

# TYPE APPROVAL CERTIFICATE

Certificate No:

**TA PM 90000011**  
**DNV GL**

## This is to certify:

**That the Planned Maintenance System for Machinery**

with type designation(s)

**Navatom 2.x**

Issued to

**Hive Bilisim ve Yazilim A.S.**  
**Sarıyer, İstanbul, Turkey**

is found to comply with

**DNV GL class programme DNVGL-CP-0206 – Type approval – Machinery planned maintenance system (MPMS)**  
**DNV GL rules for classification – Ships**

## Application :

**The Planned Maintenance System is approved for use onboard DNV GL classed vessels with the survey arrangement Machinery PMS**

Issued at **Høvik** on

This Certificate is valid until .

for **DNV GL**

DNV GL local station: **Hull, Materials & Machinery**  
**Høvik**

Approval Engineer: **Trond Underland Berntzen**

.....  
**Marit Laumann**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Form code: TA 251

Revision: 2016-12

[www.dnvgl.com](http://www.dnvgl.com)

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## **Product description**

This software is a computer-based tool for systematic planning and documentation of maintenance.

## **Application/Limitation**

Any version of this software sold and covered by this type approval must fulfil all functional requirements as specified in Class Programme DNVGL-CP-0206.

The system shall at least cover Class related machinery and testing of field instrument for periodically unmanned machinery space (Class notation E0, AUT, AUT-nh), when requested.

To obtain the Survey Arrangement Machinery PMS for a specific vessel all relevant requirements of the current set of Rules for Classification (Ships or Offshore) must be met.

## **Type Approval documentation**

User guide

Testing database for the web-based application Navatom 2.x

## **Tests carried out**

A software evaluation of Navatom 2.20.1– DNVGL TA has been carried out to verify compliance with the functional requirements as per Class Programme DNVGL-CP-0206.

## **Marking of product**

The identification is stated in the programme display and on the printed reports.

## **Periodical assessment**

For retention of the Type Approval Certificate (TAC) a retention survey should be carried out at least every second year. One of the retention surveys will be at renewal of the TAC, i.e. before expiry date of the TAC.

Retention / renewal of the TAC will be based on an evaluation of the software with regards to changes within the software and/ or DNV GL requirements.

During the validity of this TAC all relevant changes and launching of new versions shall be reported to DNV GL.

## **Other conditions**

Any significant change in the software may render this Certificate invalid.

The validity date relates to the TAC issued to the manufacturer of the software, and not to the approval of the individual Planned Maintenance System installed on each vessel.

The validity status of the certificate can be found on <https://approvalfinder.dnvgl.com/>.

The digitally signed electronic version of the TAC represents the original of the certificate, and any paper version is a copy.