



# Type Approval Certificate

## Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.	5880108 HH
Company	Satamatics Ltd. Severn Drive Tewkesbury Business Park Tewkesbury, Gloucestershire GL20 8DN, UNITED KINGDOM
Product Description	Ship Security Alert System (SSAS) / Long-Range Identification and Tracking (LRIT)
Type	LRIT Ocean Alert Mk III
Environmental Category	C (terminal); F (antenna); EMC1
Technical Data / Range of Application	SSAS / LRIT System based on Inmarsat-D (IsatM2M mode) equipment, type SAT-201i, with an integral GPS receiver consisting of: - Antenna/transceiver unit, p/n B019B02 - Terminal unit, p/n B011B02 - Integral back-up battery pack, p/n B003A03 - Security alert button, p/n B012B01  Power Supply: 10 to 32 V DC  Degree of Protection: IP66  Software Version of the firmware: MSP - SWN-0046-20_V 3.33, DSP - SWN-0046-15_V 3.33, GPS - SWN-0036_V 1.02, GEM - SWN-0055-30_V 1.02.  Tests and evidence according to Requirement Class 1.
Test Standard	IMO Res. MSC.147(77); MSC.263(84); MSC/Circ.1072; IEC 60945:2002 / EN 60945:2002; Guidelines for the Performance of Type Approvals, Part 2 (2003).
Documents	Test report : EL4491/11728; SU3206/6951 Issue 2; EL4491/11722. Certificates: Inmarsat type approval DST002. Documents: Installation & Maintenance Manual, Doc. No. L036Y01, Issue No. 3.
Remarks	None
Valid until	2013-04-28
Page	1 of 1
File No.	I.E.03
Hamburg,	2009-02-24

Type Approval Symbol



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Jürgen Wittburg

Hartmut Kuhn

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".