



Marine & Offshore

Certificate number: 33973/C0 BV

File number: MMS92100/1

Product code: 0001D

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

MICROMARIN YAZILIM A.S.

ISTANBUL - Türkiye

for the type of product

MAINTENANCE MANAGEMENT SOFTWARE

FLEET MANAGER

Versions 2.2.x.x and 2.3.x.x

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

NR 496 DT R02 : "Approval of Computerized Maintenance Management System used on board ships"

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 11 Sep 2029

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 11 Sep 2024,

Gurcan Yilmaz

This certificate was created electronically and is valid without signature



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 Marine & Offshore. 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 & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore 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 electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=ddraalkyxm>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION (software)

FLEET MANAGER software is a Windows based program providing support for Crewing, Document Management, Operation, Safety, Maintenance and Purchasing related activities.

Programming language: C#

Database Manager: Microsoft SQL Server 2008

Integrated Development Environment (IDE): Microsoft Visual Studio 2013 PRO

Compatible Operating Systems: Windows XP / Vista / 7 / 8

Minimum Hardware Requirements: 1.5 GHz (XP), 2-GHz (Vista) 32-bit (x86) or better processor, 2 GB or more computer memory, 1 GB of free hard disk space

Software version : 2.3.x.x

Production site:

MICROMARIN YAZILIM A.S.
Icerenkoy Mah. Cayir Cad.
Bay Plaza No:5 Kat:3
34752 Atasehir
Istanbul
TURKEY

Company e-mail: info@micromarin.com

Web site address: <https://www.micromarin.com>

2. DOCUMENTS AND DRAWINGS :

- User Guide - Fleet Manager Version 2.2.0 - Micromarin Software - 2014
- Demo version Fleet Manager 2014 Version 2.2.0.0 dd 16/05/2014
- Data in demo: MT DEMO 1.
- Quality manual for software development dated 11 Jul 2024
- Release note v2.3.0.2 dated 20 dec 2023
- Release note v2.3.0.3 dated 06 Feb 2024
- Release note v2.3.0.4 dated 10 Jun 2024

3. TEST REPORTS :

Demo version 2.2.0.0, tested as per report RRM/14/00060 dd 19/05/2014.

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 or STAR-MACH SIS additional class notations.

This certificate is valid for tested version 2.2.0.0 and later releases of version 2, 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.
- The data is to be saved at regular intervals, so that it can be readily restored if needed without loss of essential information.

The software is to be configured as follows:

- In "Planned Maintenance System" module \ "Work List" folder, the "Planned Jobs List" report should display the integrality of the vessel maintenance plan with at least the following information:
Component Name; Job Title; Procedure Description; and Period Name.

- In "Planned Maintenance System" module \ "Work List" folder, the "Work Done" report should display at least the following information:

Component Name; Due Code; Job Title; Period Name; Due Date / Value; Due Counter; Date; Hour; "Overdue Flag"; Reason Of Overdue; Postponed Date; Reason Of Postponement; and Description.

- In "Planned Maintenance System" module \ "Reports" folder, the "Traceability Report" report should display at least the following information in the "Components" tab:

Component/Equipment Name; Action Date; Action; First Name; Last Name; Modified Value; Old Value; and New Value.

- In "Planned Maintenance System" module \ "Reports" folder, the "Traceability Report" report should display at least the following information in the "Jobs" tab:

Component/Equipment Name; Class; Critical; Job Title; Critical; Action Date; Action; First Name; Last Name; Modified Value; Old Value; and New Value Job.

5. PRODUCTION SURVEY REQUIREMENTS :

The maintenance management software is to be manufactured, examined and tested by **MICROMARIN YAZILIM A.S.** in accordance with the type described in this certificate.

6. MARKING OF PRODUCT :

Identification is:

- Maker's name or trade mark: **MICROMARIN YAZILIM A.S.**

- Software name and version: **FLEET MANAGER – Version 2.3.x.x**

Identification is displayed in the title of the software main window 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.

7.2 - **MICROMARIN YAZILIM A.S., TURKEY** 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.

7.3 - 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 **MICROMARIN YAZILIM A.S., TURKEY**, 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.

7.4 - This certificate supersedes the Type Approval Certificate No. 33973/B0 BV issued on 19 Apr 2019 by the Society.

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