

**MARINE DIVISION**

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Certificate number: 13734/A0 BV

File number: MMS 55614/1

Product code: 0001

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

### INTERSCHALT maritime systems AG

Schenefeld - GERMANY

*for the type of product*

### MAINTENANCE MANAGEMENT SOFTWARE

TITAN  
Version 6.x

**Regulations and standards:**

Bureau Veritas Rules for the Classification of Steel Ships NR 496 DTM R01 E  
Approval of Computerized Maintenance Management System used on board ships

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.*

**This certificate is valid until: 07 Apr 2014**

At Neuilly, on: 07 Apr 2009

**For BUREAU VERITAS,**  
By order of the Secretary

Approval office

Local office: BV HAMBURG  
Surveyor: D. Hoepfner

L. COURREGELONGUE



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION (software)**

TITAN version 6.x is the maintenance module of AVECS ISM SYSTEM software  
IS avecs Fleetmanagement System software is a Windows based ship management system, including other modules such as NAVECS, QDMS, Crew Master, AIDA and ISPS.

Language: Borland Delphi 6.0 - 7.0

Database type: ADS

Production site: INTERSCHALT maritime systems AG - Ahornstrasse 10 - 14547 Fichtenwalde – GERMANY

### **2. DOCUMENTS AND DRAWINGS**

- TITAN6Admin.pdf dated 21/03/2002: Administration Guide

- TITAN6User.pdf dated 21/03/2002: User Guide

- Titan\_english.pdf dated 23/09/2002: TITAN course materials

### **3. TEST REPORTS**

Demo version 6.5.55 (13/02/2009) + setup data and Reports update (bv\_update.exe, 17/03/2009), tested as per report VSM/09/00022

### **4. APPLICATION / LIMITATION**

The approved Computerized Maintenance Management System is acceptable for use onboard BV classed vessels surveyed under Planned Maintenance System (PMS), or granted with STAR-MACH additional class notation.

This certificate is valid for tested version 6.5.55 and later releases of version 6, provided that alterations of functionality remain in line with the Rules in force.

Onboard installation and maintenance requirements:

The system is to be installed and used according to the manufacturer's recommendations.

The system is to store history of reported jobs, equipment breakdowns and damages for at least 5 years.

Access rights are to be set in order to avoid unexpected or spiteful editing or deleting of maintenance histories and maintenance logs.

### **5. PRODUCTION SURVEY REQUIREMENTS**

The maintenance management software is to be manufactured, examined and tested by INTERSCHALT maritime systems AG in accordance with the type described in this certificate.

### **6. MARKING OF PRODUCT**

Identification is:

- Maker's name or trade mark: INTERSCHALT maritime systems AG,

- Software name and version: TITAN version 6.x

Identification is displayed through button "Options" of the software, and is to be available in software manual.

### **7. OTHERS**

7.1 - The approval only concerns the functionality and does not certify that the software is free from anomalies.

INTERSCHALT maritime systems AG, GERMANY, should notify BUREAU VERITAS of any modification or changes to the software in order to maintain the validity of the Type Approval Certificate or to renew it, as relevant.

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the installed softwares at any time and that INTERSCHALT maritime systems AG, GERMANY, will accept full responsibility for informing shipbuilders, ship owners or their sub-contractors of the proper methods of use and general maintenance of the software and the conditions of this approval.

7.2 - INTERSCHALT maritime systems AG, GERMANY web site address is <http://www.interschalt.de>.

\*\*\* END OF CERTIFICATE \*\*\*