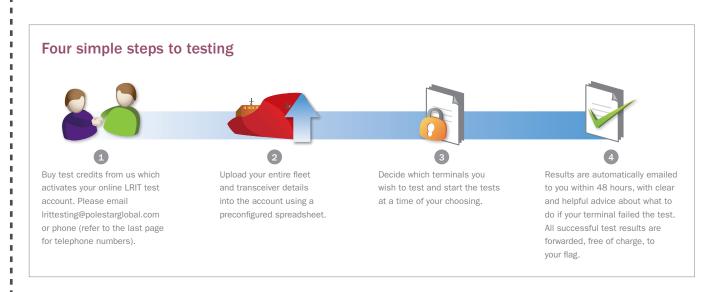




The introduction of the Long Range Identification and Tracking (LRIT) amendment to SOLAS V/19 requires all operators of ships engaged on international voyages, including passenger ships, cargo ships of 300 gross tonnage and above, and Mobile Offshore Drilling Units (MODUs) to provide tested and certified shipborne equipment for the transmission of LRIT information. For full details see www.lrit.com.



What do I have to do?

Compliance to LRIT is important. Some Governments have indicated that they may not grant entry to their territorial waters, or to their ports, for ships that do not comply with LRIT.

You should arrange to test your equipment as soon as possible. LRIT Conformance Test Reports (CTRs) are required for radio surveys and inspection from 31 December 2008.

Ship operators are required to provide shipborne equipment which complies with the LRIT regulation, pass a conformance test and obtain a CTR. All shipborne LRIT equipment must be tested and certified by an Authorised Testing ASP appointed by your Flag. Authorised Testing ASPs will also, on behalf of most Flags, be able to issue CTRs for transceivers that pass the test.

LRIT system architecture The ship operator's obligation under the LRIT regulation is to ensure provision of compliant equipment to transmit the identity of the ship, the position and date and time of the position to the Data Centre nominated by the Flag Administration / Ship Registry. In addition, the transceiver must be able to respond to polling for an on-demand position report and be able to immediately respond to instructions to modify the automatic Inmarsat C reporting interval to a frequency of a maximum of once every 15 minutes. Automatic Position Reports will be transmitted at a minimum four times per day to your Flag's National Data Centre. Vessel **Land Earth** Application Flag state Station (LES) Service Provider (ASP)

Why test with Pole Star?

We understand the LRIT system and what is required. We attend and contribute to the relevant IMO COMSAR, NAV, MSC, Engineering and Working Group meetings. We work with all the major satellite equipment manufacturers, communications service providers, land earth station operators, Inmarsat and other satellite communication network providers to ensure that the LRIT system works end-to-end. Pole Star is an LRIT Data Centre Administrator and an Authorised Testing ASP for over 85 Flags. See www.lrit.com for the latest information.

Pole Star's system manages all aspects of the test, including: terminal commissioning, satellite communications network management, post-test de-commissioning, production of a detailed test result and provision of a conformance test certificate if required. Testing of shipborne Inmarsat C equipment began in July 2008 and we have conducted over 20,000 tests since then.

Our technical capability is backed up by a professional, multi-lingual customer support team with offices in both Hong Kong and the United Kingdom.

Ship operators who test their LRIT transceivers with Pole Star will also be offered a free trial of our commercial Fleet Management product.

Why test now?

The vessel shows its compliance to the regulation by having on board a valid CTR, issued on behalf of their flag, in accordance with the provisions of MSC.1/Circ.1307 on Guidance on the survey and certification of compliance of ships with the requirement to transmit LRIT information.

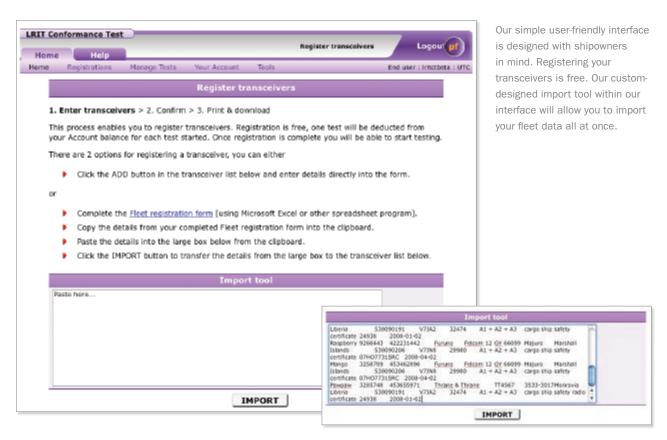
A vessel must show compliance by the date of its first survey after 31 December 2008 or at change of flag (considered the first survey after 31 December 2008).

Although a number of Flag States are still to implement their operational LRIT Data Centre as required by Regulation V/19-1, in order to prevent Port State Controls from penalizing ships of these flags, the IMOs Maritime Safety Committee approved transitional arrangements for the compliance of vessels.

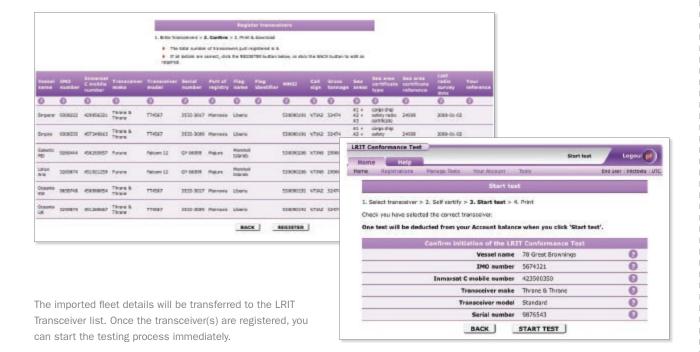
This means that as long as the vessel has complied with its LRIT obligation (provided a tested and certified transceiver in advance of the radio survey date) within the deadline, it cannot be sanctioned for matters outside its control. With this in mind, ship operators are advised to test their transceivers in good time.

How to test

We provide a web based system where ship operators have their own account. From your account you can initiate tests at any time and review the progress and status of your tests. The system provides error messages and suggests corrective action on failed equipment.



Our simple user-friendly interface gives you a secure testing account. With this, you can initiate your tests at any time, allowing you to fit your testing around your operational schedule. Once you've gathered your fleet information, our intuitive application allows you to upload your entire fleet with one click. With your testing account, you can overview the progress and status of testing of your fleet. Your results are emailed to you within 48 hours.



issued under the provisions of MSC.1/Circ.13		
of compliance of ships with the requ	ace Applications Limited	
	GOVERNMENT OF	POLE STAR
Name of ship		
Port of registry		
Distinctive number or letters		*
IMO Number		
Maritime Mobile Service Identity		
Gross tonnage		
Sea areas in which the ship is certified to operate		
Sea areas for which this report is valid		
has been found to meet the requirement of prov. fr. standards and functional requirements for the frange iou. and: 1 is of a type approved by the finite form in accounce with	ation and tracking of ships adop th the provisions of regulation V/1	ted by resolution MSC.263(84) 9-1; Yes No
.2 is of a type approprial by the Administ inon as meeting the requestion of the required test of testing and required test	irements of IEC 60945 (2002-08) nmunication equipment and syste	and IEC Yes No
A has been certified by the ** inistration as complying with the and of reactition through the second of reactition through the second of the Revised performance standards for MSC.147(77) on Adoption of the Revised performance stand (* Delete as appropriate.)	e provisions of regulation XI-2/6; or a ship security alert system*/re	
has undergone conformance testing in accordance with the proc and has shown that it can operate within the tolerances of the s		
The conformance test was satisfactorily completed on		
Details of the shipborne equipment used to transmit LRIT in (e.g., make, model, serial number and shipborne equipment identifie		

	ANNEX - CONFORMANCE TEST RESULTS AS PER TABLE 2 OF APPENDIX 1 MSC.1/CIRC.13	107
CTN	Test requirement	Results
EL1	The equipment is activated into the ASP system	Pass
1	Establish the sea areas the ship is certified to operate from the Cargo Ship Safety Radio Certificate, Cargo Ship Safety Certificate, Passenger Ship Safety Certificate or equivalent	
2	The equipment automatically transmits an LRIT information	
3	The equipment identity is present in the received LRIT information	
4a	The latitude and longitude is present in the received LRIT information	Pass
4b	The equipment GNSS position information is based upon the WGS84 datum	Pass
5a	The date and time is present in the received LRIT information	Pass
5b	The equipment date and time information is in UTC	Pass
5c	The equipment transmits a Time Stamp relative—when the sition was prierated (not the CSP receipt time)	Pass
6	The equipment is of a type approved by the Acconstration	Pass
7	The equipment is switched off-on board or curses undistribution of LRIT information	Pass
8	The equipment is compliant with rows. It olution A.694(17). The equipment has been tested for electromegnetic company by (refer solution A.813(19))	Pass
9a	The equipment is reanning to automic ally transmit LRIT information at 15 minute intervals	Pass
9b	The equipment is reco. Igur a to automatically transmit LRIT information at 60 minute internal demonstrating at a change in transmitting interval has been successfully achieved	Pass
9c	The guipm call, transmits a LRIT information at 6 hour intervals	Pass
9d	The equipment is re-o figured to automatically transmit LRIT information at 24 hour intervals	Pass
9e	LRIT information is available within 15 minutes of the time it is transmitted by the ship	Pass
10	The equipment transmits LRIT information (subsequent to the ASP issuing a poli command) and the LRIT information is available within 30 minutes of the time the ASP has requested the information	Pass
11	The equipment interfaces directly to the shipborne global navigation satellite system equipment, or has internal positioning capability	Pass
12	The equipment is supplied with energy from the main and emergency source of electrical power (this provision does not apply to Inmarsat-C)	Pass
13	The equipment automatically transmits LRIT information via the CSP to the ASP in a reliable and secure manner	Pass
EL2	The equipment is de-activated and released from the LRIT system	Pass

How do I get a certificate?

Pole Star can issue LRIT CTRs on behalf of most flags. Your LRIT CTRs will be dispatched as a scan by email, and as a hard copy by courier within 3 days of receipt of payment. You can refer to www.lrit.com/testing_asp. html to find the latest list of flags we certify for.

If your Flag is issuing CTRs directly, Pole Star will forward all successful test results directly to your Flag.

What should I do if my equipment fails the test?

If your shipborne equipment is non-conformant, Pole Star offers a choice of two dedicated LRIT equipment packages that include an LRIT conformance test. Both the Thrane Thrane SAILOR TT-3000LRIT and SkyWave DMR-800LRIT transceiver are delivered directly to your ship pre-configured and ready for immediate test, providing a cost effective LRIT compliance option where existing equipment is not suitable or where a stand-alone LRIT solution is required.

Information on survey and certification

It is important to note that an existing ship safety radio certificate does not confer LRIT compliance on the ship. MSC.1/Circ.1307 regarding Guidance on the survey and certification of compliance of ships with requirement to transmit LRIT information states that compliance of the shipborne equipment with the regulation should be demonstrated by the equipment being:

 of a type approved by the Administration in accordance with the provisions of regulation V/19-1 and section 4 of the revised performance standards; or

- certified by the Administration as meeting the requirements of regulation IV/14 and satisfactorily completing a conformance test; or
- certified by the Administration as meeting the requirements of IEC 60945 (2002-08) and IEC 60945 Corr.1 (2008-04) on Maritime navigation and radiocommunications equipment and systems – General Requirements – Methods of testing and required test results and satisfactorily completing a conformance test.



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