specifically designed for LRIT compliance.





# SAILOR TT-3000LRIT







Although the image shows an aerial unit and Under Deck Unit, the system as fitted to Discovery and James Cook consists of a totally integrated aerial unit, so cabling is kept to a minimum. Cost is for unit and cabling (20m or 50m) and costs about €2000 plus fitting.





- Compliance testing
- Once fitted, unit needs to be tested using an approved compliance testing Appliance Service Provider (ASP). We used Purplefinder by Polestar. They also test for USA. Costs about US\$360
  - http://www.lrit.com/
  - http://www.lrit.com/testing\_asp.html
- <u>http://www.navcen.uscg.gov/lrit/</u>
- Test takes 48 hrs. An additional cost is then levied for the issue of a certificate. There is currently no expiry date for this testing.



