
 Orion Credence Solutions Pvt. Ltd.	Document: Release Note NAU Lite for Ships Ver. 2.1	
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NAU (LITE) Ver 2.1

Vessel Performance, Reporting & Monitoring System

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Documentation: Vessel Performance, Reporting & Monitoring System

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1. GENERAL INFORMATION

1.1 TECHNICAL DETAILS

Platform	.net framework with DevExpress technology
Language	C#
Database	SQL SERVER 2014
Development Tool	VISUAL STUDIO 2017
Client-Side Scripting	JavaScript
Chart Library	AM Charts, High Charts




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2. VERSION RELEASE AND SYSTEM OVERVIEW

The 'NAU' 2.1 supersedes the earlier version 2.0.1 in totality and has been incorporated with various new features and functions to enhance the user experience, provide comprehensive fleet overview, dashboards and many other features such as;

- **Improved performance:** NAU is now handier and more simplified for the users, with additional features for accumulating & presenting data more efficiently.
- **Technology enhancement:** Technology enhancements to facilitate different type and custom reports generations and filters for data sorting, searching and extractions.
- **New user interface:** The user interface has been upgraded to make it more intuitive and easier to navigate with reports re-arranged for easy access and monitoring as per their schedule and reporting frequency with alerts.
- **Synchronization:** Orion direct FTP transfer service has been enabled to restrict sole email dependency, this function will also be utilized for the version updates and other aspects for future requirements.
- **User management:** System has been configured to enable individual login configurations with admin rights to create multiple users to access NAU. All the tabs and sections that can be accessed by these users is also adjustable accordingly.
- **Dashboard:** various data analytics are included in this section, such as voyage analysis, daily analysis, Hull performance, Auxiliary and Boilers, etc.
- **Report and Extracts:** Extraction of numerous reports including event reports, consolidated reports, SEEMP as well as IMO DCS & MRV Reports are readily available on the system.

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3. IMPROVEMENTS, FIXES AND NEW ADDITIONS

- Commencement of reporting for new vessel can be from Port or Sea and not restricted to Departures / COSP.
- Clock Advanced/Retarded Feature available for Port reports.
- Simplified reporting as merged within one area as flowing with ability to save the report in draft mode for other officers to complete as applicable.
 - For instance:
 - the Bridge watch officer can complete the general section related to Distance, speed, weather & positions, etc. and,
 - the Engine watch Officer can complete the Fuel consumptions and machinery parameters,
 - Other important dates for inspections, Docking, hull cleaning etc. can be updated by the other responsible officers.

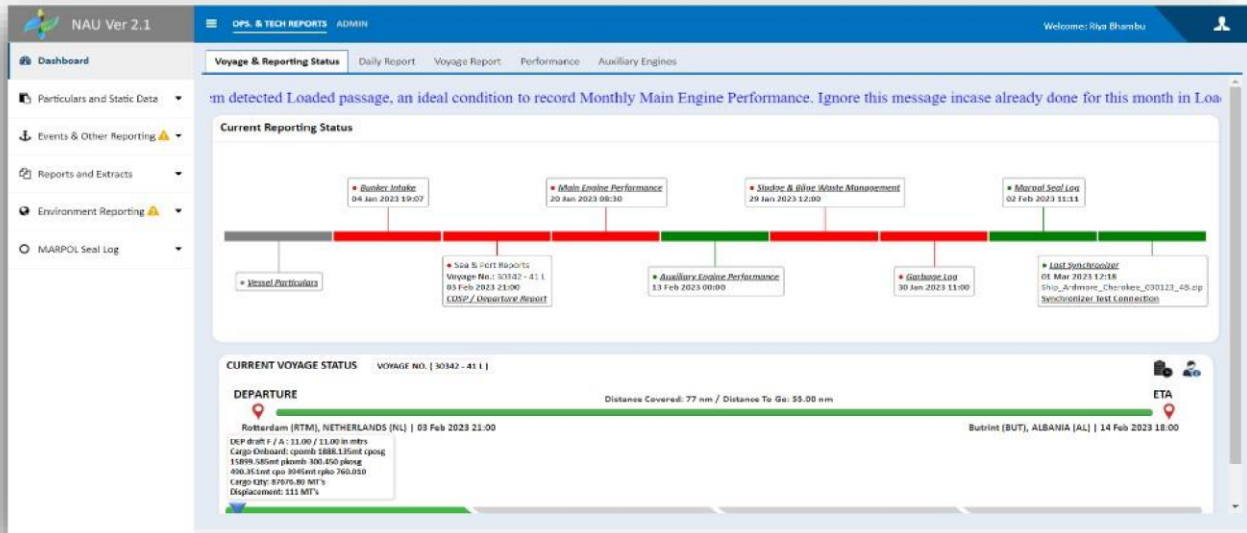
Thus, allowing the reporting to be structured and accurately reported by the responsible officers directly instead of only one person completing the entire report.

- During fuel intake division of Light (LFO) and Heavy Fuel (HFO) demarcation is now available with clear selection prior reporting the intake.

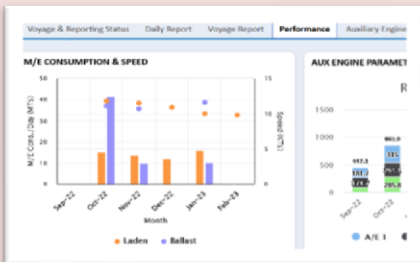
*****This is critical for EU MRV and DCS reporting and must be reported correctly and diligently.***
- Separate section provided for reporting for activities carried out onboard.
- Menu divisions to keep reporting area and extraction area separated.
- New; Pumping logs and special events reporting included in the event report.

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4. SYSTEM OVERVIEW

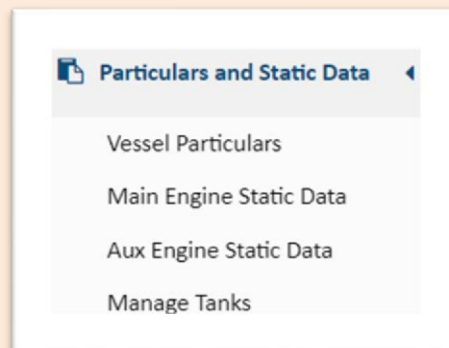


DASHBOARDS



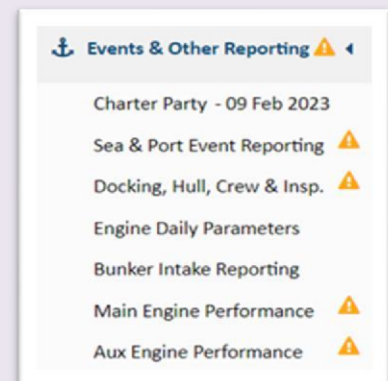
Dashboards are to view current reporting status and voyage report along with daily report, performance, Aux engine monitoring for any voyage.

VESSEL STATIC DATA




Particulars and Static Data has all the sections that need to be recorded once or occasionally.

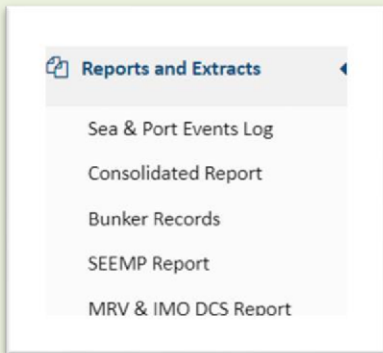
REPORTING AREA



Event and other reporting section has all the daily, monthly and event reports.

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REPORTS AND EXTRACTS



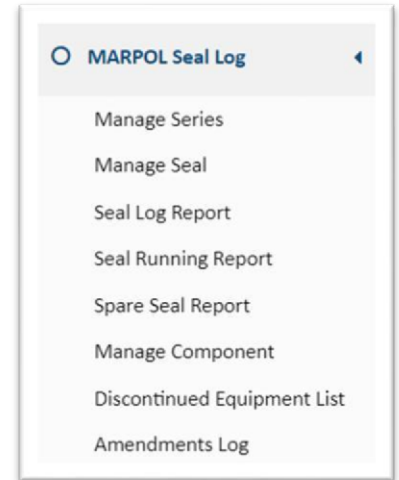
Reports and Extracts as the name suggests has a feature allowing report extraction for various categories.

ENVIRONMENT REPORTING



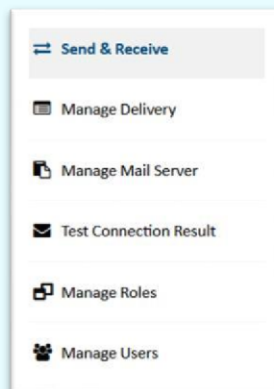
Environment Reporting includes all the reports intended for keeping a check on pollution from environmental aspect.

MARPOL SEAL LOG




MARPOL Seal log is where records of all seal tags are maintained and updated as and when required.

ADMINISTRATION

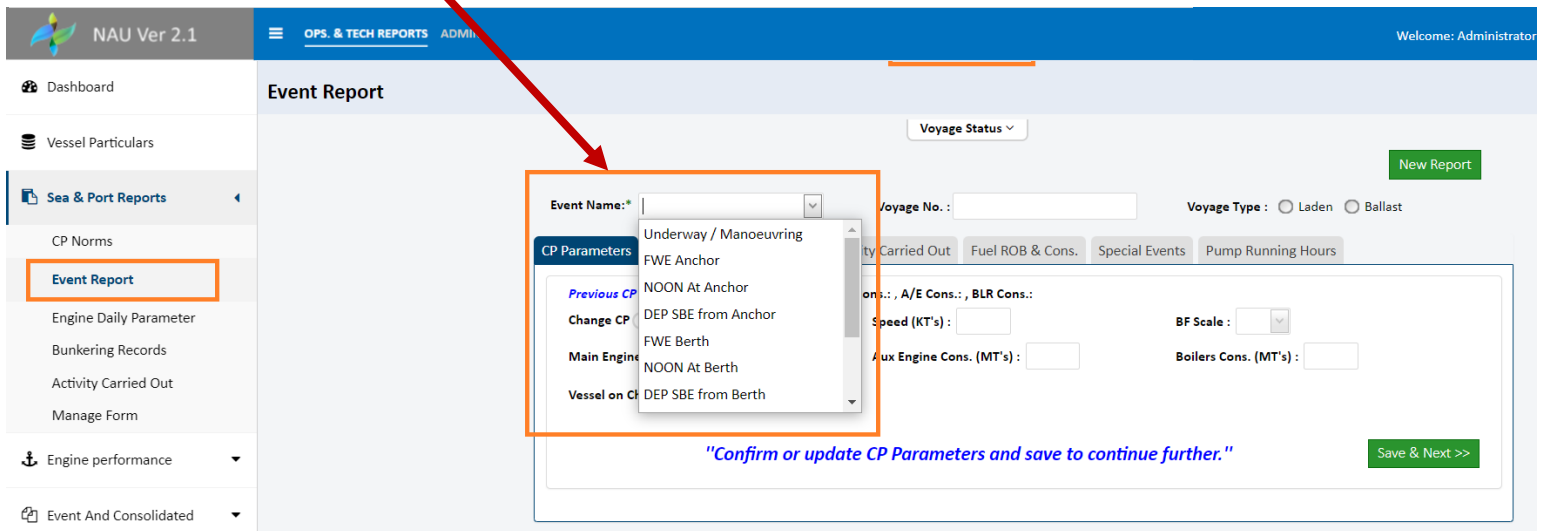


These menus are for creating and managing Synchronization, roles, and users.

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5. EVENT REPORT

Various Events



NAU Ver 2.1 | OPS. & TECH REPORTS | ADMIN | Welcome: Administrator

Dashboard | Vessel Particulars | **Sea & Port Reports** | CP Norms | **Event Report** | Engine Daily Parameter | Bunkering Records | Activity Carried Out | Manage Form | Engine performance | Event And Consolidated

Event Report

Voyage Status ▾

Event Name: *
 Underway / Manoeuvring
 FWE Anchor
 NOON At Anchor
 DEP SBE from Anchor
 FWE Berth
 NOON At Berth
 DEP SBE from Berth

Voyage No. : Voyage Type : Laden Ballast

Activity Carried Out | Fuel ROB & Cons. | Special Events | Pump Running Hours

Speed (KT's) : BF Scale :
 Aux Engine Cons. (MT's) : Boilers Cons. (MT's) :

"Confirm or update CP Parameters and save to continue further."

Event Name: * System ID: Voyage No. : Voyage Type : Laden Ballast

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