WÄRTSILÄ

FleetViewOnline

User Manual

Version 4.2

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Printing House Conventions

Sample of notation	Usage comments
`Setup.exe`	Messages, commands, files, folders and other Windows OS info
<Enter>	Keyboard key names
Button	Buttons
Menu	Menu items
Windows	Windows names, tabs, icons, checkbox, radio button and text box captions, and other interface elements, Important text
Note, Warning, Caution	Notes
Auxiliary text	Auxiliary text
http://www.amver.com	URL

Abbreviation

AIS	Automatic Identification System
AMVER	Automated Mutual-Assistance Vessel Rescue System **http://www.amver.com**
CMF	Combined Maritime Forces
CSO	Chief Security Officer
DCE	Digital Communication Equipment – physical equipment which has an antenna unit, power supply, etc.
DNID	Data reporting Network Identification code (Data Network ID)
DPR	Data Position Report
DTE	Digital Terminal Equipment – software interface for operating the equipment
DCW	Digital Chart of the World
EEOI	Energy Efficiency Operational Indicator
ERBL	Electronic Range and Bearing Line
EIK	Inmarsat base station in Norway - provider of global satellite communications solutions
FVO	FleetViewOnline vessel monitoring system
IMN	Inmarsat Mobile Number : The number assigned by the national routing organisation to an Inmarsat MES as its identity number. An Inmarsat C maritime IMN has the format 4xxxxxxxxx
KML	Keyhole Markup Language
LES	Land Earth Station
MES	Mobile Earth Station: The generic name used to describe an Inmarsat-approved terminal which is allowed to access the network, and applicable to both maritime and land mobile communications
IMO	International Maritime Organization
MMSI	Maritime Mobile Service Identity
MSCHOA	The Maritime Security Centre – Horn of Africa **http://www.mschoa.org/Pages/default.aspx**
OWM	Oily Water Monitoring
PAYS	Pay As You Sail
SMS	Short Message Service
SOLAS	Safety of Life a Sea Convention
SSAS	Ship Security Alert System - function of the ship Inmarsat-C terminal
TRS	Electronic navigational charts produced by Wärtsilä Voyage Ltd
UKMTO	The UK Maritime Trade Operations
UTC	Universal Time Coordinated

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1. Introduction

The objective of the manual is to enable office/shore-based users of FleetViewOnline (FVO) and the Ship Security Alert System (SSAS), Ship Guard, to use and move around the internet based service with an acceptable level of competency in relation to their duties within the shipping company.

After working through the manual users will be able to:

- Be familiar with and control password access
- Understand various user functions and operations available from web site
- Know the difference between administrator, power user and standard user
- Appreciate the need to preplan and set up the web site to suit the company structure
- Create and delete vessel groups
- Create and delete user groups
- Set SSAS messaging for vessels
- Understand ship security alert messages
- Manipulate weather features
- Understand user defined areas
- Use the Port menu
- Work with user zones
- View AIS data using the UAIS menu
- View information about piracy attacks using the Piracy menu
- Use the WAVE and CDMO services
- Use FVO mobile version and Android application.

1.1 Definitions

FleetViewOnline

An internet based application that supports the viewing/monitoring of vessels via Inmarsat system subscribing to the service.

FVO is used to monitor:

- SSAS reports/alerts
- Vessel tracking reports
- Combined SSAS and tracking reports.

FVO supports tracking via Standard Sat-C, mini-C, Sat-D+, Iridium and AIS and also the Ship Security Alert functions as required by SOLAS X1-2.

Supported models of SSAS/Tracking hardware are:

- TRANSAS 'SHIPGUARD' Version 2
- TRANSAS 'SHIPGUARD' Version 3
- TRANSAS 'SHIPGUARD' Version 4
- POLESTAR 'DSAS' and POLESTAR 'DSAS Mk2'

- SATAMATICS 'OCEAN ALERT'
- THRANE & THRANE (all models)
- FURUNO (all models)
- JRC (all models)
- BlueTraker 2100
- SAILOR H4122 Iridium SSAS
- T&T Fleetbroadband 250/500.

Tracking

Refers to a Data Position Report (DPR) – usually an automated position report sent from the vessel without any operator intervention.

Polling

Is where a user ashore, via the FVO website, manually demands a position report from the vessels onboard system using poll command.

Poll is a command sent via the LES to the ship terminal, which initiates return transmission of a position report from the terminal to the LES or runs the programmed position reporting.

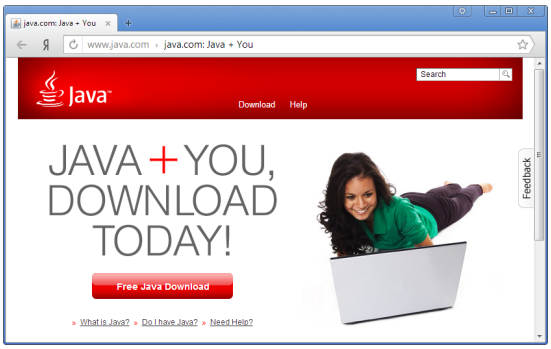
The poll commands can be used for performing the following operations:

- Terminal polling for the reception of a single vessel Position Report
- Terminal programming for the automatic transmission of reports at a set interval. This operation is performed by the successive sending of three commands:
  - To stop the previous program
  - To load the data report sending program
  - To run the data report sending program.

Note: The set of available commands depends on the model of the terminal.

1.2 Configuration Requirements

Please note that some PC's may not display all information correctly and may require the download of Java Virtual Machine. To do this go to **www.java.com** or click the JVM link on FVO site home page and follow the **Free Java Download** link to install the most up to date version of Java VM.



Company Administrator Interface Requirements:

Internet Explorer ver. 7.0 and higher , Mozilla Firefox, Chrome, Safari

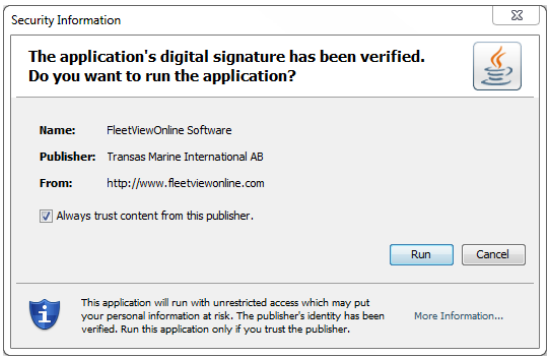
User Interface Requirements:

Any browser with Java VM Standard Edition support (version 7 is recommended)

JavaScript support, popup windows and Cookies permission have to be enabled in your browser.

To Use Java Application for Working without Browser:

Java VM Standard Edition.



Note: To verify a legitimate version of FVO software is running, at the first log-in a user will be requested to accept Software. The correct software will display: **Publisher**: Transas Marine International AB.

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1.3 Access Levels

To access the Wärtsilä Internet based tracking and security alert service use your Internet browser and log onto **www.fleetviewonline.com**.

During the registration process, Wärtsilä operations team will create your company's account and issue secure Login and Password, this password provides access at Company Administrator level and it is strongly suggested that this user is a member of the IT department or a senior manager in the marine/technical department.

It is at this point some thought as to how and what your company wants to get from the service needs to be given. To help with this a fictitious company has been created to show how FleetViewOnline can be manipulated to suit individual company needs.

In order to control and manage FVO three levels of access are available to companies.

Company Administrator

Ideally this should be a member of the IT department or someone who is computer literate and confident in the manipulation and management of web sites. By default they have access to all features and functions.

This level of access has the authority to make major changes to the company structure within the web site as well as access to all functions. There is also the authority to create user and allocate various rights to all levels of users.

This user will therefore issue login and passwords to all other users.

Power User

Normally has the same level of access to user features as the Company Administrator but does not have the authority to create/delete user groups or assign powers to other users.

If the Power User has the "View Vessel Page" access right, then he can edit the vessel data and create/delete vessel groups.

Users at this level will typically be senior managers within the company and as such will often have the authority to poll vessels.

User

Have view only rights – they are unable to poll a vessel and may have other restrictions and limitations as decided by the Company Administrator when setting up the various user accounts.

The ability to limit and control access to features at Slave user level makes it ideal to issue login and passwords to trusted users outside the company such as vessel charterers or ships agents.

2. Using FleetViewOnline

2.1 Your Account Access

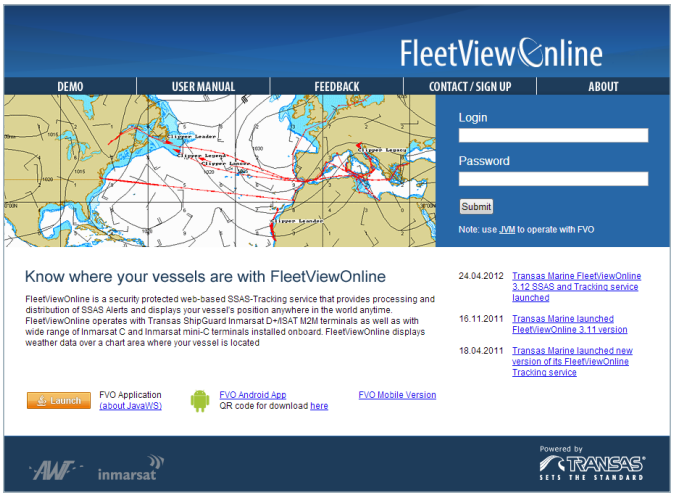
Initially the company will be sent an automatically generated login and password. It will provide access to the web site, at Company Administrator level. A master list of any vessels that have been registered will be visible.

Login : AdminmrEZO

Password: o4WkqCaV1ntq

The account Login is fixed but the Company Administrator can change the password to a more convenient form. It will be from these pages that the various other users and their associated rights will be determined.

It will be for the Company Administrator to create subsequent users and issue them with their own login and password. The Company Administrator can request a login change from Support team.



Additionally from the master list of vessels, the Company Administrator can create vessel specific groups, each group with its own unique name. Once created each vessel group can be associated with a specific user(s).

Being internet based, account access is not restricted to the office location, whether away travelling or responding to a crisis from home any PC with internet access can be used to login to your account.

After logging on you will have access to the various functions and features according to your rights.

2.1.1 Default Opening Service

The default opening service is Vessels Monitoring (see *"Figure 1. Vessel Monitoring service" on page 13*). In addition to manipulating the vessel display chart applet, the following overlays can be accessed via menu:

- Ports - regional/alphabetical listing of all ports for fast navigation
- Routes - creating and monitoring routes
- Weather - enabling/disabling of various weather features
- Areas - setting of user defined chart areas
- Zones - creating zones to control of entrance, exit, approach, move away and intersection of a zone
- Piracy - displaying information about piracy attacks
- UAIS info - viewing of AIS target information:

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2.2 User Interface

The FleetViewOnline interface consists of the following services: Monitoring, Piracy, Vessels, Users. The number of services depends on access rights. To switch between services use following buttons:

Monitoring - to monitor of vessels (see *"2.3 Vessel Monitoring" on page 19*). This page is available for all levels of access.

Piracy - to assign rights for receiving information about piracy attacks. This page is available for Company Administrator.

Vessels - to management of vessels. This page is available for Company Administrator.

Users - to management of user access rights. This page is available for Company Administrator (see *"2.4 Users and Vessel Groups" on page 51*).

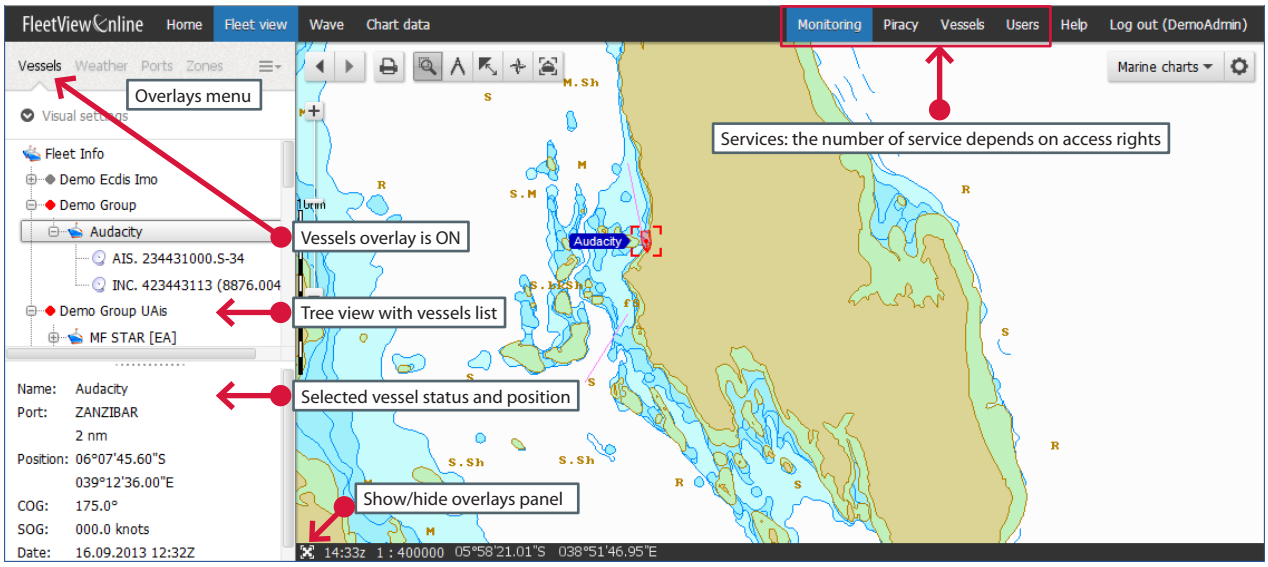

Figure 1. Vessel Monitoring service

2.2.1 Chart Display Area

The following controls are presented in the chart display area:

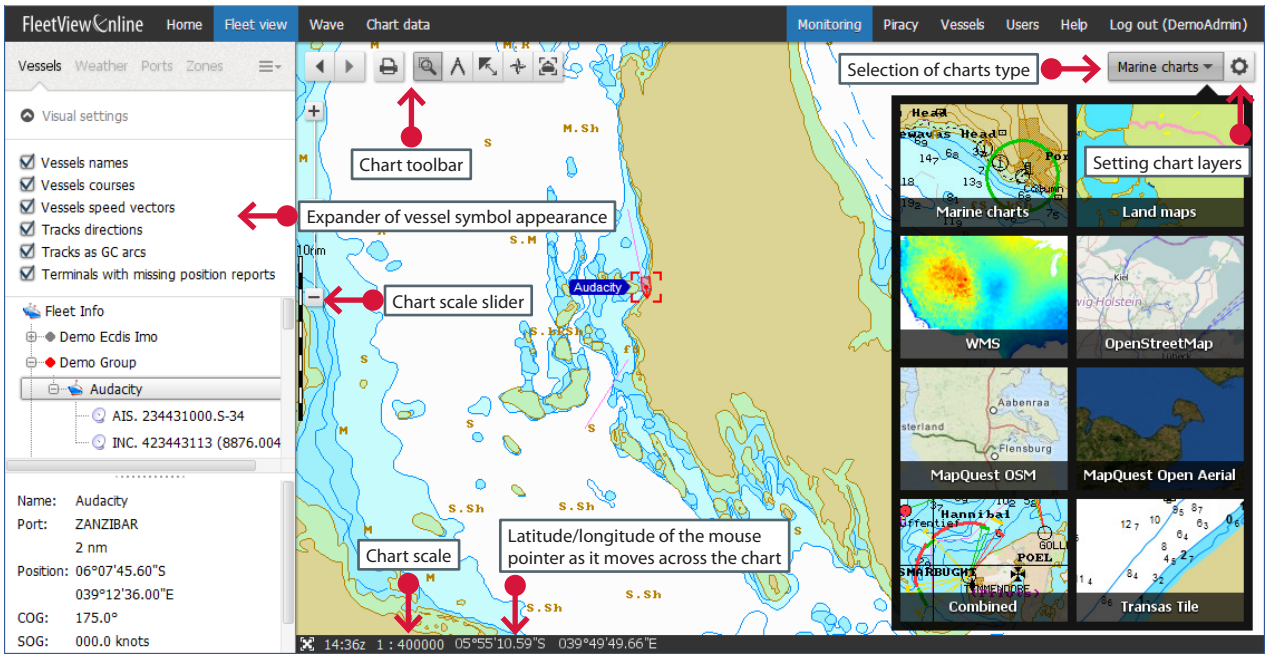

Figure 2. Chart display functions

2.2.1.1 Chart Toolbar

Toolbar in the upper left corner of the chart display area consists of seven function buttons that allow the user to:

	Go back to previous chart display
	Go forward to next chart display
	Print current chart as viewed
	Setting centre of chart area / Zooming selected chart area
	Activate the ERBL function
	Activate the Distance to shore function
	Showing of magnetic declination in the selected point
	Select vessel
	Edit route / Edit zone

You can toggle between toolbar functions by clicking the right mouse button.

The set of toolbar icons is changed depending on the executed task.

2.2.1.2 Scaling and Zooming Chart

The chart scale can be changed using slider, using the **Set scale** window or using mouse wheel.

› To use slider click and drag it. The chart scale is displayed on the marker

› To use the **Set scale** window click the chart scale area, select a scale in the opened **Set scale** window and click the **OK** button

› When mouse pointer is over the chart area you can scale charts in and out using the mouse wheel. This feature does not depend on the selected toolbar icon. Rotate the mouse wheel

- Forward (push) to increase the chart scale
- Backward (pull) to decrease the chart scale.

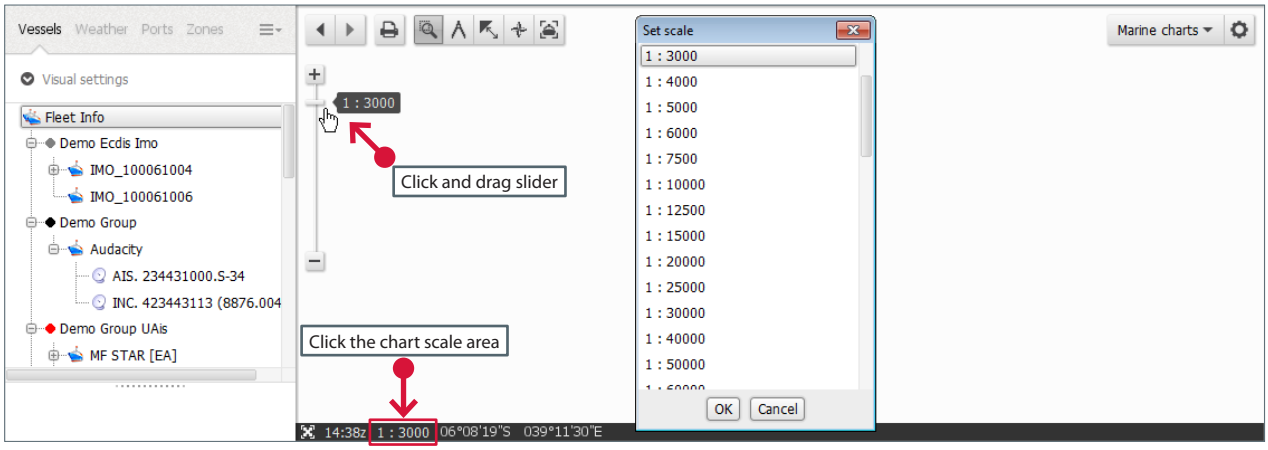

Figure 3. Scaling chart

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To zoom a particular chart area do the following:

› Select the **Zoom area** icon on the chart toolbar. A small cross is displayed in the chart area

› Place the cross at the upper left corner of desired viewing area and, holding down the left mouse button, drag out area. Release the mouse button and chart will reload to show zoomed area in the most suitable scale.

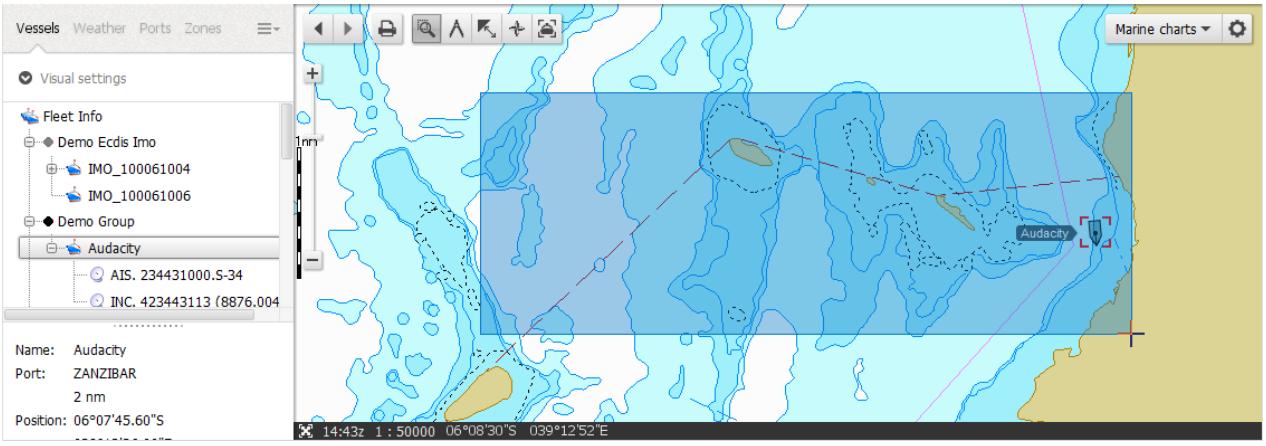


Figure 4. Zooming area

2.2.1.3 Centring chart

You can centring the chart by enter coordinates or by mouse click.

To set coordinates of the chart area centre do the following:

› Click the latitude/longitude area. The **Go to location** window opens:

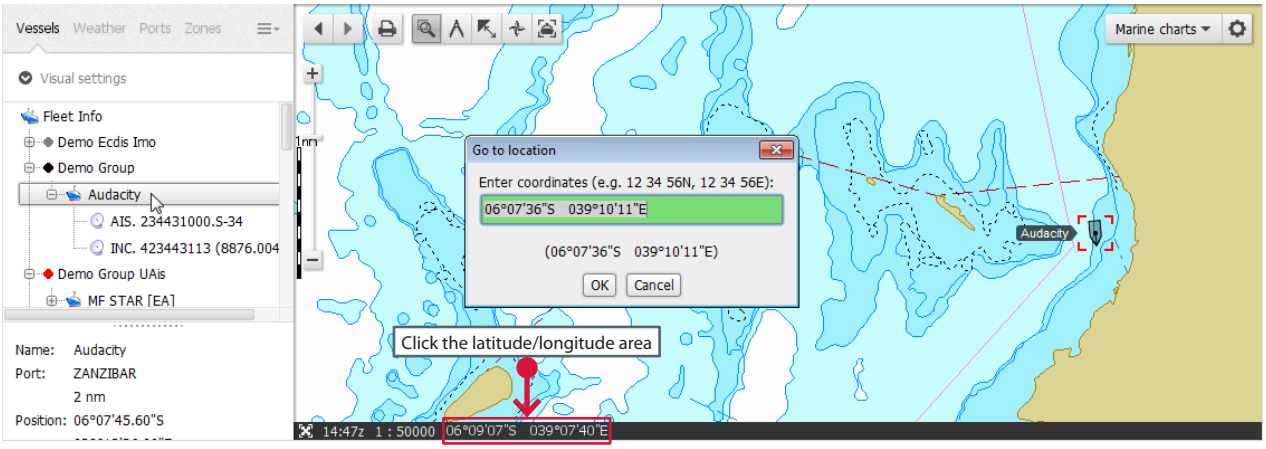
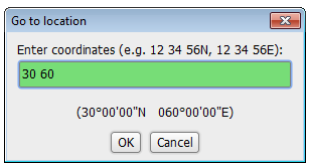


Figure 5. Centring chart

› Enter coordinates in free form. Interpretation of input values will be displayed under the input text box:



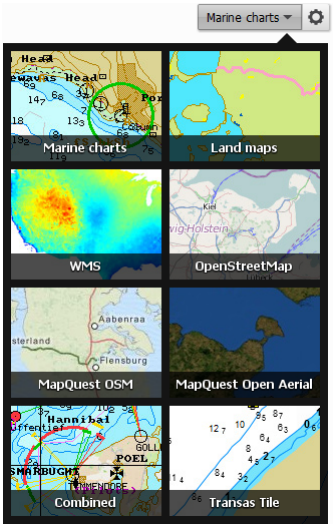
If the input values are interpreted correctly click OK. The point with input coordinates will be centred on the chart.

To centre the chart by mouse do the following:

› Select the **Set centre** icon on the chart toolbar. A small cross is displayed in the chart area

› Click the chart point which you want to centre. Chart will reload with chosen point as a centre.

2.2.1.4 Chart types



The following kinds of electronic charts can be displayed in FVO chart area:

- Marine charts
- Land maps
- WMS
- OpenStreetMap
- MapQuest OSM
- MapQuest Open Aerial
- Combined (Marine chart + Open StreetMap)
- Transas Tile

If any nautical chart is selected, then all measurements are in nautical miles. If any other chart is selected, then all measurements are in kilometres.

The following map projection are supported:

- EPSG:4326 (CRS:84)
- EPSG:3857
- EPSG:3785
- EPSG:900913
- EPSG:102113

2.2.1.5 Chart Layers

For Marine charts and Land maps the displaying of chart layers can be set using the **Chart setting** applet.

› To open the **Chart setting** applet click the ⚙ icon in the upper right corner. **Chart setting** applet will appear. By default, all layers are selected.

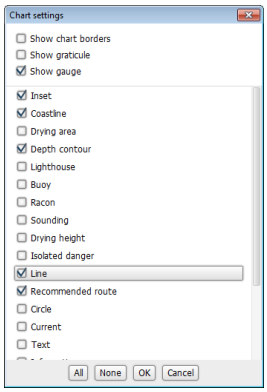


Figure 6. Chart setting applet

› To hide the map layer clear the checkbox at the right of layer name

› To hide all layers click the None button

› To show all layers click the All button

› To display chart borders select the **Show chart borders** checkbox

› To display the coordinate grid select the **Show graticule** checkbox

› To display the drawing scale select the **Show gauge** checkbox

› Click OK to save settings. The chart applet will reload showing of the selected layers.

When you select WMS chart you can set the WMS chart provider and select layers of WMS chart. To do this:

› Select WMS chart type from the Chart drop-down list. The **Chart setting** window opens.

› Select one of preset WMS charts from **WMS name** drop-down list or enter URI of WMS chart provider in the **WMS URI** text box and click the Get layers button. The list of downloaded layers are displayed in the window

› Select necessary layers and click OK. The selected layers will be loaded in FVO chart display area.

› To change URI of WMS chart provider or to select another layers click the ⚙ icon.

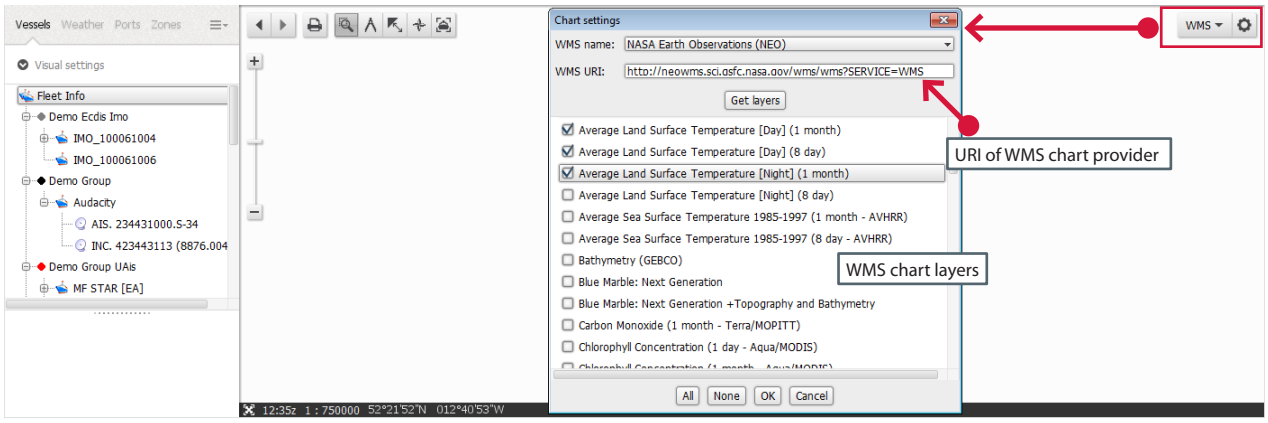


Figure 7. Setting of WMS chart provider

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The OpenStreetMap, MapQuest OSM and MapQuest Open Aerial charts have no adjustments.

2.2.1.6 ERBL Functions

› Select **ERBL** icon on the chart toolbar

› Position cursor at chosen start point and left-click and release the mouse

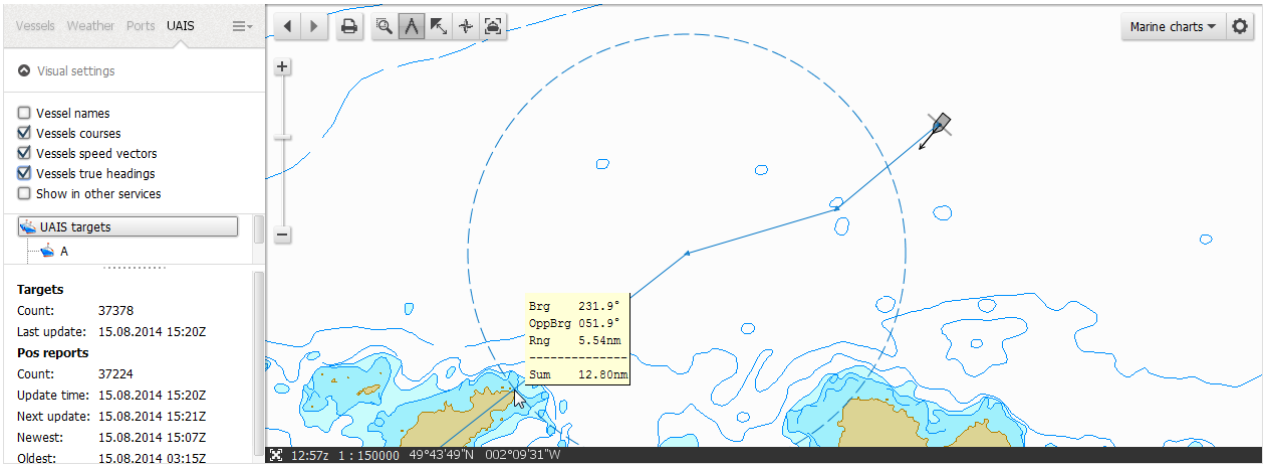


Figure 8. Set mouse function to ERBL and ERBL display.

› Move mouse to end point to observe the range and bearing in nautical miles from start point to end point

› Continue to click\release and move mouse to further waypoints to measure distance between each leg and waypoints. The on screen data display will show bearing and range of current leg and cumulative total of all legs.

2.2.1.7 Distance to Shore

› Select the **Distance to shore** icon on the chart toolbar

› Position cursor at chosen point and left-click the mouse. Tool tip will show bearing and range to shore.

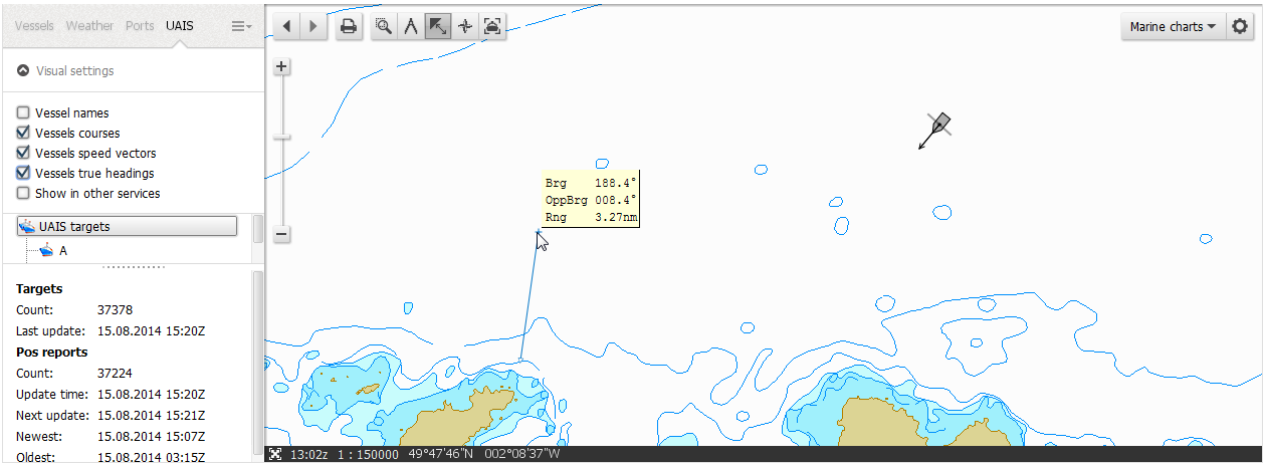


Figure 9. Distance to shore

2.2.1.8 Magnetic Declination

› Select the **Magnetic Declination** icon on the chart toolbar

› Position cursor at chosen point and left-click the mouse. Tool tip will show magnetic declination:

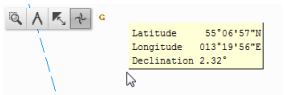


Figure 10. Magnetic Declination

2.2.1.9 Selecting Vessel

› Select the **Select vessel** icon or successively right-click the mouse

› Click the vessel symbol. The selected vessel data appears on the left part of browser window. The selected vessel will be highlighted with red square:

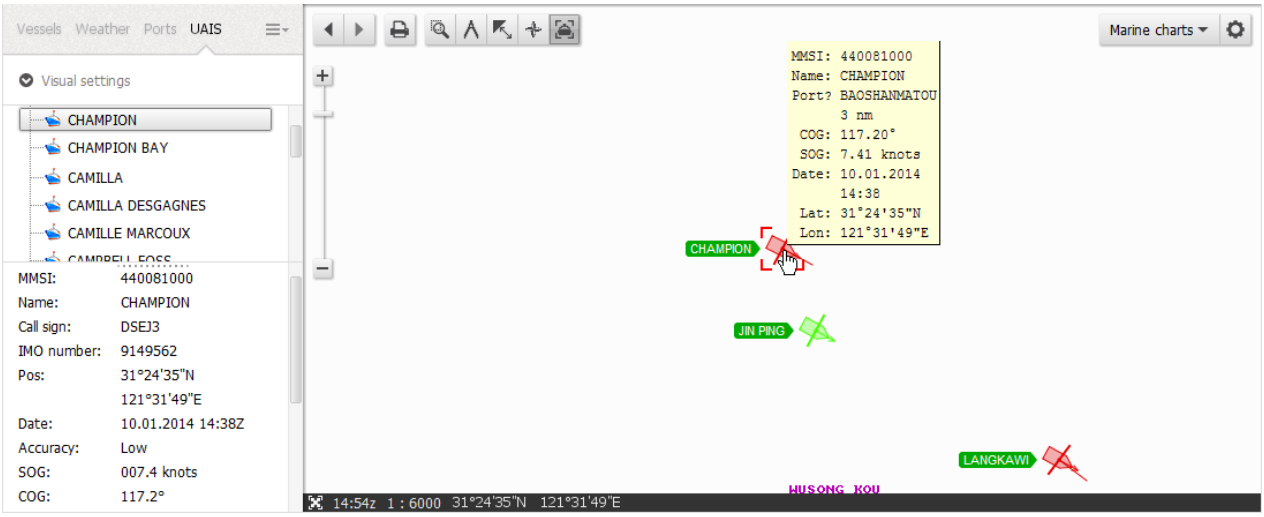
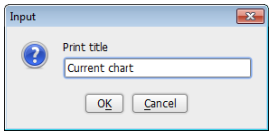


Figure 11. Selecting vessel

2.2.1.10 Printing Current Chart

› Click the icon. The **Input** window opens:



› Enter the title for the picture in the **Print title** field and click **OK**. The **Printer** setup window opens.

› Adjust the print parameters and click **OK** to print current chart.

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2.3 Vessel Monitoring

To monitor vessels open the **Monitoring** page.

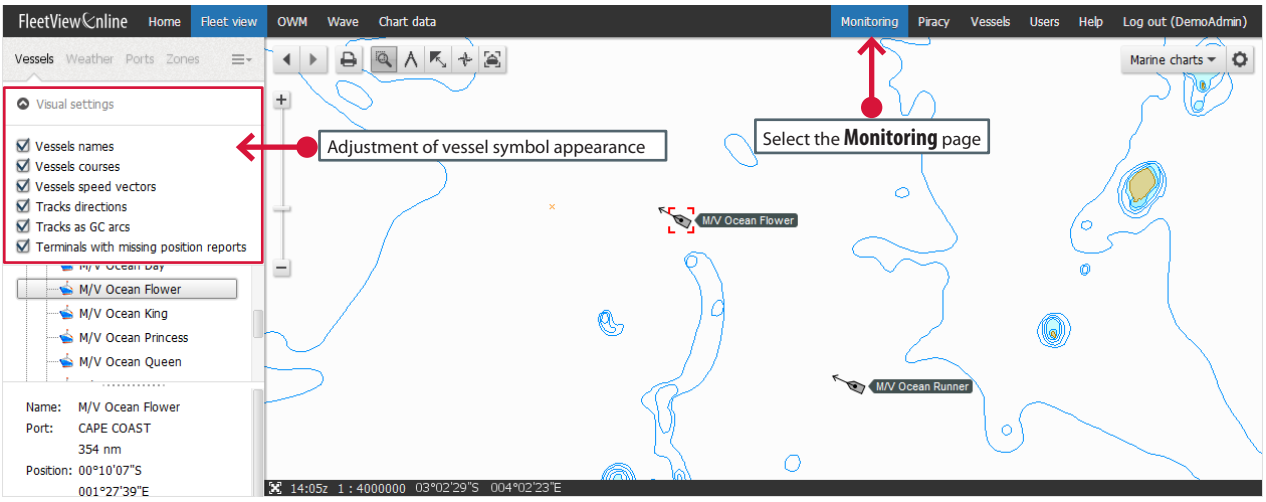


Figure 12. Monitoring screen – Vessel display enabling/disabling. Displaying vessel symbol and track.

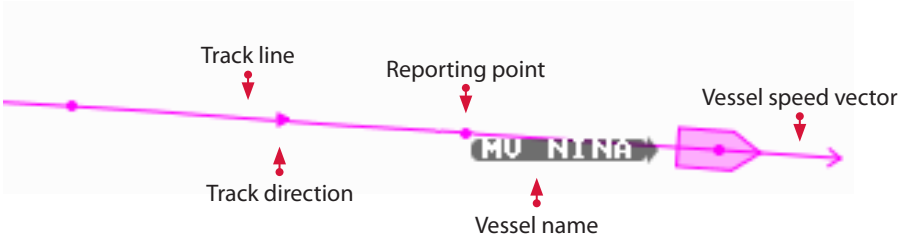
You can monitor the movement of the vessels and obtain the following reports:

- Track report
- Notification log
- SSAS log

2.3.1 Displaying Vessel

A vessel position on the chart marks with a symbol which appearance can be adjusted via checkbox controls (see *"Figure 12. Monitoring screen – Vessel display enabling/disabling. Displaying vessel symbol and track." on page 19*):

- Vessels names - show/hide vessels names
- Vessels courses - show/hide vessels courses
- Vessels speed vectors - show/hide vessels speed vectors
- Tracks directions - show/hide vessels track directions. The direction of the vessel motion is indicated by arrows
- Tracks as GC arcs - show vessels tracks as a Great Circle arcs segment
- Terminals with missing positions reports - the terminal has not sent any position reports for the double time interval. For example, if the terminal sends four positions reports per day, then the time interval is six hours. Therefore the double time interval is twelve hours.



The label with vessel name has different color depending terminal status:

Label color	Terminal Status	Priority
MV MARIA [EA]	Normal	
Ocean Day	Live Alert	(1) Highest
Ocean Flower	Test Alert or test mode is activated	(2) High
Ocean King	No power supply on terminal	(3) Medium
Ocean Princess	SSAS module is OFF	(4) Low
Ocean Runner	The terminal has not sent any position reports for the double time interval	(5) Lowest

Note: If more than one terminal on board, the label is colored in accordance with the terminal status priority.

When a cursor is hovered over vessel symbol or reporting point then a tooltip with an associated position report appears.

When a cursor is hovered over a track line a tool tip with information on track interval between two reporting points appears.

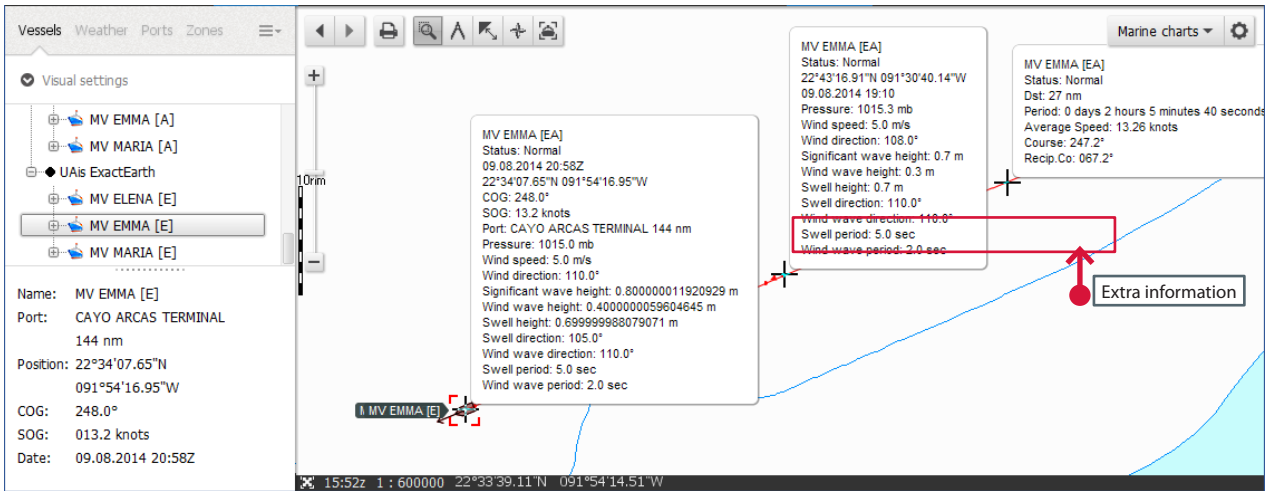


Figure 13. Information tooltips

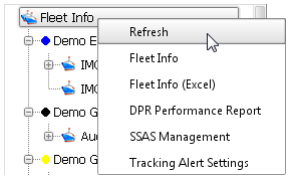
2.3.1.1 Vessel Menu

Features described below are initially accessed by right-clicking the **Fleet Info**, **Vessels Group** or an individual vessel name to select the required feature.

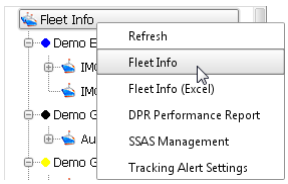
You can perform the following operations.

Fleet Info

- **Refresh** - to refresh current view:



- **Fleet Info** - to view all information about vessels last position in a separate window:



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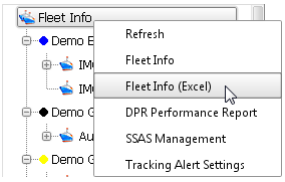
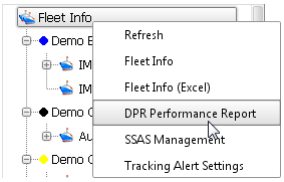
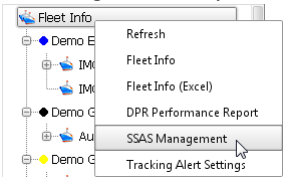
- **Fleet Info (Excel)** - to export all information about vessels last position in Excel file format:



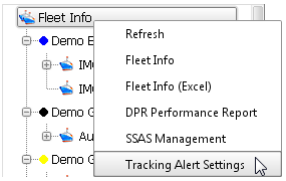
- **DPR Performance Report** - to load the .xlsx file (Excel file format) with DPR Performance Report. The report helps owner to monitor terminal DPR rate to indicate in due time cases of under or over reporting:

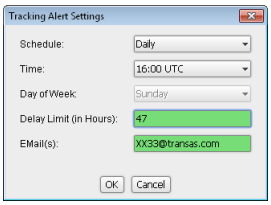


- **SSAS Management** - to open the **SSAS Management** page (see chapter *"2.7 SSAS Management" on page 64*)



- **Tracking Alert Setting** - to set the schedule for sending E-mail alert messages about all terminals that have not been sent position reports within time interval specified by the **Delay Limit** parameter.





Schedule - Never, Daily or Weekly

Time - 8:00 UTS or 16:00 UTS

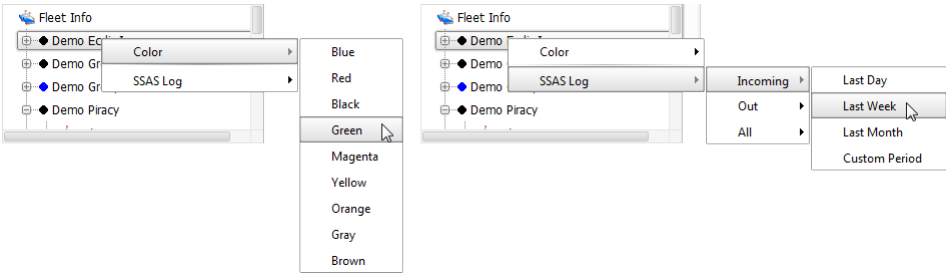
Day of Week - active when the **Weekly** option is selected in the **Schedule** drop-down menu

Delay Limit - maximum timeout of position report

EMail(s) - list of emails to send messages.

Vessels Group

- **Color** - to change color of symbol and track for all vessels in group
- **SSAS Log** - to view SSAS (message) log for all vessels in a separate window



Individual Vessel

- **Go To Vessel** - to view the location of any vessel selected in the list. The vessel symbol will be highlighted with red square.

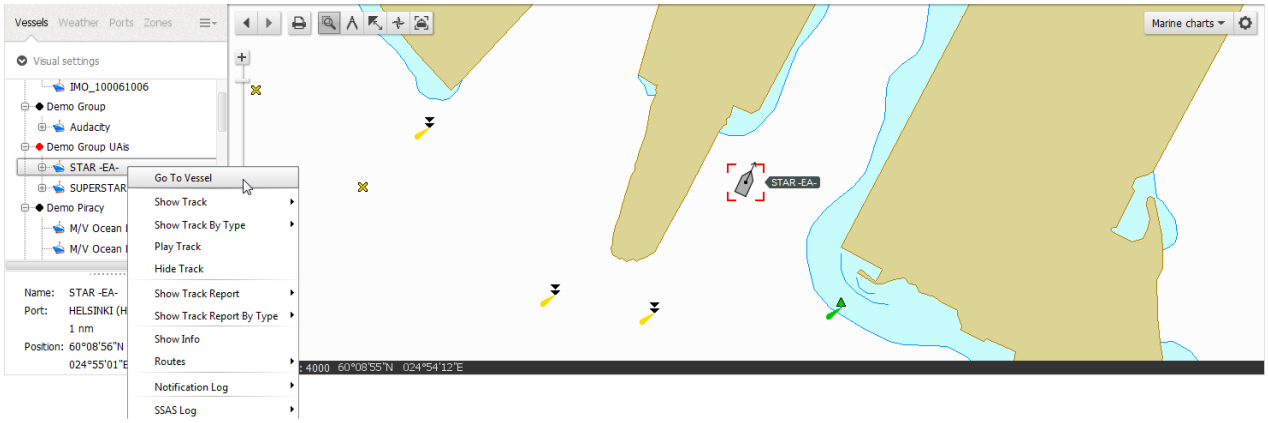


Figure 14. Viewing of selected vessel location

- **Show Track** - to show a vessel motion trajectory for chosen period (**Last Day**, **Last Week** or **Last Month**) or **Custom period**. The motion trajectory is shown on the chart in the form of a broken line which connects points corresponding to the vessel positions at the successive moments of time, and is referred to as the vessel track.

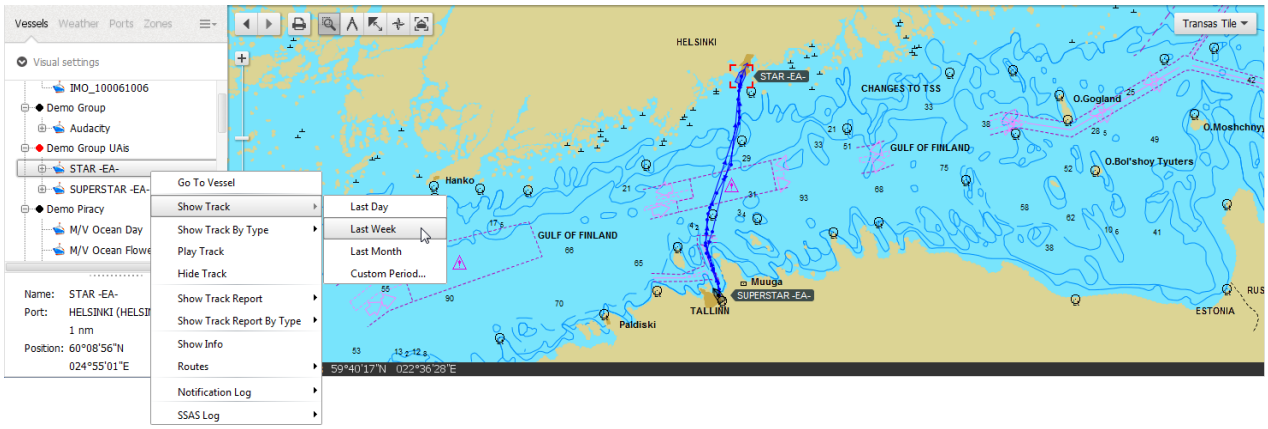
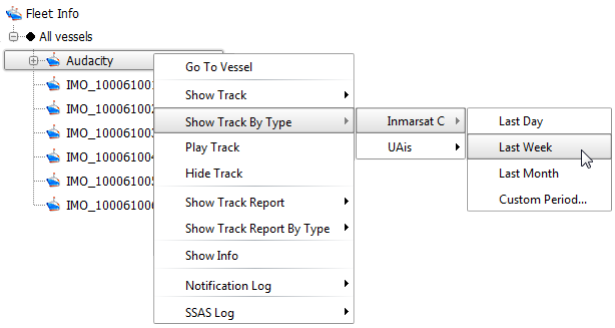


Figure 15. Displaying of vessel tracks

- **Show Track by Type** - to show a vessel motion trajectory for chosen period (**Last Day**, **Last Week** or **Last Month**) or **Custom period** depending on the data source.
  - **Inmarsat C** - to show track by Inmarsat C data
  - **UAIS** - to show track by UAIS data



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- **Play Track -** to playback a vessel motion trajectory for chosen period.

  This item appears when the display of a vessel track is set using **Show Track** command.

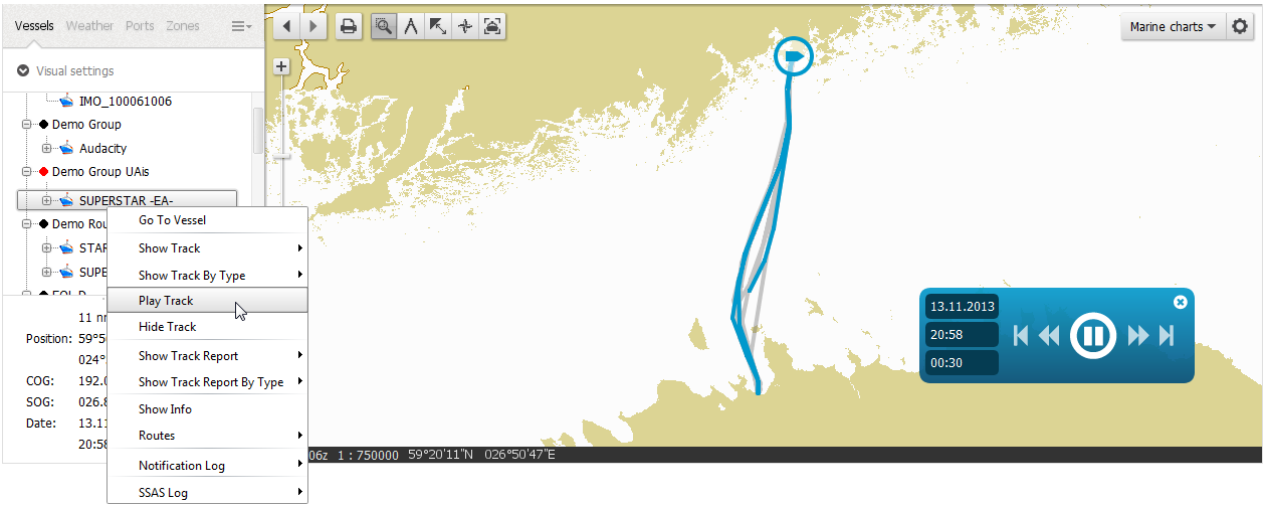
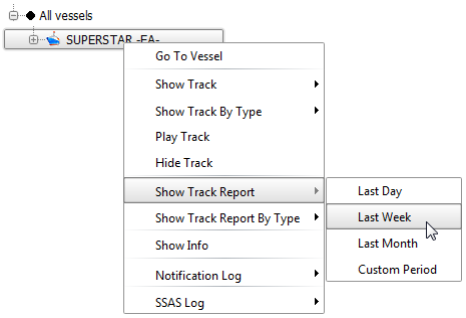


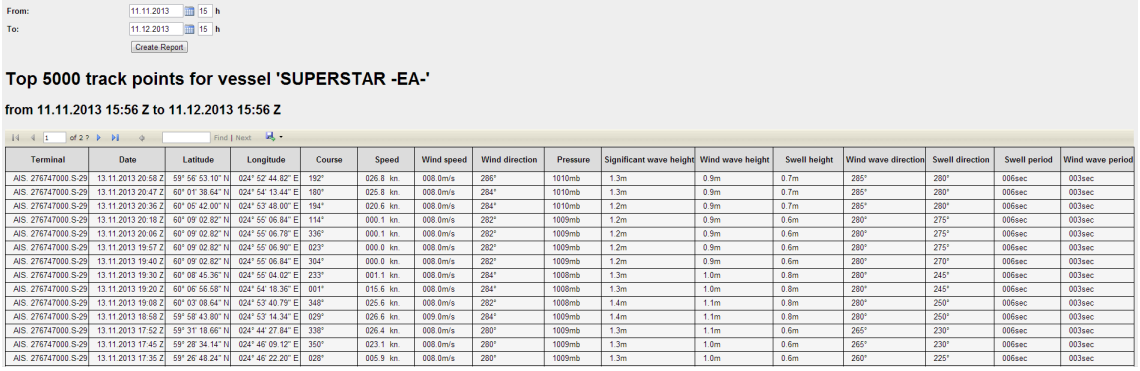
Figure 16. Playback a vessel motion trajectory

The period of time is used the same one (**Last Day**, **Last Week, Last Month** or **Custom period**) that was selected in the **Show Track** menu item.

- **Hide Track -** to hide the vessel track display.
- **Show Track Report** - to show the vessel motion trajectory in tabular form for chosen period (**Last Day**, **Last Week**, **Last Month** or **Custom period**).



The table will be displayed in a separate window:

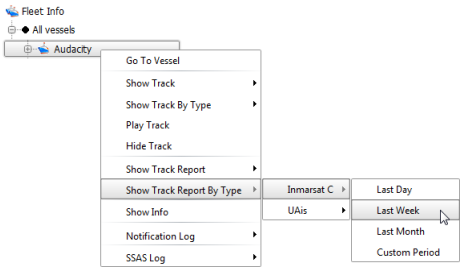


Terminal	Date	Latitude	Longitude	Course	Speed	Wind speed	Wind direction	Pressure	Significant wave height	Wind wave height	Swell height	Wind wave direction	Swell direction	Swell period	Wind wave period
AIS_276747000.S-29	13.11.2013 20:58 Z	59° 56' 53.10" N	024° 52' 44.82" E	192°	026.8 kn.	008.0m/s	286°	1010mb	1.3m	0.9m	0.7m	285°	280°	006sec	003sec
AIS_276747000.S-29	13.11.2013 20:47 Z	60° 01' 38.64" N	024° 54' 13.44" E	180°	025.8 kn.	008.0m/s	284°	1010mb	1.3m	0.9m	0.7m	285°	280°	006sec	003sec
AIS_276747000.S-29	13.11.2013 20:36 Z	60° 05' 42.00" N	024° 53' 48.00" E	194°	020.6 kn.	008.0m/s	284°	1010mb	1.2m	0.9m	0.7m	285°	280°	006sec	003sec
AIS_276747000.S-29	13.11.2013 20:18 Z	60° 09' 02.82" N	024° 55' 06.84" E	114°	000.1 kn.	008.0m/s	282°	1009mb	1.2m	0.9m	0.6m	280°	275°	006sec	003sec
AIS_276747000.S-29	13.11.2013 20:06 Z	60° 09' 02.82" N	024° 55' 06.78" E	336°	000.1 kn.	008.0m/s	282°	1009mb	1.2m	0.9m	0.6m	280°	275°	006sec	003sec
AIS_276747000.S-29	13.11.2013 19:57 Z	60° 09' 02.82" N	024° 55' 06.90" E	023°	000.0 kn.	008.0m/s	282°	1009mb	1.2m	0.9m	0.6m	280°	275°	006sec	003sec
AIS_276747000.S-29	13.11.2013 19:40 Z	60° 09' 02.82" N	024° 55' 06.84" E	304°	000.0 kn.	008.0m/s	282°	1009mb	1.2m	0.9m	0.6m	280°	270°	006sec	003sec
AIS_276747000.S-29	13.11.2013 19:30 Z	60° 08' 45.36" N	024° 55' 04.02" E	233°	001.1 kn.	008.0m/s	284°	1008mb	1.3m	1.0m	0.8m	280°	245°	006sec	003sec
AIS_276747000.S-29	13.11.2013 19:20 Z	60° 06' 56.58" N	024° 54' 18.36" E	001°	015.6 kn.	008.0m/s	284°	1008mb	1.3m	1.0m	0.8m	280°	245°	006sec	003sec
AIS_276747000.S-29	13.11.2013 19:08 Z	60° 03' 08.64" N	024° 53' 40.79" E	348°	025.6 kn.	008.0m/s	282°	1008mb	1.4m	1.1m	0.8m	280°	250°	006sec	003sec
AIS_276747000.S-29	13.11.2013 18:58 Z	59° 58' 43.80" N	024° 53' 14.34" E	029°	026.6 kn.	009.0m/s	284°	1009mb	1.4m	1.1m	0.8m	280°	250°	006sec	003sec
AIS_276747000.S-29	13.11.2013 17:52 Z	59° 31' 18.66" N	024° 44' 27.84" E	338°	026.4 kn.	008.0m/s	280°	1009mb	1.3m	1.1m	0.6m	265°	230°	006sec	003sec
AIS_276747000.S-29	13.11.2013 17:46 Z	59° 28' 34.14" N	024° 46' 09.12" E	350°	023.1 kn.	008.0m/s	280°	1009mb	1.3m	1.0m	0.6m	265°	230°	006sec	003sec
AIS_276747000.S-29	13.11.2013 17:35 Z	59° 26' 48.24" N	024° 46' 22.20" E	028°	005.9 kn.	008.0m/s	280°	1009mb	1.3m	1.0m	0.6m	260°	225°	006sec	003sec

Figure 17. Viewing of selected vessel track report

To change a time interval enter new data and time in the **From** and **To** text boxes and click the Create Report button.

- **Show Track Report by Type** - to show a vessel motion trajectory in tabular form for chosen period (**Last Day**, **Last Week**, **Last Month** or **Custom period**) depending on the data source



- **Inmarsat C** - to show track by Inmarsat C data
- **UAIS** - to show track by UAIS data

- **Show Info** - to view vessel information, last position and weather forecast for the time of last position report. Information will be displayed in the separate popup window:

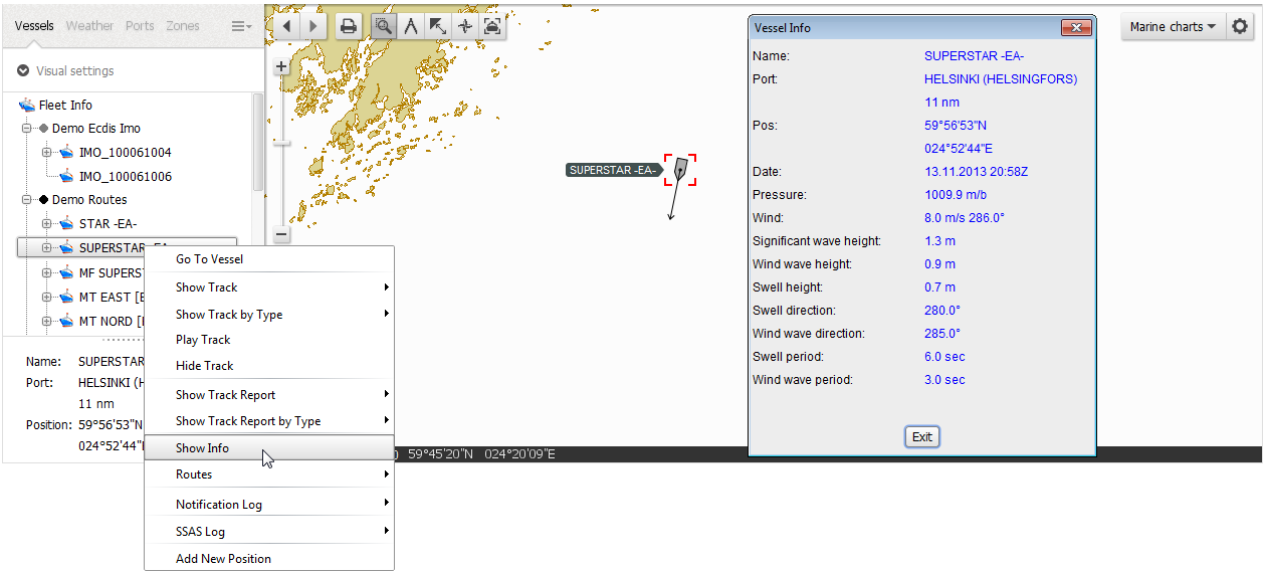
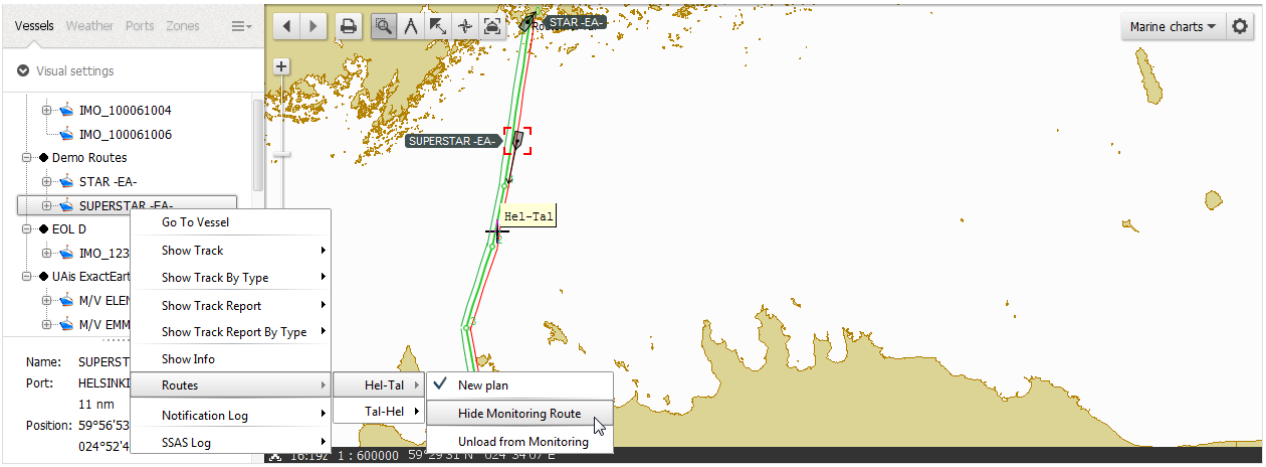


Figure 18. Vessel information

- **Routes** - to show/hide route, load route to monitoring and unload route from monitoring:



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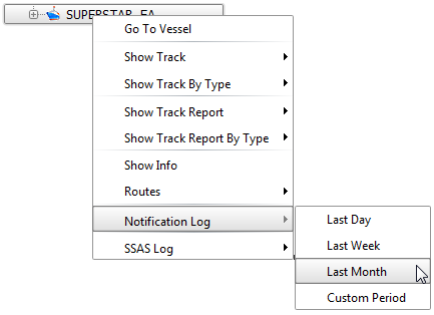
- **Notification Log** - to view message log of route planning feature and zone alarms.



The Notification log contains automatically generated alarm reports notifying the user that the vessel leaves the route determined for it by the user (see *"2.3.3.4 Calculating and Monitoring Route" on page 31*).

The Notification log contains information of entrance, exit, approach, move away and intersection of a zones as well, if any zone with alarm objects has been created (see *"Line and polygon zones are edited identically." on page 41*).

These reports are generated by the FVO server and can also be forwarded to authorized persons via E-mail or SMS, if this feature is activated (see *"2.4.3.2 Entering Delivery Data" on page 56*).

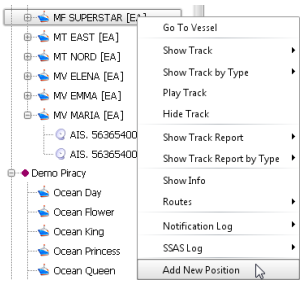
From: 01.10.2013 00 h
To: 11.12.2013 16 h
Create Report

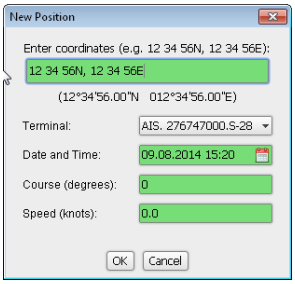
Notification Log for vessel 'SUPERSTAR -EA-'
from 01.10.2013 00:00 Z to 11.12.2013 16:00 Z

Generation Date	Alarm Type	Latitude	Longitude	Position Time	Sent Mail To	Sent SMS To
01.10.2013 06:15 Z	Entrance to zone	59° 26' 52.12" N	024° 46' 23.83" E	1.10.2013 06:14Z	nick.bazarov@transas.com	
01.10.2013 09:27 Z	Approach to zone	60° 08' 46.26" N	024° 54' 54.94" E	1.10.2013 09:25Z	nick.bazarov@transas.com	
01.10.2013 15:20 Z	Entrance to zone	59° 26' 40.00" N	024° 46' 14.74" E	1.10.2013 15:18Z	nick.bazarov@transas.com	
01.10.2013 18:25 Z	Approach to zone	60° 08' 43.23" N	024° 54' 50.90" E	1.10.2013 18:24Z	nick.bazarov@transas.com	
01.10.2013 21:28 Z	Entrance to zone	59° 27' 00.20" N	024° 46' 39.99" E	1.10.2013 21:26Z	nick.bazarov@transas.com	
02.10.2013 06:25 Z	Approach to zone	60° 08' 57.37" N	024° 55' 01.01" E	2.10.2013 06:23Z	nick.bazarov@transas.com	

Figure 19. Viewing of selected vessel notification log

- **SSAS Log** - see *"2.5.2 SSAS Log" on page 61* for details.
- **Add Position** - this item is displayed when the user has the **Add Position** permission. In this case, the coordinates obtained from other sources can be added if necessary (for example, the terminal is broken).





- Enter coordinates of new position in free form in the **Enter coordinates** field. Interpretation of input values will be displayed under the input text box
- Select terminal in the **Terminal** drop-down list. If it is no terminals on the vessel, a position can not be added
- Enter date and time of new position, vessel's course and speed and click **OK**. The new position will be added to terminal and will be display on the vessel track.

Warning! Be careful when adding positions. Incorrect data can only be deleted by the FVO support team

2.3.1.2 Terminal Menu

List of on-board terminals is allocated to a particular vessel.

To display the vessel's on-board terminals expand the plus button at the left of the vessel name:

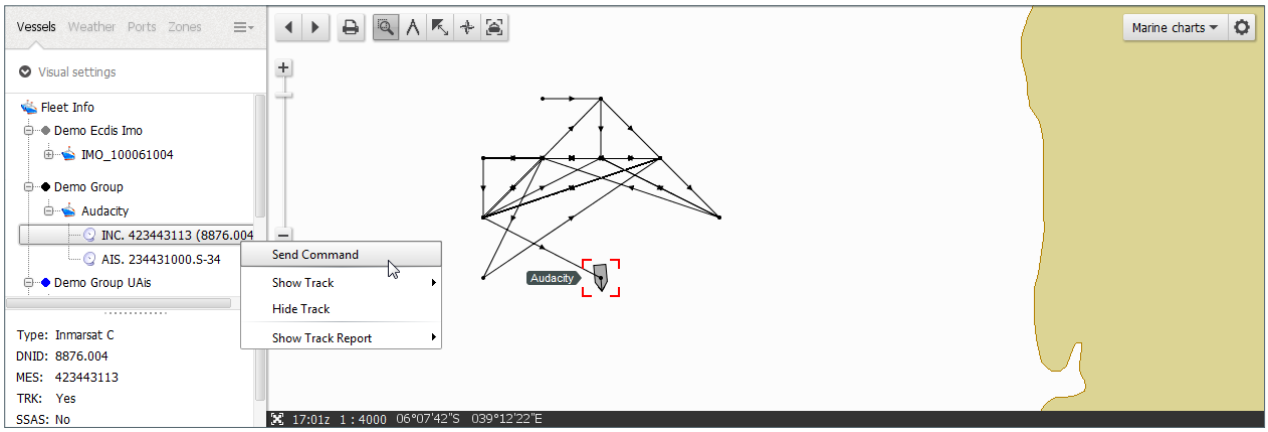


Figure 20. Expansion of the plus button at the left of the vessel name

Terminal ID will be pre-fixed with IND (Inmarsat D+/IsatM2M)), INC (Inmarsat/Mini C), AIS (AIS), IR (Iridium), IDP (IsatData Pro), FBB (T&T Fleetbroadband) or BT (BlueTraker).

Right-click a terminal ID and select the **Send Command** menu item to open the **Terminal Messenger** window. If the window does not appear then check the "Block popup windows" option in your internet browser. This option should be disabled.

The **Terminal Messenger** window allows you to send the following commands:

- Polling
- Program Polling (tracking)
- Scheduled Program Polling
- Program Polling Stop
- SSAS Resetting
- Battery Status

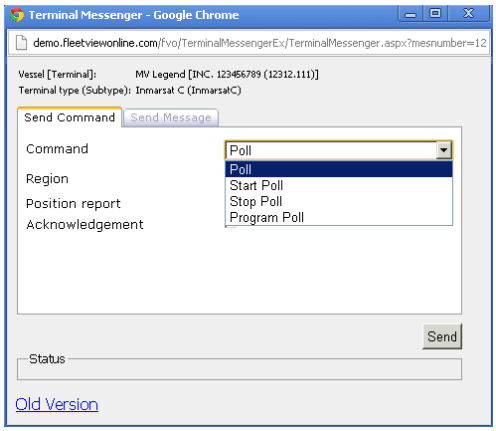


Figure 21. Terminal Messenger Window

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Once you have selected the command, you can then select the ocean region to send the command to. If you are unsure of which region the vessel is located, then you can send the command to all ocean regions (see *"Figure 22. Ocean Region Selection" on page 27*).

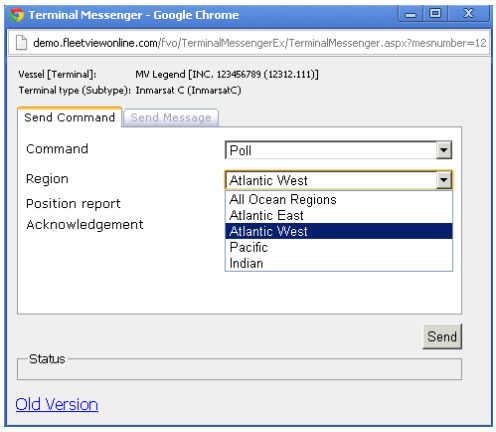


Figure 22. Ocean Region Selection

Then simply click the **Send** button at the bottom right of the window and you will see text "Message was sent". You can then close terminal messaging window and go to SSAS log to wait for response from hardware (see *"Figure 23. Send Message" on page 27*).

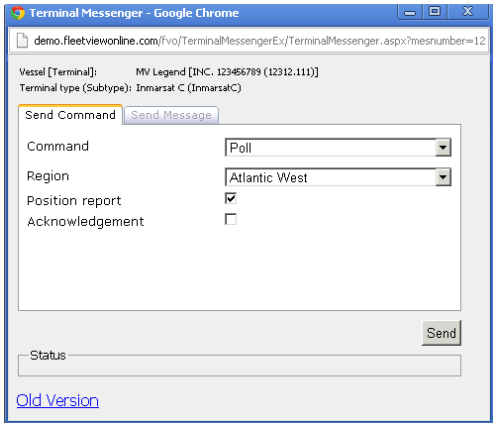


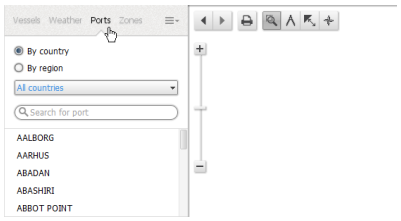
Figure 23. Send Message

Response times vary from 2-30 minutes depending on hardware type. For IsatM2M (former D+), FBB and IsataData Pro terminals time is about 2 minutes, for Inmarsat C terminals time is up to 30 minutes.

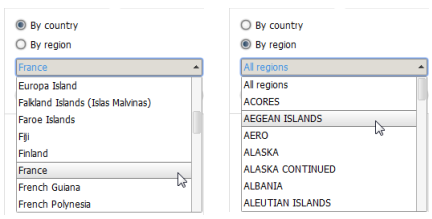
2.3.2 Ports

All the information about ports visible on the Transas charts is available in the **Ports** overlay.

› Select the **Ports** item. List of ports will be displayed in alphabetical order:



› If necessary select filter **By Country** or **By Region** and choice country or region



› Left-click the port name to see information about port

› Right-click the port name to open pop-up menu. Click **Go To Port** menu item to load relevant chart – the port will be centered in the chart display area:

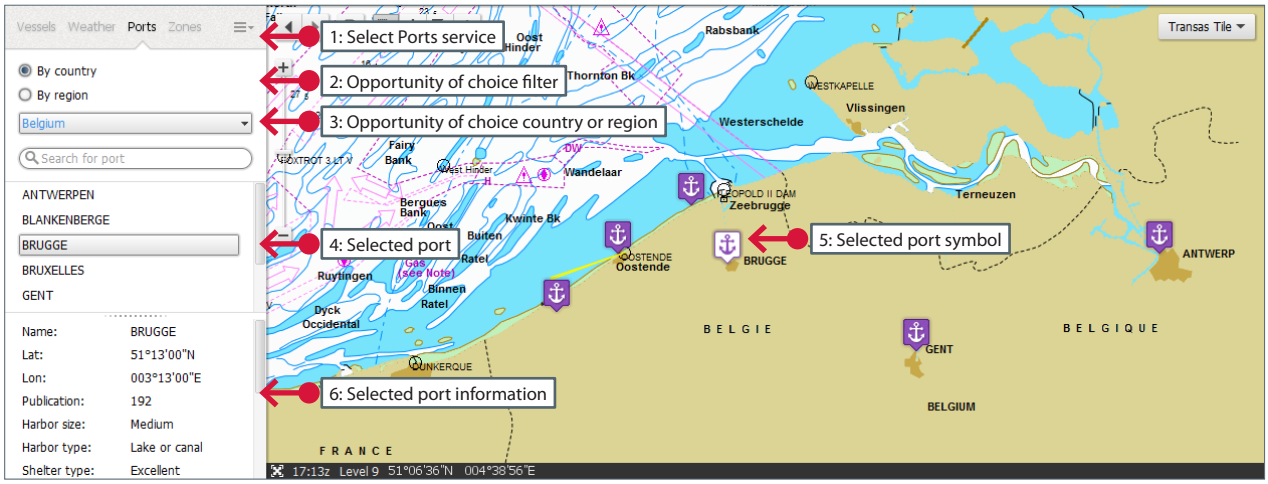


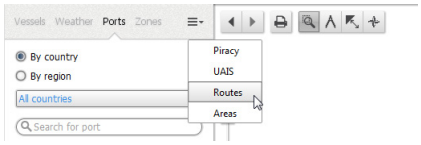
Figure 24. Ports overlay

The clustering mechanism is applied for the port markers. If two markers are too close to each other for the current zoom level (current scale) then they are merged into one marker.

2.3.3 Routes

The vessel route consists of predefined waypoints and calculation of motion time on route .

› To enable the **Route** overlay choose the **Route** item from drop-down menu:



A route can be set by one of the following ways:

- Add route - a new route is drawn in the chart area
- Upload route - a route is uploaded from existing file in RT3 format.

When the route is set for a vessel then monitoring of vessel's motion along the route may be enabled.

Several routes may be set for a vessel.

NOTE: To create and edit routes you should have permission 'Edit Routes'.

2.3.3.1 Adding New Route

› Right-click the vessel name and choose the **Add Route** command from the pop-up menu

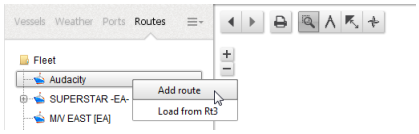


Figure 25. Adding a route

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› The **Edit route** icon appears on the chart toolbar and the **New Route** item appears in the tree view. Click this item. The route table opens under the chart area:

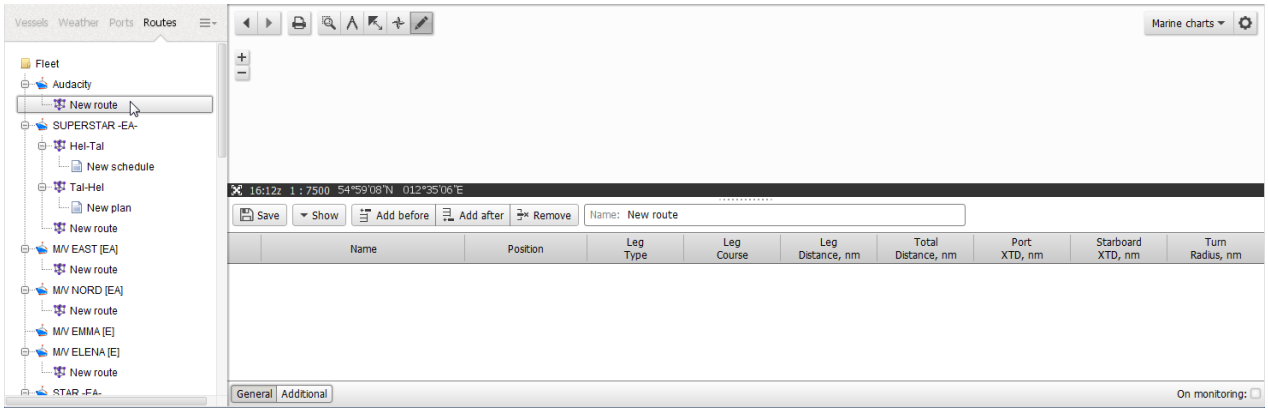

Figure 26. Adding new route

› Enter the new route name. The route name in the tree view will change synchronously.

You can draw a route directly in the chart area or enter waypoints coordinates in the table.

To draw a route in the chart area

› Select the **Edit route** icon and set waypoints in the chart area by left-click the mouse. The table will be filled synchronously.

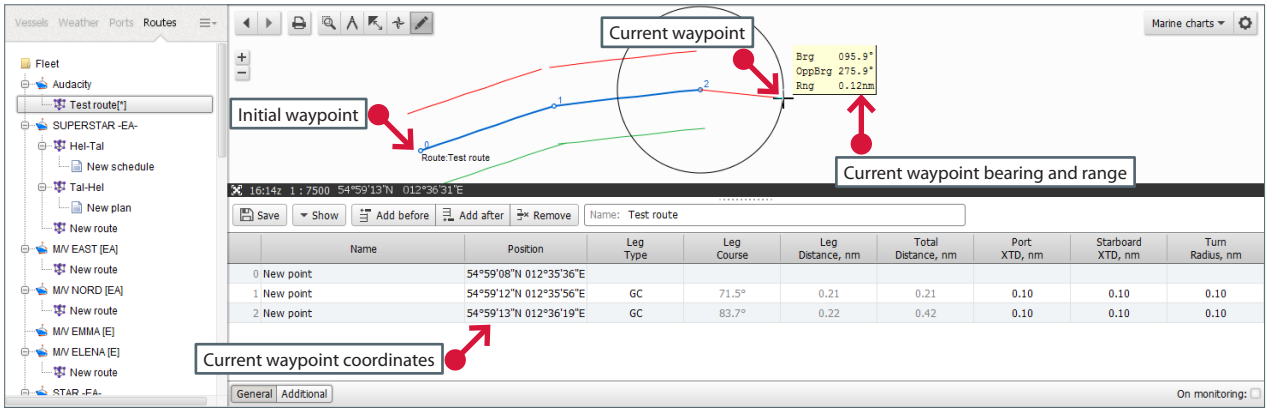

Figure 27. Drawing a new route

› Right-click the mouse to continue drawing. Now you can save or edit new route.

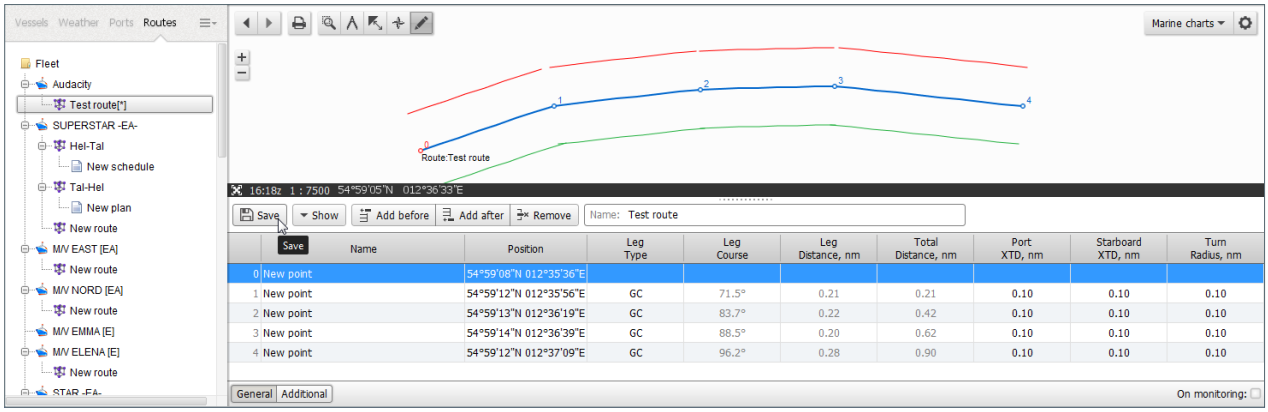

Figure 28. Saving a route

To edit a route on the map

› Select the **Edit route** icon

› To change waypoint coordinates click the waypoint and drag it. The table will be changed synchronously.

› To add new waypoint click the route line and drag it. The new waypoint appears. Left-click to place new waypoint.

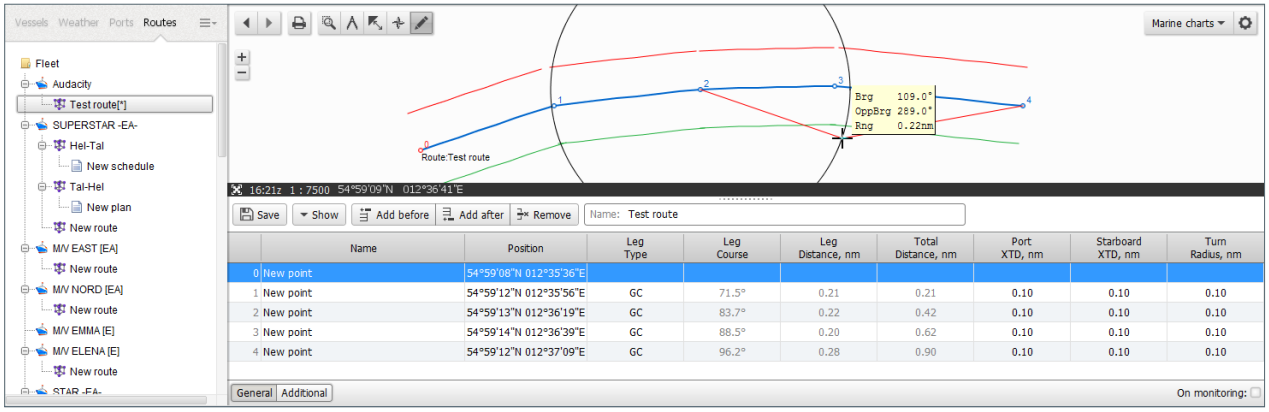

Figure 29. Editing a route in the chart area

To edit a route using table

When you select a row in the table an appropriate waypoint is colored in red.

› To change waypoint coordinates click the appropriate **Position** cell, click the icon and enter coordinates in the **Input coordinates** window:

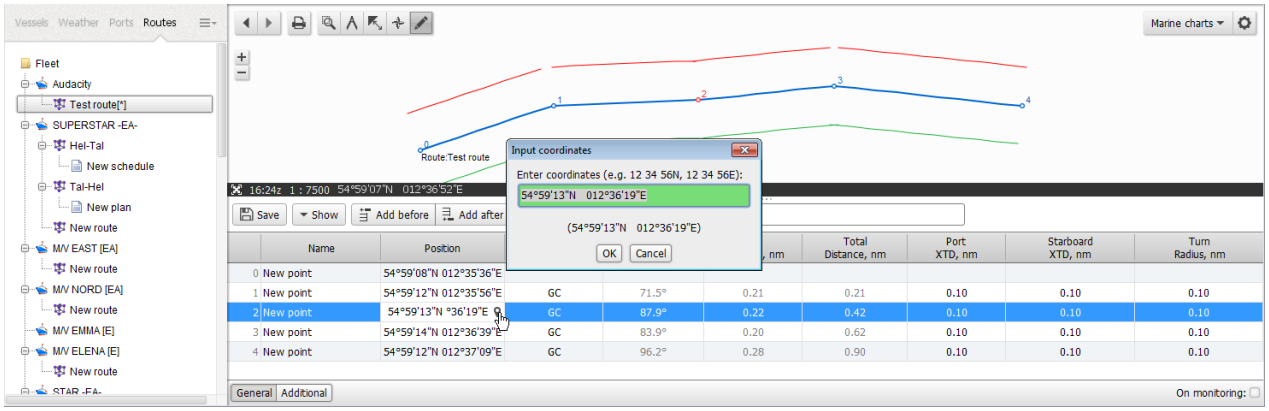

Figure 30. Editing a route using table

› To add a waypoint select a row and click the Add before or Add after button. The new row with coordinates 00°00'00"N and 000°00'00"E appears.

To delete a waypoint

› In the table, select the waypoint row and click the Remove button

To save a route

› Click the Save button.

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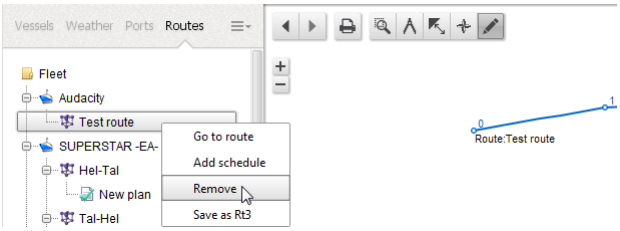
2.3.3.2 Removing Route

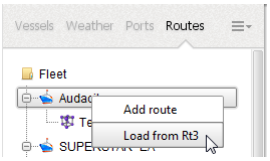
You can remove only a route which does not set on monitoring.

To remove a route right-click the route name and choose the **Remove** menu item:



2.3.3.3 Uploading Route from existing RT3 File

› Right-click the vessel name and choose the **Load from RT3** menu item:



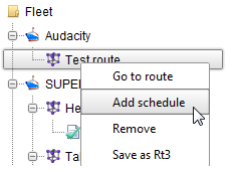
Select the `*.rt3` file in the window which will open up. The route will be uploaded.

2.3.3.4 Calculating and Monitoring Route

To monitor a route you should make its calculations. Several different versions of calculation can be done for a route.

To calculate a route

› Right-click the route name and choose the **Add schedule** item from the pop-up menu:



The **New schedule** item appears under the route name. The icon at the left of calculation name will be colored in red.

The table for schedule opens:

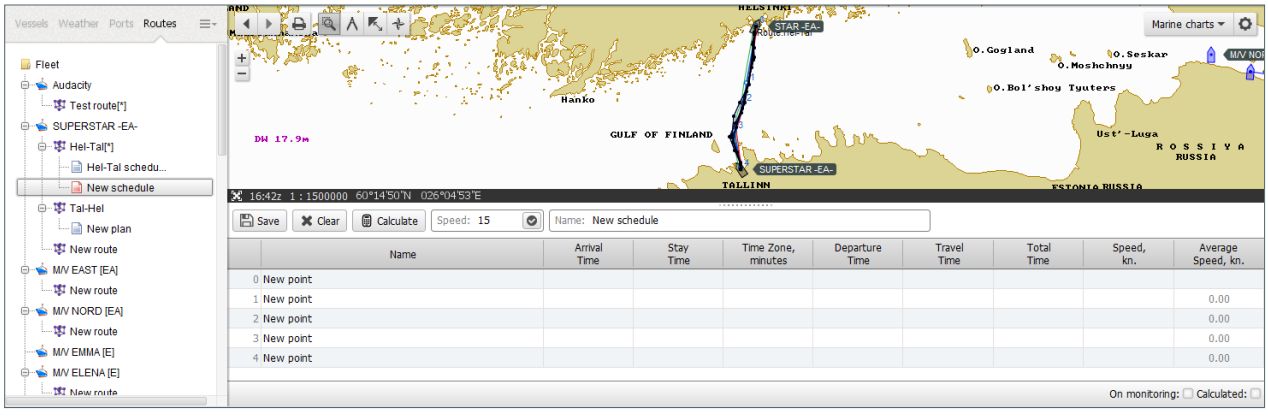


Figure 31. Calculation schedule - 1

› Use one of the following ways to make the route calculation.

The first way:

- For the start waypoint enter the **Departure Time**
- Set the average **Speed** (in knots) on route
- Moreover, you can enter **Arrival Time**, **Stay Time**, **Departure Time** and **Speed** for any other waypoints if it is necessary

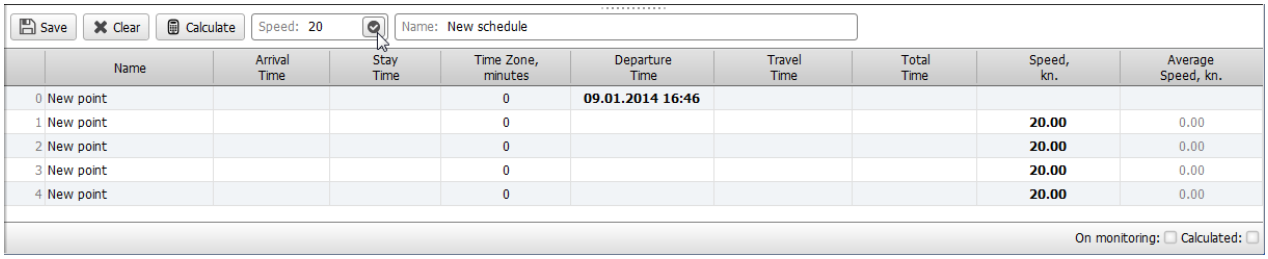


Figure 32. Calculation schedule -2

- Click the Calculate button.

The second way:

- For the start waypoint enter the **Departure Time**
- For the end way point enter the **Arrival time**

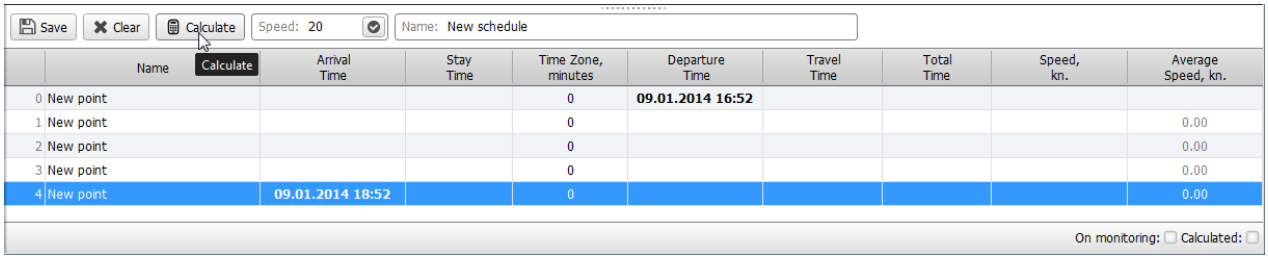


Figure 33. Calculation schedule -3

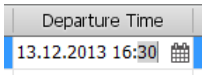
- Click the Calculate button.

How to enter Departure Time and Arrival Time in the table

Double-click the cell to be entered date and time. It activates.

Click the icon to select the departure or arrival date in the calendar.

The selected date and current time appears in the cell.



To change time double-click the time group and enter new value.

The route schedule will be calculated in the table where each waypoint is provided with the following information:

- Arrival Time
- Stay Time
- Departure Time
- Travel Time
- Total Time
- Average vessel speed in knots.

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The icon to the right of calculation name will change its color to blue:

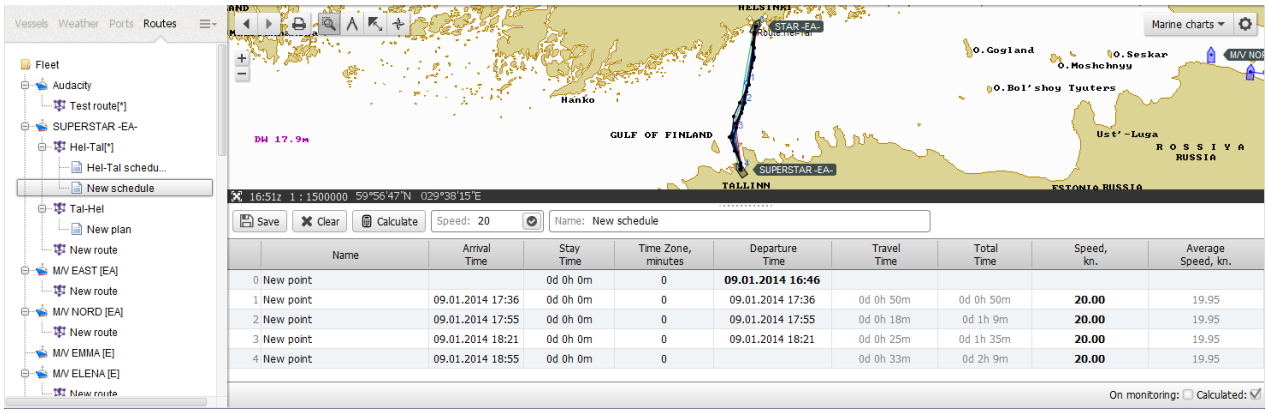
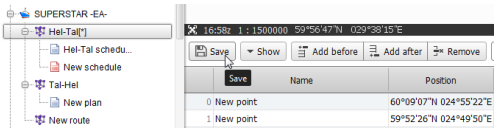


Figure 34. Calculation schedule -4

To save the route with new schedule

› Click the item with route name and then click the Save button:



After calculation, the route can be loaded for monitoring. Also, the **Route** item appears in the **Vessels** menu:

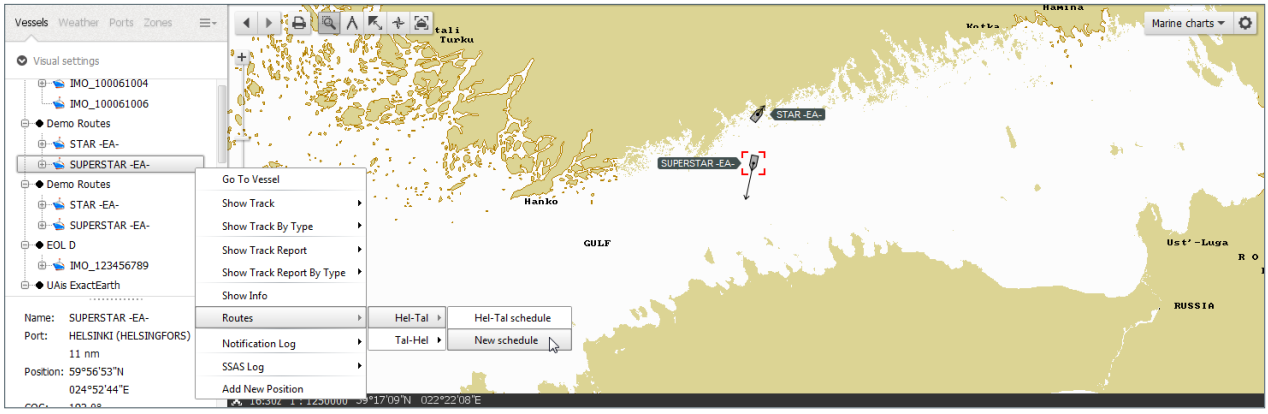
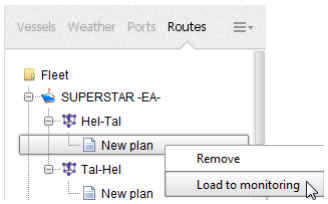


Figure 35. Route monitoring

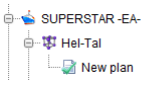
To enable a route monitoring

Route monitoring allows to control of deviation from the route axis and route schedule. If message delivery addresses are set for a vessel (see *"2.4.3.9 Route alarms" on page 58*) then alarm messages will be sent to these addresses.

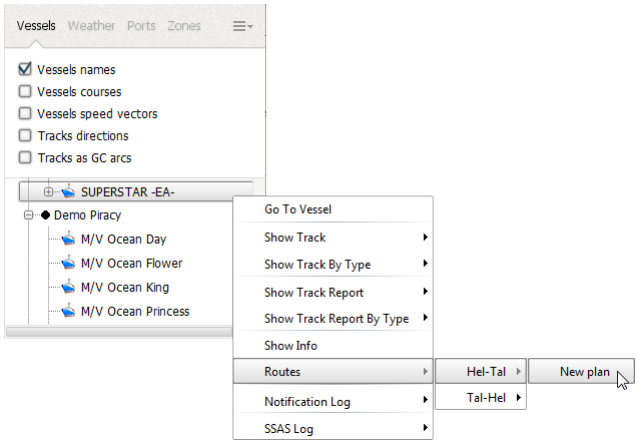
› In the **Route** menu, right-click the calculation name and choose the **Load to monitoring** item from the pop-up menu:



The monitored route will be marked with green tick:



› In the **Vessels** menu, right-click the vessel name and choose the **Route > [RouteName] > [ScheduleName]** item from the pop-up menu:

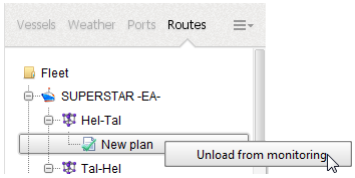


You can create several routes and update the calculations for all of them but only one route at the time can be set for monitoring.

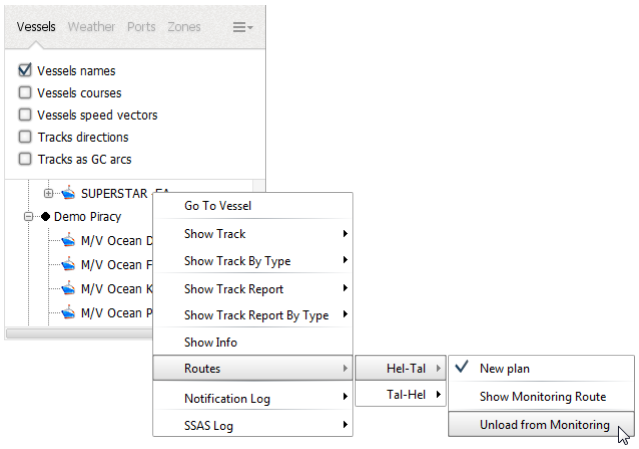
Note: To edit the monitored route you should disable its monitoring.

To disable a route monitoring

› In the **Route** menu, right-click a calculation name and choose the **Unload from Monitoring** item from the pop-up menu:



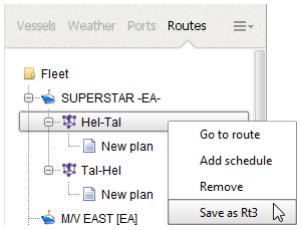
› In the **Vessels** menu, right-click the vessel name and choose the **Route > [RouteName] > Unload from Monitoring** item from the pop-up menu:



Monitoring will be stopped. The route and its calculation will be available to editing.

2.3.3.5 Saving Route in RT3 File Format

› Right-click a route name and choose the **Save as RT3** item from the pop-up menu. The route will be saved in the `.rt3` file format.



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2.3.4 Weather

Weather data is provided by Applied Weather Technology. The weather forecast is issued:

- For five days into the future
- Four times a day about 0.0 Z, 6.0 Z, 12.0 Z and 18.0 Z
- At nodes of the uniform grid with cell size of 2.5°x2.5° from 77.5°S to 77.5°N latitude.

Only last forecast issue can be displayed.

To adjust the **Weather** overlay choose the **Weather** tab:

Figure 36. Selecting Weather overlay

Weather overlay allows you to:

- Display/hide weather overlay on chart
- Select weather advance period for forecasting purposes
- Show weather animation
- Advance manually weather display according to time interval selected
- Control displaying of isobars, wind information, significant wave height, wind and swell waves, currents, tides and ice
- Display tropical storm data graphically or in tabular format.

2.3.4.1 Weather display settings

The default setting for viewing any weather features is off.

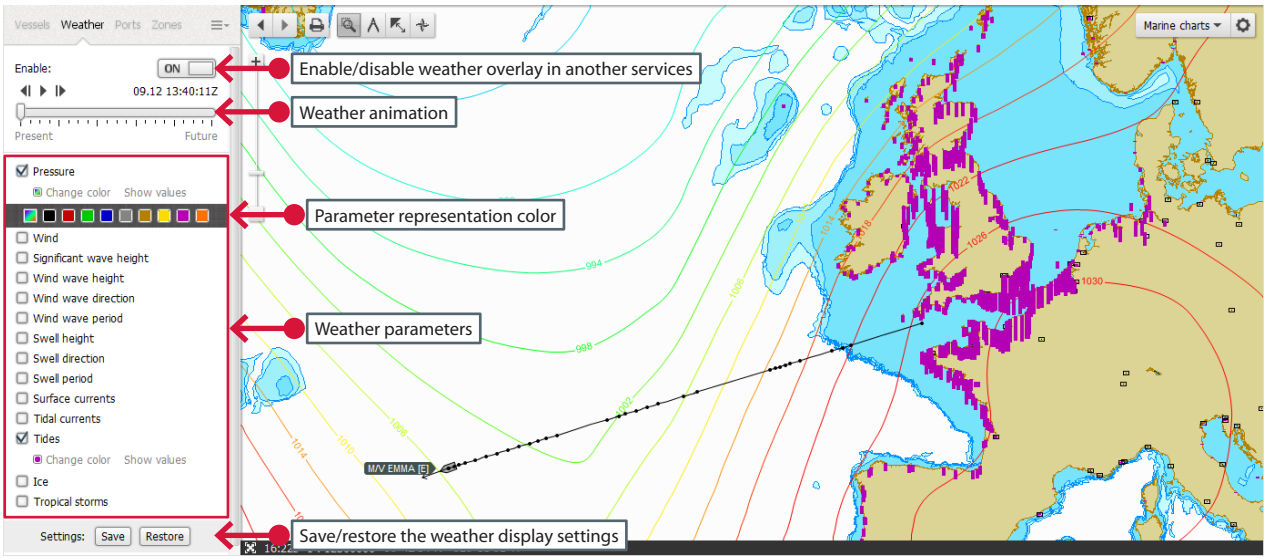

Figure 37. Chart display with weather overlay

Enable: ON – select **ON** to display the weather overlay in another services

17.12 10:00:00Z
Present
Future
– use ◀| and |▶ arrows to browse the weather forecast back or forward with a time step of 30 minutes

▶ or ■ – start or stop the display of weather forecast animation with a time step of 30 minutes

Save – save the weather display settings

Restore - restore the previous saved weather display settings.

› To display weather parameters select the appropriate checkboxes.

The following settings can be done for the displaying of the weather parameters:

- To specify the parameter representation color click the Change color link and select a color from available colors
- To display parameters in gradient color select . In this case, the colour for displaying of parameter value will be selected depending on its value from 280° to 0° on a Hue scale in the HLV colour model:

Minimum value — Maximum value

- Most of weather parameters are displayed by default in the form of isoline. To display the parameter value in the nodes of the uniform grid click the Show values link.

The following weather parameters can be display:

- **Pressure** - atmospheric pressure value in hectopascal (hPa.)
- **Wind** - wind direction displaying using weather symbols (see *"2.3.4.2 Weather symbols" on page 37*) or wind speed in meter per second (m/s)
- **Significant wave height** – significant wave height in meters
- **Wind wave height** – height of wind-generated waves in meters
- **Wind wave direction** – direction of wind-generated waves in degrees
- **Wind wave period** – period of wind-generated waves in seconds
- **Swell height** – swell height in meters
- **Swell direction** – swell direction in degrees
- **Swell period** – swell period in seconds
- **Surface currents** – surface current in knots. By default, the surface currents are shown as a vector. Information on the surface currents was created after the processing of the primary data of the American National Ocean Data Centre (NODC and NOAA). Representation of the surface currents are changed once a month for the year. This data can not be used for navigation.
- **Tides** - the calculated tidal height in meters. By default, the tide values are shown as a column chart. The calculation process is based on Simplified Harmonic Method of Tidal Predictions using of four Main harmonics from Admiralty Tide Tables. Results of the used method may have minor difference with published Admiralty Tide Tables or other prediction software, which use more harmonic constituents.
- **Tidal currents** - the calculated value of tidal currents in knots. By default, the tidal currents are shown as a vector. Tidal current values are calculated for every hour relatively the high water (HW) in the nearest position of tabulated tidal stream data with designation ◊ which are provided on paper nautical charts, in the official editions of atlases and tables. The tidal currents are calculated and displayed separate from surface currents.

Disclaimer! All surface current data, tide and tidal current predictions are not for navigation but for information only. Do not rely solely on these tidal predictions especially if life or property are at stake. You should not use these tidal predictions if anyone or anything could come to harm as a result of an incorrect tide prediction. The entire risk as to the using of aforementioned data is with you.

- **ICE** – the actual data on the boundaries of ice floes. These data are updated once a day.

Figure 38. Example of boundaries of ice floes

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- **Tropical storm** – tropical storms are displayed if they exist or are forecasted for the nearest five days.

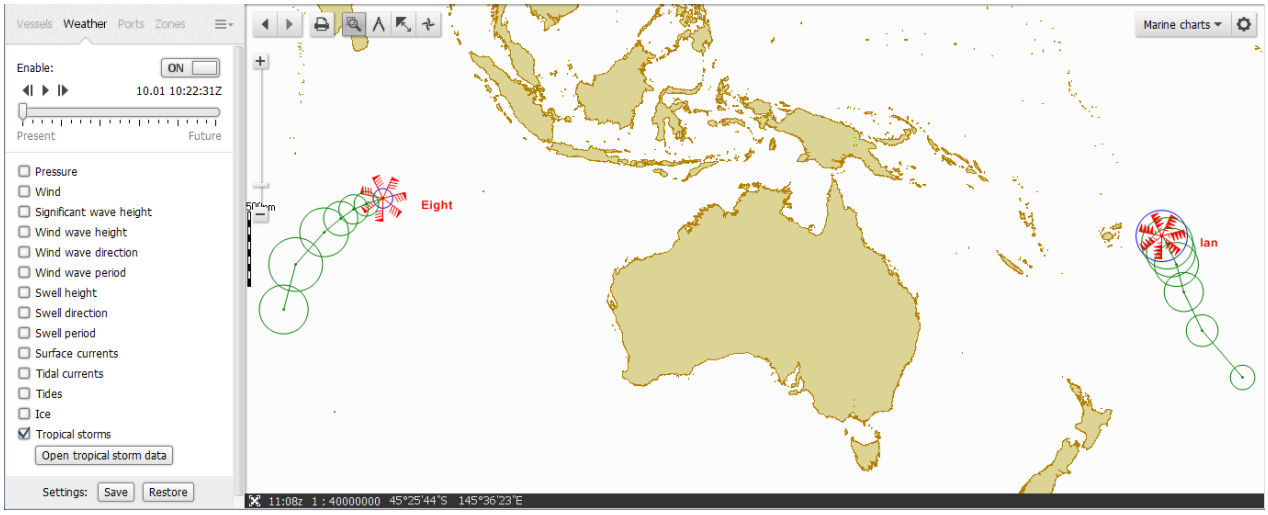


Figure 39. Example of tropical storm

- **Tropical Storm Data** button– tropical storms data in tabular format in separate window.

Tropical Storm Forecast 10/01/2014 06:00

Tropical Storm Name: **Eight**

ID hr	Time utc	Lat	Lon	Wind max.
000	10/01/2014 06:00	13° 00' 00.00" S	083° 48' 00.00" E	40
012	10/01/2014 18:00	13° 48' 00.00" S	081° 35' 59.99" E	50
024	11/01/2014 06:00	14° 30' 00.00" S	080° 00' 00.00" E	60
036	11/01/2014 18:00	15° 36' 00.00" S	078° 18' 00.00" E	70
060	12/01/2014 18:00	17° 18' 00.00" S	076° 12' 00.00" E	100
084	13/01/2014 18:00	21° 18' 00.00" S	072° 30' 00.00" E	110
108	14/01/2014 18:00	26° 36' 00.00" S	070° 54' 00.00" E	100

Tropical Storm Name: **Ian**

ID hr	Time utc	Lat	Lon	Wind max.
000	10/01/2014 06:00	17° 48' 00.00" S	175° 00' 00.00" W	105
012	10/01/2014 18:00	18° 42' 00.00" S	174° 18' 00.00" W	105
024	11/01/2014 06:00	19° 48' 00.00" S	173° 48' 00.00" W	100
036	11/01/2014 18:00	21° 18' 00.00" S	173° 06' 00.00" W	90
060	12/01/2014 18:00	24° 36' 00.00" S	172° 06' 00.00" W	80
084	13/01/2014 18:00	29° 00' 00.00" S	169° 48' 00.00" W	65
108	14/01/2014 18:00	34° 12' 00.00" S	164° 30' 00.00" W	50

Figure 40. Example of tropical storm data

2.3.4.2 Weather symbols

Wind speed symbols.

A combination of long/short barbs and pennants indicate the speed of the wind in station weather plots rounded to the nearest 5 knots. Calm wind is indicated by a circle.

One long barb is used to indicate each 10 knots with the short barb representing 5 knots. At 50 knots, the barbs changes to a pennant. For wind speeds higher than 50 knots, long and short barbs are used again in combination with the pennant(s).

The wind direction is indicated by the long shaft. The shaft will point to the direction FROM which the wind is blowing. The direction is based upon a 36th point compass.

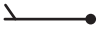
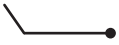
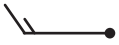
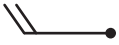
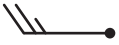
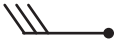
Observed wind speed	0 kts (Calm)	1-2 kts (1-3 mph)	3-7 kts (3-8 mph)	8-12 kts (9-14 mph)	13-17 kts (15-20 mph)	18-22 kts (21-25 mph)	23-27 kts (26-31 mph)	28-32 kts (32-37 mph)
Rounded to the nearest 5	0 kts	0 kts	5 kts	10 kts	15 kts	20 kts	25 kts	30 kts
Plotted as								
Observed wind speed	**33-37 kts (38-43 mph)**	**48-52 kts (55-60 mph)**	**53-57 kts (61-66 mph)**	**58-62 kts (67-71 mph)**	**63-67 kts (73-77 mph)**	**68-72 kts (78-83 mph)**	**98-102 kts (113-117 mph)**	**103-107 kts (119-123 mph)**
Rounded to the nearest 5	35 kts	50 kts	55 kts	60 kts	65 kts	70 kts	100 kts	105 kts
Plotted as								

Table 1. Wind speed symbols

2.3.5 Areas

The **Areas** overlay allows to name and save the frequently used ocean areas on the server for convenient fast retrieval on a future occasion.

To save the area

› Choose the **Areas** item from the drop-down menu

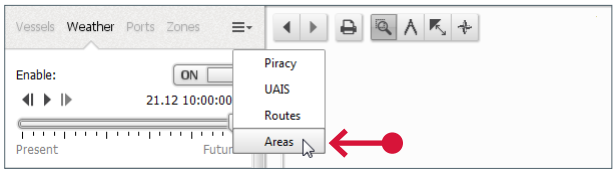
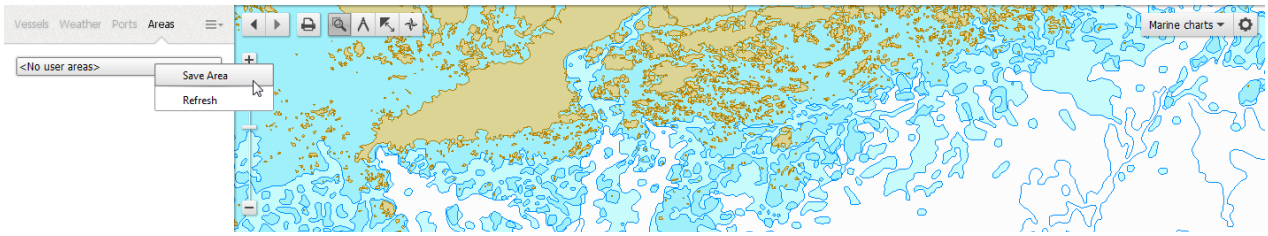


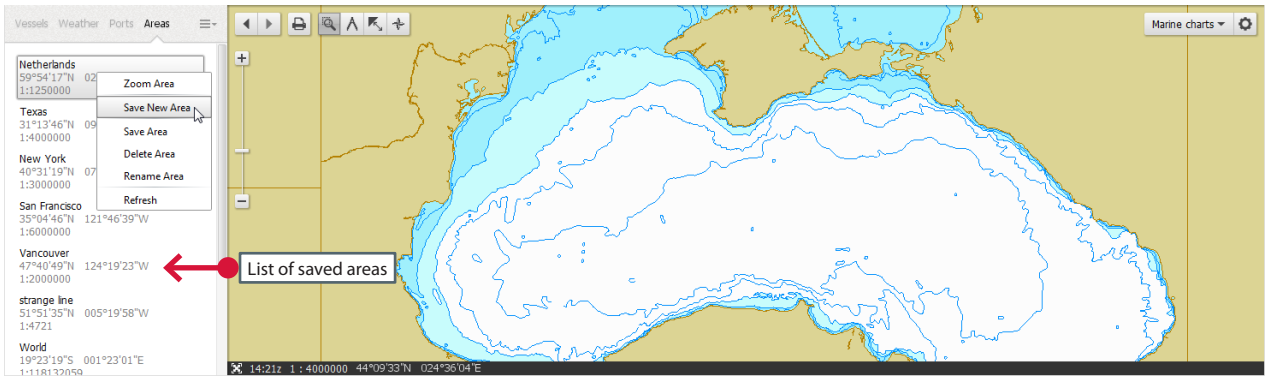
*Figure 41. Access to the **Areas** menu*

› Adjust the chart display for required area (scale and location)

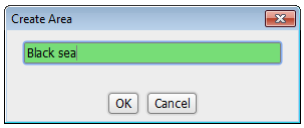
› If the **Areas** overlay is used for the first time, right-click the **<No user area>** and choose the **Save Area** item from the pop-up menu:



If you already have some saved areas then the list of areas is displayed. Right-click any area name and choose the **Save New Area** item from the pop-up menu:



The **Create Area** applet appears. Enter the area name and click **OK**.



The area will be saved. Its name appears in the list of areas.

› To save a new area with the existing name right-click the name of area and choose the **Save Area** item from the pop-up menu. The area will be saved.

To display the saved area

› Right-click the name of required area and choose the **Zoom Area** item from the pop-up menu.

The area will be displayed.

To delete the saved area

› Right-click the name of area to be deleted and choose the **Delete Area** item from the pop-up menu.

The area will be deleted from the list.

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To rename the saved area

› Right-click the name of area to be renamed and choose the **Rename Area** item from the pop-up menu.

The **Rename Area** applet appears. Enter the area name and click **OK.**

The area will be renamed.

To refresh the list of saved area

› Right-click any area name and choose the **Refresh** item from the pop-up menu to synchronize with the server data.

2.3.6 Zones

You can create any number of geographical objects named Zones. These zones make up a user chart which will be display over the nautical chart. User chart is visible only for user who created it.

NOTE: To create and view zones you should have permission 'User Zones Editor'.

There are three types of zones: point, line and polygon.

To set a zone choose the **Zones** item from drop-down menu.

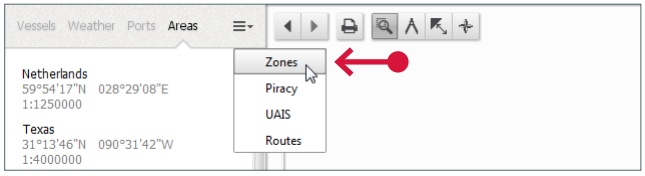


Figure 42. Zones

2.3.6.1 Creating Point Zone

› Right-click the **User Zones** item in the tree view at the left and choose the **Add New Zone** item from the pop-up menu. The **Add Zone** window appears (see *"Figure 43. Creating Point Zone" on page 39*)

› Choose the **Point** zone type from the **Geographical Type** drop-down list.

› Type the new zone name in the **Zone Name** text box.

› Click **OK**. The cursor assumes the form of

› Position the cursor in the new point zone location and left-click the mouse. The new point zone will be placed.

› Right-click the mouse to complete drawing.

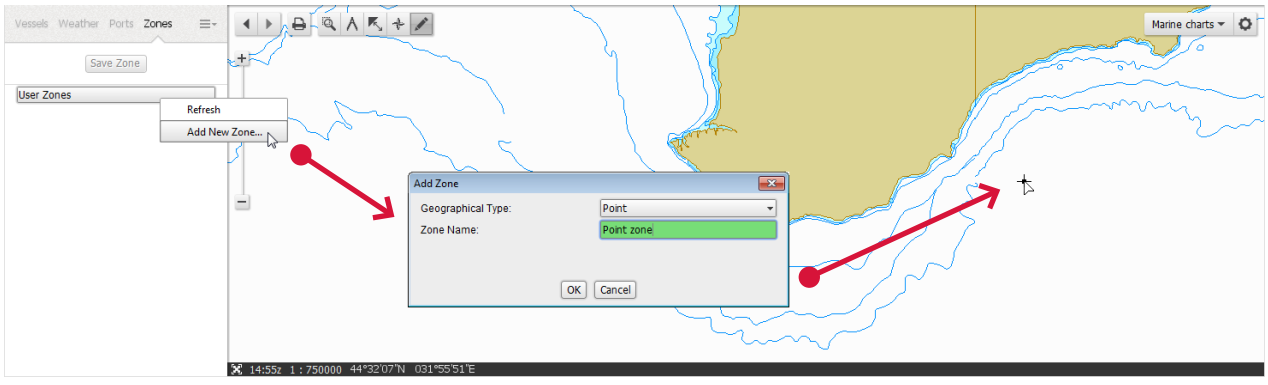


Figure 43. Creating Point Zone

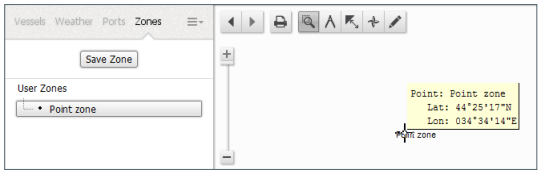
› The Save Zone button become active. Click this button to save a new zone.

2.3.6.2 Moving Point Zone

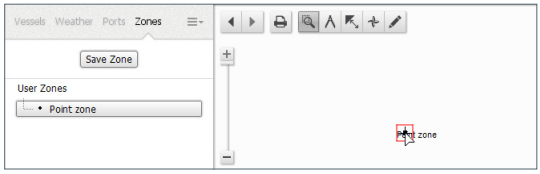
A point zone can be moved. To move a point zone:

› Select any zone's name in the tree view on the left. The cursor assumes the form of

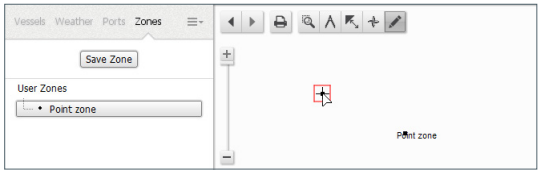
› Position the cursor on a point so that tool tip with zone name will indicate:



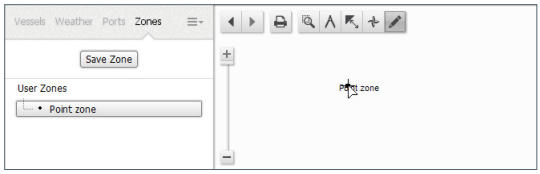
› Click the left mouse button. The red square will appear around the cursor:



› Move the cursor to the necessary point and click the left mouse button:



› The point zone will be moved:



2.3.6.3 Creating Line Zone

› Right-click the **User Zone** item in the tree view at the left and choose the **Add New Zone** item from the pop-up menu. The **Add Zone** window appears. (see *"Figure 44. Creating Line Zone" on page 40*)

› Choose the **Line** zone type from the **Geographical Type** drop-down list

› Type the new line zone name in the **Zone Name** text box

› Click **OK**. The cursor assumes the form of

› Position the cursor in the first point of the line zone location and left-click the mouse. The first point will be placed

› Apply the other point in the same way

› Right-click the mouse to complete drawing.

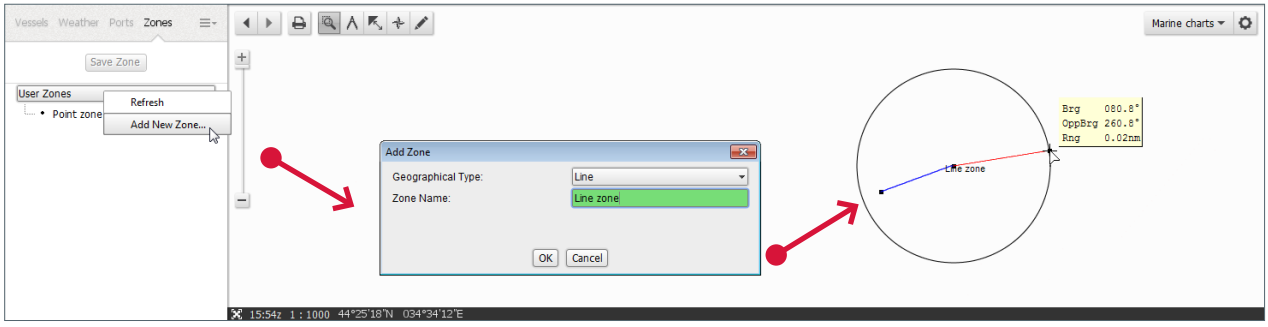


Figure 44. Creating Line Zone

› The Save Zone button becomes active. Click this button to save a new zone.

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2.3.6.4 Creating Polygon Zone

Note: A zone width does not exceed 180 degrees in longitude. A zone must have disjoint boundaries.

› Right-click the **User Zone** item in the tree view on the left and choose the **Add New Zone** item from the pop-up menu. The **Add Zone** window appears (see *"Figure 45. Creating Polygon zone - 1" on page 41*)

› Select the **Polygon** zone type from the **Geographical Type** drop-down list

› Type the new polygon zone name in the **Zone Name** text box

› Click **OK**. The cursor assumes the form of

› Position the cursor in the first point of the polygon zone location and left-click the mouse. The first point will be placed

› Apply the other point in the same way

› Right-click the mouse to complete drawing

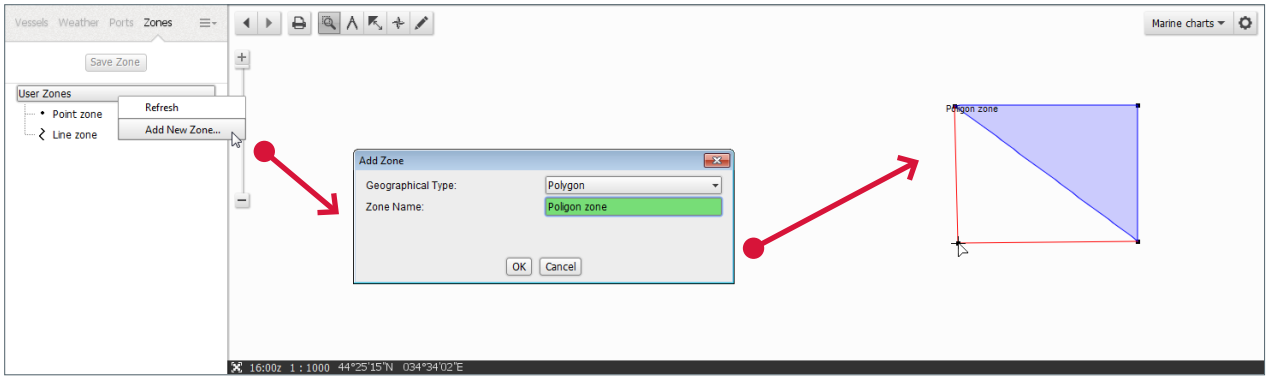


Figure 45. Creating Polygon zone - 1

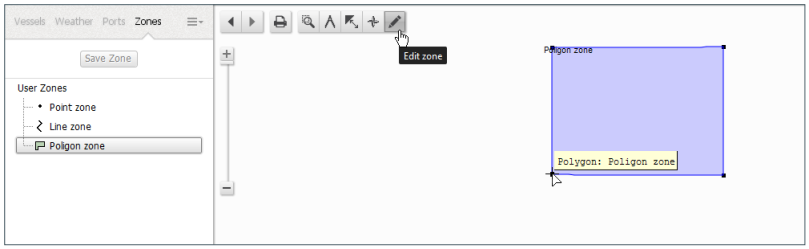
› The Save Zone button become active. Click this button to save a new zone.

2.3.6.5 Editing Line and Polygon Zones

Line and polygon zones are edited identically.

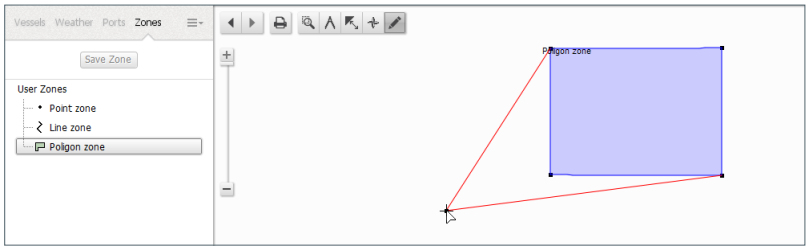
› Select line or polygon zone name in the tree view at the left. The color of the selected line or polygon zone will be changed.

› Select the icon and click the point to be edited:



› Move the cursor to the necessary point (use coordinate window to orientation) and left-click the mouse.

The point will be moved:



2.3.6.6 Creating Alarm and Receiving Notifications

You can assign to each zone a number of alarm objects to allow E-mail notification to be delivered to inform of entrance, exit, approach, move away and intersection of a zone. The following alarms are available for user zones:

Alarm	Point zone	Line zone	Polygon zone
Away	✓	✓	✓
Approach	✓	✓	✓
Intersection		✓	✓
Entrance			✓
Exit			✓

Table 2. Alarms types

Alarms will be generated

- For vessels, which the user can monitor
- For user zones, which are created by this user.

2.3.6.6.1 Creating Alarm Object

› Right-click the zone name in the tree view and choose the **Add New Alarm** item. The pop-up menu with alarms list opens:

› Select an alarm. The **New Alarm Object** window appears. In this window:

- **Name** - alarm object name
- **E-mail** - address for message delivery
- **Phone** - phone for message delivery
- **Text** - message text
- **Distance** - distance for **Away** and **Approach** alarms

› Type E-mail, phone, message text and distance in the text boxes.

› Click **OK**.

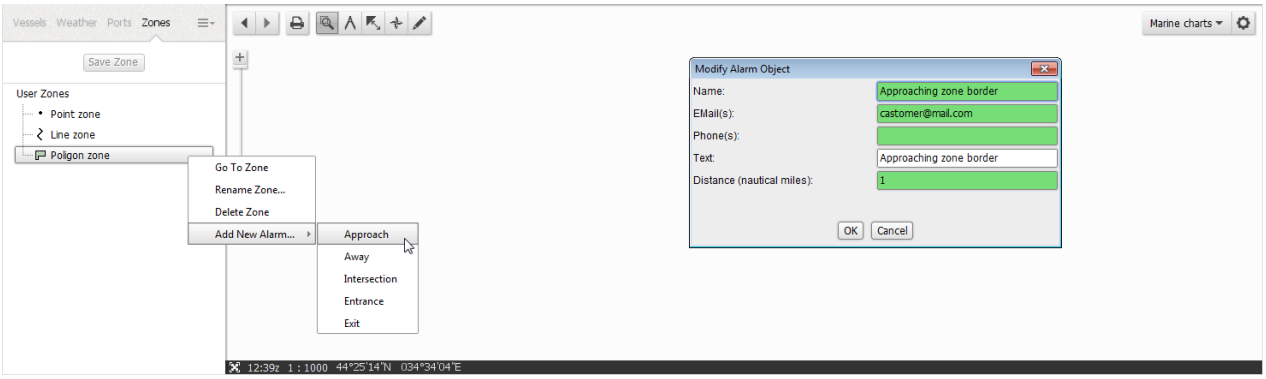


Figure 46. Creating Alarm objects

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2.3.6.6.2 Modifying Alarm Object

› Right-click an Alarm object name in the tree view and choose the **Modify Alarm** item from the pop-up menu. The **Modify Alarm Objects** window opens

› Make necessary modification and click **OK**.

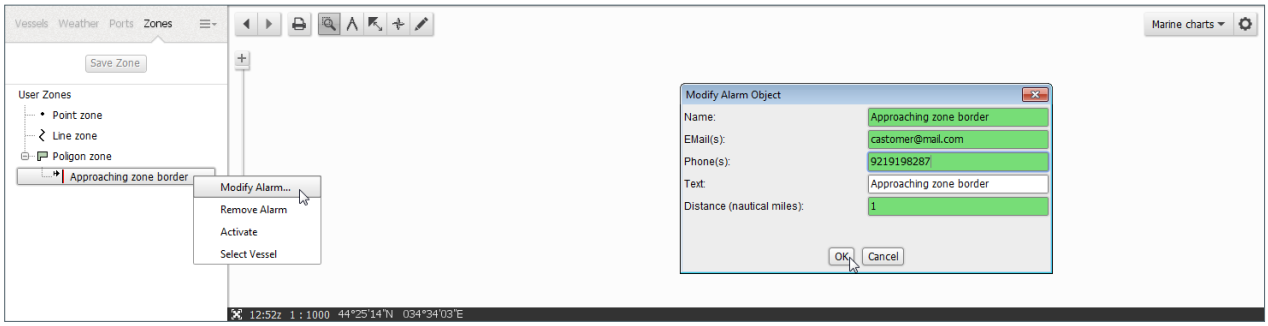


Figure 47. Modifying an Alarm object

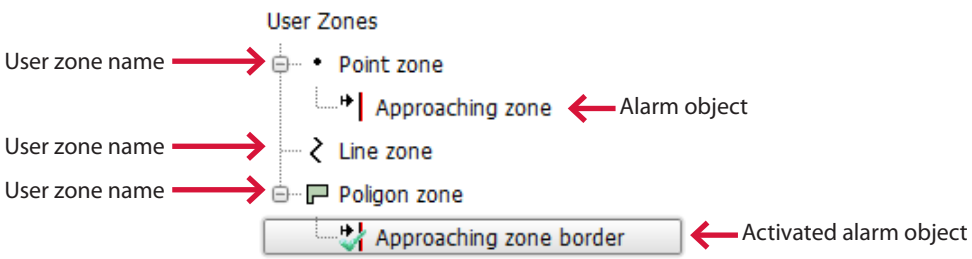
2.3.6.6.3 Activating Alarm Object

› Right-click an inactive Alarm object in the tree view and choose the **Activate** item from the pop-up menu:

Figure 48. Activating an Alarm object - 1

The name of Alarm object will be marked with green check mark. All the points forming a zone will be marked with following new markers: .

Figure 49. Activating an Alarm object - 2



When alarm object is activated the user can receive notifications in following forms:

Example 1:

Text:

```
Alarm Type: EntranceToZone
Zone Name: UK Entry
Vessel name: TEST VESSEL
Latitude: 050 49.32'N , Longitude: 001 2.8'W
DateTime: 01/06/2010 15:15:27
```

Example 2:

Text: `Hi!`

```
Alarm Type: IntersectionWithZone
Zone Name: ALRM Palermos [UAIS TEST]
Vessel name: TEST VESSEL
Latitude: 039 33.33'N , Longitude: 019 19.41'E
Date Time: 02/06/2010 19:12:18
```

2.3.6.6.4 Deactivating Alarm Object

› Right-click an active Alarm object in the tree view and choose the **Deactivate** item from the pop-up menu:

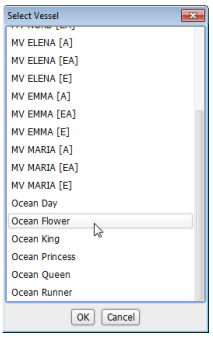
Figure 50. Deactivating an Alarm object

2.3.6.6.5 Alarm Object for Set of Vessels

You can assign to each Alarm object a number of vessels. In this case the alarm will be generated only for vessels from this list.

› Right-click the Alarm object in the tree view and choose the **Select Vessel** item from the pop-up menu:

› The **Select Vessel** window appears:



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› Select a vessel name and click **OK**. The selected vessel name appears under Alarm object name in tree view:

› To remove a vessel from list right-click the vessel name and choose the **Remove Vessel** item from the pop-up menu.

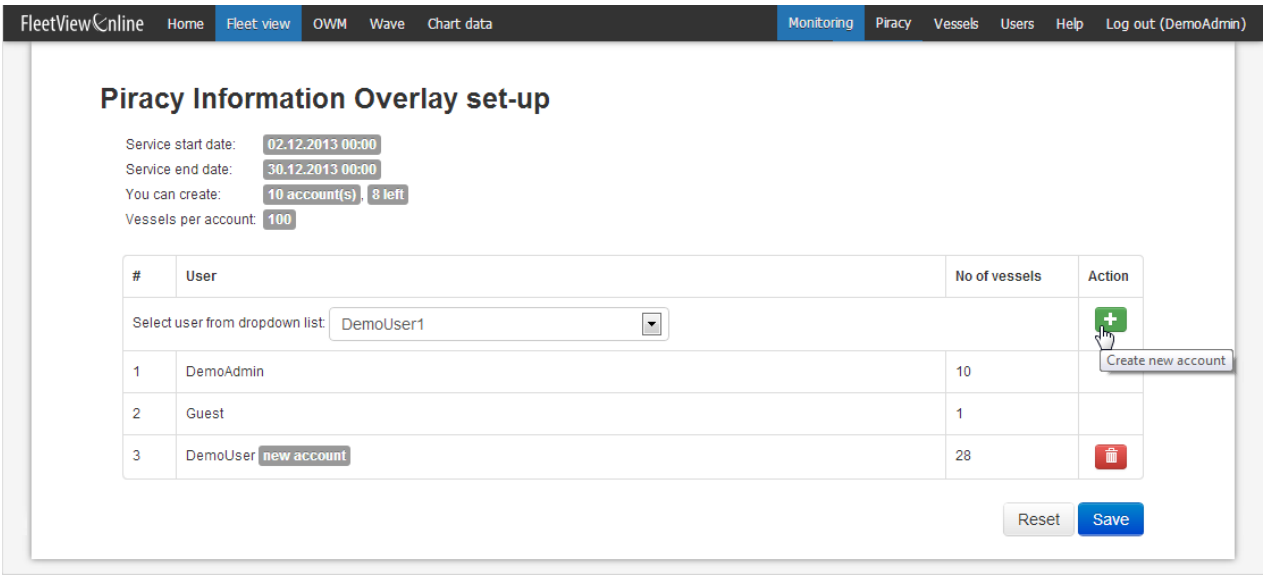
2.3.7 Piracy

2.3.7.1 Set-up Piracy Information Overlay

If you want to have information about piracy attacks please contact the FVO support team to create subscription.

After subscribing, do the following:

› Log on as Company Administrator and open the **Piracy** page to assign rights for receiving information about piracy attacks:



In our example, ten users can have access to piracy information in case of vessel count is not more than one hundred per user.

› Choose the user name from the drop-down list and click the + button. The new row will be added in the table.

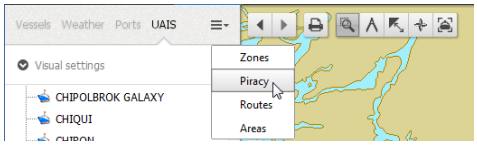
If you want delete a user click the 🗑 button.

› Click the Save button to save created accounts. The following warning appears:

› Confirm or cancel changes.

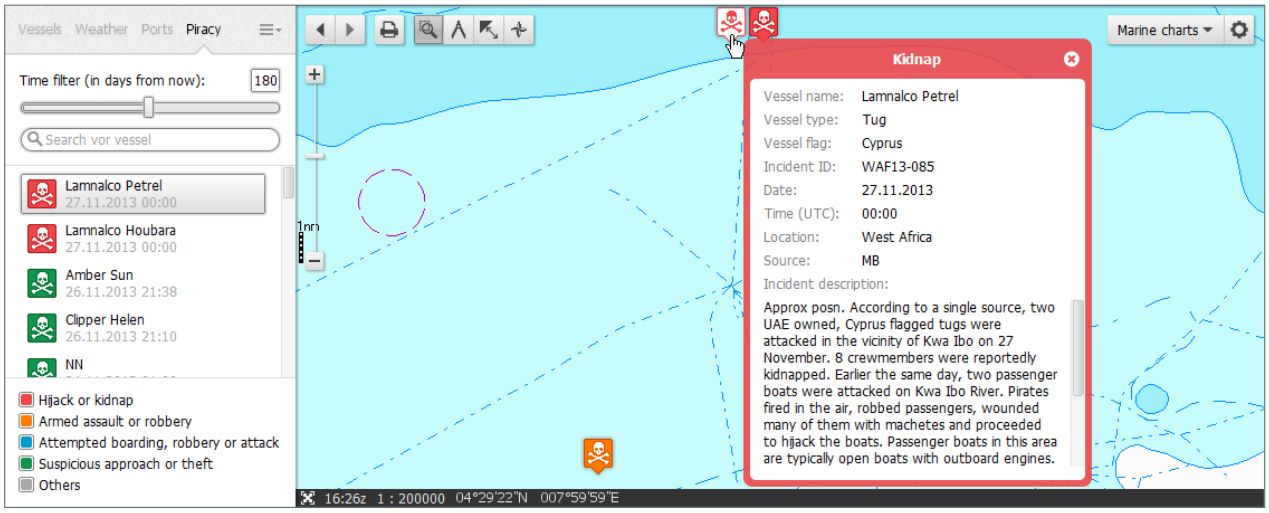
2.3.7.2 Displaying Piracy Information

› To display the **Piracy** layer select the **Piracy** item from drop-down menu.



Icons which are pointing places of incidents will be displayed on the map. Icons color depends on the result of the attack.

› Click the icon to see detailed information about incident.



NOTE: The Piracy information overlay will be not displayed if the number of vessels per current account is more than specified in the subscription.

2.3.8 UAIS Targets

2.3.8.1 AIS Data Sources

AIS data sources for FVO are AIS data distribution services.

For the AIS data to be displayed by the FVO, the following conditions should be fulfilled:

- An on-board AIS transponder is installed on your vessel
- The vessel is within a zone covered by the coastal AIS base stations
- Data from these stations is supplied to the AIS data distribution service which you are connected to.

The AIS data coverage zone will vary depending on the AIS data distribution service in use.

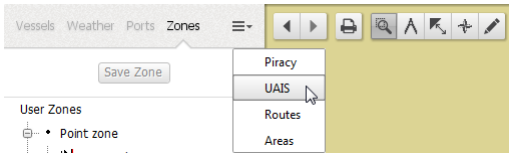
For the AIS data source the FVO currently uses the AISHUB service, the relationvessel with which is based on the mutual exchange of data. The coverage of AISHUB service is presented at **http://www.aishub.net/aiscoverage.html**

In the future, other commercial or private services can be connected at request of users.

2.3.8.2 Viewing UAIS Targets

NOTE: To view UAIS target the user should have permission 'View UAIS Data'.

To view UAIS target choose the **UAIS** item from drop-down menu:



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The UAIS overlay will be display:

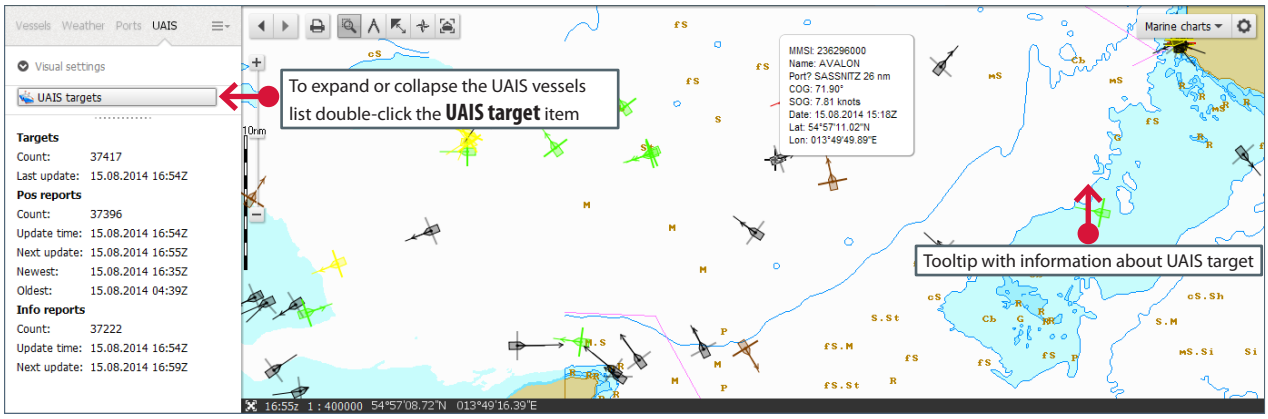


Figure 51. Viewing UAIS Targets

The AIS target is shown as follows: . If the AIS data has not been updated more than 20 minutes, the AIS target symbol will be strike through: . The vessel contour appears in scale 1:5000.

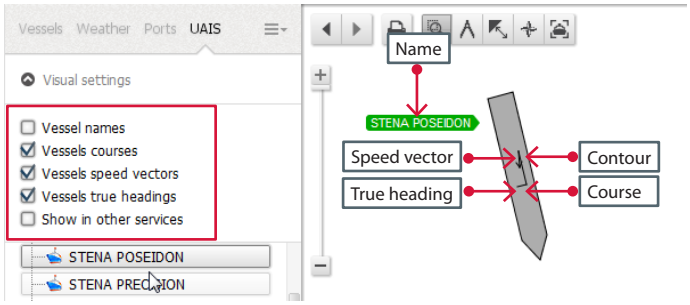


Figure 52. Viewing UAIS Targets name, course, speed vector and true heading

When the mouse pointer is hovered over the AIS target symbol the tool tip with short information about the ship appears.

To view vessel's name, course, speed vector and true heading of UAIS targets put necessary check marks at the left.

Put **Show in other services** check mark to allow displaying of UAIS targets on **Vessels**, **Weather**, **Ports**, **Piracy**, **Routes**, **Areas** and **Zones** services as additional layer.

2.3.8.3 Selecting UAIS Target on Chart

› Click the icon

› Left-click a vessel symbol. The symbol will be enclosed in red brackets. The vessel name in the tree view will be highlighted and the detailed information will be displayed in the window in the lower left corner.

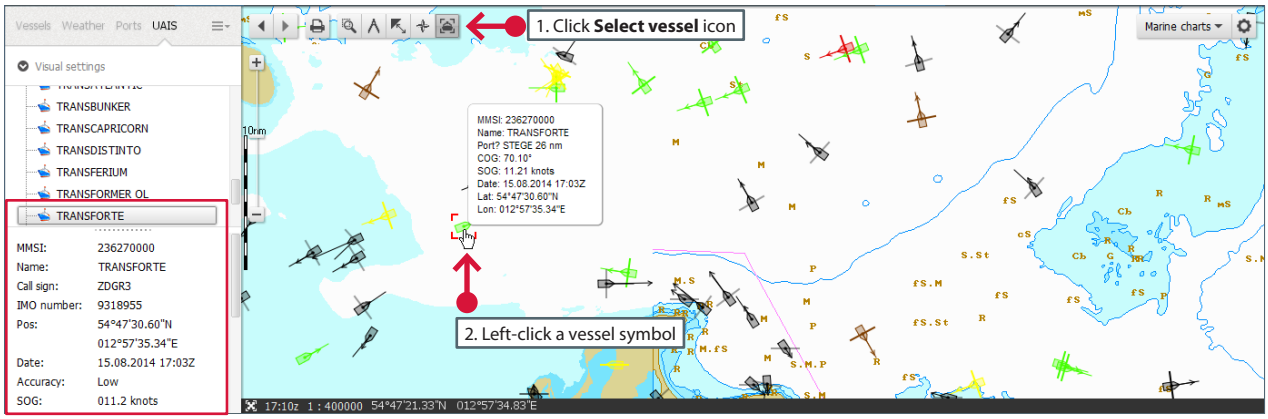


Figure 53. Selecting UAIS Target on Chart

2.3.8.4 Setting Vessel Symbol Color

The user can choose color for different combination of vessels types. To do this

› Right-click the **UAIS Targets** item in tree view and choose the **Colour Settings for Ship Type** item from pop-up menu. The **Ship type color** window opens:

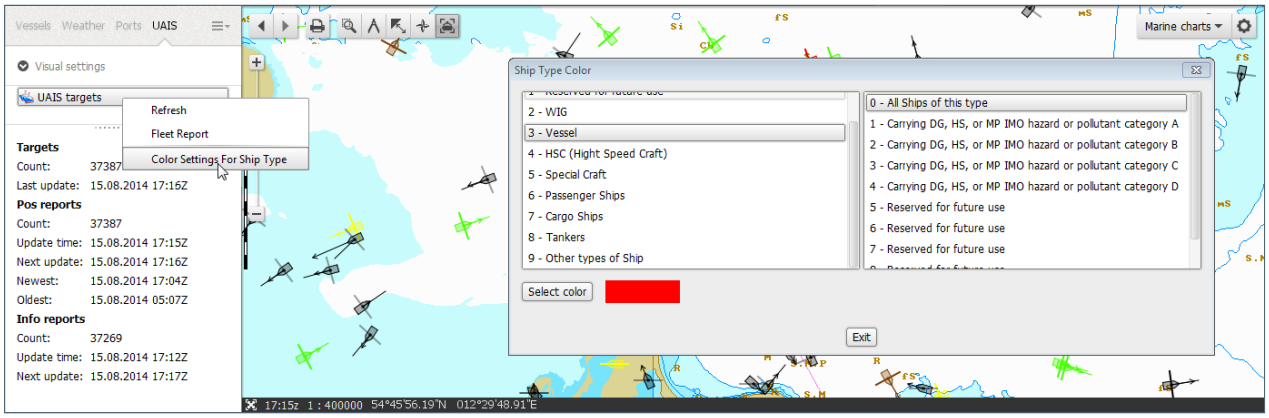
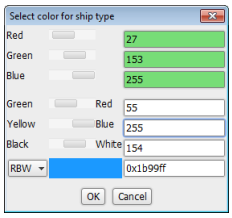


Figure 54. Setting Vessel Symbol Color - 1

› Select one or several vessel types and click the **Select color** button. The **Select color for ship type** window opens:



› Adjust color and click **OK** and than click **Exit**. Symbols of selected vessel types will be colored in the selected color.

2.3.8.5 Viewing UAIS Targets Fleet Report

› Right-click the **UAIS Targets** item in tree view and choose the **Fleet Report** item from the pop-up menu:

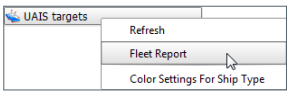


Figure 55. Viewing UAIS Targets Fleet Report - 1

› Fleet Report will be shown in a separate window.

Fleet Report

The last information by 09/12/2013 15:21:47
Total: 62763

Name	MMSI	Date	Latitude	Longitude	Sog	Cog	True Heading	Accuracy	Destination	TimeArrival
A 850 SOEMBA	244650033	09.12.2013 14:55 Z	51° 43' 52.91" N	003° 54' 34.29" E	000.0 kn.	000°		LOW	3#(12%.5)*	
A AND A	319501000	09.12.2013 15:08 Z	43° 31' 27.28" N	006° 56' 49.83" E	000.0 kn.	000°	307°	LOW	LA NAPOULE	29.09
A DUCKLING	352279000	09.12.2013 15:05 Z	37° 39' 00.24" N	121° 32' 32.40" E	000.3 kn.	323°	276°	LOW	YANTAI	18.07
A H PORTOFINO	255750000	09.12.2013 12:57 Z	22° 39' 40.78" S	040° 11' 07.49" W	001.6 kn.	045°	062°	HIGH	MACAE	01.11
A LADYBUG	353069000								4 ORDER PLS 1NM CPA	05.07
A MAX	538004343								MUARA SATUI	06.12
A ROSA BRAVA	211519930	09.12.2013 05:22 Z	48° 40' 08.17" N	007° 53' 49.50" E	006.9 kn.	209°		LOW	KEHL	09.12
A ROSA VIVA	211488620	09.12.2013 15:06 Z	50° 55' 41.90" N	006° 58' 24.38" E	000.1 kn.	204°		LOW	GERMERSHEIM	12.12
A RUDY	563019730	09.12.2013 12:47 Z	01° 15' 02.96" N	103° 41' 19.51" E	004.0 kn.	179°		LOW		
A S T R A	304010285	09.12.2013 15:08 Z	50° 49' 18.96" N	000° 14' 50.22" W	005.9 kn.	182°	180°	LOW	HAMBURG	11.12
A V A L O N	273422740	09.12.2013 15:01 Z	44° 40' 09.84" N	034° 25' 40.38" E	000.3 kn.	315°	232°	LOW	HEREKE	10.12
A. H. PARAGGI	701101000	09.12.2013 13:31 Z	34° 34' 19.80" S	058° 22' 42.42" W	000.1 kn.	254°		HIGH	BUENOSAIRES	18.10
A.D.STARKE	211512410	09.12.2013 15:07 Z	51° 02' 36.94" N	013° 49' 04.90" E	003.3 kn.	154°		LOW	DRESDEN	05.12
A.H. PORTO SANTO	247646000	09.12.2013 13:11 Z	24° 16' 04.58" S	042° 45' 41.69" W	006.0 kn.	338°	346°	HIGH	BACIA DI SANTOS	06.12
A.H.LIGURIA	247237300	09.12.2013 08:37 Z	22° 50' 56.31" S	043° 08' 08.23" W	000.0 kn.	320°	213°	HIGH	RIO DE JANEIRO	05.12

Figure 56. Viewing UAIS Targets Fleet Report - 2

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2.3.8.6 Search Vessel Photos

› Right-click a vessel name and choose the **Search Photos** item from the pop-up menu. The search result will be shown in a separate window.

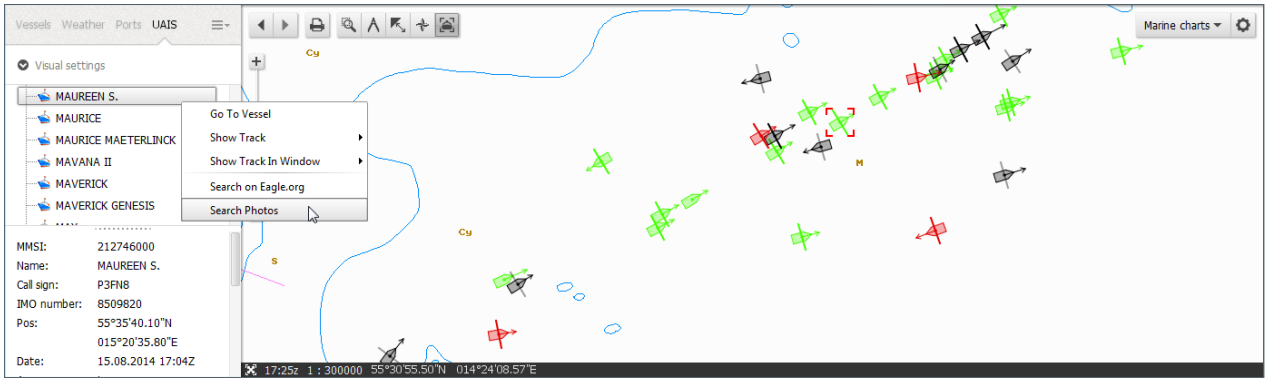

Figure 57. Search Vessel Photos

2.3.8.7 Search Vessel Data on eagle.org

› Right-click a vessel name and choose the **Search on Eagle.org** item from the pop-up menu. The search result will be shown in a separate window.

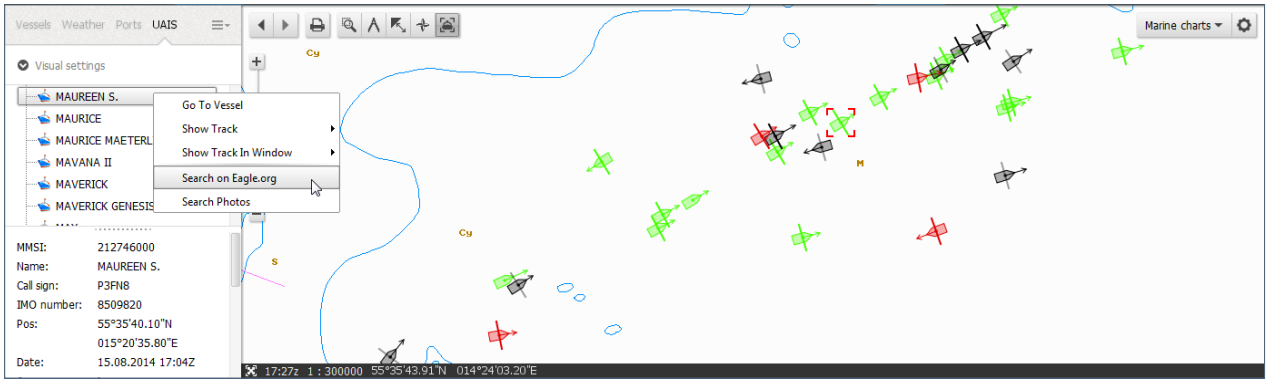

Figure 58. Search Vessel Data on eagle.org

2.3.8.8 AIS data clustering

AIS data are required to display a large number of vessel symbols. If the symbols are too close to each other for the current zoom level (current scale) then they are clustered into black rings with numbers in the middle.

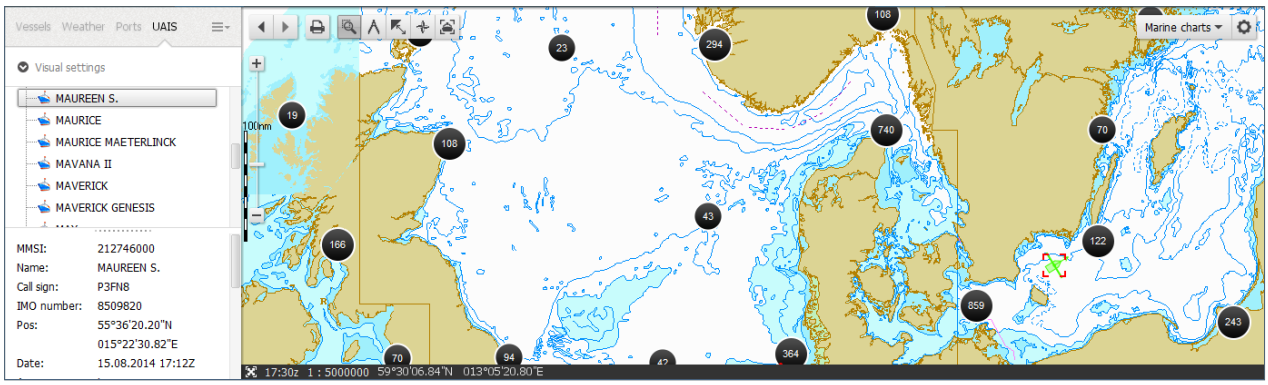

Figure 59. AIS data clustering

2.3.8.9 Precise Tracks of Vessels Using AIS Data

While the vessel is inside AIS coverage provided by AIS data distribution service, FVO adds UAIS position reports to satellite vessel track. Having much more frequent position data from on board AIS, FVO adds them to satellite vessel track to fill in long gaps between positions generated by satellite SSAS-Tracking terminal. This operation is automatic and starts every time AIS data from your vessel become available does not matter where your vessel is. Using AIS data you have nearly real time precise tracking. That is especially important in case you use alarm generation zones or lines (see *"Line and polygon zones are edited identically." on page 41*).

To show a vessel track:

› Right-click a vessel name and choose the **Show Track** item and then select required period of time from the pop-up menu. The track will be shown as a line with point of position reports.

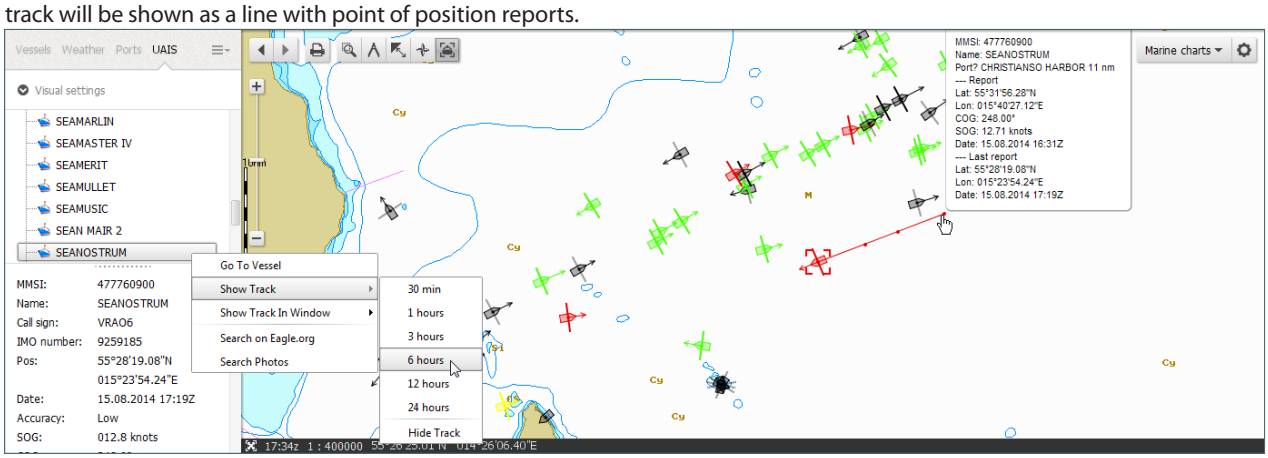

Figure 60. Precise Tracks of Vessels Using AIS Data

› Each position report coordinates are marked with a point. When the mouse pointer is hovered over this point the tooltip with position report data appears.

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2.4 Users and Vessel Groups

2.4.1 Setting up Users

By default, when a new account is created a Company Administrator password is generated and given to the user. Depending upon how the Company wishes to structure its use of FVO different types of users can be created and their authorities controlled.

It is strongly recommended that the Company Administrator login and password are only known to the person with responsibility for managing FVO, and that all other users are set up by this person who can then issue user login and passwords.

2.4.1.1 Creating a User

There are two principal types of user that the Company Administrator can create:

- Power user
- User

Within those categories different authorities can selected to "fine tune" individual user rights.

› Log on as Company Administrator and open the **User** service. The **User Management** page appears.

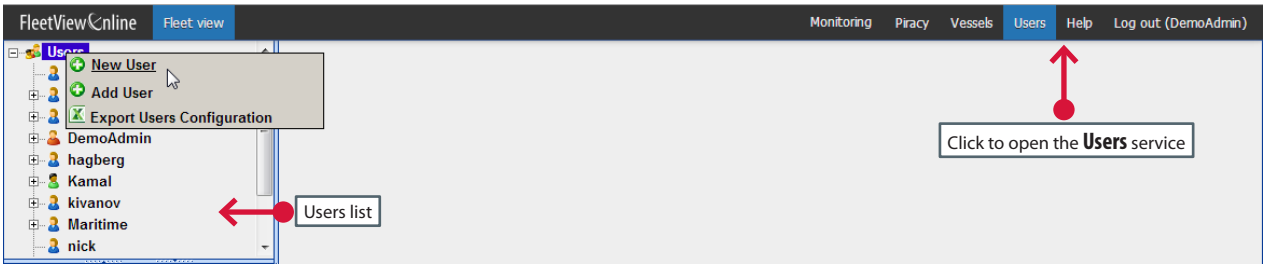


Figure 61. Creating new user

A list of users can be seen by expanding the tree view. Colour codes define user type:

- - Company Administrator
- - Power user
- - User

› Right-click the **Users** sub tree and choose the **New User** item from the pop-up menu to create a new user (see *"Figure 61. Creating new user" on page 51*). The right-hand side of the screen will display the User settings:

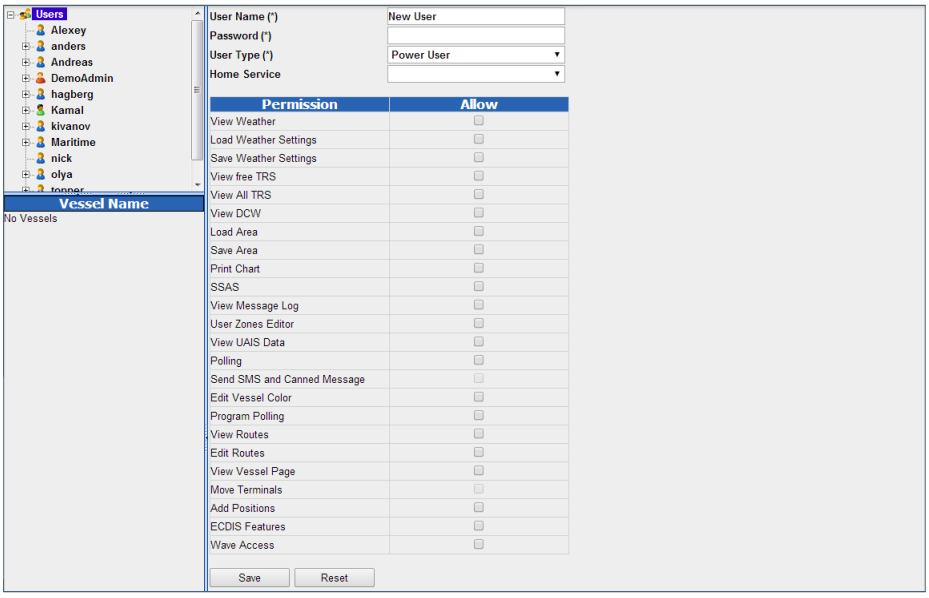


Figure 62. Setting up a new user (Slave user screen shown inset)

› Choose the user type from the drop-down list before creating login and password

› Enter user name and password

› Select the set of user permissions - failure to do so will result in a blank screen after log on.

The following table explains the function of each checkbox when setting up user authorities:

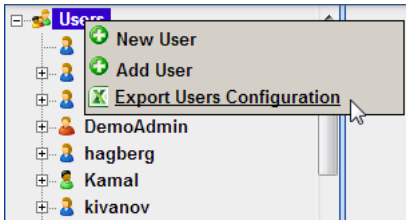
Permission	Functionality
View Weather	to see weather options
Load Weather Settings	to permit loading previous weather settings
Save Weather Sttings	to enable saving current setting to server for future reference
View free TRS	to see low grade outline marine charts
View all TRS	to see full detail marine charts (Note: these charts are not for navigation and are updated quarterly)
View DCW	to view land maps
Load Area	to allow user to load previously saved area
Save Area	to allow user to save current chart window to server – not recommended for slave users
Print Chart	to print current chart area
SSAS	to allow access to SSAS command (for example, RESET)
View Message Log	to enable display of message log (SSAS log)
User Zones Editor	to create and management User zones
View UAIS Data	to view UAIS data
Polling	to send polling command
Send SMS and Canned Message	to send SMS and Canned messages
Edit Vessel Colours	to change a vessel track colours
Program Polling	to program of terminal
View Routes	to see vessel routes
Edit Routes	to create or edit vessel's route
View Vessel Page	to access to Vessel Admin Page
Move Terminals	to move terminals from one vessel to another
Add Position	to add a vessel position
ECDIS Features	to get access to ECDIS functionality
Wave Access	to get access to Wave functionality

Table 3. User checkbox function meanings

› Click the Save button. The new user name appears in the tree view.

2.4.1.2 Exporting User Configuration

You can export all information about user settings in Excel file format (`UsersConfigurationReport.xls`)



2.4.1.3 Allocating Vessels To Users

After creating a user and setting their rights and authorities a vessel group will need to be allocated to that particular user. Failure to do so will result in an empty vessel list after log-on.

A plus button next to the users name indicates vessel group allocation.

Creating vessel groups is dealt with in the *"2.4.2 .Setting up Vessel Groups" on page 54*, this explanation assumes that a vessel group has been created in accordance with that section.

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A vessel group can consist of one or more vessels.

› Left-click to highlight user name and then right-click to open the pop-up menu.

› Click the **Add Vessel Group** menu item.

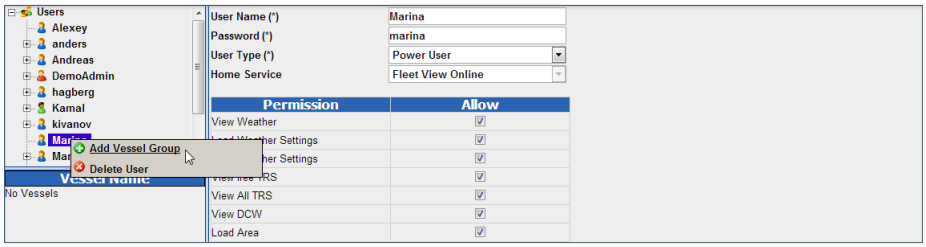


Figure 63. Adding a vessel group to user

The **Add Vessel Group** applet appears:

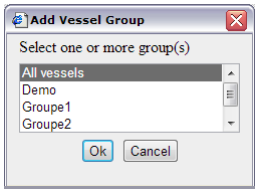


Figure 64. Selecting a vessel group

› Select a vessel group and click **OK**. A minus button appears next to the user name and the vessel group name will be placed under the user name. In the **Vessel Name** section the list of vessels of selected vessel group will be displayed:

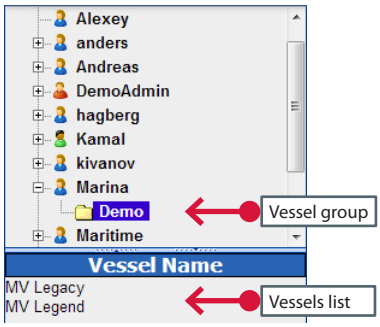


Figure 65. Users vessel groups

It is possible to allocate more than one vessel group to a single user.

Thereafter monitoring of vessel becomes available for user. In zones which have been created by that user, alarms will be generated for these vessels.

2.4.2 .Setting up Vessel Groups

From the list of registered vessels and terminals the Company Administrator can do the following:

- Create vessel groups and allocate individual vessels to these groups
- Link en existing terminal to the vessel.

2.4.2.1 Creating Vessel Group

› Log on as Company Administrator and open the **Vessel** service. The **Terminal and Vessel Management** page appears:

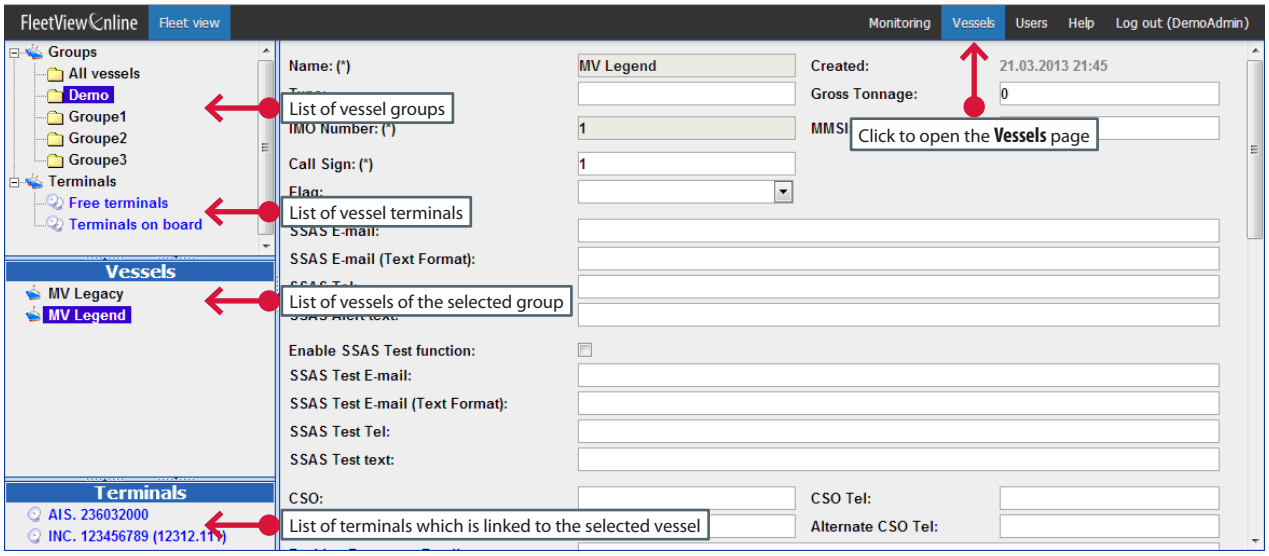
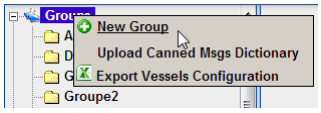


Figure 66. Vessel page

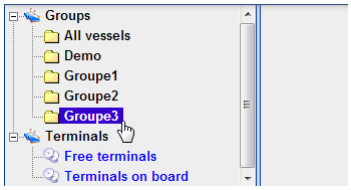
› Right-click the **Groups** item and choose the **New Group** item from the pop-up menu:



› The **New Group** applet appears:

Figure 67. Naming a vessel group

› Type in the group name and click **OK**. The new group name appears in the tree view:



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2.4.2.2 Adding a Vessel to a Group

› Right-click the vessel group name and choose the **Add Existing Vessel** item from the pop-up menu. The **Add Existing Vessel** applet appears:

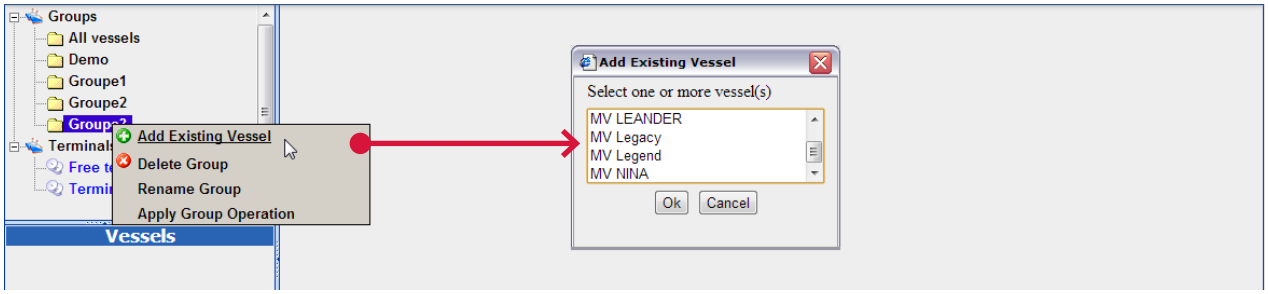

Figure 68. Allocating a vessel into a group - 1

› Select one or several vessel names and click **OK**. Selected vessel will be added to the vessel group and will be displayed in the **Vessel** section.

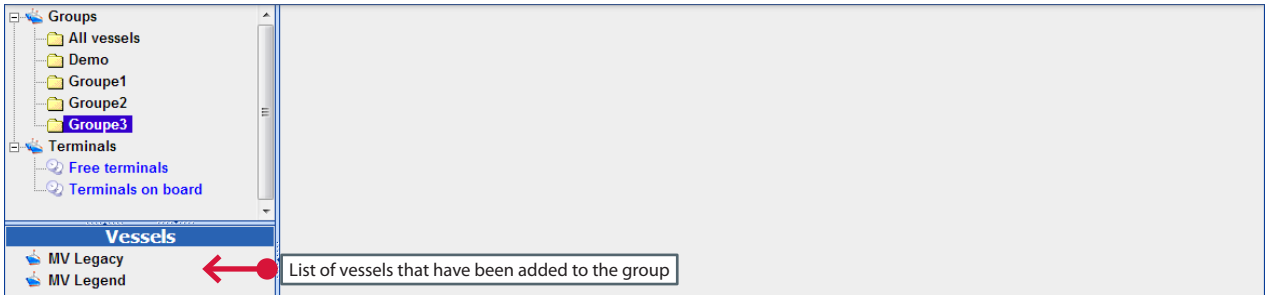

Figure 69. Allocating a vessel into a group -2

2.4.3 Setting up Vessel Page for Delivery of SSAS Messages

If your vessel is equipped with Transas ship security alert system Ship Guard then it is essential that alert delivery information is correctly entered into FVO to ensure proper delivery of alert messages to the correct recipient.

The TRANSAS 'SHIPGUARD' terminal will be supplied properly programmed and requires no user intervention, even if a ship changes name, port of registry or even owner all these changes can be managed from ashore via the FVO interface.

2.4.3.1 Mini – C/Sat C

FVO is fully compatible with the majority of mini C/Sat C systems on the market, but there are some significant and key points to note in operation:

- Local programming of terminal is required to deliver alert messages to FVO server for proper onward delivery/processing. See terminal manual for programming instructions
- Delivery address for SSAS messages is **trackdata@fleetviewonline.com**
- Other delivery address can be entered in to terminal to operators choice
- Alert messages are delivered via messaging channel and are not free – the LES will levy normal commercial traffic fees to whomever the terminal is registered.

2.4.3.2 Entering Delivery Data

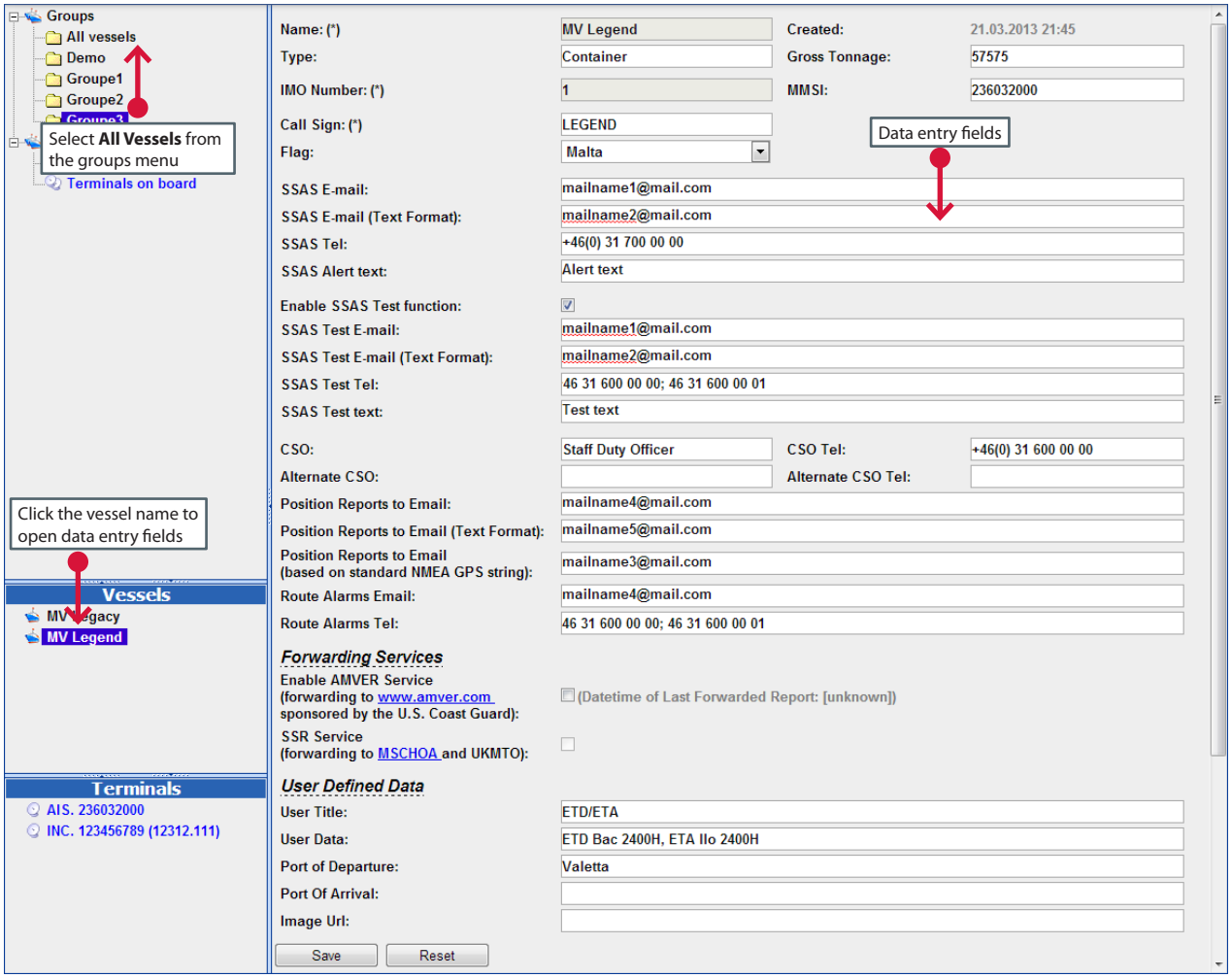

Figure 70. Entering data for SSAS message delivery

› Log in and select **Vessels** tab, then select **All Vessels** from the **Groups** menu.

› Highlight the required vessel from the **Vessel** menu to open data entry fields.

The screen divider bar can be adjusted to expand view of data entry fields.

2.4.3.3 Data Entry Rules

- No spaces are permitted in data fields after separator
- Use semi-colon ";" as data separator
- Drop 00 for country code of GSM phones
- Delivery of alert repeater message to GSM phone is dependent on network compatibility and coverage and cannot be guaranteed.

Certain mobile phone networks support E-mail to phone delivery as an alternative to standard text messages

2.4.3.4 Vessel Data

This information will be entered by Wärtsilä as part of the registration process, however its accuracy should be determined after receiving your user log in and password.

Users are free to edit data as they wish but must save all changes for them to become permanent. Vessel Name & IMO Number can only be edited by Wärtsilä Operations team.

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IMPORTANT

In selecting vessel flag the delivery path of SSAS alert messages to the appropriate Flag State authority is made.

The actual delivery address has been pre-set by Wärtsilä and cannot be altered by user.

WHEN TESTING ON BOARD SYSTEMS IT IS ESSENTIAL THAT UNIT IS SET TO TEST, THIS WILL AUTOMATICALLY BLOCK MESSAGE TO FLAG STATE AND MARK MESSAGE AS TEST.

ALERT MESSAGES SENT FROM SYSTEM IN NORMAL "ON" MODE WILL BE DELIVERED TO FLAG STATE AND TREATED AS A GENUINE MESSAGE.

IN THE EVENT THAT A FALSE POSITIVE MESSAGE IS SENT THE SHIP OPERATOR MUST CONTACT THE FLAG STATE IMMEDIATELY.

2.4.3.5 SSAS Message Delivery

Figure 71. Company SSAS delivery data

› Within your company, determine who is to receive SSAS alert messages

› Enter their E-mail and mobile phone details in the fields immediately below the vessel data fields

› Remember no spaces and use semi-colon ";" as data separator

› Save data.

Your system is now set up in basic format and will deliver to your company only when on board system is in test mode and to both Flag State and company when in normal ON mode.

2.4.3.6 Enabling SSAS Test Function

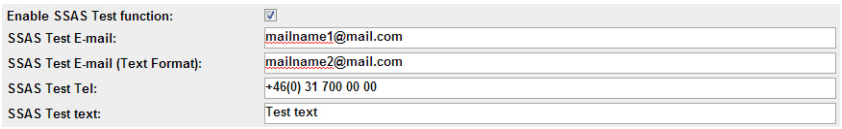

Figure 72. Special test function

This feature is used to enable TEST alert messages to be directed to alternative recipients within the organization. It is invoked by selecting the **Enable SSAS Test function** checkbox.

IN THE EVENT OF A REAL ALERT IT IS AUTOMATICALLY OVERRIDDEN AND DELIVERY TO FLAG AND SSAS E-mail AND SSAS TEL NUMBERS WILL TAKE PLACE

To use this feature:

- Ensure vessel has on board system set to TEST
- Select the **Enable SSAS Test function** checkbox
- Enter required E-mail address of message recipients
- Enter required mobile phone number
- Save data
- This feature is vessel specific.

Any further test transmission made by this vessel will be routed to the above settings.

Feature benefits:

- Test messages sent by vessels on different time zones do not disturb shore users unnecessarily
- Test message marked TEST can be sent to Flag State for mandatory system testing without requirement prior arrangement with Flag State authority.

Simply enter Flag State delivery address into SSAS Test E-mail field when test to Flag State is required and save data. Delete Flag State data after test.

2.4.3.7 CSO Data

Some Flag States require that this information is delivered to them with all SSAS alert messages, with others it is an option.

Wärtsilä recommends that this data is always sent since in the event of a real alert it provides an immediate point of contact for the receiving MRCC or Administration.

Figure 73. Delivery of CSO information

2.4.3.8 Position reports sending to defined E-mail

If any E-mails are set in this text box then all position reports will be send to these E-mails.

Figure 74. Delivery of Position reports information

2.4.3.9 Route alarms

If route monitoring is enabled, the Route alarm messages can be delivered on specified E-mail or mobile phone:

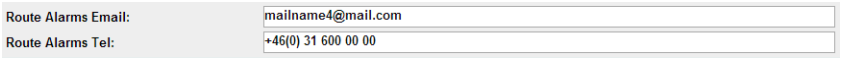

Figure 75. Delivery of Route alarms information

2.4.3.10 Flag State Access to FVO

Each SSAS message delivered by FVO contains an hyperlink **www.fleetviewonline.com** . It is possible to expand this hyperlink so that it will by pass the requirement for log in and password, thereby allowing Flag State direct access to the FVO graphic interface.

Should your Flag State require this feature or you wish to offer it voluntarily please contact the Wärtsilä support team.

2.4.3.11 Adding Extra Information to Vessel Tool tip

In the **User Defined Data** section you can define extra arbitrary information to show it in a vessel tool tip.

Enter any necessary information in the **User Title** and **User Data** text fields

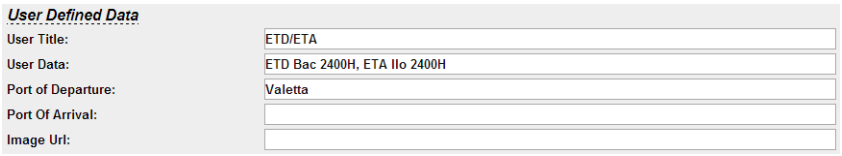

Figure 76. Adding Extra Information to Vessel Tool tip

Extra information are displayed in the tool tip, which appears when the mouse pointer is hovered over the vessel symbol (see *"Figure 13. Information tooltips" on page 20*).

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2.5 Ship Security Alert Message Log

2.5.1 Alert notifications by E-mail and SMS

Under normal circumstances an E-mail alert message will be delivered to the nominated E-mail address(es). Ship operators also have the option of having alerts delivered to a mobile (cell) telephone as an SMS text message. Text messages to mobile telephones are delivered subject to network coverage and national roaming agreements. Message content may be limited by the constraints of the mobile phone text messaging system.

Where Flag States require alert messages are delivered by fax or telex.

The E-mail message will consist of the following content:

- Name of vessel
- Call sign
- MMSI no.
- IMO no.
- Speed of vessel
- Course of vessel
- Latitude
- Longitude
- Date and time
- Status message - delivers the condition of the on board alert system
- CSO name
- Contact details for CSO
- Deputy CSO
- Contact details for Deputy CSO

Optional active hyperlink to vessel tracking system for graphic display of subject vessel.

The E-mail alert message example are given below:

```
Alert From:M/V Ship Guard CallSign:ABC123 MMSI:123456789 IMO:987654321
Spd:22.6kn Course:078
036 1.28'N, 005 7.09'W
06.11.2003 12:24
Status:1010 0000
```

The above data is replicated in text form to the nominated mobile telephone of the ship operator.

2.5.1.1 Status Message

The status has been designed to display in this format in order to ensure that maximum amount of information can be accurately and reliably transferred from the E-mail alert to the SMS text message of the users mobile phone.

The status message consists of two groups of four digits, either a 0 or 1: `Status:1010 0000`

The first group of four digits tell the user the nature of the message, e.g. primary alert test message, while the second group report exceptions such as a power failure. Currently only the first digit of the second group of four digits is in use. Each digit is independent of the others.

First group	Meaning
First digit	0= no change in system status, or scheduled (timed) transmission 1= change in status
Second digit	0= primary alert off (by convention primary is bridge) 1= primary alert activated

Third digit	0= secondary alert off (by convention secondary is other location) 1= secondary alert on
Fourth digit	0= key control in operational mode 1= key control in test mode
Second group	**Meaning**
First digit	0= no exception reported 1= principal power failure (24vDC)
Second, third and fourth digits are reserved for future development	

Table 4. Understanding status messages

In our example `Status:1010 0000` means that there has been a change of status, in that the secondary alert button has been activated in operational mode.

If nothing changes, thirty minutes later (12:54) the status message would be `Status:0010 0000`, signifying that there had been no change of status, if no buttons have been pressed or depressed and that the message is a timed (alert messages are automatically transmitted every 30 minutes) rather than requested message report, and that the secondary button is still activated.

If ten minutes later the primary alert button were to be pressed a report would be generated timed at 13:04 reading `Status:1110 0000`. The first digit is now 1, this shows that there has been a change of status. The second digit is now 1, telling us that the primary alert button has been operated along with the secondary alert button that was already in operation and that the system is still in operational mode.

The system has been carefully designed so that no one message is dependant on the previous message, and in the very unlikely event of a message being lost, it will still be possible to ascertain what is happening on the vessel and build a picture of events.

Status codes are given in the table below:

First group	Meaning
0000	Condition normal (Alert switches off, Test keys witch set to 'Operational')
0001	Test Mode (Test keys witch set to 'Test')
0010	Secondary Alert Ongoing
0011	ditto (Test Mode)
0100	Primary Alert Ongoing
0101	ditto (Test Mode)
0110	Primary and Secondary Alerts Ongoing
0111	ditto (Test Mode)
1000	Reset (alert switches both off)
1001	ditto (Test Mode)
1010	Secondary Alert Activated
1011	ditto (Test Mode)
1100	Primary Alert Activated
1101	ditto (Test Mode)
1110	Primary and Secondary Alerts Activated (simultaneously
1111	ditto (Test Mode)
Second Group	Meaning
0000	No exceptions
1000	External power failure (i.e. 24vDC)

Table 5. Status code table

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2.5.2 SSAS Log

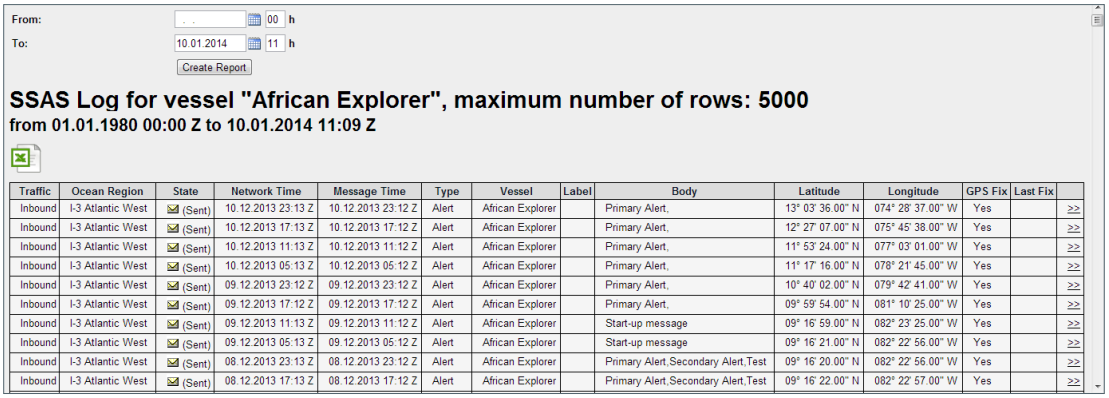
The SSAS log is automatically populated whenever an alert message or position request (polling) is made/received. It is presented in a tabular form and contains addition information to that of the alert E-mail/SMS text messages.

The SSAS log is available when you have "SSAS" access rights, set by administrator.

Figure 77. Accessing the message log

› Right-click the vessel name and select the **SSAS Log > [Incoming][Outgoing][All] > [Last Day] [Last Week] [Last Month][Custom Period]** item from the pop-up menu. The SSAS log will open in a separate window.

2.5.2.1 Explanation of SSAS Log columns

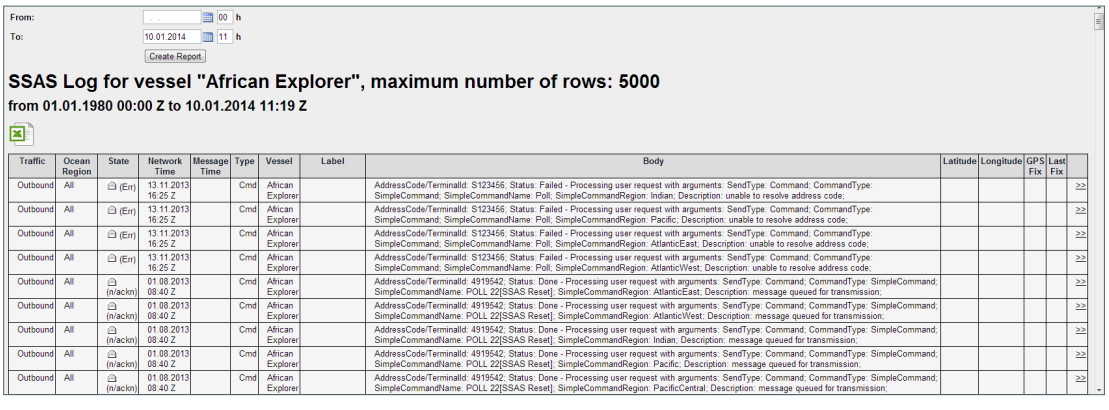


From: 00 h
To: 10.01.2014 11 h
Create Report

SSAS Log for vessel "African Explorer", maximum number of rows: 5000
from 01.01.1980 00:00 Z to 10.01.2014 11:09 Z

Traffic	Ocean Region	State	Network Time	Message Time	Type	Vessel	Label	Body	Latitude	Longitude	GPS Fix	Last Fix	
Inbound	I-3 Atlantic West	(Sent)	10.12.2013 23:13 Z	10.12.2013 23:12 Z	Alert	African Explorer		Primary Alert,	13° 03' 36.00" N	074° 28' 37.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	10.12.2013 17:13 Z	10.12.2013 17:12 Z	Alert	African Explorer		Primary Alert,	12° 27' 07.00" N	075° 45' 38.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	10.12.2013 11:13 Z	10.12.2013 11:12 Z	Alert	African Explorer		Primary Alert,	11° 53' 24.00" N	077° 03' 01.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	10.12.2013 05:13 Z	10.12.2013 05:12 Z	Alert	African Explorer		Primary Alert,	11° 17' 16.00" N	078° 21' 45.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	09.12.2013 23:12 Z	09.12.2013 23:12 Z	Alert	African Explorer		Primary Alert,	10° 40' 02.00" N	079° 42' 41.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	09.12.2013 17:12 Z	09.12.2013 17:12 Z	Alert	African Explorer		Primary Alert,	09° 59' 54.00" N	081° 10' 25.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	09.12.2013 11:13 Z	09.12.2013 11:12 Z	Alert	African Explorer		Start-up message	09° 16' 59.00" N	082° 23' 25.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	09.12.2013 05:13 Z	09.12.2013 05:12 Z	Alert	African Explorer		Start-up message	09° 16' 21.00" N	082° 22' 56.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	08.12.2013 23:13 Z	08.12.2013 23:12 Z	Alert	African Explorer		Primary Alert,Secondary Alert,Test	09° 16' 20.00" N	082° 22' 56.00" W	Yes		>>
Inbound	I-3 Atlantic West	(Sent)	08.12.2013 17:13 Z	08.12.2013 17:12 Z	Alert	African Explorer		Primary Alert,Secondary Alert,Test	09° 16' 22.00" N	082° 22' 57.00" W	Yes		>>

Figure 78. Viewing of incoming SSAS Log



From: 00 h
To: 10.01.2014 11 h
Create Report

SSAS Log for vessel "African Explorer", maximum number of rows: 5000
from 01.01.1980 00:00 Z to 10.01.2014 11:19 Z

Traffic	Ocean Region	State	Network Time	Message Time	Type	Vessel	Label	Body	Latitude	Longitude	GPS Fix	Last Fix	
Outbound	All	(Err)	13.11.2013 16:25 Z		Cmd	African Explorer		AddressCode/TerminalId: S123456; Status: Failed - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: Poll; SimpleCommandRegion: Indian; Description: unable to resolve address code;					>>
Outbound	All	(Err)	13.11.2013 16:25 Z		Cmd	African Explorer		AddressCode/TerminalId: S123456; Status: Failed - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: Poll; SimpleCommandRegion: Pacific; Description: unable to resolve address code;					>>
Outbound	All	(Err)	13.11.2013 16:25 Z		Cmd	African Explorer		AddressCode/TerminalId: S123456; Status: Failed - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: Poll; SimpleCommandRegion: AtlanticEast; Description: unable to resolve address code;					>>
Outbound	All	(Err)	13.11.2013 16:25 Z		Cmd	African Explorer		AddressCode/TerminalId: S123456; Status: Failed - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: Poll; SimpleCommandRegion: AtlanticWest; Description: unable to resolve address code;					>>
Outbound	All	(n/ackn)	01.08.2013 08:40 Z		Cmd	African Explorer		AddressCode/TerminalId: 4919542; Status: Done - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: POLL 22[SSAS Reset]; SimpleCommandRegion: AtlanticEast; Description: message queued for transmission;					>>
Outbound	All	(n/ackn)	01.08.2013 08:40 Z		Cmd	African Explorer		AddressCode/TerminalId: 4919542; Status: Done - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: POLL 22[SSAS Reset]; SimpleCommandRegion: AtlanticWest; Description: message queued for transmission;					>>
Outbound	All	(n/ackn)	01.08.2013 08:40 Z		Cmd	African Explorer		AddressCode/TerminalId: 4919542; Status: Done - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: POLL 22[SSAS Reset]; SimpleCommandRegion: Indian; Description: message queued for transmission;					>>
Outbound	All	(n/ackn)	01.08.2013 08:40 Z		Cmd	African Explorer		AddressCode/TerminalId: 4919542; Status: Done - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: POLL 22[SSAS Reset]; SimpleCommandRegion: Pacific; Description: message queued for transmission;					>>
Outbound	All	(n/ackn)	01.08.2013 08:40 Z		Cmd	African Explorer		AddressCode/TerminalId: 4919542; Status: Done - Processing user request with arguments: SendType: Command; CommandType: SimpleCommand; SimpleCommandName: POLL 22[SSAS Reset]; SimpleCommandRegion: PacificCentral; Description: message queued for transmission;					>>

Figure 79. Viewing of outgoing SSAS Log

Incoming	Identifies if message is to or from vessel: I - incoming, O - outgoing
Traffic	Inbound/Outbound
Ocean Region	Name of ocean region
State	Message condition typically read or unread, if polling command has been activated will indicate if vessel has responded, e.g. 'Sent', 'ACKN' (acknowledgment of receipt the message)
Network Time	Message processing time on the FVO server (time is in UTC)
Message Time	Date and time of message (time is in UTC)
Type	Type of message, e.g. 'Alert' or 'Poll'
Vessel	Name of vessel
Label	This is a free text column for users to make notes, there is a limit of 50 characters
Body	The actual message type, e.g. 'Primary Alert' - the first alarm button is pressed, 'Secondary Alert' - the second alarm button is pressed, 'Test' - test message, 'Start-up message' - terminal is launched
Latitude/Longitude	The position of vessel at time of transmission as provided by the terminal internal GPS system
GPS Fix	'Yes' if the message is GPS Fix and 'No' if the GPS satellite lock has been lost
Last Fix	If GPS Fix is 'No', then the number of hours (up to value 8) since the last
>>	Report summary in a separate window

Table 6. Explanation of SSAS log columns

› To change a time interval enter new data and time in the **From** and **To** text boxes and click the Create Report button.

› To export all information in Excel file format click the icon.

2.6 Forwarding Data to AMVER and UKMTO/ MSCHOA

Ship position reports could be forwarded to AMVER and SSAS alerts could be forwarded to the UKMTO via FVO service in E-mail form. To activate of forwarding data to the UKMTO, please contact the Support team.

2.6.1 Forwarding Position Reports to AMVER

AMVER **http://www.amver.com/** is a worldwide voluntary ship reporting system operated by the United States Coast Guard (USCG) to promote safety of life and property at sea. AMVER's mission is to quickly provide SAR authorities, on demand, accurate information on the positions and characteristics of vessels near a reported distress.

Information sent to AMVER is protected and used only in a bonafide maritime emergency.

Participation in AMVER is free, voluntary, and open to merchant ships of all Flags. Participation is generally limited to ships over 1000 gross tons, on a voyage of 24 hours or longer. Recently, however, enrolment has been expanded to accommodate vessels outside the normal criteria, such as cruise ships, research vessels and fish processors.

An example of Ship position report to AMVER via FVO service is presented below:

```
-----Original Message-----

From: ForwardPosistionReport Ø FleetViewOnline

[mailto:forward.posreport@fleetviewonline.com]

Sent: 11 June 2010 11:28

To: amvermsg@amver.com

Subject: Position Report From www.fleetviewonline.com To www.amver.com

AMVER PR//A/IMO 1234567//111027Z JUN//5082N/00104W//360//0//
```

2.6.2 Forwarding SSAS Alerts to UKMTO/MSCHOA

The UK Maritime Trade Operations (UKMTO) has an office in Dubai which acts as the primary point of contact for merchant vessels and liaison with military forces in the region. UKMTO Dubai also administers the Voluntary Reporting Scheme, under which merchant vessels are encouraged to send regular reports, providing their position/course/speed and ETA at their next port whilst transiting the region bound by Suez, 78°E and 10°S. UKMTO Dubai subsequently tracks vessels and the positional information is

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passed to CMF and EU headquarters. Emerging and relevant information affecting commercial traffic can then be passed directly to ships, rather than by company offices, improving responsiveness to any incident and saving time.

The Maritime Security Centre – Horn of Africa (MSCHOA) aims to provide a service to mariners in the Gulf of Aden, the Somali Basin and off the Horn of Africa. It is a Coordination Centre dedicated to safeguarding legitimate freedom of navigation in the light of increasing risks of pirate attack against merchant shipping in the region, in support of the UN Security Council's Resolutions (UNSCR) 1814, 1816 and 1838.

http://www.mschoa.org/Pages/default.aspx

The UKMTO protective region is created in FVO by default (see *"Figure 80. The UKMTO protective region is created in FVO" on page 63*). In case SSAS Alert is generated while a ship is in UKMTO region this SSAS Alert is immediately retransmitted to UKMTO.

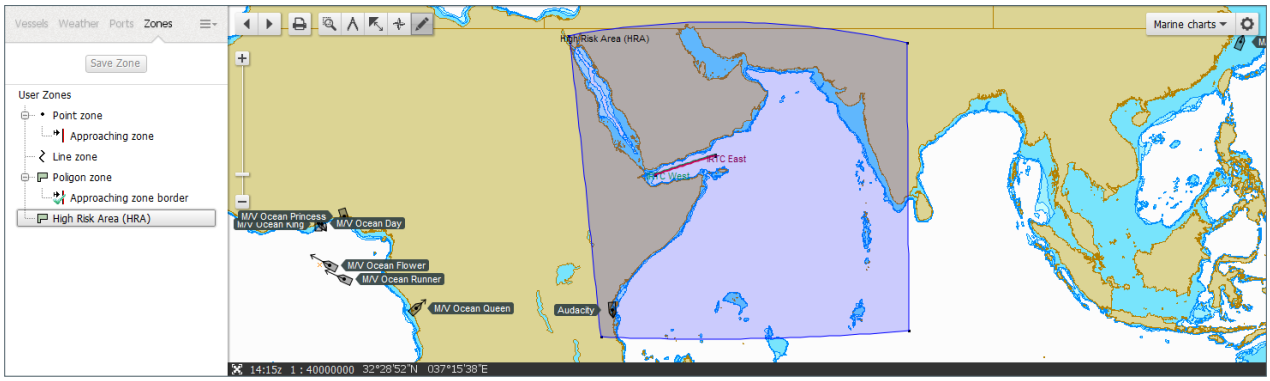

Figure 80. The UKMTO protective region is created in FVO

2.6.3 Activating of Forwarding Data to AMVER and UKMTO for Vessel

› Open the **Vessel** service

› Select one of vessel groups (see *"Figure 70. Entering data for SSAS message delivery" on page 56*)

› Select vessel name. Data entry fields for the selected vessel appears

› Select AMVER or/and UKMTO checkboxes.

Figure 81. Activating of forwarding data to AMVER and UKMTO for a vessel

2.6.4 Activating of Forwarding Data to AMVER and UKMTO for Vessels Group

› Open the **Vessel** service

› Right-click a vessel group and select the **Apply Group Operation** menu item. The **Apply Group Operation** window appears

› Select necessary checkboxes and click **OK**.

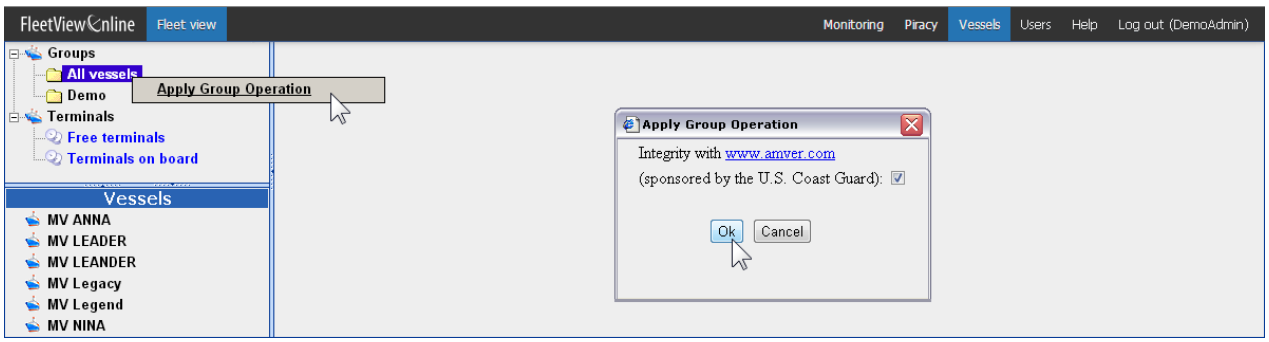

Figure 82. Activating of Forwarding Data to AMVER and UKMTO for Vessel Group

2.7 SSAS Management

SSAS management page provides a user-friendly access point to manage SSAS testing of all registered hardware. Users can start and stop test cycles, remotely reset SSAS alert mode, view last SSAS test and monitor all SSAS testing for every vessel under one display.

SSAS Management also has two distinctive features to improve the SSAS testing process:

1. **Online Test Mode**

   This feature has originally been implemented to support Purple Finder hardware which has no local test switch, therefore you must use this feature to initiate a test cycle of the hardware.

   This is now active for all hardware, therefore you can choose to activate the test mode using the local button\switch on the SSAS hardware, or alternatively you can activate test mode using the online option and the SSAS hardware can remain in LIVE mode on the vessel.

   The incoming LIVE messages will be decoded as TEST message, as long as Online Test Mode is selected before commencing the testing of the SSAS hardware.

2. **Automated Reset**

   If your SSAS system requires a remote reset command to be sent from FleetViewOnline, you can choose to have this automatically sent when a TEST message is received from the vessel. FleetViewOnline will deliver the reset within 30 seconds of receiving the TEST alert.

   Note: This is only available for remote reset SSAS hardware, if your SSAS hardware is reset usually on-board via the alert button, then Automated Reset will not be an available option.

   Note: Automated Reset will only work on TEST messages, FleetViewOnline will never automatically cancel a LIVE SSAS alert message.

2.7.1 SSAS Management Compatibility

Due to the operational function of the different SSAS hardware, some features are not available for specific models. Please look at the compatibility table below:

SSAS Version	Unique Identifier	Online Test Mode	Automated Reset	Notes
Transas ShipGuard v2	DST001xxxxxx	✓	×	Latching alert buttons, Local reset used
Transas ShipGuard v3	DCC007xxxxxx, DCC012xxxxxx	✓	✓	Momentary alert buttons, Remote reset used
Transas ShipGuard v4	xxxxxxxSKYxxxx	✓	✓	Momentary alert buttons, Remote reset used
Russian T400	DST001xxxxxx	✓	×	Latching alert buttons, Local reset used
Ocean Alert	DST001xxxxxx, DST002xxxxxx	✓	✓	Latching alert buttons, Remote reset used
Pole Star DSAS Mk1	DCC004xxxxxx, DCC010xxxxxx	✓	✓	Momentary alert buttons, Remote reset used
Pole Star DSAS Mk2	xxxxxxxSKYxxxx	✓	✓	Momentary alert buttons, Remote reset used
Inmarsat C	Various	✓	×	Inmarsat C includes all Furuno, JRC and Thrane & Thrane equipment

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2.7.2 Access to SSAS Management Page

Management and testing of SSAS hardware can be performed using the **SSAS Management** page. To open it, do the following:

› Choose the **Vessel** item

› Right-click the **Fleet Info** and select the **SSAS Management** menu item:

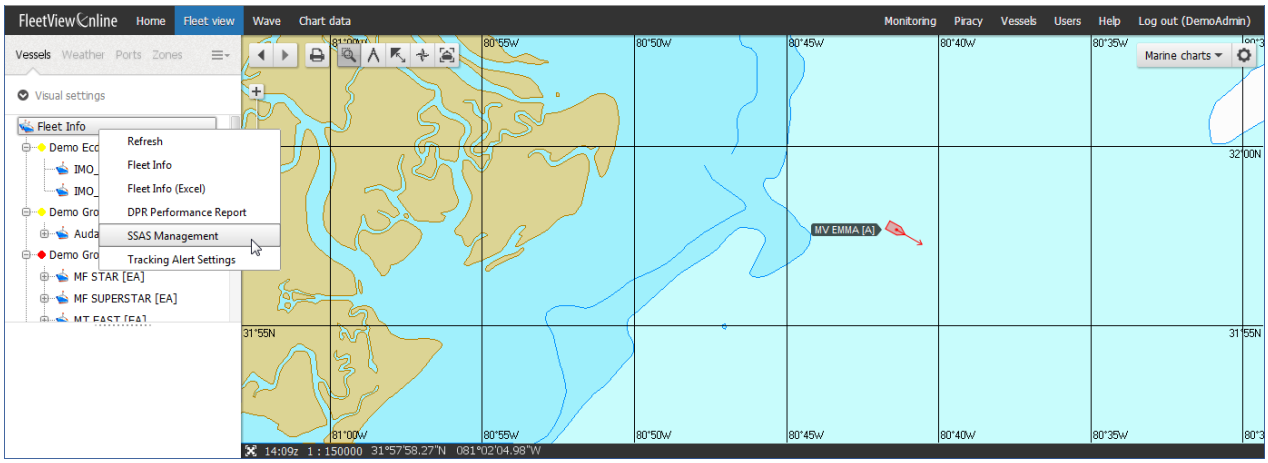
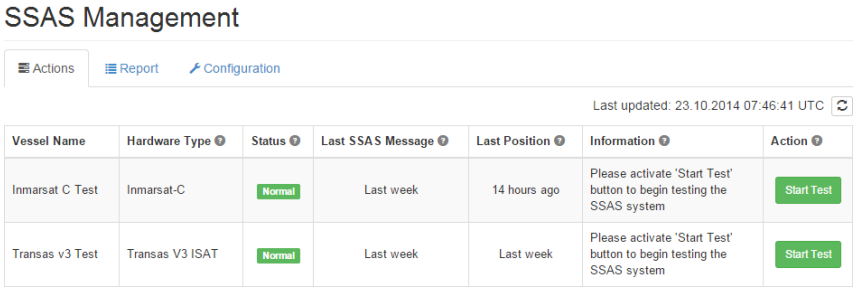


Figure 83. SSAS Management

The **SSAS Management** page opens on the **Action** tab.

2.7.2.1 Action Tab

On **Action** tab the list of all SSAS hardware within your company is displayed in the table:



Vessel Name - name of vessel

Hardware Type - type of SSAS hardware

Status - current SSAS status of each vessel:

Status	Description
Normal	System is in standby and is waiting for the **Start Test** button to be pressed
Test Started	This means the **Start Test** button has been activated and the system is waiting for a SSAS message to be received from the SSAS
Test Alert	The **Start Test** button has been activated, followed by an alert button pressed on the vessel. The system is now in **Test Mode** and will generate **Test Alert** messages every 30 minutes until the system is reset
Live Alert	An alert button has been pressed on the vessel. The system is now in **Live Mode** and will generate **Live Alert** messages every 30 minutes until the system is reset
SSAS Resetting	The hardware has been sent a reset command, it will generate a return message within 10 minutes that will reset the system
Test Conflict	The **Online Test Mode** is activated AND the vessel is sending TEST messages from the SSAS

Last SSAS Message - date of last received SSAS alert message

Last Position - date of last vessel position report

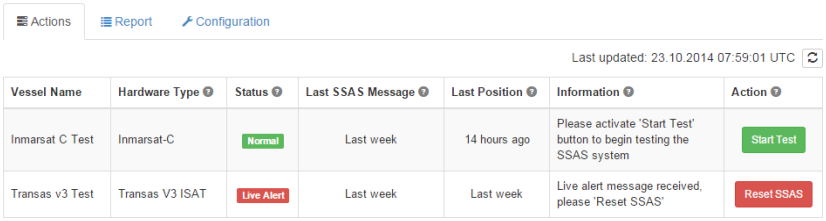
Information - step-by-step instruction of testing the SSAS hardware.

Action - action buttons:

Start Test - to start test the SSAS hardware

Cancel Test - to cancel Online Test Mode

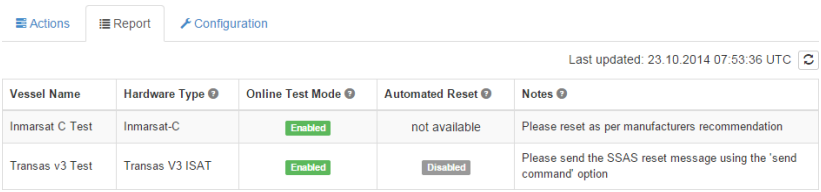
Reset SSAS - to send a reset command to the SSAS hardware



Click the Reset SSAS button to transmit the reset message to the SSAS hardware.

2.7.2.2 Report Tab

The **Report** tab displays configuration of SSAS management for all vessels within your company and lists any features not available due to SSAS hardware used on each vessel:



Vessel Name - name of vessel

Hardware Type - type of SSAS hardware

Online Test Mode - confirms status of Online Test Mode:

Enabled - Online Test Mode is enabled

Disabled - Online Test Mode is disabled

Automated Reset - confirms status of Automated Reset:

Enabled - Automated Reset is enabled

Disabled - Automated Reset is disabled

Not available - Automated Reset is not available for this SSAS hardware

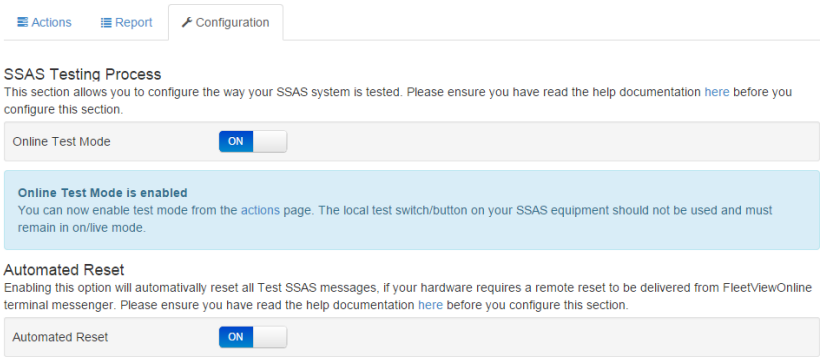
Notes - provides information on SSAS testing based on SSAS management configuration

2.7.2.3 Configuration Tab

The **Configuration** tab allows you to set up the **Online Test Mode** and the **Automated Reset** feature for all SSAS hardware (where available).

Note: Both features can only be enabled for all hardware, not for individual hardware.

Note: The configuration page cannot be changed if there is an ongoing SSAS test on any vessel. Please cancel all tests to be able to change the configuration of the feature.



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If **Online Test Mode** is OFF only local testing is possible or testing is impossible for any type of SSAS hardware.

If **Online Test Mode** is ON, you must follow the instructions on the **Action** tab of SSAS management.

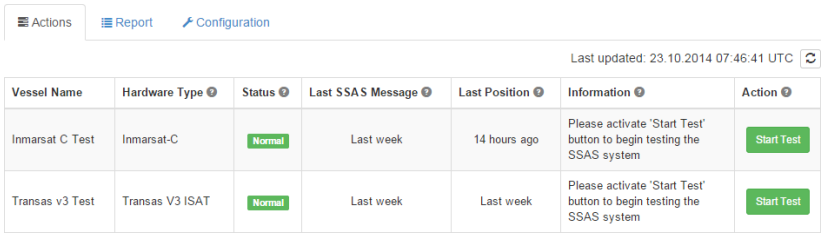
If **Automated Reset** is OFF only reset by Reset SSAS button or onboard reset is possible for SSAS hardware.

If **Automated Reset** is ON, then FleetViewOnline will automatically send a SSAS reset 30 seconds after a test alert message is received.

2.7.3 SSAS Testing

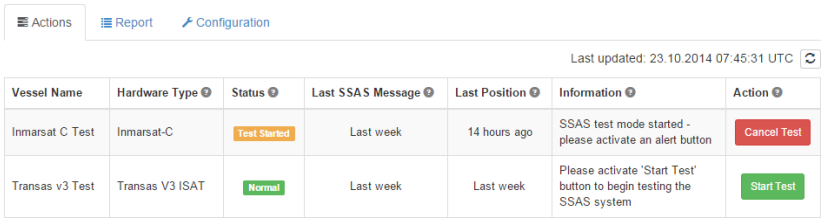
2.7.3.1 Starting Test

› To activate test process click the Start Test button in the **Action** column:



Note: If the **Start Test** button is unavailable then your SSAS hardware is currently transmitting alert messages and should be reset before starting a test.

The **Status** will change to Test Started:



Note: Please ensure the vessel does not select TEST mode on the SSAS hardware, or this will generate a **Test Conflict** and no alert will be received, please see section *"2.7.3.4 Test Conflict" on page 69*

This will now decode all incoming messages as test and will exclude the flag state from receiving any SSAS alerts.

Note: If you have configured your SSAS system to forward test messages to the flag authority, they will still receive any test message.

› Request the vessel crew to press an alert button and begin the test. Follow the instructions in the **Information** column. Each hardware has different behaviour therefore, the **Information** column will contain the appropriate instructions.

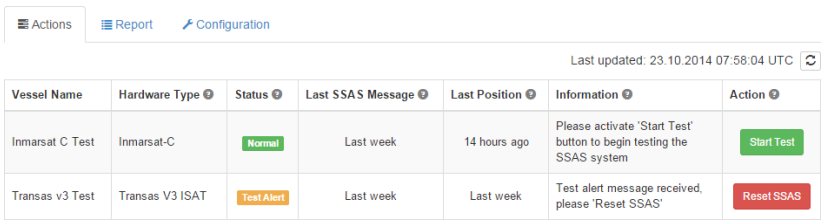
› If you have activated the Start Test button by mistake you can click the Cancel Test button to return the SSAS hardware to its working condition.

2.7.3.2 Test Alert

Within a few minutes of pressing the alert button FVO will receive the alert message, the **Status** will change to Test Alert and the test alert notification will be sent to all your email/sms contacts. Now the system will continue to generate test messages every 30 minutes until the system is reset.

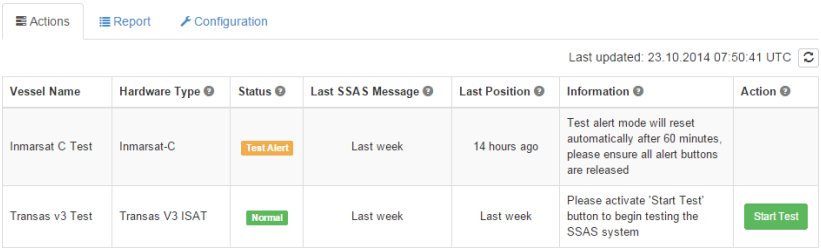
The **Action** will show one of three statuses, depending on the type of SSAS hardware installed on the vessel:

1. Remote reset SSAS hardware:



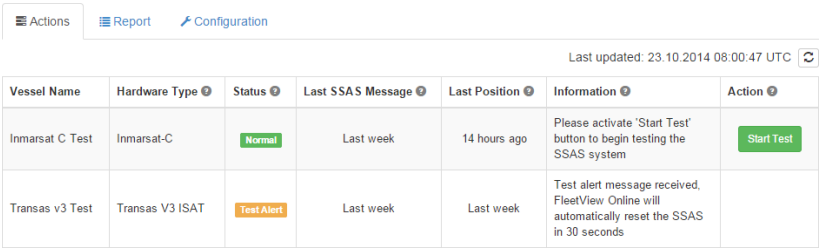
- Click the Reset SSAS button to transmit the reset message to the SSAS hardware

2. Local reset SSAS hardware



- See the information message in the **Information** column.

3. Automated Reset

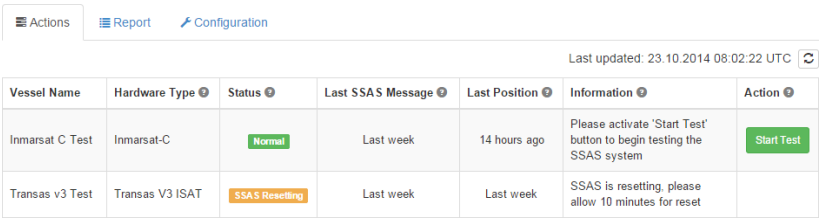


- See the information message in the **Information** column.

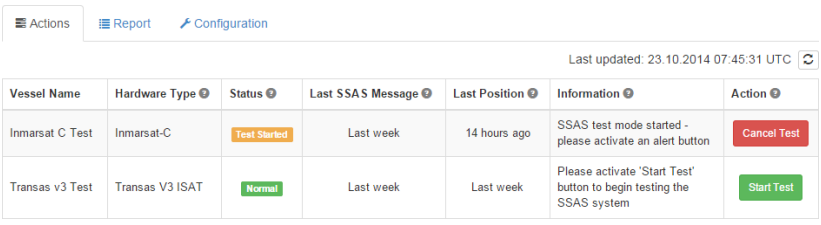
Note: If the Status does not change within 10 minutes then refresh the page and check the alert button on the SSAS hardware has been pressed correctly.

2.7.3.3 Reset Test Alert

After resetting the SSAS alert the **Status** will change to SSAS Resetting and a forward message will be sent to the SSAS hardware to reset the SSAS:



The SSAS receives the message and transits a reset confirmation message to FVO within 10 minutes. When FVO receives the reset confirmation message the **Status** will change to Test Started and the **Action** will change to Cancel Test:



Once the SSAS system is reset and you have finished with testing, you can click the Cancel Test button to exit the Test mode and to return the SSAS system to Normal, or you can activate another alert button on the vessel and continue with the testing process.

If you do not click the Cancel Test button after completing your SSAS testing, the system will automatically exit the Online Test Mode after 4 hours of inactivity.

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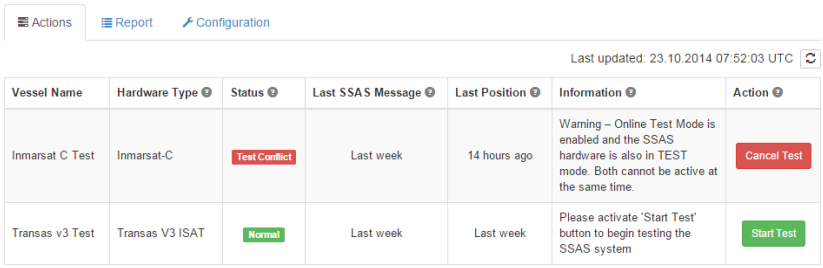
2.7.3.4 Test Conflict

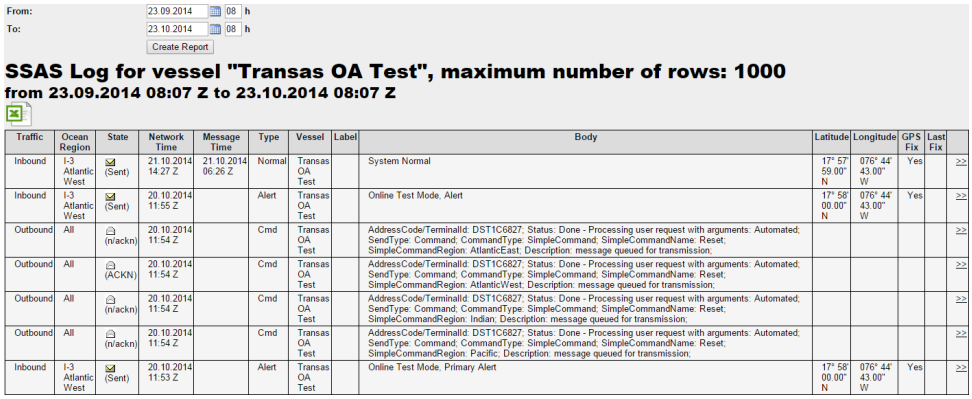
If SSAS Management detects that Online Test Mode is activated and the vessel is sending test messages from the SSAS, then it will detect a conflict and generate a **Test Conflict** warning on the SSAS Management page. Your vessel will also be coloured in yellow on the chart display.



This has been implemented to ensure that vessel does not complete a test cycle and then mistakenly leave the SSAS system in Test mode.

2.7.3.5 SSAS Log Display, SSAS Management

The SSAS log will display forward and return messages that have been generated using Online Test Mode or using Automated Reset. The **Body** column will indicate **Online** or **Automated** respectively, therefore you can easily see the method used for testing SSAS system in current and historical tests.



2.8 Chart Data

The **Chart data** service is intended for shipping companies to monitor of their vessels charts usage. The following functionality are available:

- Viewing information about licensed TADS/AVCS charts and their expiration dates by each vessel of fleet
- Approving or cancelling chart orders
- Exporting information to MS Excel file.
- Viewing chart catalogue.

2.8.1 Ordering charts

› Click the **Chart data** item to activate the chart monitoring service. The list of ships opens at the left of page.

› To see information about licensed charts right-click the ship name and choose the **Show charts** item from the pop-up menu. The table and diagram appears on the page:

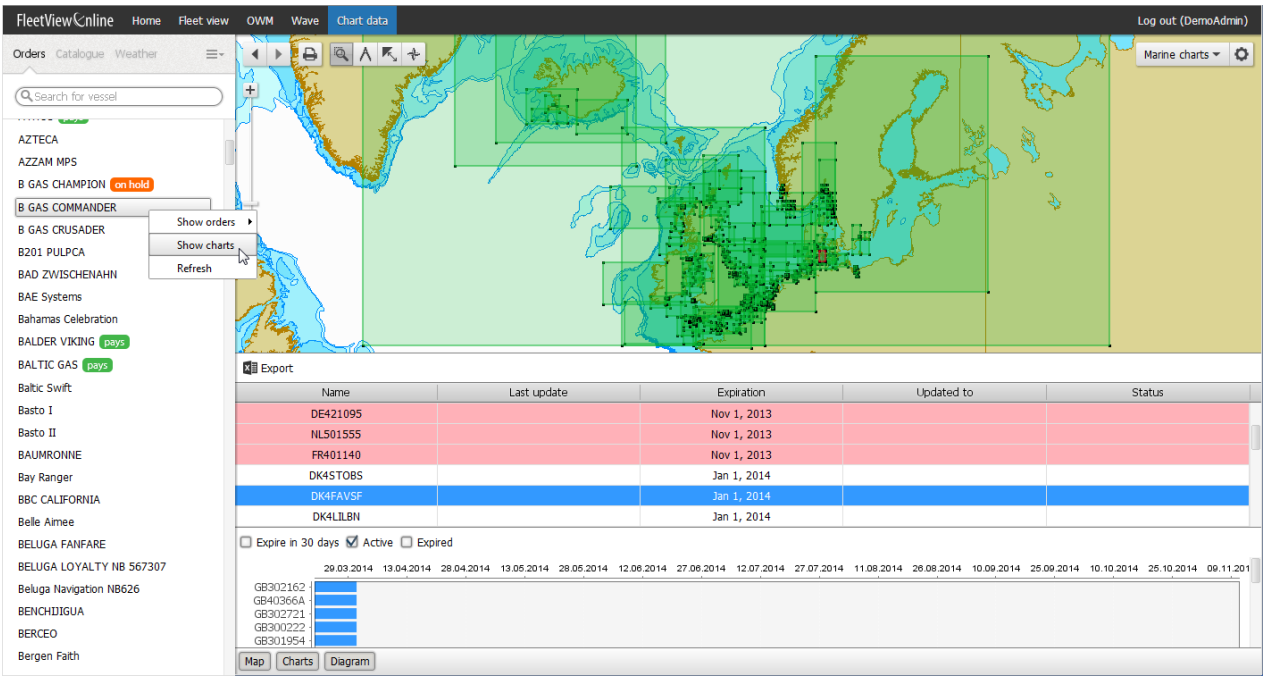


Figure 84. Ordering charts

On the map, all the ordered charts will be outlined with green color.

In the table will be displayed the list of ordered charts. Rows of charts with expired license are marked with pink.

Charts selected in the table will be highlighted on the map with red color:

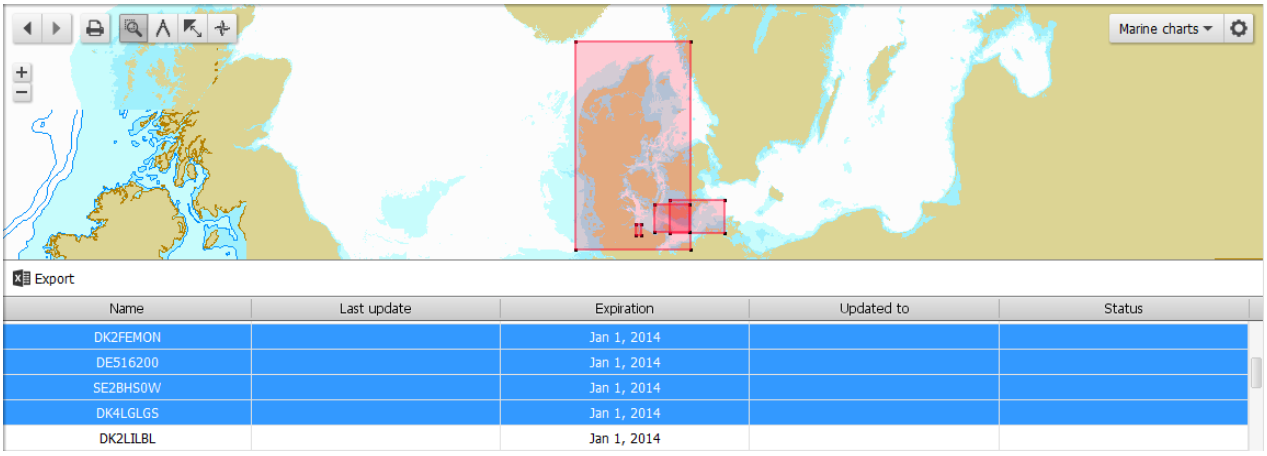


Figure 85. Selected charts

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› To hide\show map, table or diagram use Map Charts Diagram buttons.

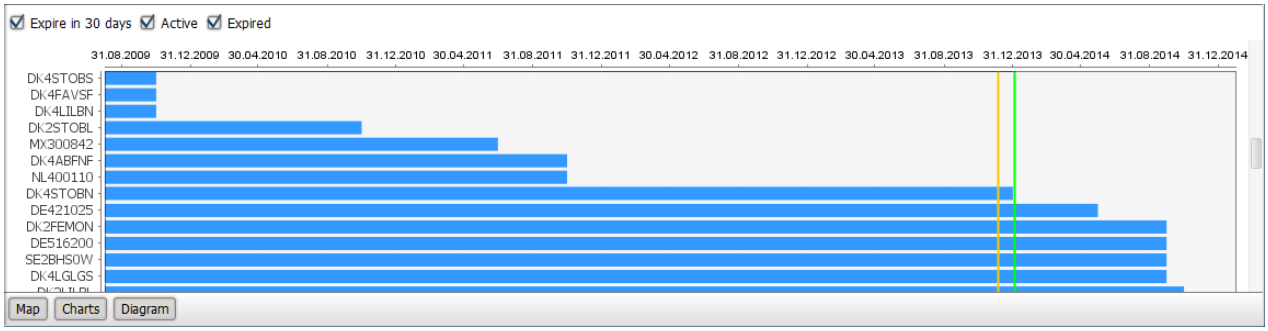
› To export table content to MS Excel file click the Export button. The file will be uploaded in the default downloads folder which is set in you browser.

On the diagram you can see licence status for charts in the following way:

› To see charts with current licence select the **Active** checkbox

› To see charts with expired licence select the **Expired** checkbox

› To see charts with licence that will expire in thirty days select the **Expire in 30 days** checkbox



The yellow vertical line is the current data, green vertical line is the current data+30 days.

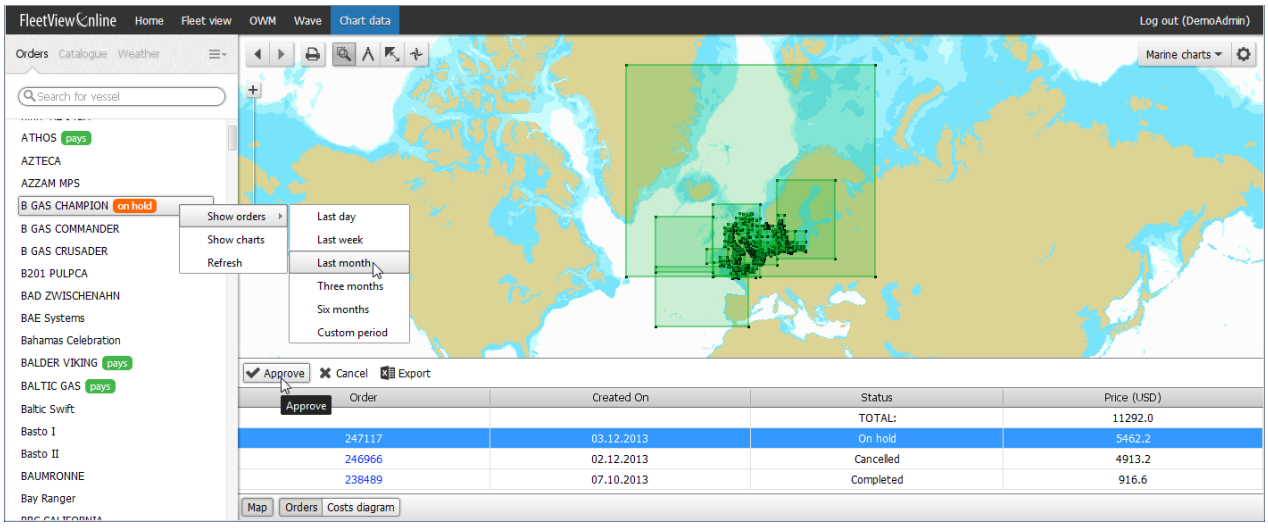
The following notations can be in the list of ships:

on hold - there is at least one unconfirmed order

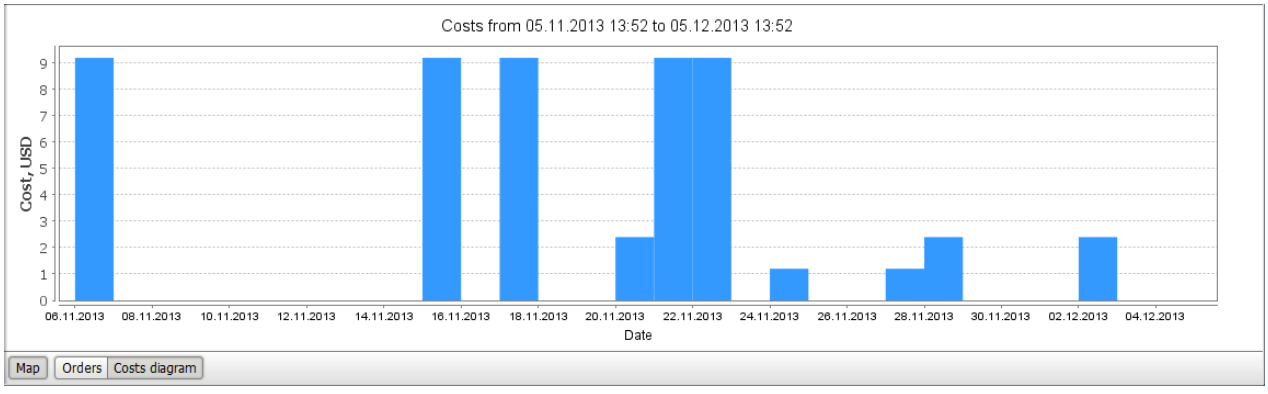
› To see orders right-click the ship name and choose the **Show orders > [Last day][Last week][Last month][Three month][Six month][Custom period]** item in the pop-up menu. The table with list of orders appears on the page.

You can expand the order details by pressing on the link with order number. To return to the previous view click the Back button.

› To confirm or reject an order select in the table its row with "on hold" status and click the Approve or Cancel button.

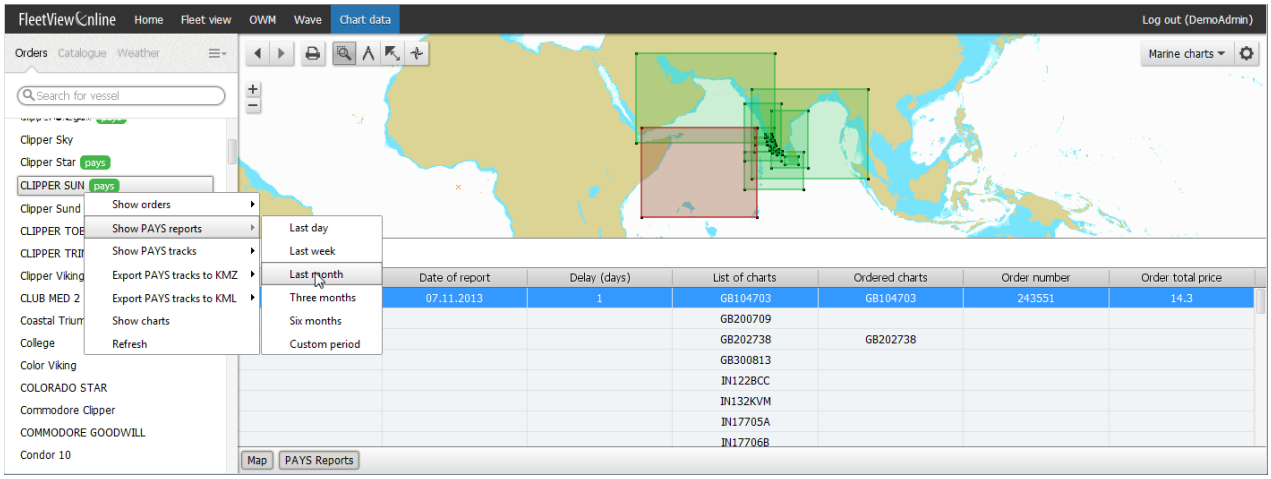


› To see the diagram of payments click the **Costs diagram** Orders Costs diagram button.

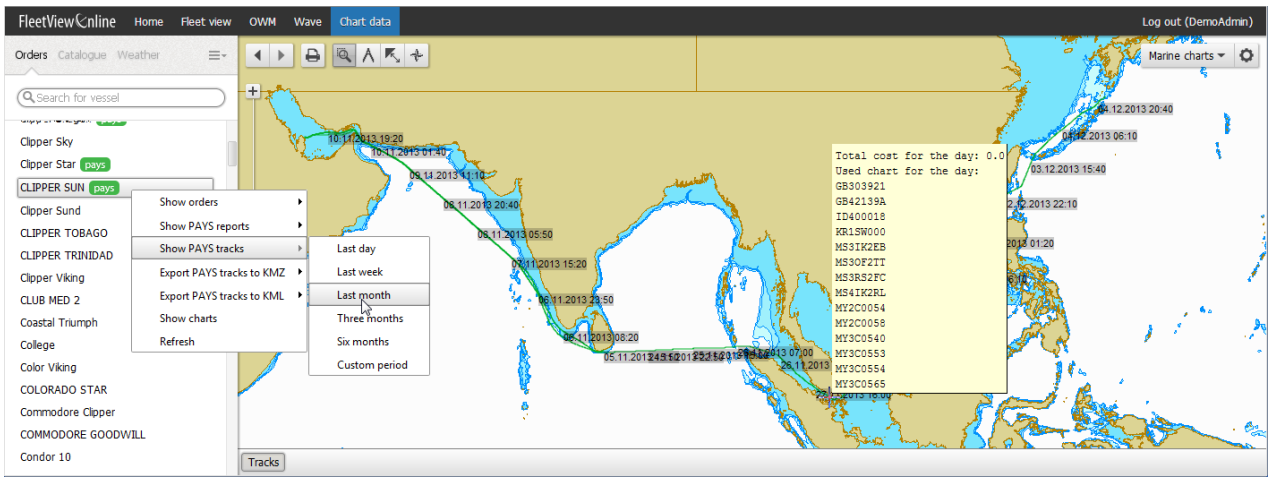


pays - the ship uses charts in the '**Pay As You Sail**' accessing mode (for more information see **http://www.transas.com/products/PAYS#description**). For this ships the following additional information is available:

› To see PAYS reports right-click the vessel name and choose the **Show PAYS reports > [Last day][Last week][Last month][Three month][Six month][Custom period]** item from the pop-up menu. The table with list of reports appears on the page:



› To see PAYS tracks right-click the vessel name and choose the **Show PAYS track > [Last day][Last week][Last month][Three month][Six month][Custom period]** item from the pop-up menu. The vessel track appears on the page:



Moving mouse pointer along the track you can see a list of chart which has been used during the day.

› To export the vessel PAYS track to KML (Keyhole Markup Language) or KMZ (zipped KML) file format for further displaying it in Google Earth, Maps and Mobile right-click the vessel name and choose the **Export PAYS track to KML (KMZ) > [Last day][Last week][Last month][Three month][Six month][Custom period]** item from the pop-up menu.

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2.8.2 Charts Catalogue

The **Catalogue** service allows to view chart borders and areas within chart borders covered by data.

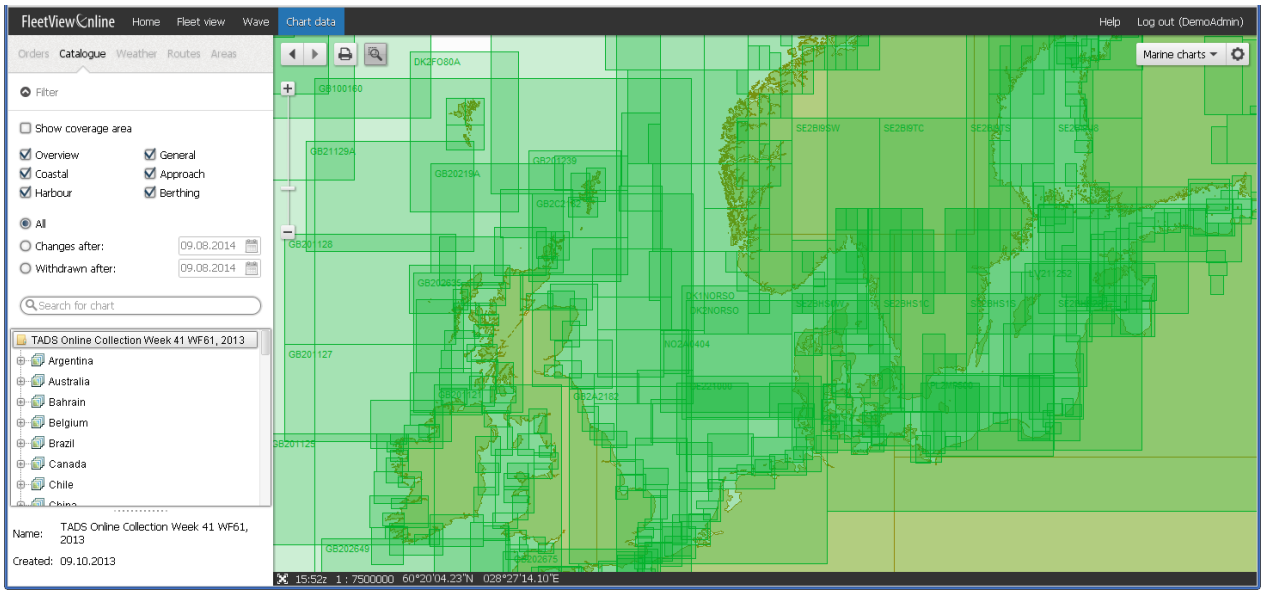
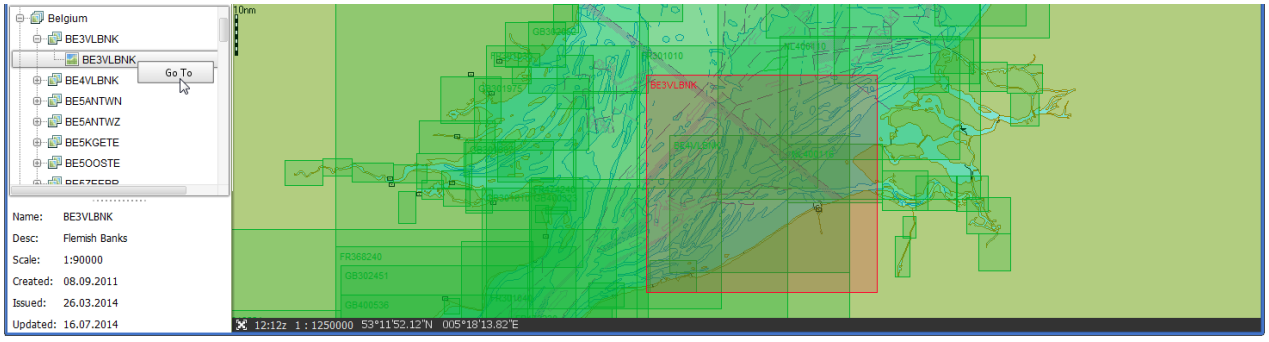
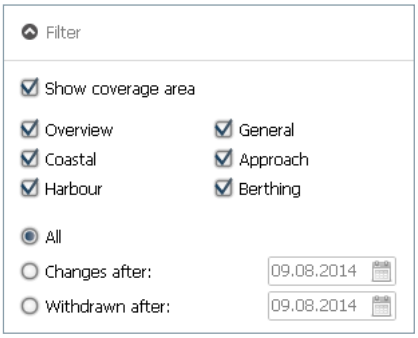


Figure 86. Charts Catalogue

› To view a chart select it in the chart list, right-click it's name and select the **Go To** item in the context menu. The selected chart will be highlighted on the map with semitransparent red color:

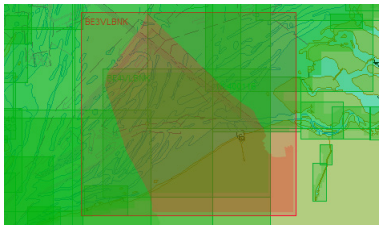


› Use the filter for obtaining information and selecting charts:

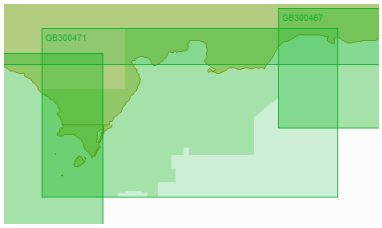


Show coverage area – to display areas covered by chart data. Areas covered by chart data are highlighted on the map as follows:

- With more saturated red color if the chart is selected:



- With more saturated green color if the chart is not selected:



Overview – is for overview charts with scales ranging from 1:1,500,001 or smaller

General – is for general charts with scales ranging from 1:600,001 - 1:1,500,000

Coastal – is for coastal charts with scales ranging from 1:150,001 - 1:600,000

Approach – is for approach charts with scales ranging from 1:50,001 - 1:150,000

Harbour – is for harbour charts with scales ranging from 1:25,000 – 1:50,000

Berthing – is for berthing charts with scales ranging from 1:24,999 or larger

All – to display all the charts

Changes after – to display charts issued for the first time and charts whose new editions have appeared, or which have been updated after the specified date

Withdrawn after – to display the charts removed from the collection after the specified date.

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2.9 WAVE

The Wave is a service for displaying data from onboard Transas Wave fuel efficiency monitoring system which collect data from the vessels navigation sensors, flow meter, engine data and emission sensors (for more information see **http://www.transas.com/products/Wave#description**) and for calculation of the ship Energy Efficiency Operational Indicator (EEOI) performed in compliance with IMO guidelines (MEPC.1/Circ.684).

› Click the **Wave** item to activate the Wave service. The list of ships appears at the left of page.

› To see parameters of the last voyage right-click the ship name and choose the **Present trip** menu item. The last trip parameters will be displayed in the table and on the graph:

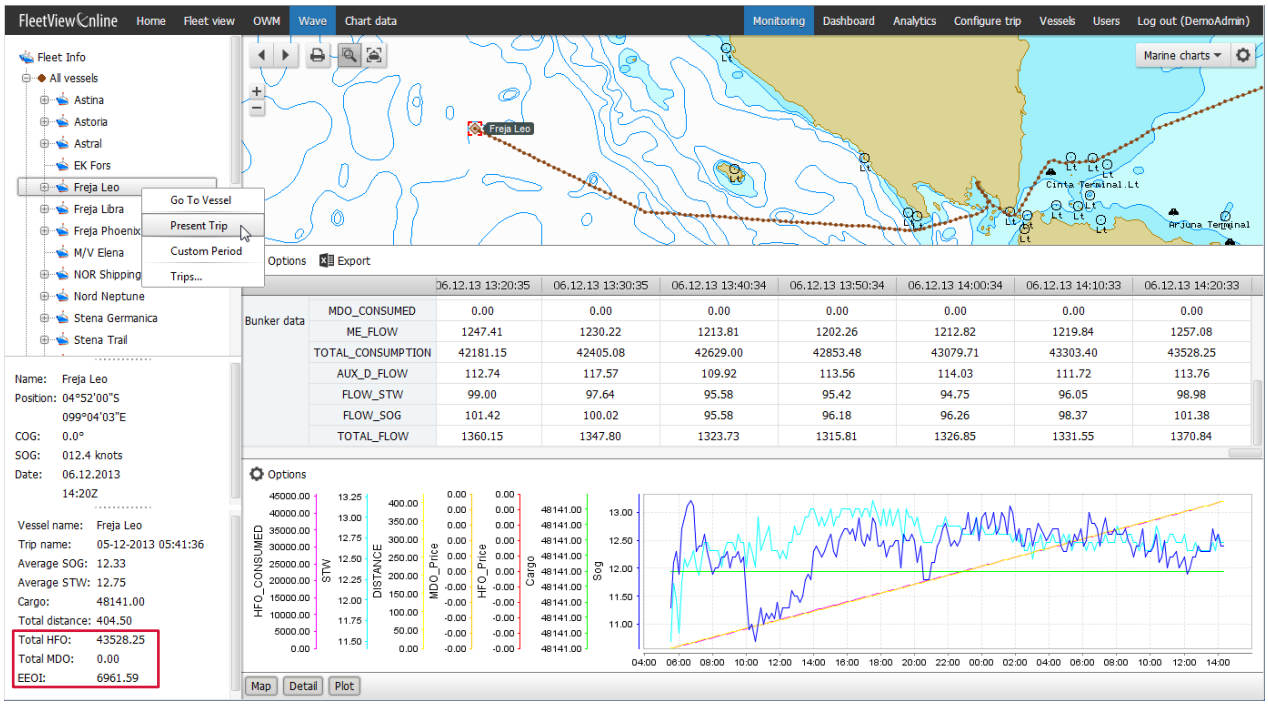
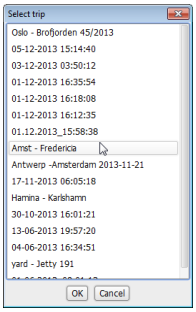


Figure 87. Fuel efficiency monitoring system

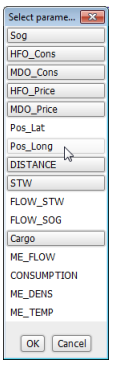
› To select some of the other voyages choose the **Trip..** menu item. The **Select trip** window opens.

Select a trip and click OK. The selected trip parameters will be displayed in the table and on the graph.

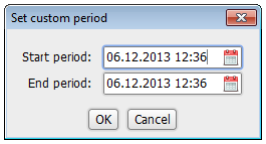


› To select parameters for displaying in the table and on the graph click the Options button. The **Select parameters** window opens. The selected parameters are highlighted with gray color.

Click the parameter name to show\hide this data.



› To specify a time period for the data output choose the Custom period menu item. The Set custom period window opens.



Specify a time period and click OK. Data for the selected time period will be displayed in the table and on the graph

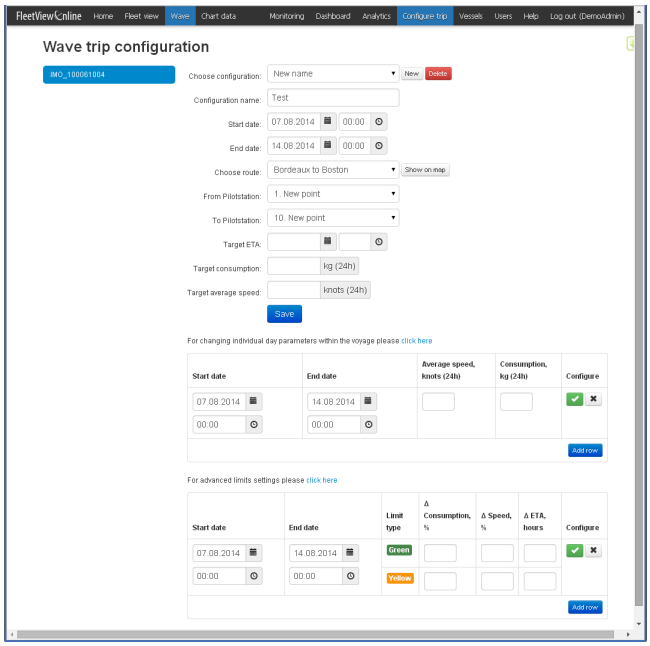
› To export table content to MS Excel file click the Export button. The file will be uploaded in the default downloads folder which is set in you browser.

› To hide\show map, table or graph use the Map Detail Plot buttons.

2.9.1 Wave Trip Configuration

The **Wave trip configuration** page allows to set parameters for monitoring the fuel consumption.

› To open page click the **Configure trip** item. The **Wave trip configuration** page appears:



› Select a vessel name from the list at the left

› To edit an existing configuration select it's name in the **Choose configuration** drop-down list.

To create a new configuration click the New button. By default, the name of new configuration will be **New name**.

To change a configuration name enter new name in the **Configuration name** field.

To delete an existing configuration select it's name in the **Choose configuration** drop-down list and click the Delete button.

› Set the time interval within the specified parameters will be used on **Dashboard** for comparison with the current average speed and fuel consumption of the vessel:

Start date - date and time of the interval beginning

End date - date and time of the interval ending

› In the **Choose route** drop-down list, select a route for ETA calculation. This **Calculated ETA** will be used on **Dashboard** for comparison with the **Target ETA** set below

From Pilotstation: - start way points on the selected route

To Pilotstation - end way points on the selected route

› Enter your planned values of the following parameters:

Target ETA: - planned ETA

Target consumption - planned fuel consumption per 24 hours

Target average speed:- planned average speed per 24 hours

› **For changing individual day parameters within the voyage** - you can set more accurate values for specified time intervals within the trip. To do this expand the table and click the Add row button. Enter the following values:

Start date - date and time of the interval beginning

End date - date and time of the interval ending

Average speed - planned average speed per 24 hours

Consumption - planned fuel consumption per 24 hours

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Configure - the column contains the following buttons:

- add data to configuration
- delete a row
- edit data in the row
- delete a row

› **For advanced limits settings** - you can set additional limitations for specified time intervals within the trip:

To do this expand the table and click the Add row button. Enter the following values:

Start date - date and time of the interval beginning

End date - date and time of the interval ending

Limit type - types of deviation intervals for **Consumption**, **Speed** and **ETA**

Green - value of deviation to be highlighted with green color

Yellow - value of deviation to be highlighted with yellow color

Deviations of **Consumption**, **Speed** and **ETA** that do not match the specified intervals, are highlighted with red color 11177.07 .

Δ Consumption, % - acceptable deviation from the planned fuel consumption value

Δ Speed, % - acceptable deviation from the planned average speed value

Δ ETA, hours - acceptable deviation from the planned ETA value

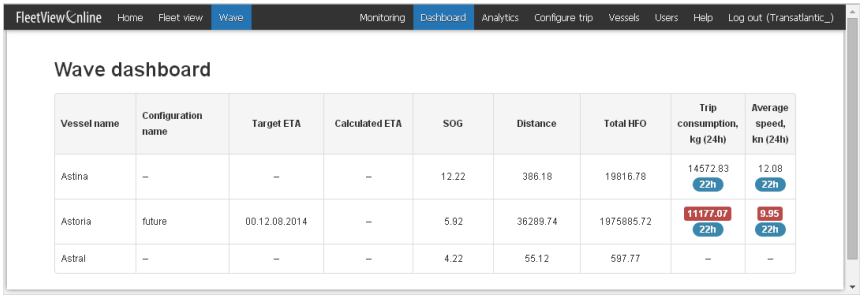
Configure - see above.

› Click the Save button to save the trip configuration.

2.9.2 Wave Dashboard

The **Wave dashboard** page displays information about fuel consumption.

› To open page click the **Dashboard** item. The **Wave dashboard** page appears:



Vessel Name - name of vessel

Configuration name - name of trip configuration set on the **Wave trip configuration** page

Target ETA - planned ETA set on the **Configure trip** page

Calculated ETA - calculated ETA taking into account the current route and position. If the question mark appears hover a cursor over question mark to read message on infotip Speed is not available (in last 30 minutes)

SOG - current speed over ground

Distance - current distance from the trip beginning

Total HFO - total amount of heavy fuel oil

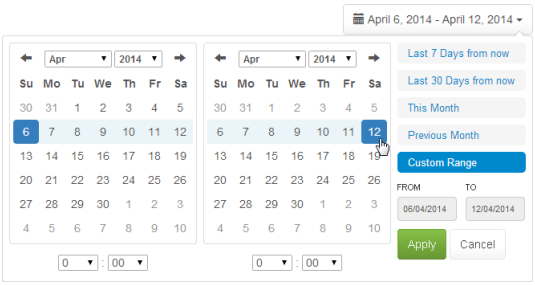
Trip consumption, kg (24h) - total amount of heavy fuel oil and marine diesel oil (HFO+MDO). If the planned fuel consumption is set on the **Wave trip configuration** page then the deviation from it's value highlights as 11177.07. The calculation of the deviation performed for the time specified as 22h or per day (per 24 hours). The highlighting color is changed to green or yellow when you set deviation intervals in the **For advanced limits settings** section.

Average speed, kn (24h) - the average speed per day in knots.

2.9.3 Wave Analytics

The **Wave analytics** page is intended to view and compare the fuel consumption.

- To open page click the **Analytics** item. The **Wave analytics** page appears:
- Select a vessel name from the list at the left
- To compare vessels data click the button and select several vessels names from vessels list
- Select period of time. If you select the **Custom Range** item, the calendar for selecting a start and finish date appears:



Click the Apply button

- To select graphics for display click the drop-down menu:

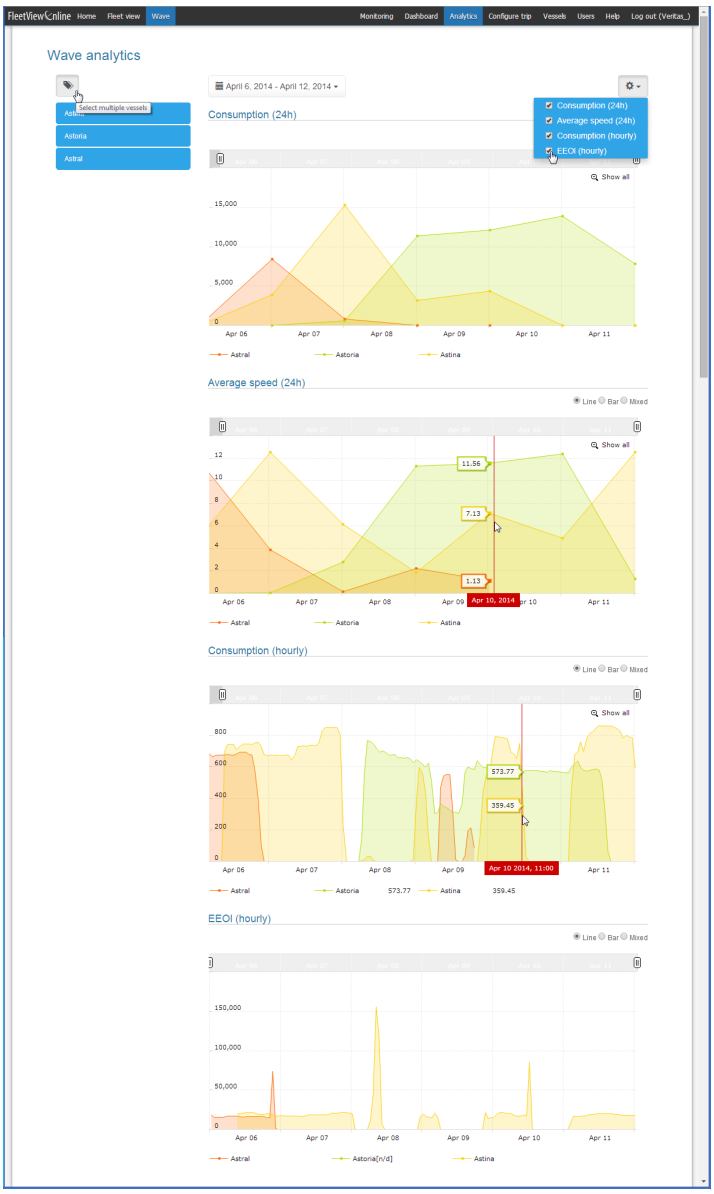
  Consumption (24h) - fuel consumption per 24 hours

  Average speed (24h) - average speed per 24 hours

  Consumption (hourly) - hourly fuel consumption

  EEOI (hourly) - hourly EEOI

- Please wait while the graphics will be constructed
- Use slider to increase or decrease the time interval for displaying graphics:



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2.10 Working without Browser using Java Application

You can install on your computer standalone Java application **FleetViewOnline Desktop Client** to work without browser.

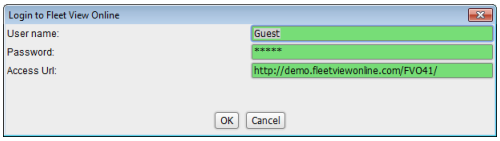
Note: Use Internet Explorer ver. 7.0 and higher , Mozilla Firefox, Safari or Google Chrome browsers.

› Click the Launch button on the FVO home page. The `MonitoringApplication.jnlp` application downloads.

Lunch this application.

The **FleetViewOnline Desktop Client** appears in desktop tray

and the **Login to FleetViewOnline** window opens:



› Enter User name, Password and Access Url (if needed) and click **OK**. The **FleetViewOnline Desktop Client** window opens. Now you can work without browser.

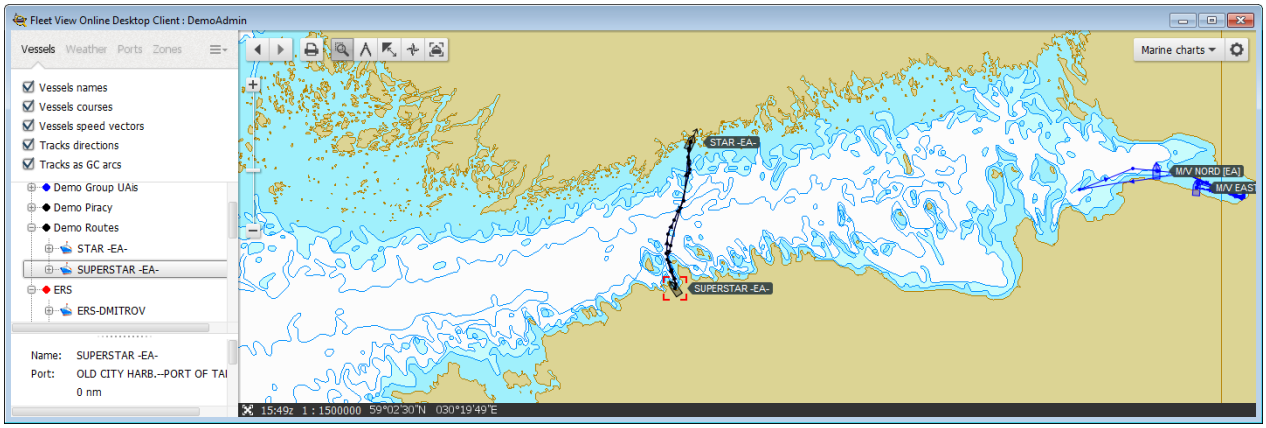
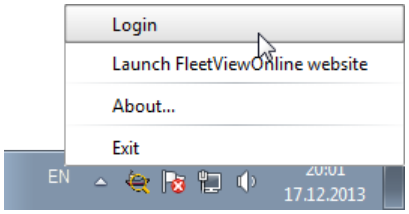


Figure 88. Working without browser using Java application

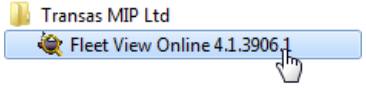
When you close the **FleetViewOnline Desktop Client** window, the application icon is kept in the desktop tray.

To run application again right-click the **FleetViewOnline Desktop Client** icon in tray and select **Login** menu item:



After the computer restarts, the icon will disappear from the desktop tray.

You can found the **FleetViewOnline Desktop Client** application in the **Start** menu:

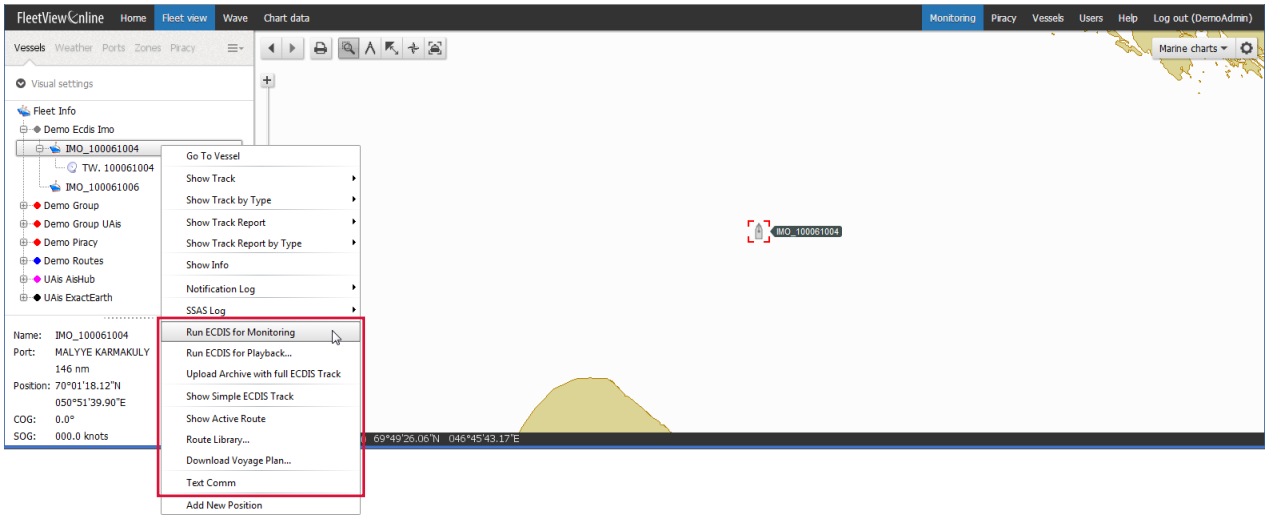


3. Integration with ECDIS

To enable integration with ECDIS, please make a request to the FVO support team.

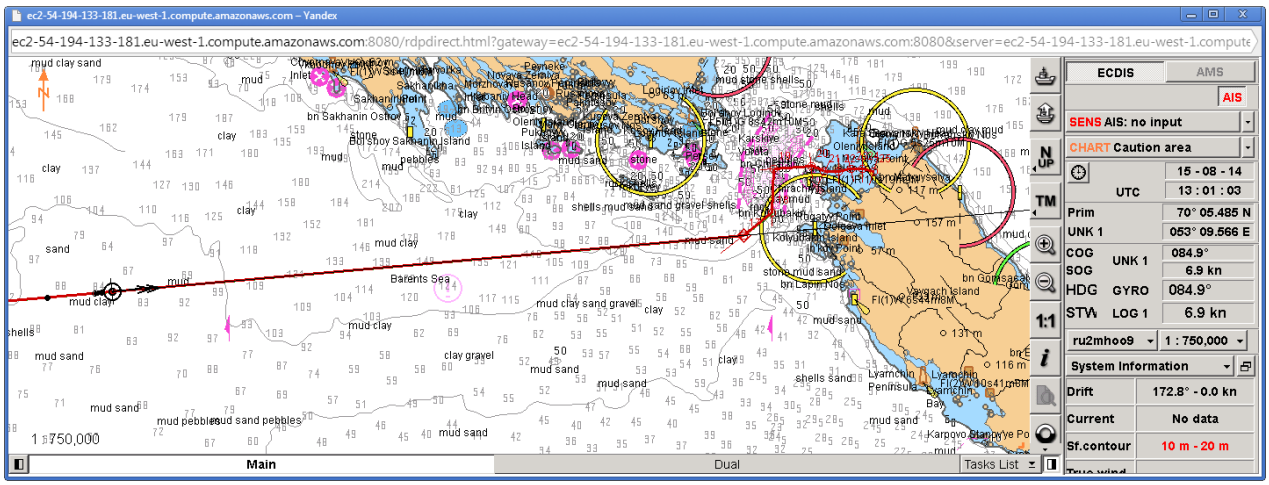
This functionality is available when the user has the **ECDIS Features** permission.

New block of items appears in the vessel menu. This menu items are described in detail below.



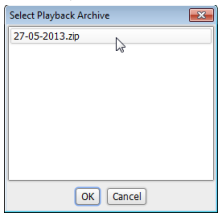
Run ECDIS for Monitoring

When you choose the **Run ECDIS for Monitoring** item, the Cloud ECDIS window opens for monitoring only:



Run ECDIS for Playback

› When you choose the **Run ECDIS for Playback** item, the **Select Playback Archive** window opens:



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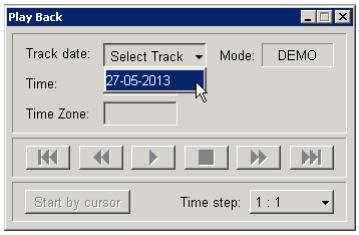
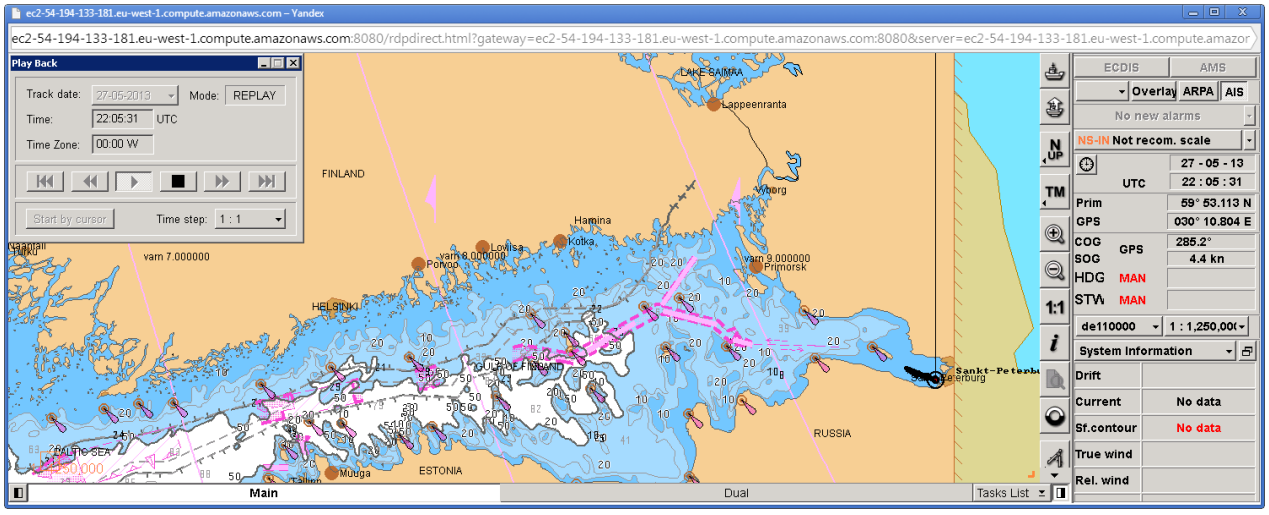
› Select an archive file from the list and click **OK**. The Cloud ECDIS window opens.

› Select a track for playback in the **Track date** drop-down list:



› Click the ▶ button to start the playback:



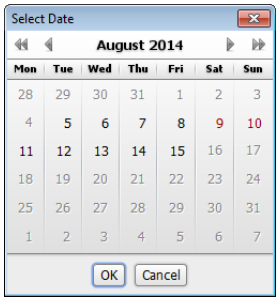
Upload Archive with full ECDIS track

You can upload a .zip file with full ECDIS track which you received from onboard ECDIS, to Cloud ECDIS.

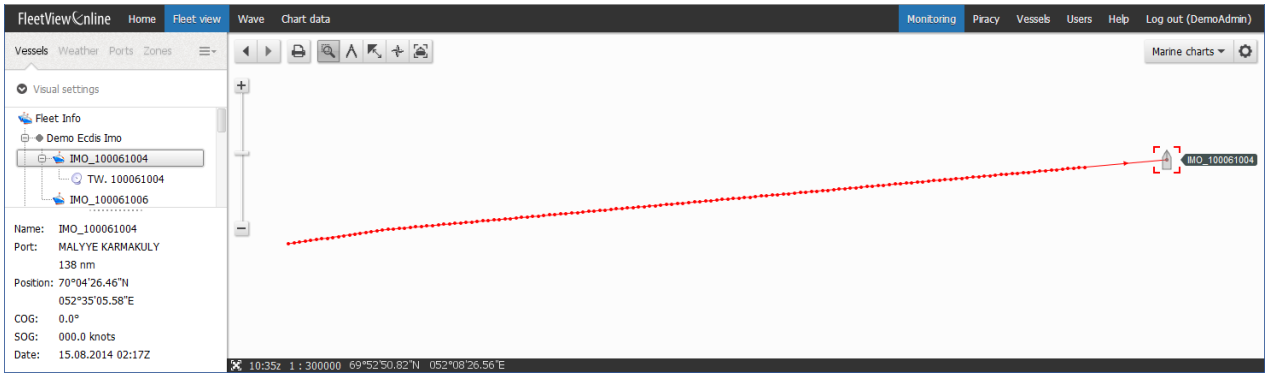
To playback this track in the Cloud ECDIS choose the **Run ECDIS for Playback** item.

Show simple ECDIS Track

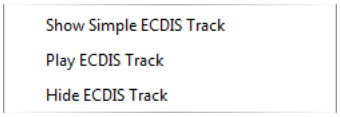
When you choose the **Show simple ECDIS Track** item, the **Select Date** window opens:



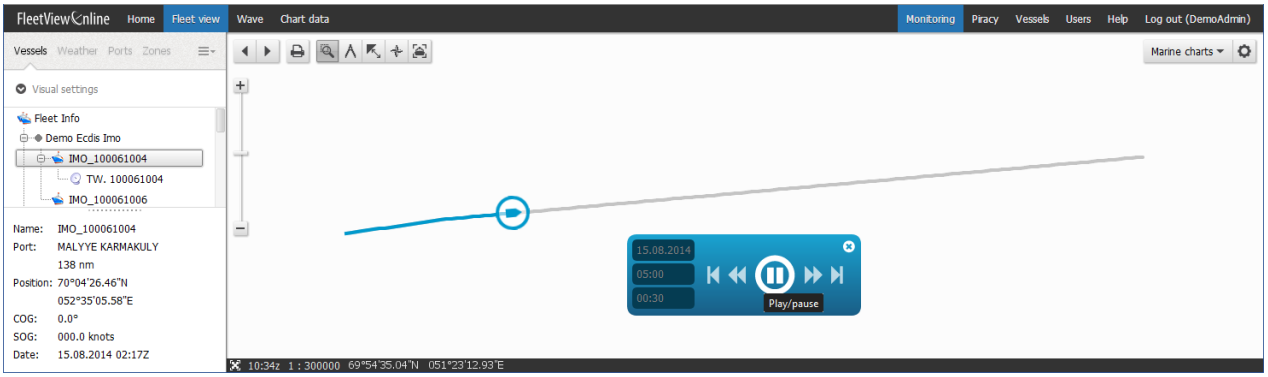
› Select date and click **OK**. Track will be display on the chart:



Additional items will appear in vessel menu:

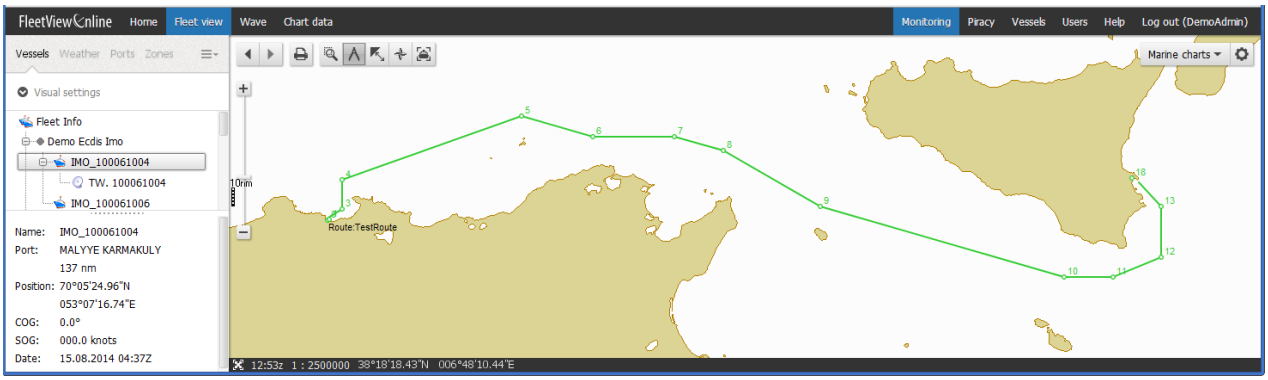


› To play vessel track choose the **Play ECDIS Track** item:



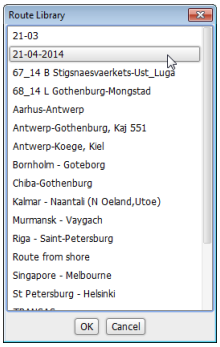
Show Active Route

The active route of selected vessel will be send from onboard NS4000 and will be display on the chart:



Route Library...

The route library will be send from onboard ECDIS and will display in the **Route Library** window



Download Voyage Plan

When you choose the **Download Voyage Plan** item the voyage plan will be send from onboard ECDIS in .pdf file.

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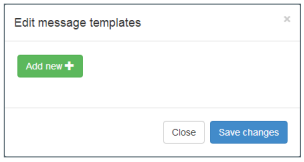
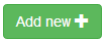
Text Comm

When you choose the **Text Comm** item the messenger window opens. This messenger allows real-time text transmission over the Satellite Internet with selected vessel.

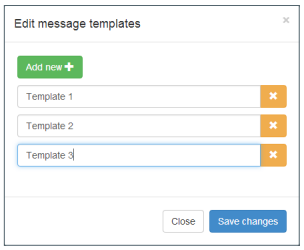
You can also create same messages templates and view history.

› To create message template expand the **Templates** drop-down list end select the **Edit...** item. The **Edit messages templates** window appears:

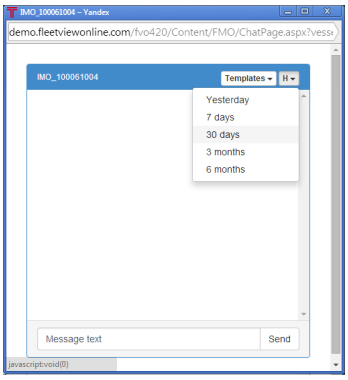


› Click the 

button to create a new template.



› To view a correspondence history expand the **H** drop-down list end select period of time:



4. FVO Mobile Version

Mobile version is accessible via **link http://www.fleetviewonline.com/fvo/m/** or via start page using the **FVO Mobile Version** link on the FVO home page.

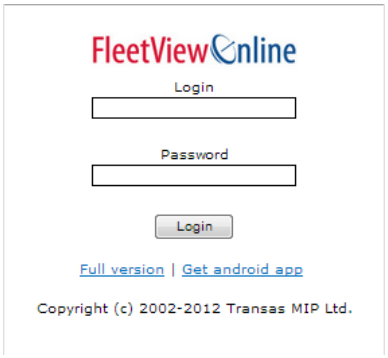


Figure 89. Login page in mobile version

The following functionality is available in mobile version:

- **Fleet report** link - tabular fleet report
- Vessel position
- Vessel position on map displaying
- Vessel tracks on map displaying
- Track report in tabular form
- SSAS log
- Ability to send commands to terminal

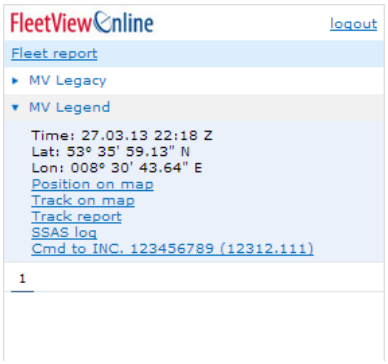


Figure 90. Main page in mobile version

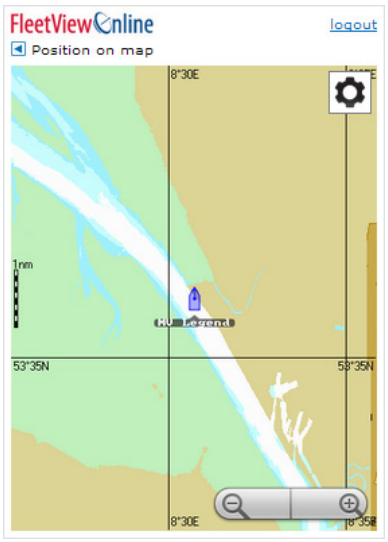


Figure 91. Vessel position on map

Figure 92. Vessel track on map

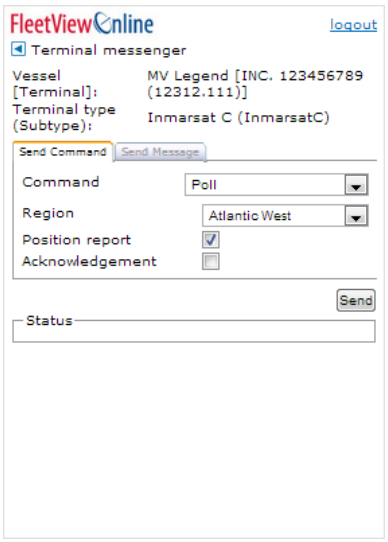
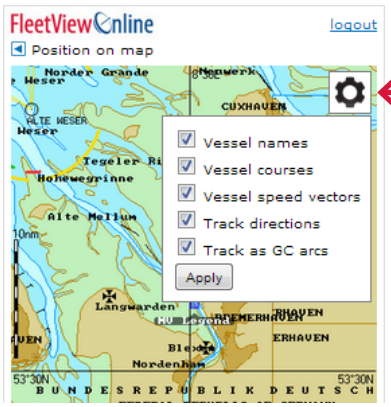


Figure 93. Terminal messenger



Zooming map

Setting of vessel symbol displaying

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5. FVO Android Application

You can download the client of FleetViewOnline Tracking and SSAS service for Android based mobile devices using the following link: **http://www.fleetviewonline.com/fvo/controls/MonitoringAndroidApplication/MonitoringAndroidApplication.apk**

5.1 User interface

Switching between services

To switch between services use buttons at the top of screen. The selected button is highlighted with yellow colour.

The **Menu** key opens a list of options available on the selected service. To view options tap a button.

The **Back** key returns to the previous screen or closes the application when previous screen is absent.

Selecting vessel

To select a vessel tap the vessel symbol. Symbol of the selected vessel will be enclosed in red square.

To view an **Action** menu for a vessel double-tap the vessel symbol. If a vessel has been selected, then only tap the vessel symbol.

Centring point

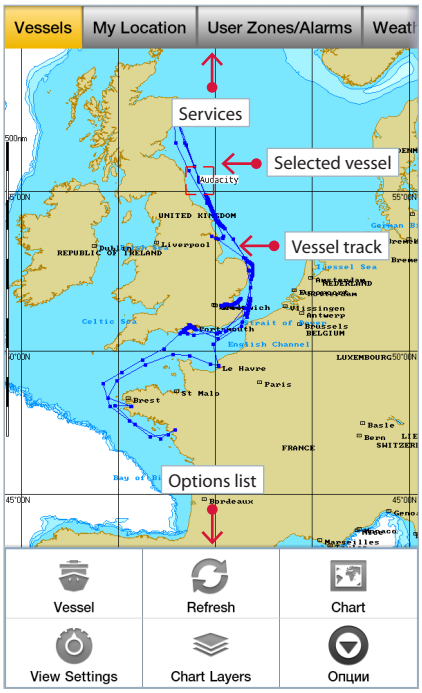
To set any point in the centner of the screen tap a point and hold it for more than 2 seconds.

Zooming chart

To increase chart scale spread the chart.

To decrease chart scale pinch the chart.

To increase or decrease chart scale you can use zoom buttons .



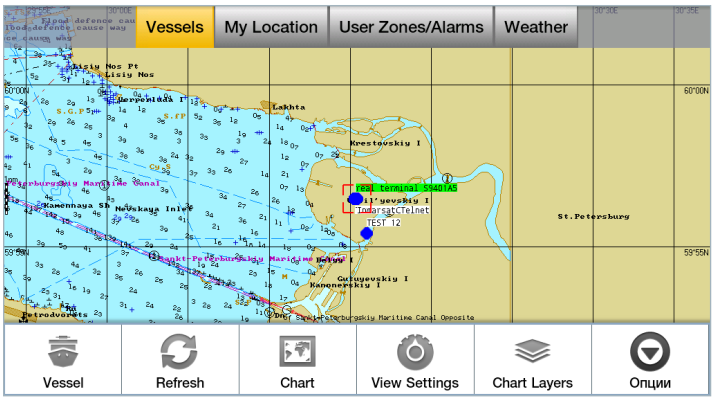
Note: Your session will be interrupted after 10 minutes of idle time.

5.2 Services

The FVO Mobile application includes **Vessel**, **User Zones** and **Weather** services in a shortened version.

In any services are available the following option buttons:

- **Chart** button opens a list of available chart types
- **Chart Layers** button opens a list of visible chart layers
- **Quit** button closes the application.



5.2.1 Vessel service

In the **Vessel** service are available the following specific buttons:

The **Vessel** button opens for the first time a list of available vessels. When any vessel has been selected, the **Vessel** button opens the following **Action** menu:

- Select Other Vessel
- Go to Selected Vessel
- Show Info
- Send Command - to send command and messages
- Show Track
- Show Track report
- Show SSAS Log
- Show OWS Log
- Show Clear View Log
- Show Fleet report

The **View Settings** button opens the list of vessel display settings to view:

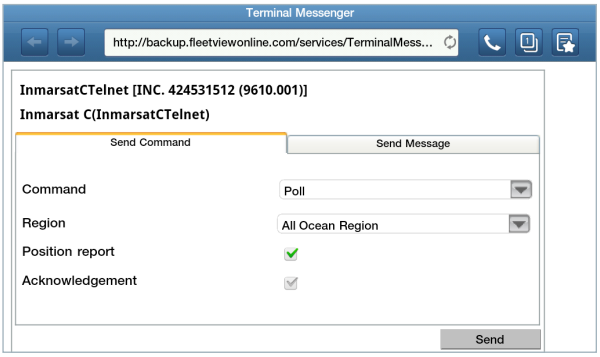
- Vessel names
- Vessel courses
- Vessel speed vector
- Tracks directions
- Tracks as GC arcs

Sending commands and messages

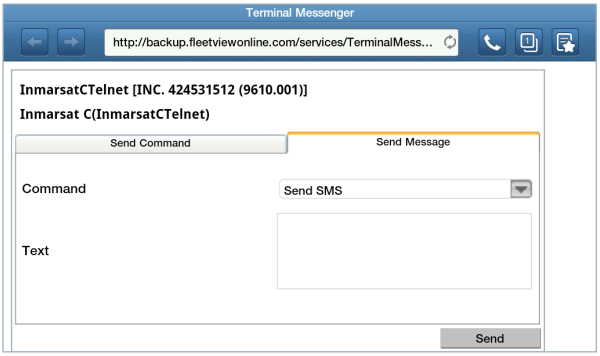
› Select the **Vessel** service

› Press Menu key. The **Action** menu opens.

› Tap the **Send Command** menu item. The browser page with the **Send Command** tab opens.



› To send message select the **Send Message** tab.



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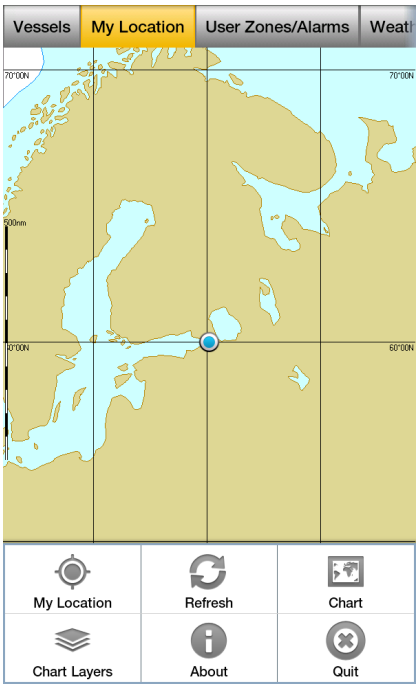
5.2.2 My Location Service

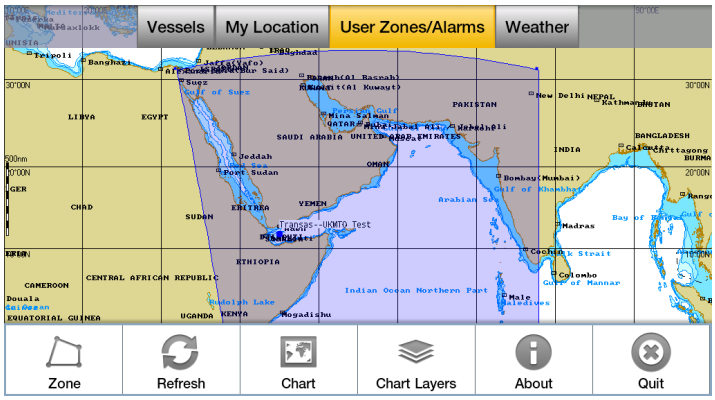


When you select this service your device determine the location and display it on the chart as a circle.

This functionality can be used in port to identify your location relative to the vessel.

The **My Location** button refreshes the location coordinates.

5.2.3 User Zone Service



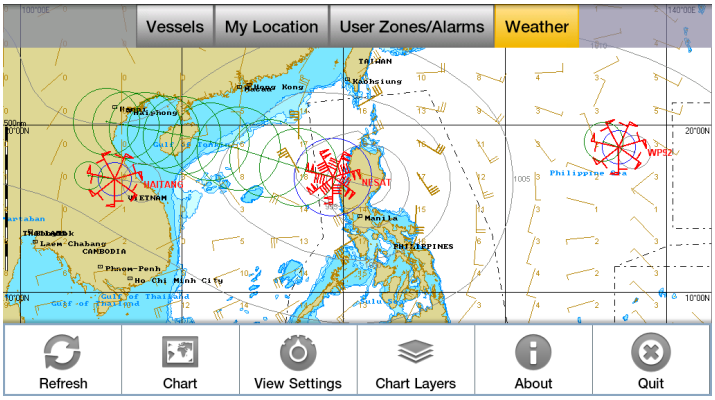
You can't create new zones in FVO mobile application. You can only view existing zones and create, activate/ deactivate, modify and delete alarms.

In the **User Zones/Alarms** service are available he following specific button:

The **Zone** button opens for the first time a list of available zones. When any zone has been selected, the **Zone** button opens the following **Action** menu:

- Select Other Zone
- Go to Selected Zone
- Create Alarm
- Deactivate Alarm
- Activate Alarm
- Modify Alarm
- Delete Alarm

5.2.4 Weather service



In the **Weather** service are available the following specific button:

The weather **View Settings** button opens the list of weather parameters to view:

- Show Weather - select this checkbox to display of weather parameters
- Wind
- Pressure
- Tropical storms

FleetViewOnline

User Manual

Version 4.2

Date of issue: June 2019

Technical support

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www.wartsila.com