

FleetViewOnline

USER MANUAL
VERSION 5.1

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Abbreviations

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
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 4xxxxxxxx format
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
SMS	Short Message Service
SOLAS	Safety of Life at 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

1. Introduction

The objective of the manual is to enable office/shore-based users of the 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:

- Control password access
- Understand various user functions and operations available from web site
- Know the difference between the administrator, power user and standard user
- Appreciate the need to pre-plan 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
- Work with Industrial Zones
- View AIS data.

1.1. Definitions

FleetViewOnline

An internet based application that supports the viewing/monitoring of vessels via the Inmarsat system, Iridium system and AIS by subscribing to the service.

The FVO is used to monitor

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

The FVO supports tracking via Standard Sat-C, mini-C, ISATM2M, ISATDATAPRO, Iridium and AIS and also the Ship Security Alert functions as required by SOLAS X1-2.

The following SSAS/Tracking hardware models are supported:

- TRANSAS 'SHIPGUARD' Version 3
- TRANSAS 'SHIPGUARD' Version 4

- POLESTAR 'DSAS Mk1' & 'DSAS Mk2'
- SATAMATICS 'OCEAN ALERT'
- THRANE & THRANE (all models)
- FURUNO (all models)
- JRC (all models)
- 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 on-board systems using a poll command.

Poll is a command sent via the LES to the ship terminal, which initiates the 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

It is advisable to use the following browsers of specified or more recent versions:

- Internet Explorer ver. 10.0
- Mozilla Firefox 41.0
- Chrome 49.0
- Safari iOS 8.

Include the following capabilities in the browser settings:

- JavaScript
- Local Storage
- Cookies.

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

It is at this point, that 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 FVO can be manipulated to suit individual company needs.

In order to control and manage the 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 users and allocate various rights to all levels of users.

The Company Administrator will therefore issue logins 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/she 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 the Slave user level makes it ideal for the issue of logins and passwords to trusted users outside the company such as vessel charterers or ships agents.

2. Using FleetViewOnline

2.1. Account Access

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



Figure 1. Login page

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.

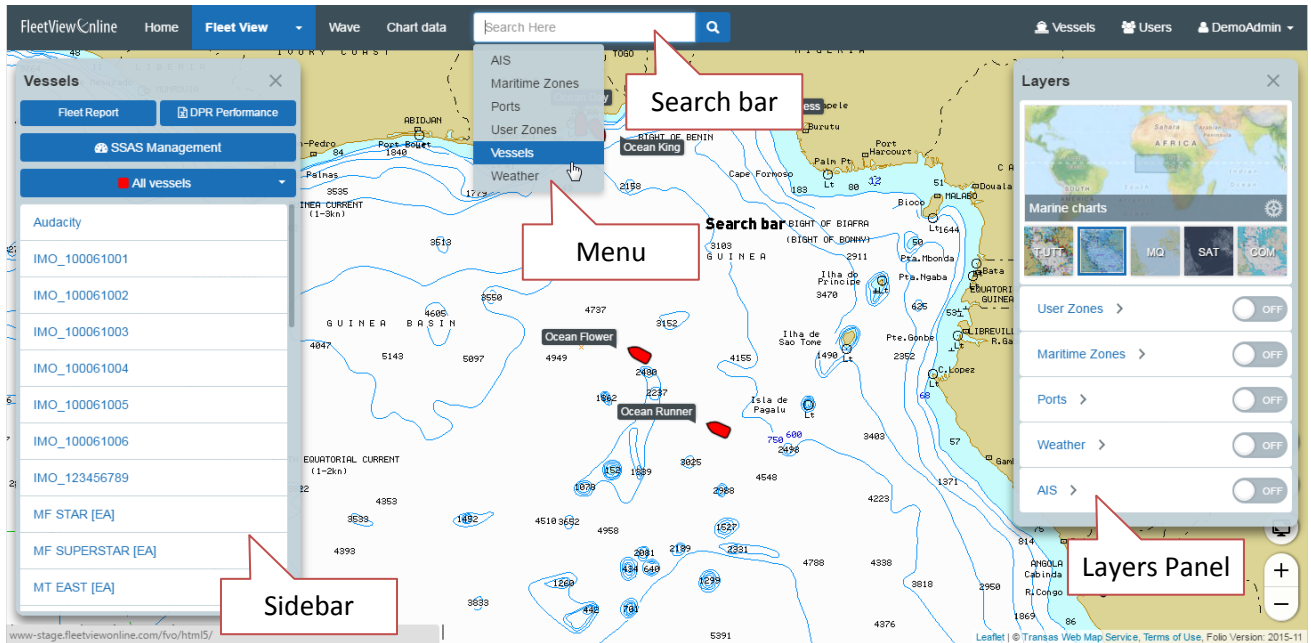
It will be for the Company Administrator to create subsequent users and issue them with their own login and password. The Company Administrator can request a login change from the Support team.

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 the Internet access can be used to login to your account.

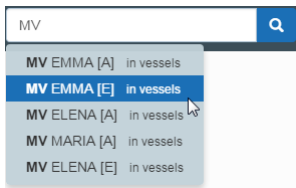
After logging on, you will have access to the various functions and features according to your rights.

2.2. Graphic User Interface



The FVO interface consists of the following parts:

Search bar – for search for a vessel or zone by its name



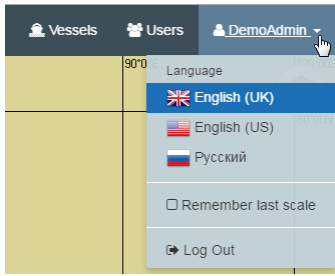
Menu – to open sidebars for setting up the following information:

- **AIS** – to display AIS data
- **Maritime Zones** – to enable/disable Maritime zones display
- **Ports** – to view port information
- **User Zones** – to create user zones
- **Vessels** - to manage vessels
- **Weather** – to view weather information

Chart area – to display charts

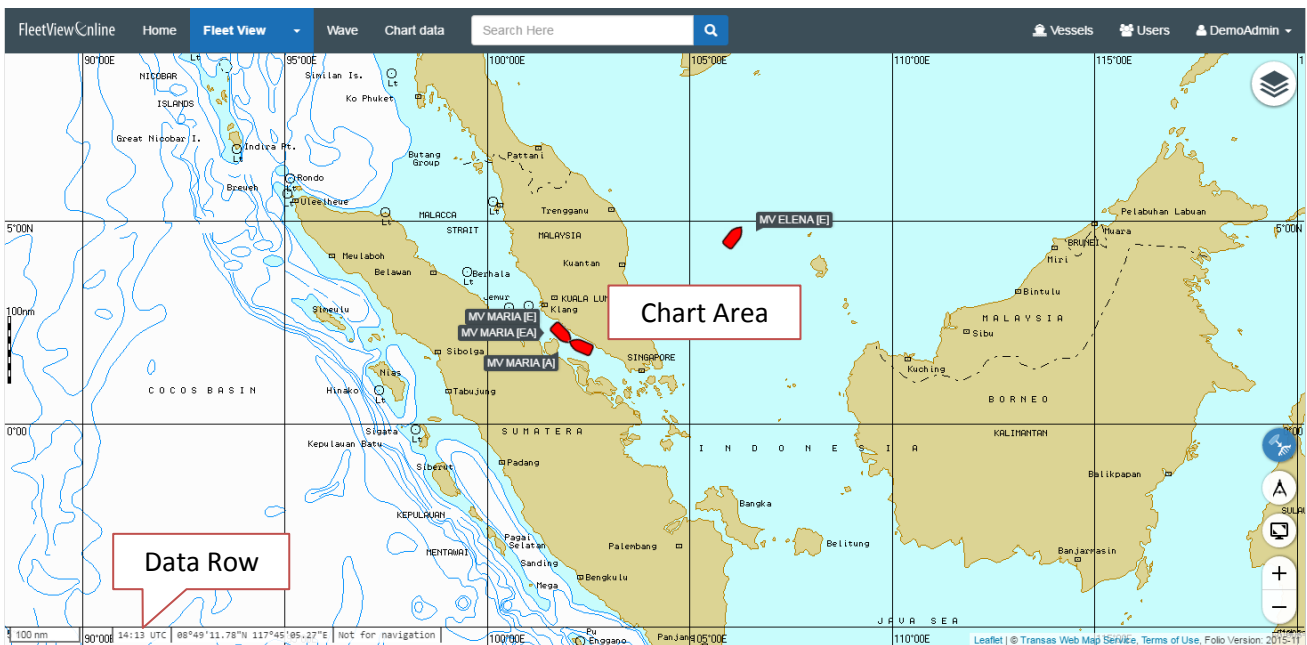
Layers panel – to set up the display of chart layers (chart overlays control sidebar)

User interface settings:






- **Language** – to select an interface language.
- **Remember last scale** – to save the last chart scale for restoring it at the next log in.
- **Log Out** – to log out of the FVO service.

2.2.1. Chart Area





In the lower left corner of the chart area there is the row with data on chart scale, current time (UTC), cursor coordinates (latitude and longitude), chart relevancy.

Icon	Icon name	Objective
	Zoom In/Zoom Out	To zoom the chart in or out
	Layers	To open the Layers control sidebar
	Distance to Shore	To calculate the ship-to-shore distance (see Chapter 2.2.4).

	Electronic Range and Bearing Line	To enable the ERBL function (see Chapter 2.2.3).
	View Fullscreen	To switch to the full screen mode
	Exit Fullscreen	To exit from the full screen mode

2.2.1.1. Chart Scaling and Shifting

To scale a chart, use one of the following procedures:





- > Use the **Zoom In/Zoom Out** icon:
 - Click the **Zoom In** icon  to increase the chart scale
 - Click the **Zoom Out** icon  to decrease the chart scale.
- > With the mouse cursor over the chart area, rotate the mouse wheel
 - Forward (push) to increase the chart scale
 - Backward (pull) to decrease the chart scale.


To shift a chart, position the mouse cursor over the chart area and drag the chart to the required position holding down the left mouse button.

2.2.2. Layers Panel

2.2.2.1. Chart Types


The **Layers** panel can be used for selecting the chart type. The following chart types are supported:

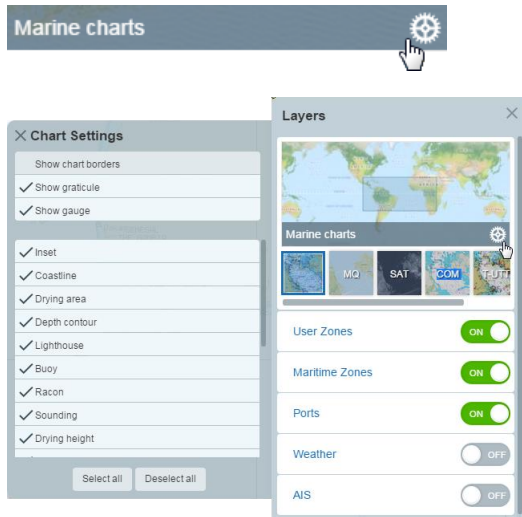
Abbreviation	Picture	Name	Comments
MAR		Marine charts	See Chapter 2.2.2.2
MQ		Map Quest OSM	
SAT		Satellite	
COM		Combined	

T-UTT		Transas Tile (UTT)	
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2.2.2.2. Marine Chart Layers

For Marine charts, the displaying of chart layers can be set.

> To set the chart layers display, click the  icon:



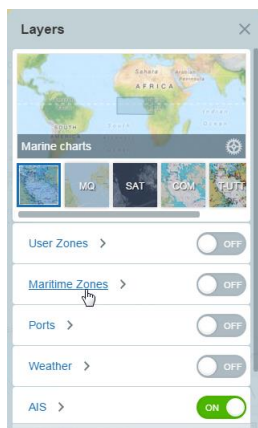
> Select checkboxes next to the names of layers to be displayed on the chart. Changes will be instantly applied.

2.2.2.3. On-Chart Display of Additional Information Layers


On the Layers panel, you can enable/disable the display of additional information layers on the chart: AIS data, Maritime Zones, User Zones, information on ports and weather.

The display of additional layers on the chart can also be enabled/disabled on the layer sidebar.

A click on the overlay name opens the sidebar corresponding to this overlay:

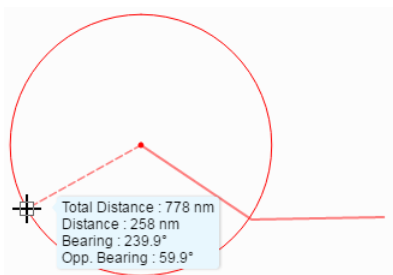



2.2.3. ERBL Function

- > Click the ERBL  icon
- > Position the cursor in the chosen start point and left-click the mouse:
- > Move the cursor to the measurement end point. The tooltip will show the distance and bearing:




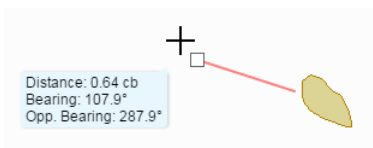
- > To measure the distance between several points, move the cursor and click the left mouse button successively on each point. The tooltip will show the total distance, the distance and bearing between the last two points:




- > > To cancel the tool selection, press the **Esc** or click the  icon.

2.2.4. Distance to Shore

- > Click the Distance-to-shore  icon
- > Position the cursor in the chosen point and left-click the mouse. The tooltip will show the bearing and range to the shore:




- > To cancel the tool selection, press the **Esc** or click the  icon.

2.3. Vessel Monitoring

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

- Track report
- Notification log
- SSAS log

2.3.1. Displaying Vessel

The own vessel position is shown on the chart with the following symbol: . The symbol color is determined by the color chosen for the currently displayed vessel group (see Chapter 2.3.2).

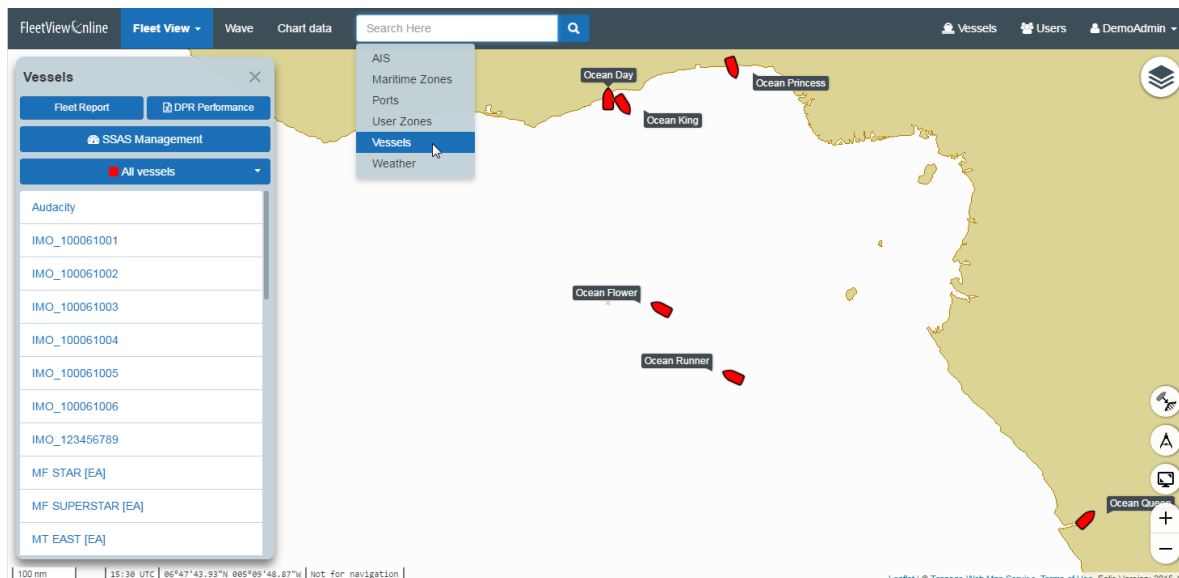
Part of labels with target names may be unseen, since in the case of the labels overlay they are displayed according to certain rules, e.g.,:

- The highest priority is set for the selected own vessel, the label is always displayed.
- The vessel with an alert status has a higher priority than a vessel in the normal state.
- The own vessel has a higher priority than an AIS target.

2.3.2. Vessels Sidebar

> To open the **Vessels** sidebar, select the **Vessels** item from the menu:

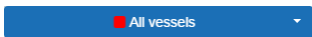
The **Vessels** sidebar will appear:



Fleet Report - to view all the information on the vessels' last reported position (see Chapter 2.3.2.1).

DPR Performance - to download an .xlsx file (Excel file format) with the DPR Performance Report (see Chapter 2.3.2.2).

SSAS Management - to open the SSAS Management page (see Chapter 2.4).



- to select a vessel group (see Chapter 2.3.2.3).

2.3.2.1. Fleet Report

A click on the **FleetReport** button opens the Fleet Report, table containing information on the most recent position reports from all the own vessels:

Fleet Report

Generated: 01/04/2016 17:29
Total Vessels: 37

« 1 2 »

Vessel Name	Date	Latitude	Longitude	COG	SOG	User Data	Pressure	Wind	Significant Wave	Wind Wave	Swell
Audacity	29/03/2016 09:28	56° 35' 56.00" N	006° 31' 33.99" W	5.0°	5 kn	ETA: 01.09.2230H	993 mb	2 m/s, 204.0°	1 m	0.1 m, 205.0°, 2 sec	1 m, 315.0°, 8 sec
MF SUPERSTAR [EA]	01/04/2016 14:14	59° 42' 55.26" N	024° 46' 20.28" E	9.0°	26.2 kn		1009 mb	3 m/s, 268.0°	0.1 m		0.1 m, 245.0°, 4 sec
MT EAST [EA]	01/04/2016 17:12	59° 42' 07.80" N	028° 15' 17.39" E	0.0°	0 kn		1009 mb	4 m/s, 296.0°	0.2 m	0.2 m, 290.0°, 2 sec	0.1 m, 270.0°, 4 sec
MT NORD [EA]	01/04/2016 13:40	69° 03' 17.13" N	033° 04' 20.55" E	66.0°	6.6 kn		1009 mb		0.5 m		0.5 m, 300.0°, 6 sec
MV ELENA [A]	05/10/2015 14:25	22° 12' 19.77" N	114° 28' 20.84" E	37.0°	11.3 kn		1015 mb	3 m/s, 108.0°	1.6 m	0.6 m, 105.0°, 3 sec	1.4 m, 130.0°, 6 sec

- > To refresh information, click the icon.
- > To export all the information in the Excel file format, click the icon.

2.3.2.2. DPR Performance Report

A click on the **DPR Performance** button initiates loading of the *DPRPerformanceReport.xlsx* file (Excel file format) with a DPR Performance Report:

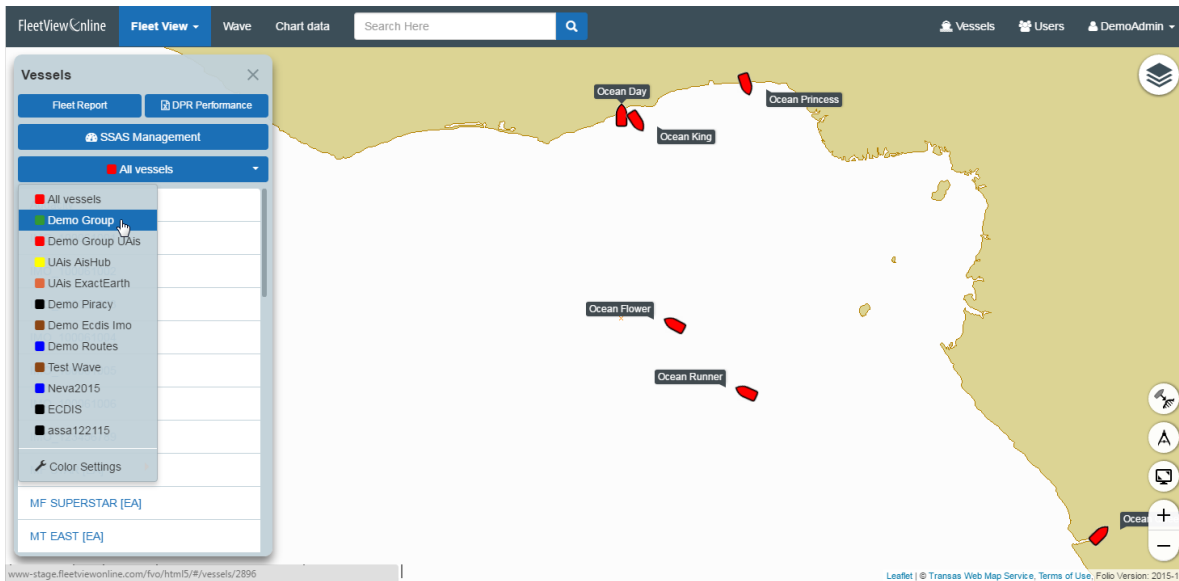
Vessel name	Terminal name	Terminal type	Requested reports per day	Expected polls	Total polls	Days of proper polling	Polling Effectiveness	01.04.16	31.03.16	30.03.16	29.03.16	28.03.16	27.03.16	26.03.16	25.03.16	24.03.16	23.03.16	22.03.16	21.03.16	20.03.16	19.03.16	18.03.16	
Audacity	INC.423443113 (8876.004)	Inmarsat C	10					0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0
OSV NEVA	TW.31159399	TransasWave	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sea Queen	TW.500686666	TransasWave	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Test Wave	TW.888995555	TransasWave	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

The report helps the owner to monitor the terminal DPR rate for the timely identification of under- or overreporting cases.

2.3.2.3. Selecting Vessel Group

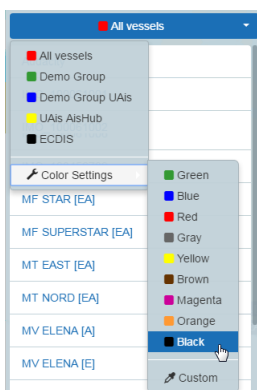
The Company Administrator creates vessel groups by using the list of registered vessels.

As a group of vessels is selected, the chart rescales so that all the vessels included in the group can be seen on it:



For a group of vessels you can choose the color for displaying symbols of the group's vessels on the chart.

> To select a color for the current vessel group, position the cursor on the **Color Settings** item:



The color can be selected from the available set of colors.

If none of the preset colors suits you, select the **Custom** menu item and select the color on your own (access to this capability is determined by the user rights):

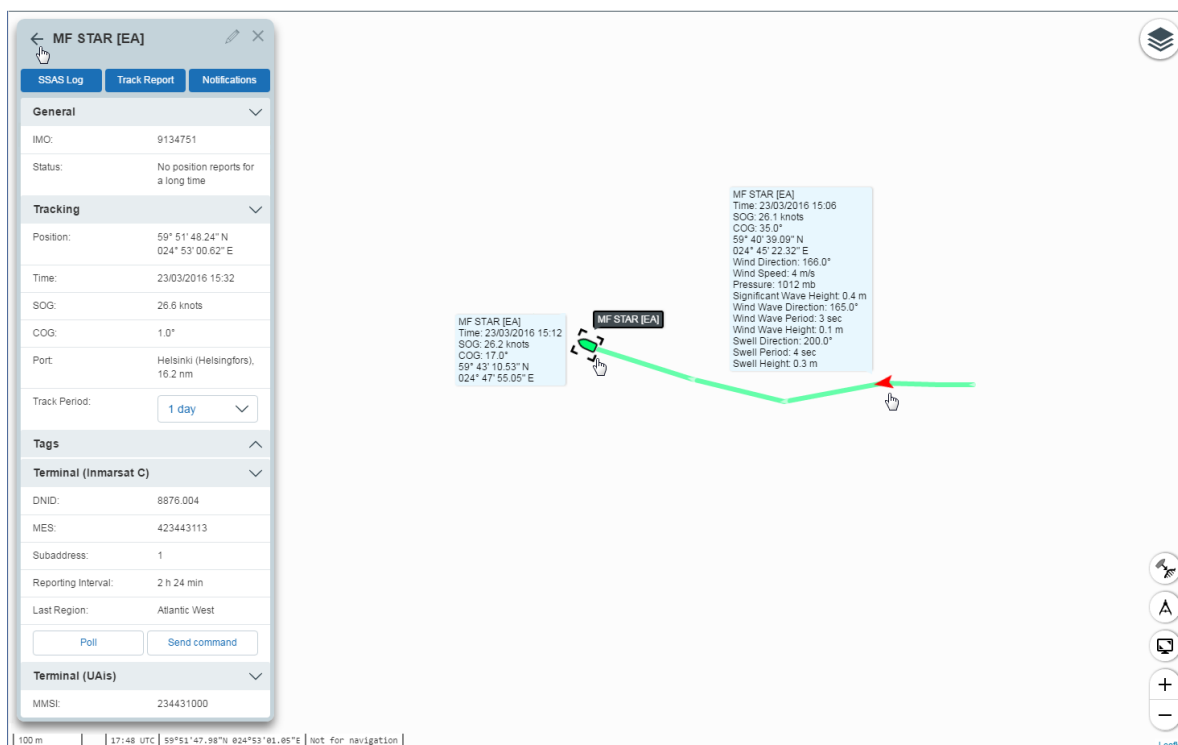



2.3.2.4. Selecting Vessel

There are several ways to select a vessel:

- by clicking the mouse on the vessel symbol or label
- from the list of vessels on the **Vessels** sidebar
- by entering the vessel name in the search line.

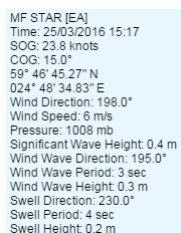
The <Vessel name> sidebar for the chosen vessel will appear:



- > To switch to the list of vessels, click on the arrow on the left of the vessel name.
- > To cancel the vessel selection, close <Vessel name> sidebar or return to the list of vessels.
- > To switch to the vessel data editing on the **Vessel details** page, click the  icon.

When the cursor is hovered over the vessel symbol or reporting point then, a tooltip with an associated position report appears. The following information is displayed on the tooltip:

- Vessel name
- Position date and time
- SOG
- COG
- Position coordinates
- Weather data (the display of weather is determined by the user rights).



The weather data may be unavailable for some other reasons not connected with user rights.

When the cursor is hovered over a track line, a tooltip with information on track interval between two reporting points appears.

The vessel name labels have different color depending of the terminal status:

Table 1. Terminal Status

Label color	Terminal Status	Priority
Sea Queen	Normal	
Ocean King	Live Alert	(1) Highest
Ocean Flower	Test Conflict. Online Test Mode is enabled and the SSAS hardware is also in TEST mode. Both cannot be active at the same time	(2) High
Ocean Day	Test Alert or test mode is activated	(3) Medium
Ocean Runner	SSAS module is OFF / No power supply on terminal	(4) Low
Audacity	No position reports for a long time. The terminal has not sent any position reports within more than the double time interval	(5) Lowest

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

The sidebar includes the following sections:

SSAS Log

- click this button to view the SSAS log (see Chapter 2.3.2.7)

Track Report

- click this button to view the vessel Track report (see Chapter 2.3.2.8)

Notifications

- click this button to view the vessel Notification log (see Chapter 2.3.2.9)

General

IMO – IMO number

Status – terminal status (see Table 1. Terminal Status). The Normal status is not displayed.

Tracking

The last received data on the vessel position time and date, its SOG, COG, position coordinates and port of destination is displayed.

Track Period – to select the displayed track length (from 1 day to 3 months). Selecting **No track** hides the vessel track display.

Tags


The **Tags** functionality enables vessel information to be added manually (see Chapter 2.3.2.5). On request, information from the customer server can be displayed here, which would require some additional development.

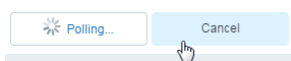
Terminal (Inmarsat C)


Poll

Send command

Poll

A click on the  button sends the Poll command to the terminal. During the time of waiting for the terminal response, the button assumes the following form:



To cancel the Poll command, click the  button.

The Poll command is sent to the region last requested for this terminal. In the case of failure, the second Poll command is sent to All regions.

The time of waiting for the position after the Poll command has been sent is as follows:

- InmarsatC - 300 s
- InmarsatDp - 180 s
- BlueTracker - 300 s
- Iridium - 300 s
- ThraneFleetBroadband - 30 s
- IsatDataPro - 90 s.

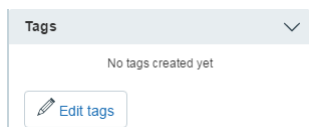
Send command (see Chapter 2.3.2.6)

Terminal (UAIs)

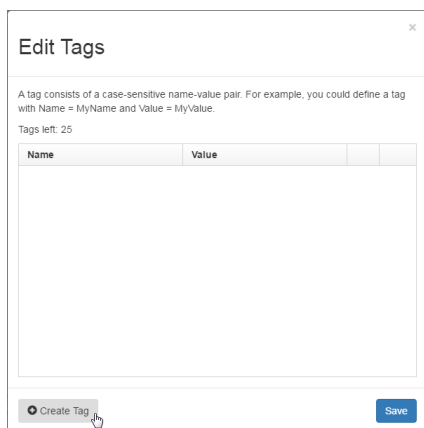
MMSI – the vessel MMSI.

2.3.2.5. Editing Tags

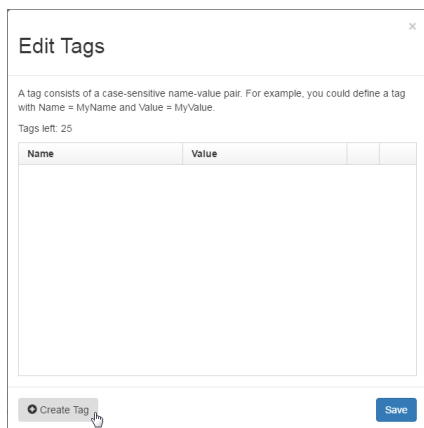
To edit the set of tags, click the **Edit tags** button.



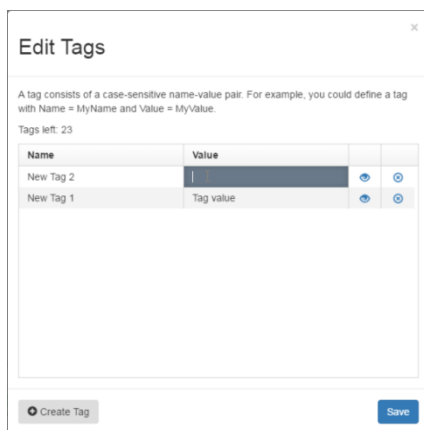
The list of tags appears:




To add a new tag, click the **Create Tag** button. The new tag row appears:

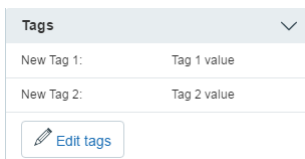


To edit the tag name or value, click the tag row:



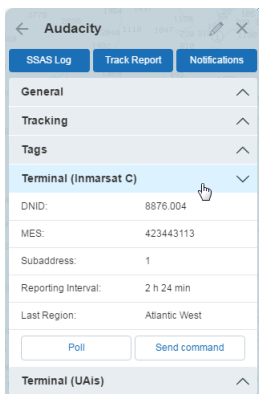
> To display/hide a tag on the **Vessels** sidebar, click the  symbol.

- > To delete a tag, click the  symbol
- > To save tags, click the **Save** button. Tags will be displayed on the **Vessels** sidebar:

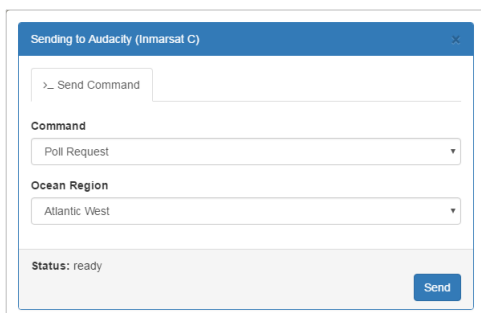


2.3.2.6. Polling

- > On the **<Vessel name>** sidebar, for the selected vessel expand the **Terminal (model)** row and click the **Send command** button:

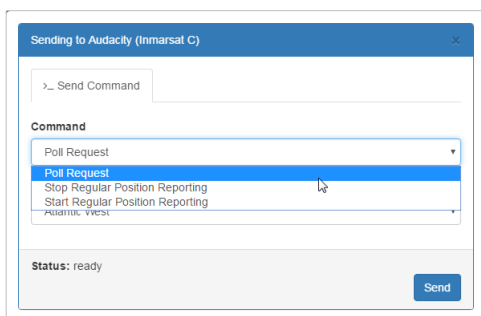


The **Sending to <Vessel name> (Terminal model)** window appears:



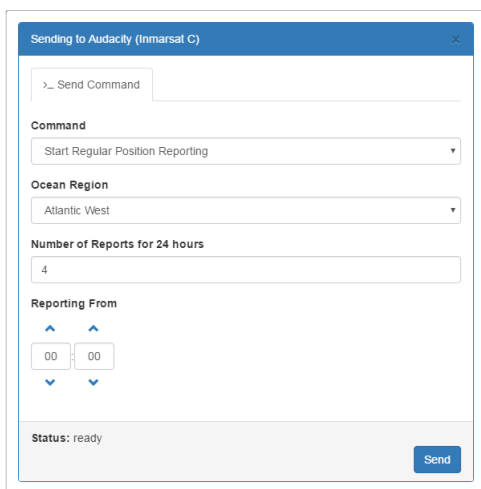
The appearance of the window and set of commands depend on the terminal type. Here and below, the commands for the Inmarsat C terminal are presented.

- > Select the command:



Poll Request – to request for the vessel position.

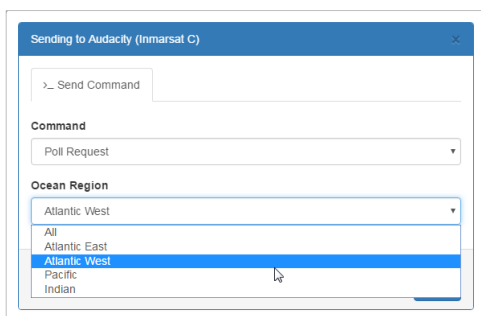
Start Regular Position Reporting – to configure the terminal for the automatic sending of the vessel position.



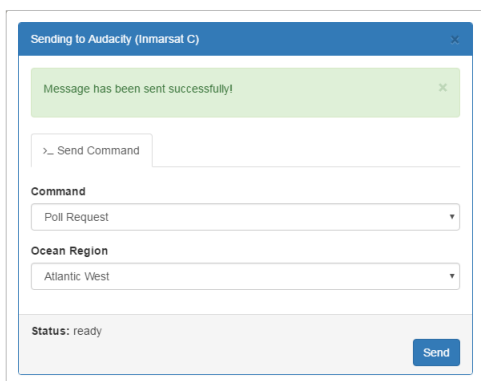
The command sending sequence is as follows: Stop Poll, Program Poll, Start Poll.

Stop Regular Position Reporting – to stop sending of the vessel position reports:

- > Select the ocean region to send the command to:



- > Click the **Send** button. The “Message has been sent successfully” message appears:

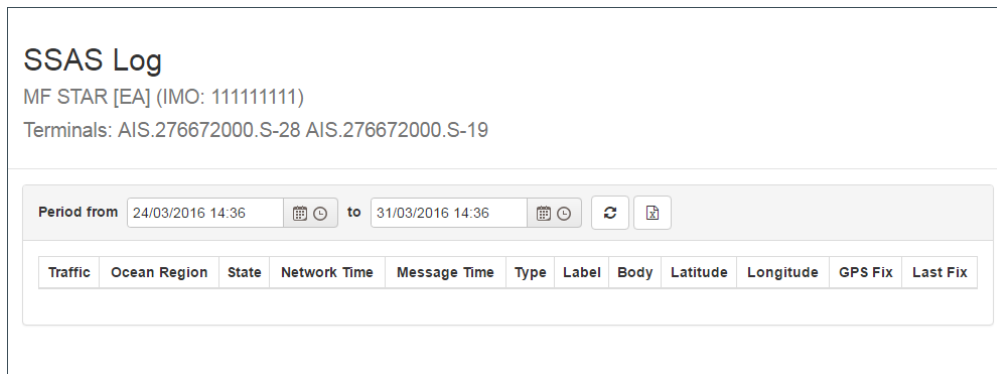


- > Close the messaging window and go to the SSAS log to wait for a response from the hardware.

The response time varies from 2 to 30 minutes (average of 5 minutes) depending on hardware type. For the IsatM2M (former D+), FBB and IsatData Pro terminals, the time is about 2 minutes, for the Inmarsat C terminals time is up to 30 minutes.

2.3.2.7. 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 Email/SMS text messages:





- > To change a time interval, enter new data and time in the **Period from ... to** fields and click the  icon.
- > To export all the information in Excel file format click the  icon.

Table 2. Explanation of SSAS Log columns

Incoming	Identifies if the message is to or from the 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 the vessel has responded, e.g. ‘Sent’, ‘ACKN’ (acknowledgment of the message receipt)
Network Time	Message processing time on the FVO server (time is in UTC)
Message Time	Date and time of the 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 (available in java version), 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 a GPS Fix and ‘No’ if the GPS satellite lock has been lost
Last Fix	If the GPS Fix is ‘No’, then the number of hours (up to value 8) since the last

2.3.2.8. Track Report

Vessel track report is a vessel motion trajectory in the tabular form for the chosen period:

Track Report

MF STAR [EAJ] (IMO: 111111111)

Terminals: AIS.276672000.S-28 AIS.276672000.S-19



Period from to

Average Speed: 7.6 knots

10 25 50 100

« 1 2 3 4 5 6 7 ... 44 »

Terminal	Date	Latitude	Longitude	COG	SOG	Average Speed	Pressure	Wind	Significant Wave	Wind Wave	Swell
AIS.276672000.S-19	31/03/2016 15:03	59° 31' 15.51" N	024° 43' 34.83" E	163.0°	25.6 kn	26.4 kn	1005 mb	3 m/s, 252.0°	0.1 m		0.1 m, 245.0°, 4 sec
AIS.276672000.S-19	31/03/2016 14:58	59° 33' 19.29" N	024° 41' 56.55" E	167.0°	24 kn	26.5 kn	1005 mb	3 m/s, 250.0°	0 m		
AIS.276672000.S-19	31/03/2016 14:53	59° 35' 23.85" N	024° 40' 18.28" E	151.0°	24.4 kn	25.2 kn	1005 mb	3 m/s, 250.0°	0 m		
AIS.276672000.S-19	31/03/2016 14:48	59° 37' 29.35" N	024° 40' 29.04" E	208.0°	24.3 kn	25.9 kn	1005 mb	3 m/s, 248.0°	0 m		

- > To change a time interval, enter new data and time in the **Period from ... to** fields and click the  icon.
- > To export all the information in the Excel file format, click the  icon.

2.3.2.9. Notification Log

The Notification log contains information on the sending of alert messages for the Maritime zones and User zones (entrance, exit, approach, move away and intersection of a zone border), if the alerts for zones were created.

Notifications Log



MF STAR [EAJ] (IMO: 111111111)

Terminals: AIS.276672000.S-28 AIS.276672000.S-19

Period from to

10 25 50 100

Generation Date	Alarm Type	Latitude	Longitude	Position Time	Sent Mail	Sent SMS To
30/03/2016 14:34	Approach to zone	59° 46' 22.47" N	024° 47' 40.68" E	30/03/2016 14:33	mmm@mail.com;abc@mail.com	
30/03/2016 11:22	Approach to zone	59° 41' 11.42" N	024° 45' 11.62" E	30/03/2016 11:21	mmm@mail.com;abc@mail.com	
30/03/2016 05:11	Approach to zone	59° 41' 43.56" N	024° 45' 43.44" E	30/03/2016 05:10	mmm@mail.com;abc@mail.com	
29/03/2016 20:26	Approach to zone	59° 45' 54.78" N	024° 47' 33.09" E	29/03/2016 20:25	mmm@mail.com;abc@mail.com	
29/03/2016 17:08	Approach to zone	59° 41' 52.63" N	024° 45' 35.37" E	29/03/2016 17:08	mmm@mail.com;abc@mail.com	
29/03/2016 14:32	Approach to zone	59° 44' 04.72" N	024° 47' 51.20" E	29/03/2016 14:32	mmm@mail.com;abc@mail.com	

- > To change a time interval, enter new data and time in the **Period from ... to** fields and click the  icon.
- > To export all the information in the Excel file format, click the  icon.

2.3.3. AIS Data

2.3.3.1. 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 vessel’s relation with which is based on the mutual exchange of data. The coverage of the AISHUB service is presented at <http://www.aishub.net/aiscoverage.html>.

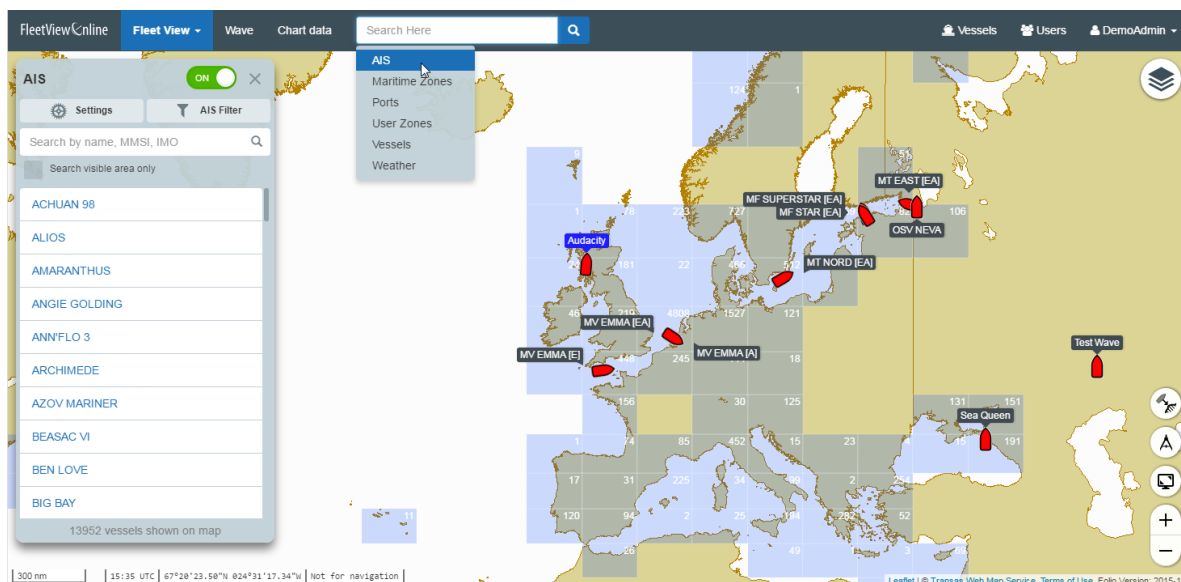
In the future, other commercial or private services can be connected at user’s request.

2.3.3.2. Viewing AIS Targets

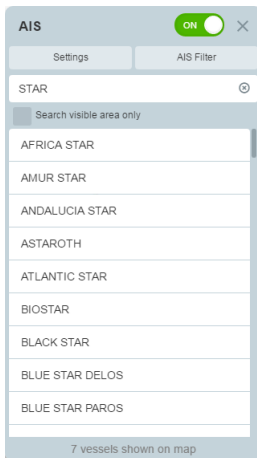
To show the **AIS** sidebar, select the **AIS** item from menu.

Enable the AIS overlay using the **ON** slider.

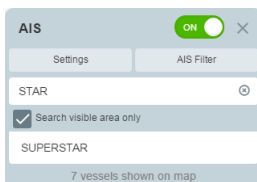
Clustering mechanism is used for the display of the AIS data. A rectangle with a digit shows the number of AIS targets currently within it:




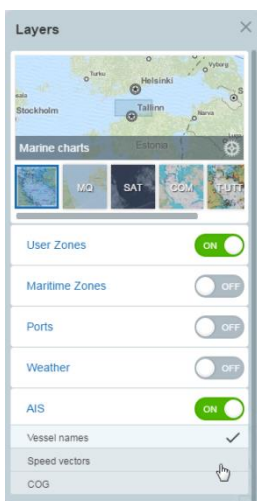
- > To find an AIS target on the **AIS** sidebar, use the **Search by name, MMSI, IMO** search line. Search is made as the characters are entered in the line. When the selection is completed, only the names of the chosen vessels remain on the list. Selection is retained upon the closing of the **AIS** sidebar.



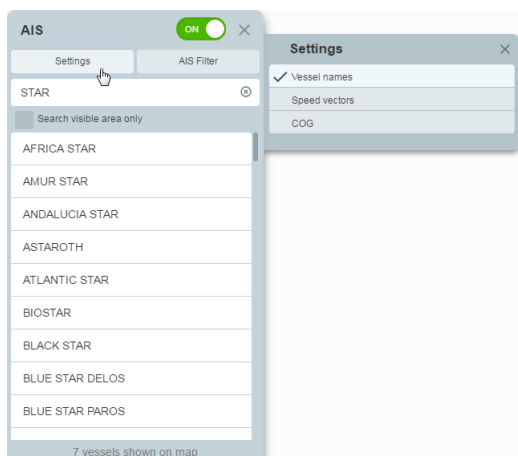
Search visible area only – select the checkbox for the search to be made only among the vessels visible in the selected chart fragment:







- > For the list to display all the vessels again, click the  symbol:
- > For the on-chart display of the Vessel name, Speed vector and COG for an AIS target, select checkboxes for each of these parameters on the **Layers** sidebar. These parameters appear on the sidebar when the AIS layer display is enabled:




Or click the **Settings** button on the **AIS** sidebar:

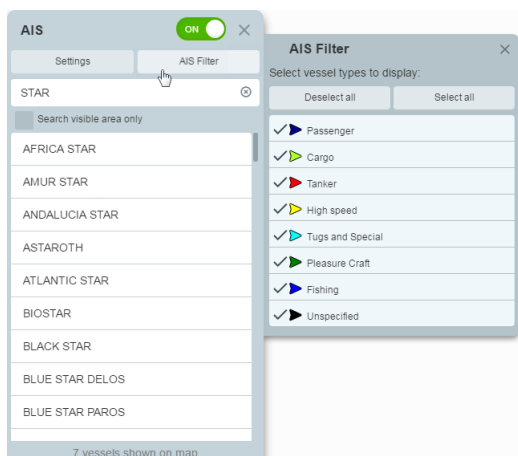


The AIS target is shown as follows: ,  or 

If the AIS data has not been updated for more than 20 minutes, the brightness of the AIS target symbol will be reduced: 

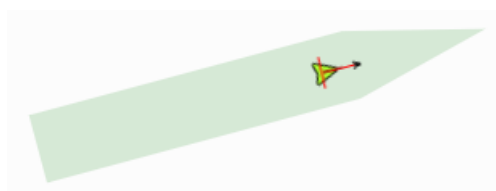
The  symbol is used for a vessel not underway.

The color of an AIS target symbol is determined by the vessel type:



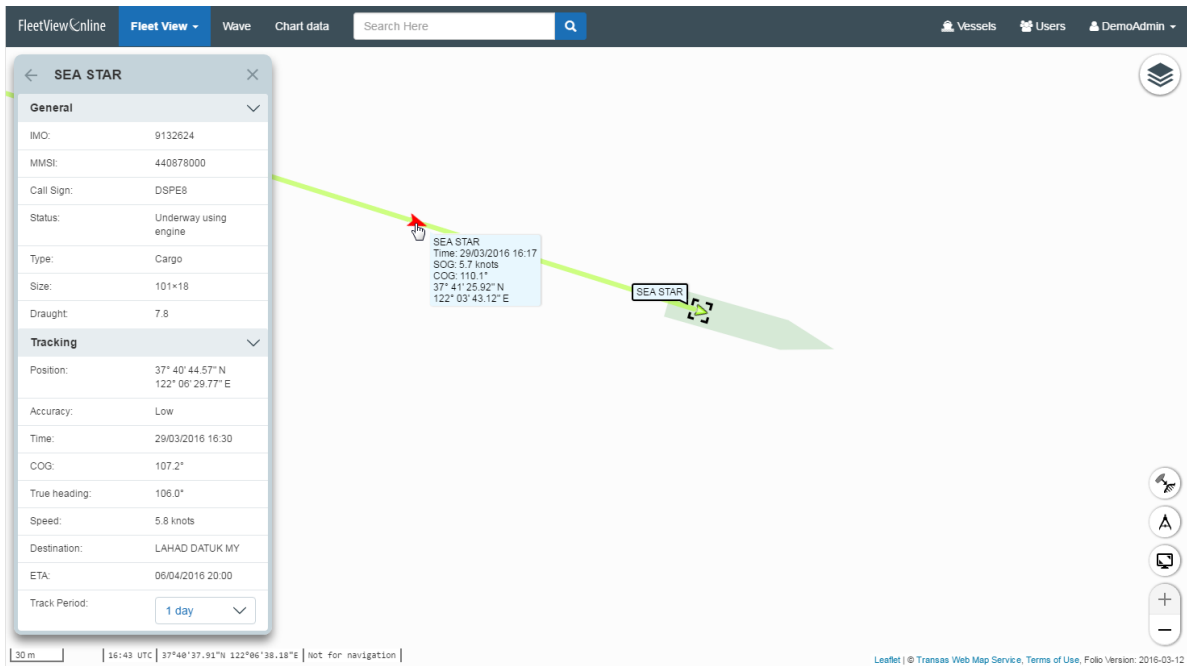
The vessel contour appears on a larger scale. The direction of the vessel contour bow is shown in keeping with the True Heading value, or COG if the True Heading data is not available.

As the vessel contour is drawn, the vessel symbol is set in the AIS transponder position.



When an AIS target is selected, the chart displays the vessel track over a period of one day. For the AIS target track not to be displayed, from the **Track Period** dropdown list select the **No Track** value.

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



General – AIS target static data

Status – can assume the following values:

- Underway using engine
- At anchor
- Not under command
- Restricted maneuverability
- Constrained by draught
- Moored
- Aground
- Fishing
- Underway sailing
- Towing astern
- Towing alongside
- AIS_sart
- Undefined – incorrect status or no status supplied.

Tracking – AIS target dynamic data

Position – coordinates of the most recent position report

Accuracy – position accuracy on a sensor

Time - time of the most recent message receipt

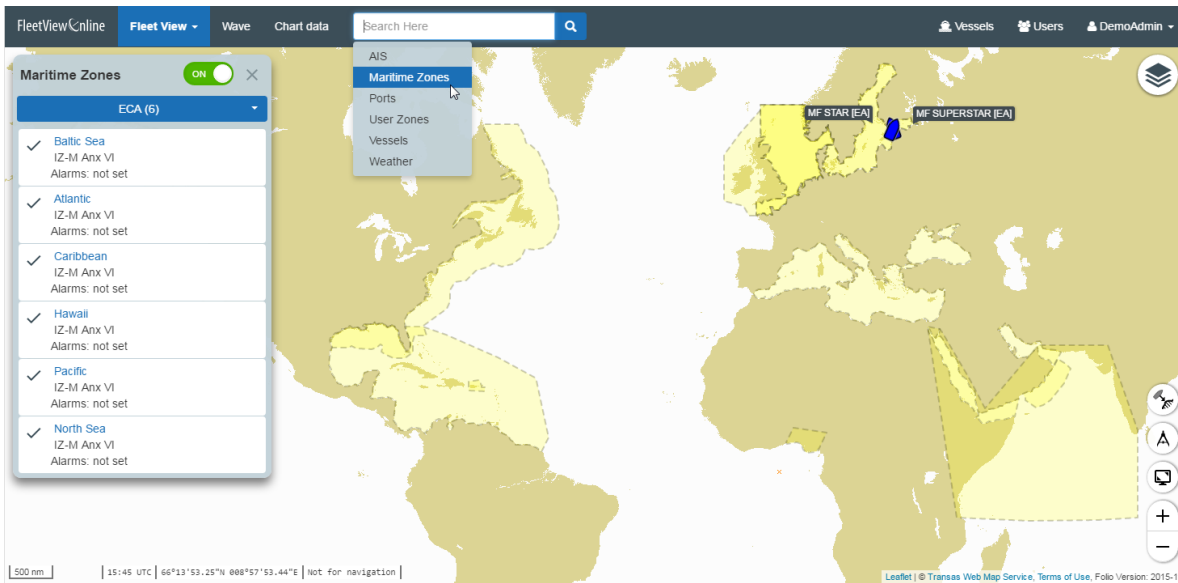
ETA - estimated time of arrival at the port of destination. The symbol's red colour means that the ETA is not updated:



2.3.4. Maritime Zones

Maritime zones are defined by international conventions. Data for the Maritime zones is supplied from public information sources.

- > To show the **Maritime Zones** sidebar, select the **Maritime Zones** item from menu.
- > Enable the Maritime Zones overlay using the slider.

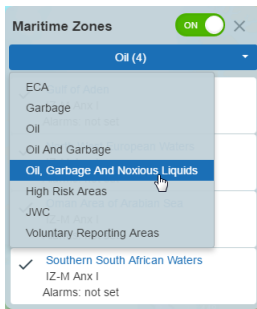


2.3.4.1. Maritime Zone Types

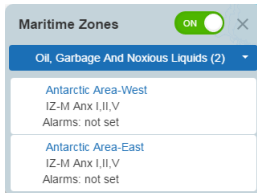
The following types of Maritime zones are provided:

- ECA (Emission Control Area)
- Garbage
- Oil
- Oil and Garbage
- Oil, Garbage and Noxious Liquids
- High Risk Area
- JWC (Lloyd's Joint War Committee)
- Voluntary Reporting Areas.

The zone type can be selected from the dropdown list on the **Maritime Zone** sidebar:



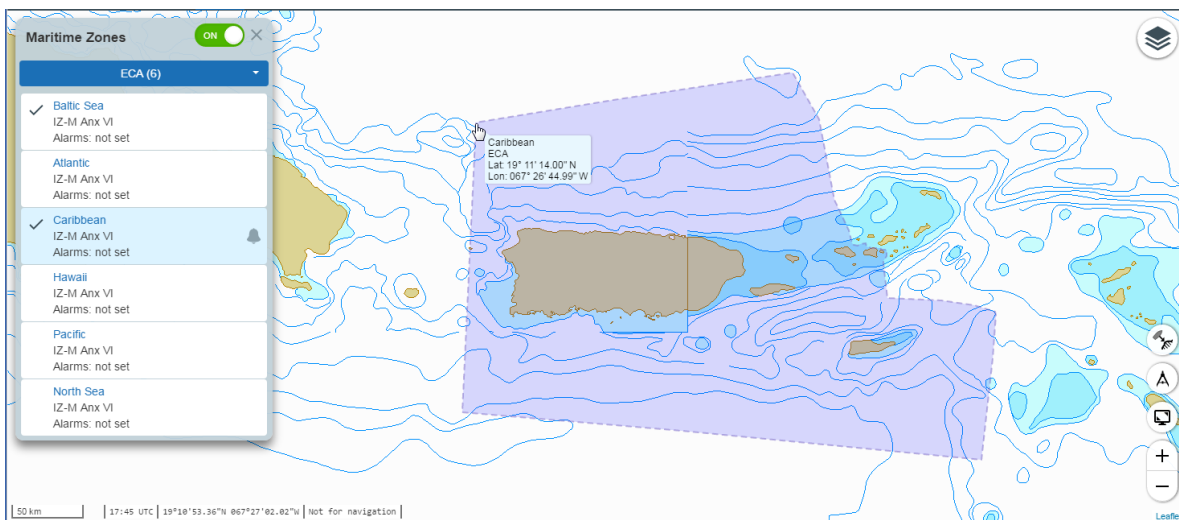
The list of the selected type will appear:



2.3.4.2. On-Chart Display of Zones


- > To enable the zone display on the chart, on the **Maritime Zone** sidebar, select the checkbox on the left of the zone name. Zones will appear on the chart and will be highlighted in yellow.
- > To focus on a zone, on the **Maritime Zone** sidebar click the row with the name of this zone. The selected zone is highlighted in lilac.
- > The zone on the chart can be selected with a mouse click. The selected zone row will be highlighted on the **Maritime Zone** sidebar.

If the cursor points on the corner of the Maritime zone polygon, the zone name and the corner latitude and longitude appear in the tooltip:



2.3.4.3. Maritime Zone Alarms

For a Maritime zone it is possible to set alarms for informing the shipping company of the instances of entrance, exit, approach, move away and intersection of a zone border.

To view and edit the Maritime zone alarms, click the  symbol on the right of zone name. For details of creating and editing alarms see Chapter 2.3.5.1.3.

2.3.5. User Zones

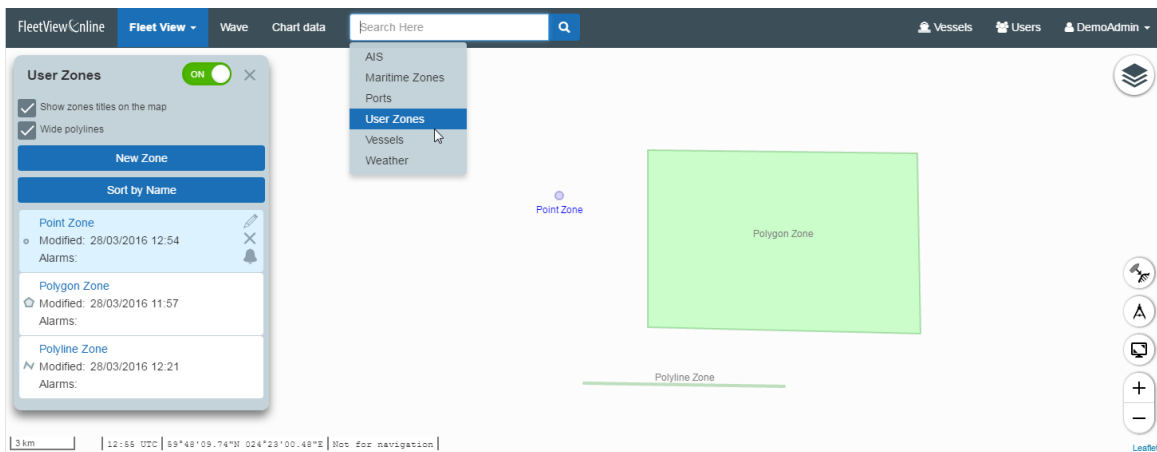
User zones are overlaid on the geographic maps and permit tracking the vessels approach to the zone and the move in and move away intersection of the zone border.

User zones are visible only for user who created them.

2.3.5.1. Creating User Zones

To show the **User zones** sidebar, select the **User Zones** item from the menu.

Enable User zones overlay using slider




There are three types of zones:


- Polygon
- Polyline
- Point.


On the list of zones, the zone type is indicated by an icon on the left of the zone name.


Show zone titles on the map – to show the zone name.

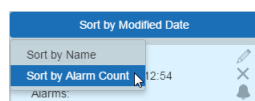
Wide polylines – to widen polylines for better view.

 - to edit the selected zone (see Chapter 2.3.5.1.2).

 - to delete the selected zone

 - to set alarms for the selected zone (see Chapter 2.3.5.1.3).

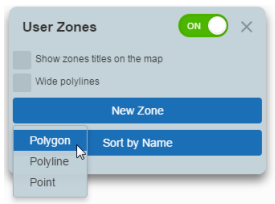
 - type of zones sorting: by name, modification data or alarm count:



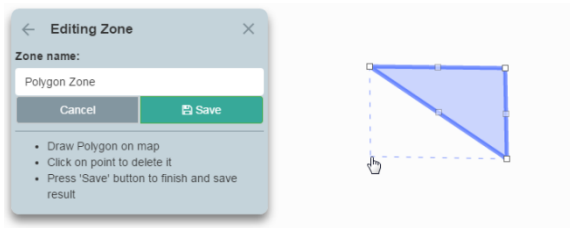
2.3.5.1.1. Creating User Zone

To create a user zone use the following procedure:

> Click the **New Zone** button and select the zone type:

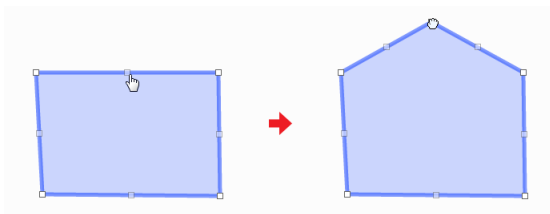


> Draw a zone on the chart:

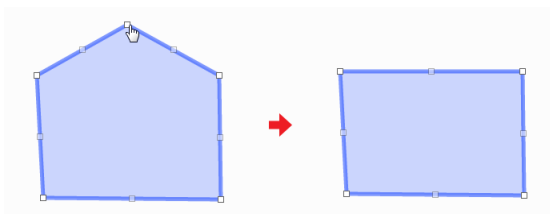


> To complete the drawing, click on the last point.

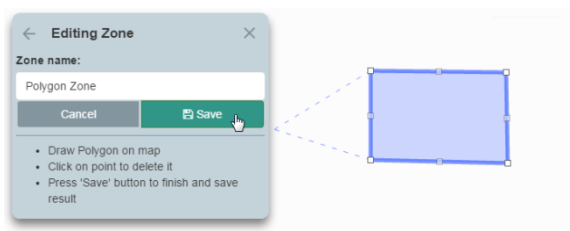
> To add a point between two points, click and drag the light grey point in the middle of the line:



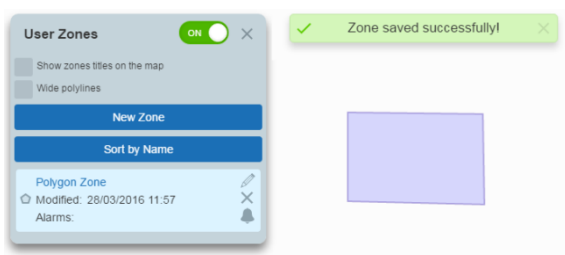
> To delete a point just click on this point:



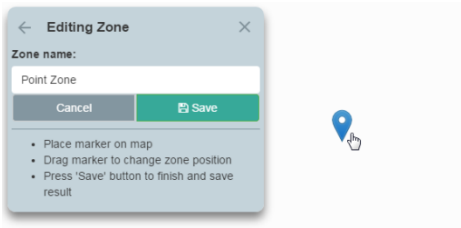
> Click the **Save** button to save the zone:




The "Zone saved successfully!" message appears:

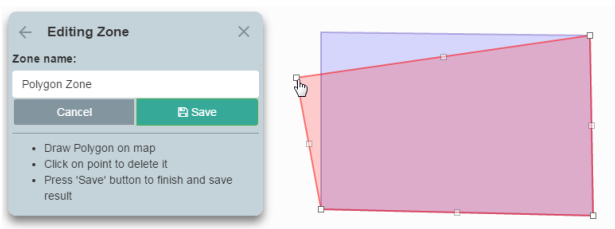
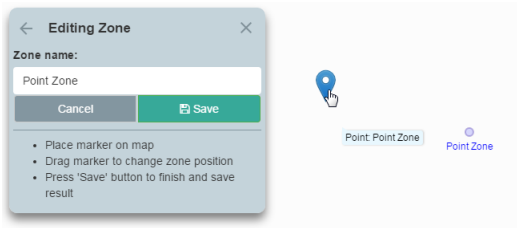


When a Point type zone is created, the  symbol appears, it can be moved:



2.3.5.1.2. Editing User Zone

> To edit a zone, click the  button. On the chart, the selected zone will be focused on:




> Edit the zone position and click the **Save** button.

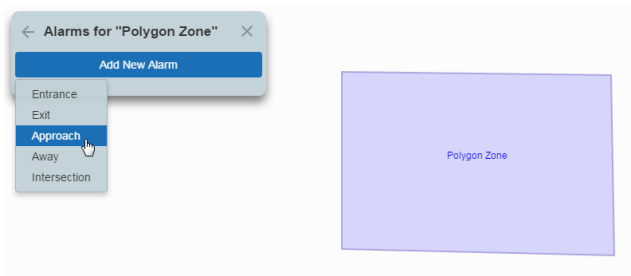
2.3.5.1.3. Creating Alarm and Receiving Notifications

For a User zone, it is possible to sets alarms for informing the shipping company of the instances of entrance, exit, approach, move away and intersection of a zone border.

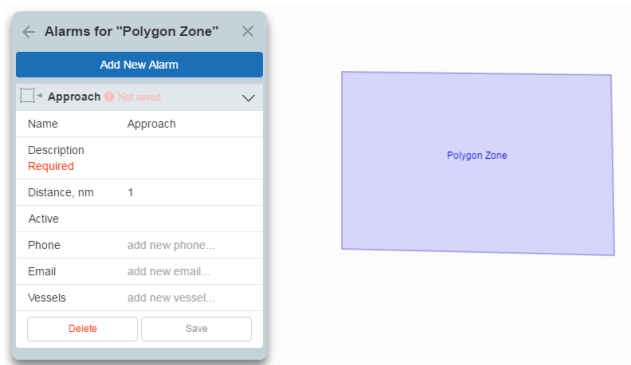
The following alarms are available for the User zones:

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

> To add a zone alarm click the  button. On the chart, the selected zone will be focused on:



- > Click the **Add New Alarm** button and select the zone type. A sidebar for setting the zone parameters will appear:



Name – alarm name that will be used in the report

Description - text of the message that will be sent upon the alarm generation

Distance – distance for Away and Approach alarms

Active – live alarm indication

Phone – list of phone numbers [country code][subscriber number including area code].for sending a message upon the alarm generation. Enter phone numbers in the same way as Email addresses (see below)

Email – list of Email addresses for sending a message upon the alarm generation

- Click on the **Email** row and enter (or select from the list) the Email address:

Email

Email

- If several addresses are required to be specified, click the **+** button:

Email **+**

- The entered address will be added to the list, and it will be possible to enter the next address:

Email

Email

- If it is necessary to delete an address from the list, click the **×** button (the button appears with the cursor hovering over):

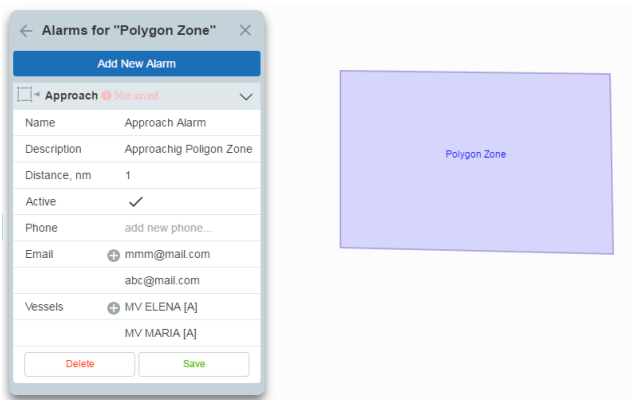
Email

Email **×**

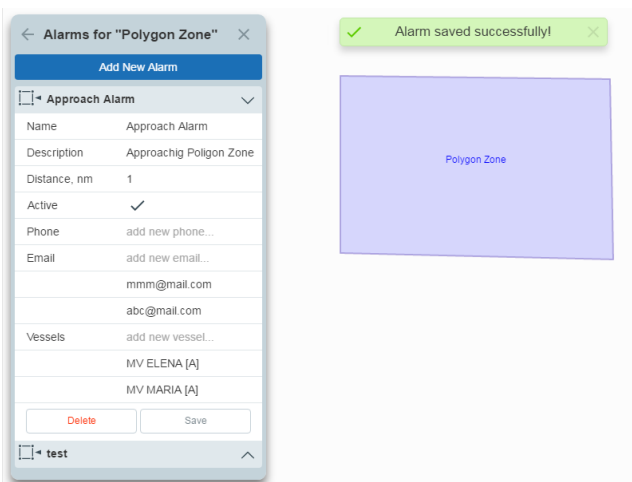
Vessels – list of vessels for which the alarm is generated.

- Click on the **Vessels** row and enter the vessel name, or select it from the list. The list management is similar to that of the **Email** list.

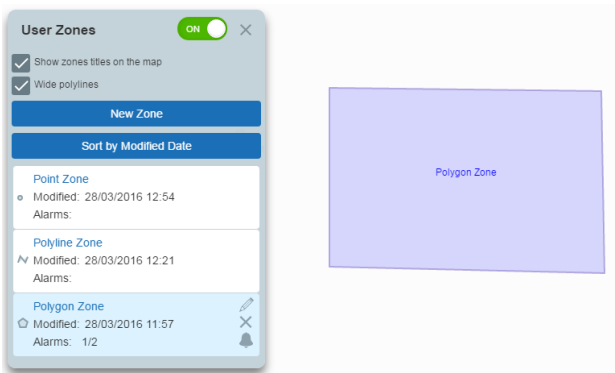
After all the necessary parameters have been entered, the **Save** button is activated:



- > To save the alarm settings, click the **Save** button. The “Not saved” notation next to the alarm name will disappear.

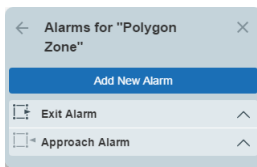


- > To delete an alarm, click the **Delete** button.
- > To return to the list of zones, click on the arrow in the top left corner.



The **Alarms** row will specify the number of active alarms and, “/”- separated, the overall number of alarms for the zone.


On the list of alarms for a zone, active zones are marked on the left with brighter icons:

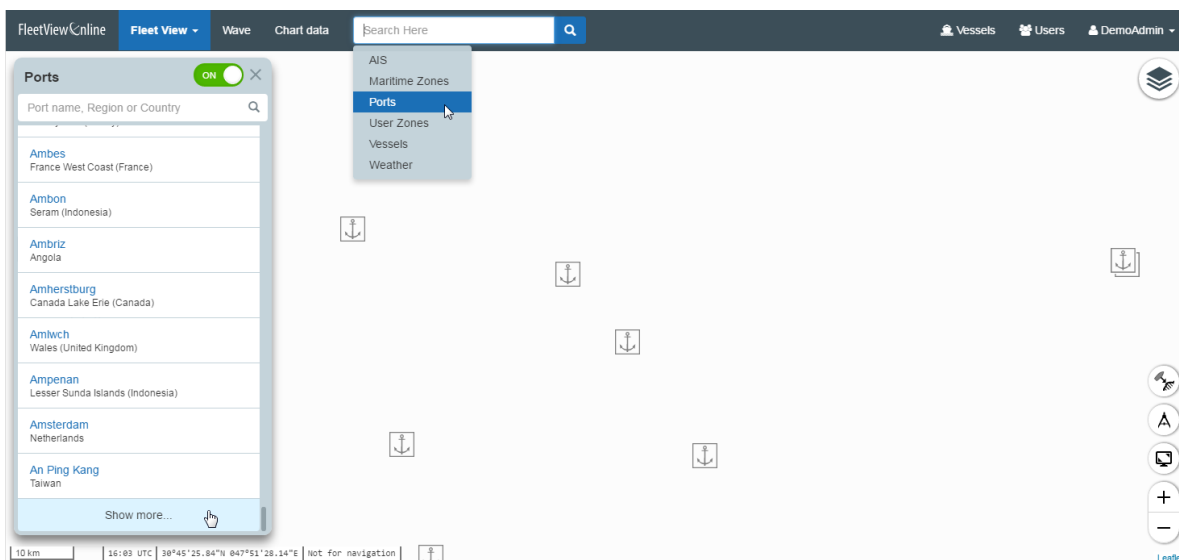



2.3.6. Ports



The **Ports** service permits obtaining information on ports. The source of information is the Guide to Port Entry edition of 2008.

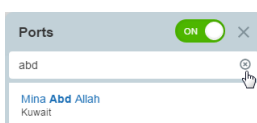
- > To show the **Ports** sidebar, select the **Ports** item from the menu.
- > Enable the **Ports** overlay using the slider.
- > To scroll the ports list, click the **Show more...** button at the bottom of the list.

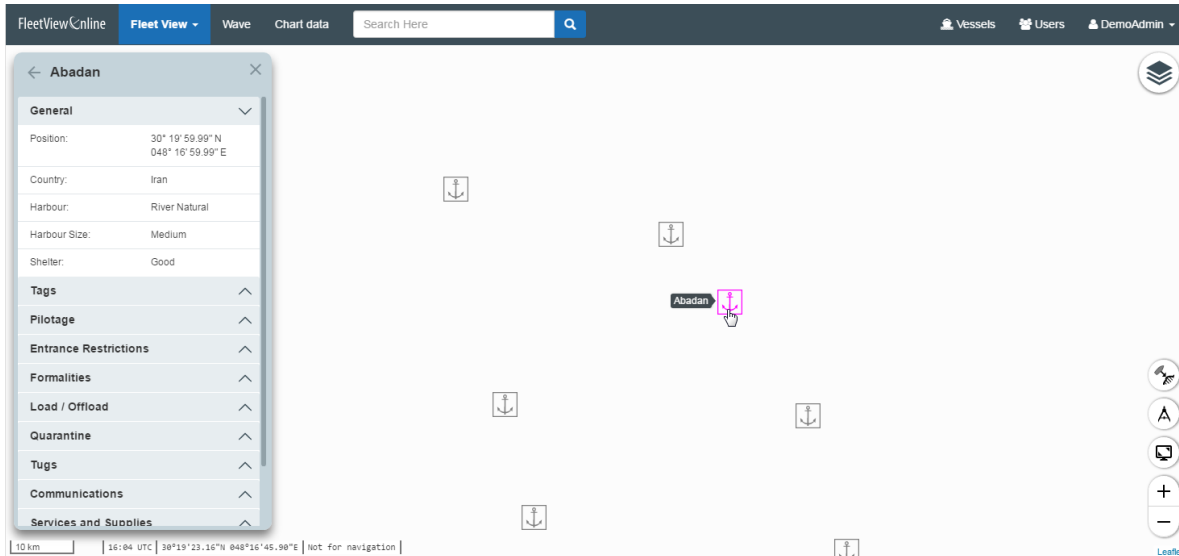
The ports are displayed as symbols of anchor within a square :




Clustering mechanism is used for the display of port symbols. If on the selected chart scale port symbols are close to each other, they merge and form a single  symbol.

- > To see all the ports, click the  symbol. The scale chart will be increased so that each port can be seen.
- > On the **Ports** sidebar, to find a port on the list, use the **Port name, Region or Country** search line. Search is made as characters are entered in the line. When the selection is completed, only the selected port symbols are displayed. The selection is retained upon the closing of the ports sidebar.
- > For the chart to display all the ports again, click the  button:





To display information on the selected port, click the port symbol on the chart or in the port name row on the **Ports** sidebar. On the chart, the selected port will be focused on and marked with the  symbol.

The port name appears in the tooltip if the cursor hovers over the symbol of single port.

There are the following groups of port characteristics and features:

- General
- Pilotage
- Tags - possibility to add tags in the same way as the tags on **Vessels** sidebar (see Chapter 2.3.2.5)
- Entrance restrictions
- Formalities
- Formalities
- Load/offload
- Quarantine
- Tugs
- Cranes and lifts
- Communications
- Services and suppliers
- Other

Groups of port characteristics and features are not displayed unless there is data for the port under consideration.

The checkbox on the right of the option name is selected if the option is available, cleared if the option is disabled and not displayed if there is no information on this option.

2.3.7. Weather

The **Weather** service allows obtaining information on weather. The source of weather information is MeteoGroup.

The weather forecast is issued:

- for five days ahead
- 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.

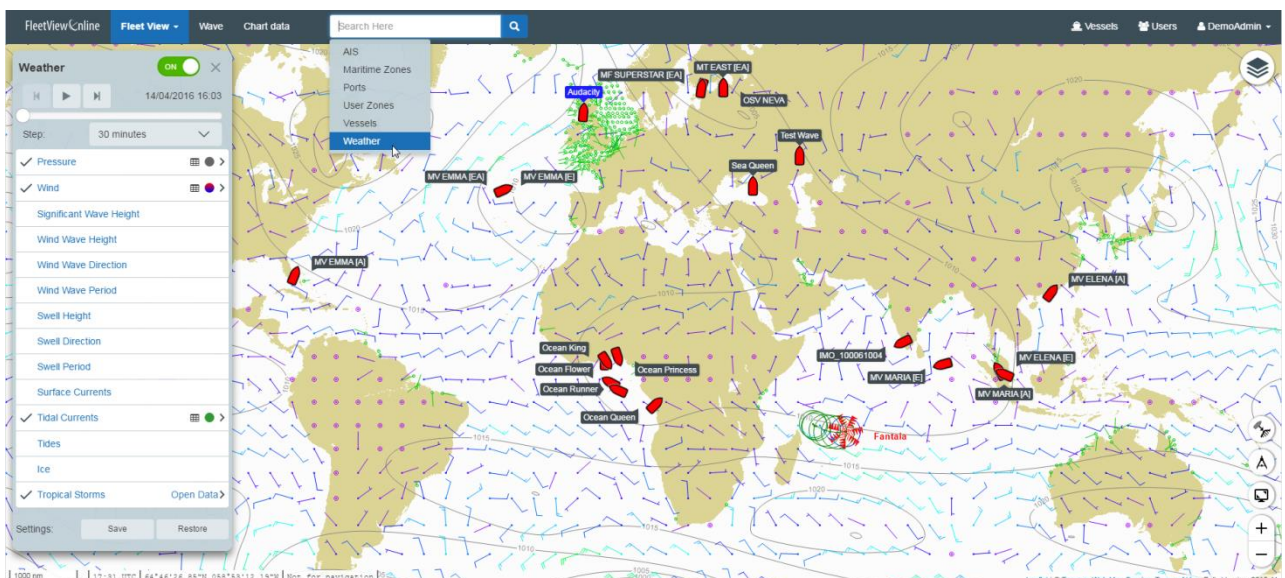
Only the most recent forecast issue can be displayed.

The weather overlay allows you to:

- display/hide weather overlay on chart
- select weather advance period for forecasting purposes
- show weather animation
- select manually a time interval for the five-day weather forecast to display parameter values over the selected time interval
- 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.

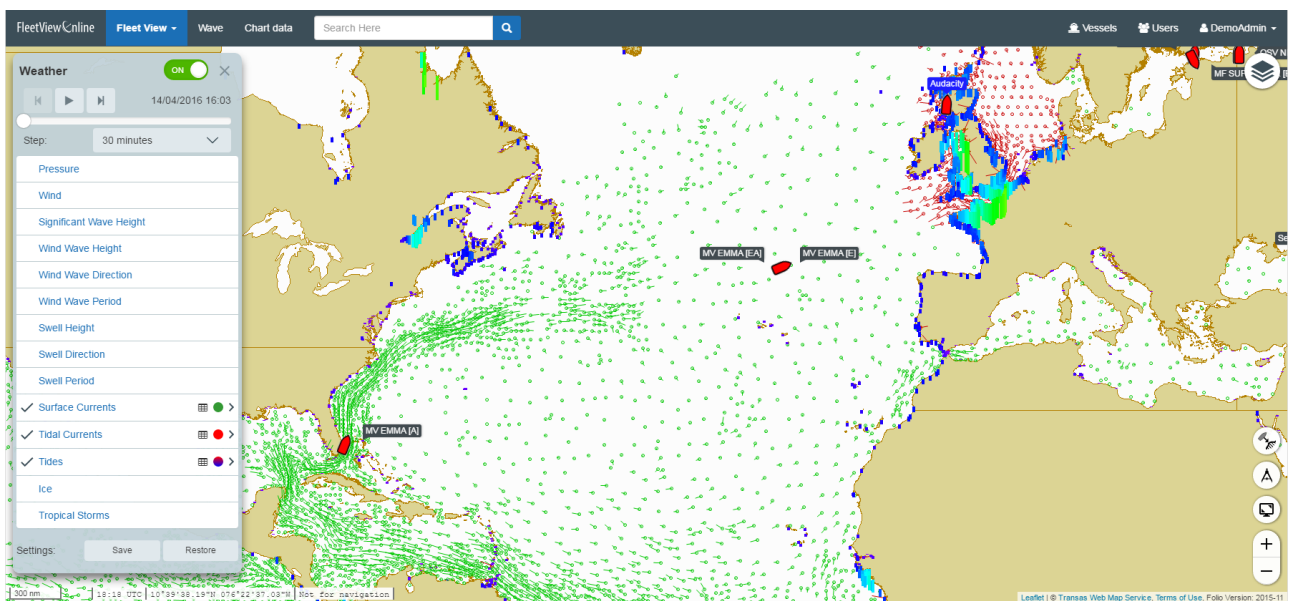
2.3.7.1. Viewing Weather Data

- > To show the **Weather** sidebar, choose the **Weather** item from menu.
- > Enable **Weather** overlay using slider.
- > To display a weather parameter, click on the row with the name of this parameter. The parameter's checkbox will be selected:



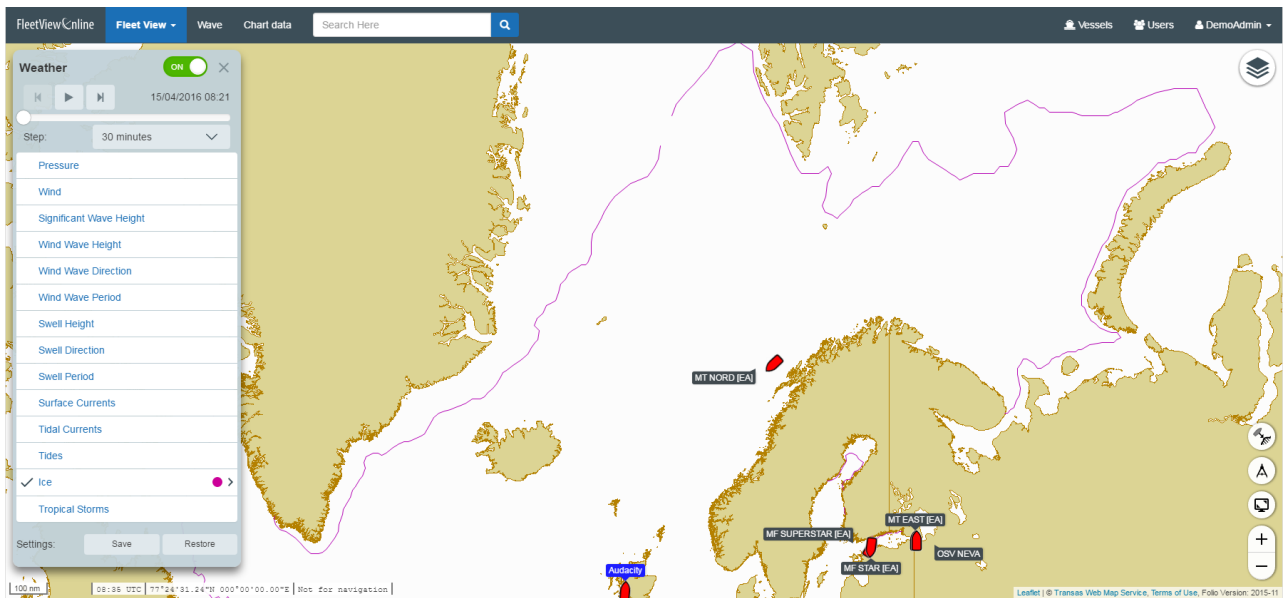
The following weather parameters can be display:

- **Pressure** - atmospheric pressure value in hectopascal (hPa.)
- **Wind** - wind displayed as either a digit (wind speed in metres per second), or a wind barb that shows graphically the wind speed and direction
- **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 vectors. Surface current information is generated by processing primary data from the American National Ocean Data Centre (NODC and NOAA). Representation of the surface currents are changed once a month for the year. This data cannot be used for navigation.
- **Tides** - calculated tidal height in meters. By default, 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. The results obtained from using this method may slightly differ from data of the published Admiralty Tide Tables or other prediction software that uses more harmonic constituents.
- **Tidal Currents** - calculated value of tidal currents in knots. By default, tidal currents are shown as vectors. Tidal current values are calculated for every hour relatively the high water (HW) in the closest position out of the available tabular values of tidal currents provided on paper nautical charts, in the official editions of atlases and tables. Tidal currents are calculated and displayed separately from the surface currents.

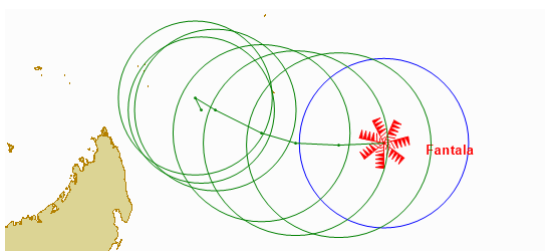


Disclaimer! All the surface current data, tide and tidal current predictions are not for navigation but for information only. Do not rely solely on these tidal predictions especially if life or property is at stake. You should not use these tidal predictions if anyone or anything could come to harm as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

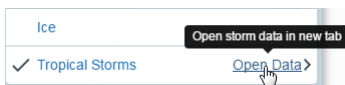
- **Ice** –actual data on the ice floes boundaries. This data is updated on the daily basis:



- **Tropical storm** – tropical storms are displayed if available or forecast for the next five days:



To view tropical storms data on a new tab, click the **Open Data** link:



Tropical Storm Forecast 14/04/2016 12:00

Tropical Storm Name: **Fantala**

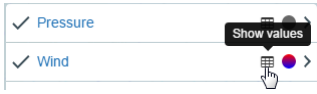
ID hr	Time utc	Lat	Lon	Wind max.
000	14/04/2016 12:00	12° 36' 00.00" S	061° 30' 00.00" E	110
012	15/04/2016 00:00	12° 42' 00.00" S	059° 30' 00.00" E	120
024	15/04/2016 12:00	12° 36' 00.00" S	057° 36' 00.00" E	120
036	16/04/2016 00:00	12° 12' 00.00" S	056° 06' 00.00" E	115
060	17/04/2016 00:00	11° 11' 59.99" S	054° 06' 00.00" E	105
084	18/04/2016 00:00	10° 41' 59.99" S	053° 12' 00.00" E	100
108	19/04/2016 00:00	11° 11' 59.99" S	053° 30' 00.00" E	95

2.3.7.2. Weather Display Settings

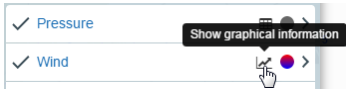
- > To save weather parameter display settings as defaults, click the **Save** button.
- > To restore the initial defaults for the weather parameter display settings, click the **Restore** button.

The following settings are provided for the display of weather data:

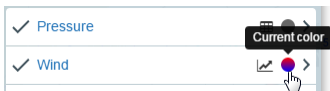
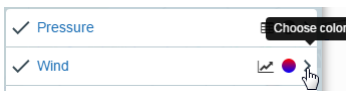
- Parameter digital or graphic display:
 - To display the parameter digital value, click the **Show values** icon:



- To display the parameter graphic presentation, click the **Show graphical information** icon:



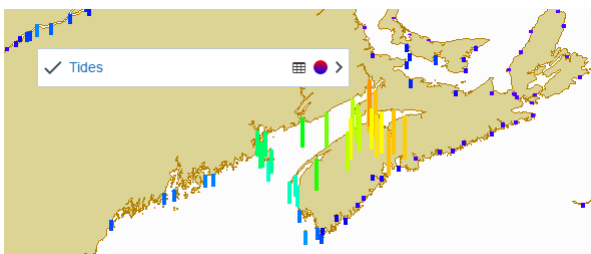
- Color for the display of a parameter value:
 - –To select a color, click the **Choose color** or **Current color** icon:



- Select a color from the available set:




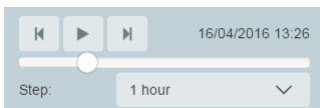
- If gradient color presentation is selected, the parameter display color will depend on its value (from 280° to 0° on a Hue scale in the HLV color model):






2.3.7.3. Weather Forecast

To view a forecast for the selected weather parameter, use the following procedure:

- > From the **Step** dropdown list, select the forecast time interval and click the  button for the continuous playback of weather parameters forecast.



- > Use the  and  buttons for the step-by-step viewing of weather parameters.
- > Click the  button to stop playback of the weather parameters forecast.

2.3.7.4. Wind Speed Symbols

The station model uses a wind barb to show both wind direction and speed. A combination of flags and pennants indicates the wind speed in plots rounded to the nearest 5 knots. Calm wind is indicated by a circle.

A full flag is used to depict 10 knots, half of a flag presents 5 knots. At 50 knots, flags change to a pennant (filled triangle). For wind speeds higher than 50 knots, flags and half-flags are used again in combination with the pennant(s).

The wind direction is indicated by the barb base line. The line will point to the direction FROM which the wind is blowing. The wind 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								

2.4. SSAS Management

The SSAS management page provides a user-friendly access point to manage SSAS testing of all the 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 on single page.

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 the 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 the hardware, therefore you can choose to activate the test mode using the local button/switch on the SSAS hardware, or alternatively you can activate the test mode using the online option and the SSAS hardware can remain in the LIVE mode on the vessel.

The incoming LIVE messages will be decoded as a TEST message, as long as the 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 the FVO, you can choose to have this automatically sent when a TEST message is received from the vessel. The FVO will deliver the reset within 30 seconds of receiving the TEST alert.

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

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

2.4.1. 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:

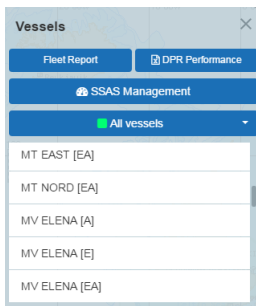
SSAS Version	Unique Identifier	Online Test Mode	Automated Reset	Notes
Transas ShipGuard v2	DST001xxxxxx	v	x	Latching alert buttons, Local reset used
Transas ShipGuard v3	DCC007xxxxxx, DCC012xxxxxx	v	v	Momentary alert buttons, Remote reset used
Transas ShipGuard v4	xxxxxxxSKYxxxx	v	v	Momentary alert buttons, Remote reset used

Russian T400	DST001xxxxxx	v	x	Latching alert buttons, Local reset used
Ocean Alert	DST001xxxxxx, DST002xxxxxx	v	v	Latching alert buttons, Remote reset used
Pole Star DSAS Mk1	DCC004xxxxxx, DCC010xxxxxx	v	v	Momentary alert buttons, Remote reset used
Pole Star DSAS Mk2	xxxxxxxSKYxxxx	v	v	Momentary alert buttons, Remote reset used
Inmarsat C Various	Various	v	x	Inmarsat C includes all Furuno, JRC and Thrane & Thrane equipment

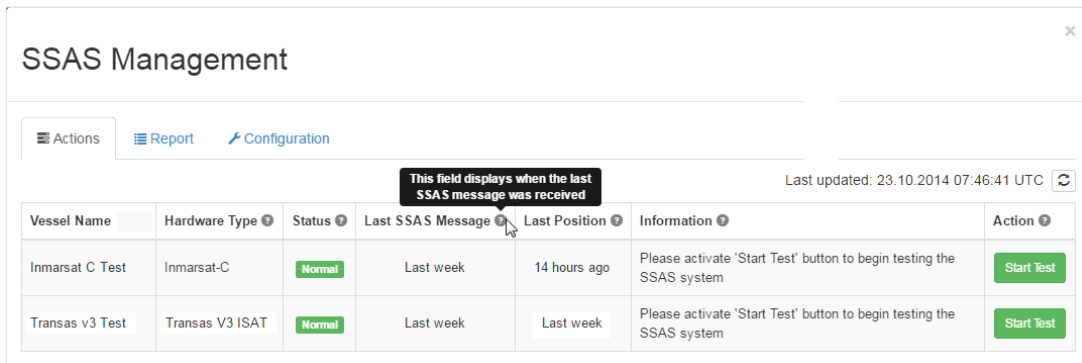
2.4.1.1. Access to SSAS Management

> Select the **Vessels** menu item:

The **Vessel** sidebar will appear:



> Click the **SSAS Management** button. The **SSAS Management** page opens on the **Action** tab:



Vessel Name - vessel name

Hardware Type - type of the 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 the 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 the 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 for the SSAS hardware testing.

Action - action buttons:

Start Test - to start the SSAS hardware test

Cancel Test - to cancel the Online Test Mode

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

Actions		Report		Configuration		Last updated: 23.10.2014 07:59:01 UTC	
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action	
Inmarsat C Test	Inmarsat-C	Normal	Last week	14 hours ago	Please activate 'Start Test' button to begin testing the SSAS system	Start Test	
Transas v3 Test	Transas V3 ISAT	Live Alert	Last week	Last week	Live alert message received, please 'Reset SSAS'	Reset SSAS	

2.4.1.2. Report Tab

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

Actions		Report		Configuration		Last updated: 23.10.2014 07:53:36 UTC	
Vessel Name	Hardware Type	Online Test Mode	Automated Reset	Notes			
Inmarsat C Test	Inmarsat-C	Enabled	not available	Please reset as per manufacturers recommendation			
Transas v3 Test	Transas V3 ISAT	Enabled	Disabled	Please send the SSAS reset message using the 'send command' option			

Vessel Name - vessel name

Hardware Type - type of the SSAS hardware

Online Test Mode - confirms the Online Test Mode status:

Enabled - Online Test Mode is enabled

Disabled - Online Test Mode is disabled

Automated Reset - confirms the Automated Reset status:

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 the SSAS testing based on the SSAS management configuration.

2.4.1.3. Configuration Tab

To access this functionality, the Administrator rights are required.

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 the 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 the tests to be able to change the configuration of the feature.

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

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

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

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

2.4.2. SSAS Testing

2.4.2.1. Starting Test

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

Actions Report Configuration						
Last updated: 23.10.2014 07:46:41 UTC						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Normal	Last week	14 hours ago	Please activate 'Start Test' button to begin testing the SSAS system	Start Test
Transas v3 Test	Transas V3 ISAT	Normal	Last week	Last week	Please activate 'Start Test' button to begin testing the SSAS system	Start Test

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**:

Actions Report Configuration						
Last updated: 23.10.2014 07:45:31 UTC						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Test Started	Last week	14 hours ago	SSAS test mode started - please activate an alert button	Cancel Test
Transas v3 Test	Transas V3 ISAT	Normal	Last week	Last week	Please activate 'Start Test' button to begin testing the SSAS system	Start Test

Note: Please ensure the vessel does not select the TEST mode on the SSAS hardware, or this will generate a Test Conflict and no alert will be received, please see Chapter 2.4.2.4.

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 a 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 behavior, 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.

2.4.2.2. Test Alert

Within a few minutes of pressing the alert button, the FVO will receive an 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 the SSAS hardware installed on the vessel:

1. Remote reset of the SSAS hardware:

Actions Report Configuration						
Last updated: 23.10.2014 07:58:04 UTC						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Normal	Last week	14 hours ago	Please activate 'Start Test' button to begin testing the SSAS system	Start Test
Transas v3 Test	Transas V3 ISAT	Test Alert	Last week	Last week	Test alert message received, please 'Reset SSAS'	Reset SSAS

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

2. Local reset of the SSAS hardware:

Actions Report Configuration						
Last updated: 23.10.2014 07:50:41 UTC						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Test Alert	Last week	14 hours ago	Test alert mode will reset automatically after 60 minutes, please ensure all alert buttons are released	
Transas v3 Test	Transas V3 ISAT	Normal	Last week	Last week	Please activate 'Start Test' button to begin testing the SSAS system	Start Test

- See the information message in the Information column.

3. Automated Reset

Actions Report Configuration						
Last updated: 23.10.2014 08:00:47 UTC						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Normal	Last week	14 hours ago	Please activate 'Start Test' button to begin testing the SSAS system	Start Test
Transas v3 Test	Transas V3 ISAT	Test Alert	Last week	Last week	Test alert message received, FleetView Online will automatically reset the SSAS in 30 seconds	

- 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.

2.4.2.3. Reset Test Alert

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

Actions Report Configuration						
Last updated: 23.10.2014 08:02:22 UTC ↻						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Normal	Last week	14 hours ago	Please activate 'Start Test' button to begin testing the SSAS system	Start Test
Transas v3 Test	Transas V3 ISAT	SSAS Resetting	Last week	Last week	SSAS is resetting, please allow 10 minutes for reset	

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

Actions Report Configuration						
Last updated: 23.10.2014 07:45:31 UTC ↻						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Test Started	Last week	14 hours ago	SSAS test mode started - please activate an alert button	Cancel Test
Transas v3 Test	Transas V3 ISAT	Normal	Last week	Last week	Please activate 'Start Test' button to begin testing the SSAS system	Start 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.

2.4.2.4. Test Conflict

If the SSAS Management detects that the 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 colored in yellow on the chart display.

Actions Report Configuration						
Last updated: 23.10.2014 07:52:03 UTC ↻						
Vessel Name	Hardware Type	Status	Last SSAS Message	Last Position	Information	Action
Inmarsat C Test	Inmarsat-C	Test Conflict	Last week	14 hours ago	Warning - Online Test Mode is enabled and the SSAS hardware is also in TEST mode. Both cannot be active at the same time.	Cancel Test
Transas v3 Test	Transas V3 ISAT	Normal	Last week	Last week	Please activate 'Start Test' button to begin testing the SSAS system	Start Test

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

3. User and Vessel Groups

3.1. 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 the FVO, different types of users can be created and their authorities controlled.

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

3.1.1. Creating User

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

- Power user
- User

Within those categories, different authorities can be selected to “fine tune” individual user rights.

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

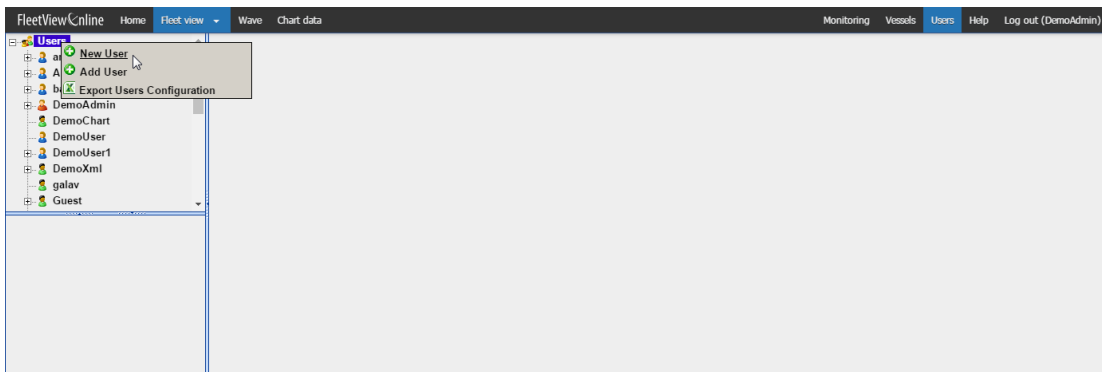





Figure 2. Creating new user

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

-  - Company Administrator
-  - Power user
-  - User

> Right-click the **Users** sub tree and choose the **New User** item from the context menu to create a new user (see Figure 2. Creating new user). The right-hand side of the screen will display the User settings.

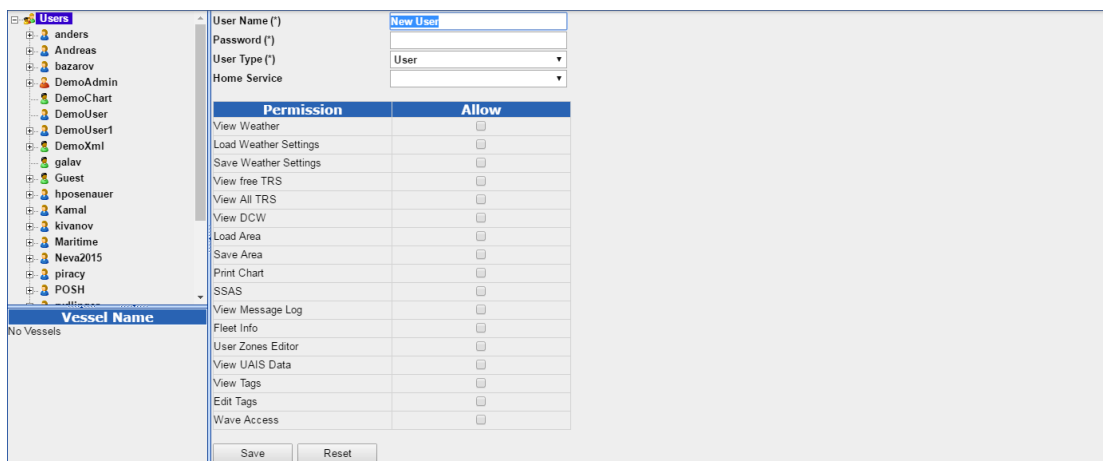


Figure 3. Setting up a new user (Slave user screen shown inset)

- > Choose the user type from the drop-down list before creating a login and password.
- > Enter the user name and password.
- > Select the set of user permissions - failure to do so will result in a blank screen after the logon.

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

Table 3. User checkbox function meanings

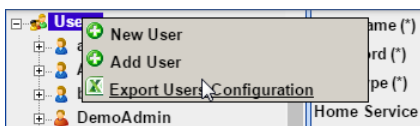
Permission	Functionality
View Weather	to see weather options
Load Weather Settings	to permit loading previous weather settings
Save Weather Settings	to enable saving current setting to server for future reference
View free TRS	to see low grade outline marine charts
View all TRS	to see full detail marine charts (Note: these charts are not for navigation and are updated on a quarterly basis)
View DCW	to view land maps
Load Area	to allow the user to load a previously saved area
Save Area	to allow the user to save the current chart window to the server – not recommended for slave users
Print Chart	to print the current chart area
SSAS	to allow access to the SSAS command (e.g., RESET)
View Message Log	to enable display of the message log (SSAS log)
Fleet Info	to view Fleet Report and DPR Performance report
User Zones Editor	to create and manage User zones

View UAIS Data	to view the AIS data
Polling	to send polling command
Send Message	to send Text Message to Terminal
Edit Vessel Color	to change vessels color
Program Polling	to program the terminal
View Routes	to see a vessel routes
Edit Routes	to create or edit a vessel routes
View Vessel Page	to access the Vessels administrative page
Move Terminals	to move terminals from one vessel to another
Add Positions	to add a vessel position
ECDIS Feature	to get access to ECDIS functionality
View Tags	to view tags (see Chapter 2.3.2.4)
Edit Tags	to edit tags (see Chapter 2.3.2.5)
Wave Access	to get access to Wave functionality

- > Click the **Save** button. The new user name appears in the tree view.

3.1.2. Exporting User Configuration

- > To export all the information on user settings in the Excel file format (UsersConfigurationReport.xls), right-click the **Users** sub tree and choose the **Export User Configuration** item from the context menu:



3.1.3. Allocating Vessels To Users

After creating a user and setting his/her 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 the login.

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

Creating vessel groups is dealt with in Chapter 3.2, this explanation assumes that a vessel group has been created in accordance with that section.

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.

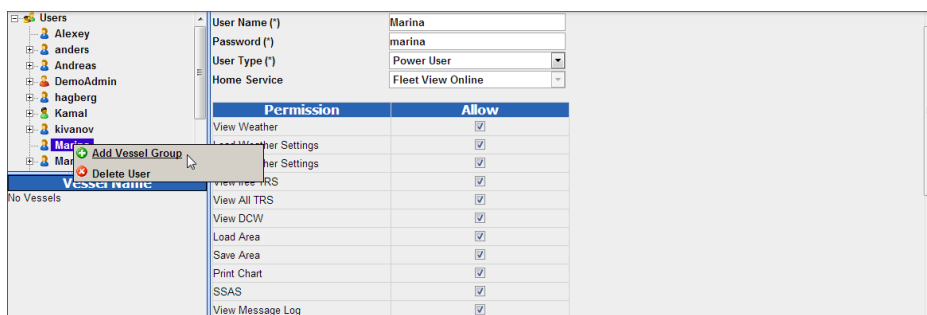


Figure 4. Adding a vessel group to user

The **Add Vessel Group** applet appears:

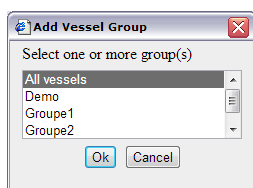


Figure 5. Selecting a vessel group

> 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:

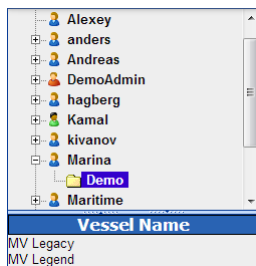


Figure 6. User vessel groups

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

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

3.2. 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 an existing terminal to the vessel.

3.2.1. Creating Vessel Group

- > Logon as the Company Administrator and open the **Vessel** service. The **Terminal and Vessel Management** page appears:

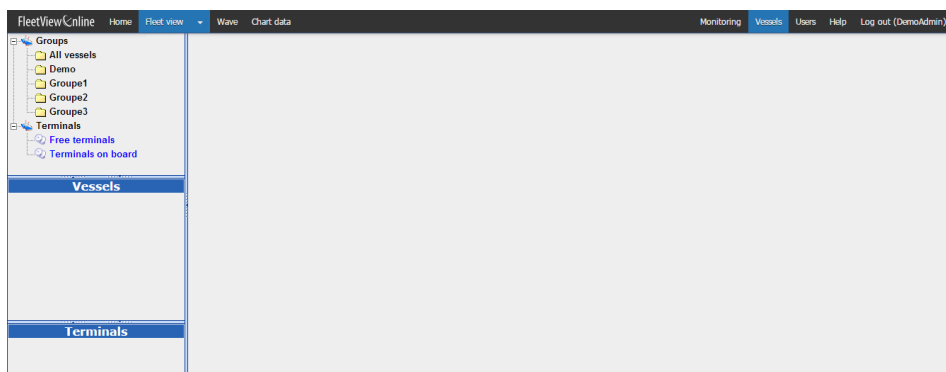
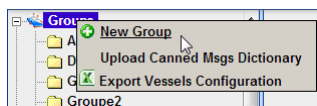


Figure 7. Terminal and Vessel Management page

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



- > The **New Group** applet appears:

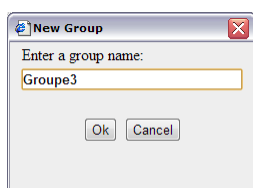
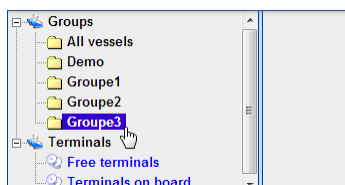


Figure 8. Naming a vessel group

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



3.2.2. Adding Vessel to 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:

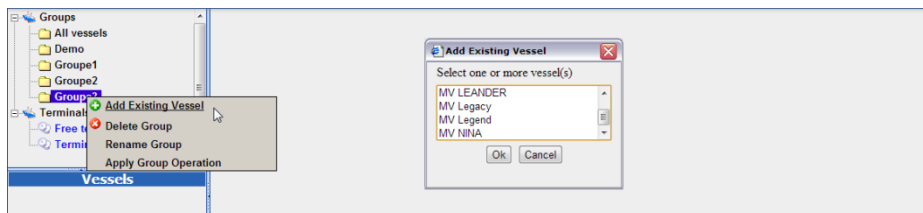


Figure 9. . Allocating a vessel into a group - 1

- > Select one or several vessel names and click **OK**. The selected vessel will be added to the vessel group and will be displayed in the **Vessel** section.

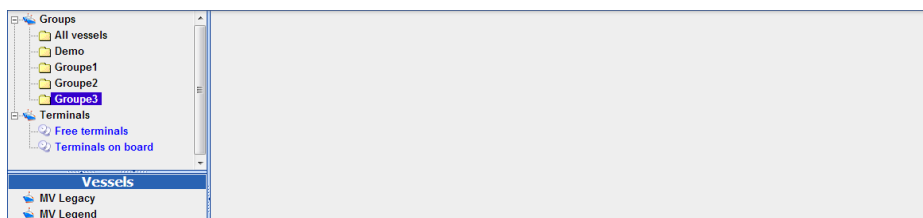


Figure 10. Allocating a vessel into a group - 2

3.3. Setting up Vessel Page for SSAS Messages Delivery

If your vessel is equipped with Transas Ship Guard security alert system, then it is essential that the alert delivery information be correctly entered in the 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; if a vessel changes the name, port of registry or even the owner, all these changes can be managed from ashore via the FVO interface.

3.3.1. 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 points to note in operation:

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

3.3.2. Entering Delivery Data

- > Click the vessel name to open the data entry fields.
- > Select **All Vessels** from the groups menu.

The screenshot shows the 'Vessels' data entry form in the FleetViewOnline application. The form is divided into several sections:

- General Information:** IMO Number (9134751), Call Sign (MWVW6), Flag (TBA), MMSI (234431000).
- SSAS Contact Information:** SSAS E-mail (nick.bazarov@transas.com; mailname1@mail.com), SSAS Tel (4631600000; 4631600001), SSAS Fax, SSAS Telex, SSAS Alert text (Alert text).
- SSAS Test Function:** Enable SSAS Test function (checkbox), SSAS Test E-mail, SSAS Test Tel, SSAS Test Fax, SSAS Test Telex, SSAS Test text.
- CSO Information:** CSO (Staff Duty Officer), CSO Tel (4631600004), Alternate CSO, Alternate CSO Tel (4631600005).
- Position Reports:** Position Reports to E-mail (nick.bazarov@transas.com; mailname1@mail.com), Position Reports to E-mail (based on standard NMEA GPS string), Route Alarm E-mail, Route Alarm Tel.
- Forwarding Services:** Enable AMVER Service (checkbox), (Date/time of Last Forwarded Report: [unknown]).
- User Defined Data:** User Title (ETA), User Data (ETD Bac 2400H, ETA Ilo 2400H), Port of Departure (Spb), Port of Arrival (Helsinki), Image Url (http://company.com/images/vessel.png).
- Fleet Settings:** Fleet Report E-mail, Kml Fleet Report E-mail, Xml Fleet Report E-mail, Battery Report E-mail.

Figure 11. Entering data for the SSAS message delivery

- > Log in and select the **Vessels** tab, then select **All Vessels** from the **Groups** menu.
- > Choose the required vessel from the **Vessel** menu to open the data entry fields.

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

3.3.3. Data Entry Rules

- No spaces are permitted in data fields after separator.
- Use the semi-colon “;” as data separator.
- Telephone numbers can have a maximum of fifteen digits and are written as follows:
[country code][subscriber number including area code].
- Drop 00 for the country code of GSM phones.
- Delivery of alert repeater message to the GSM phone is dependent on network compatibility and coverage and cannot be guaranteed.

Certain mobile phone networks support Email phone delivery as an alternative to the standard text messages.

3.3.4. Vessel Data

This information will be entered by Wärtasilä 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. The **Vessel Name** and **IMO Number** can only be edited by Wärtasilä Operations team.

IMPORTANT

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

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

Attention! When testing on board systems, it is essential that unit be set to test, this will automatically block a message to the Flag State and mark the message as test. Alert messages sent from system in the normal “on” mode will be delivered to the 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.

3.3.5. SSAS Message Delivery

SSAS E-mail:	nick.bazarov@transas.com;mailname1@mail.com
SSAS E-mail (Html Format):	nick.bazarov@transas.com;mailname1@mail.com
SSAS Tel:	4631600000;4631600001
SSAS Fax:	
SSAS Telex:	
SSAS Alert text:	Alert text

Figure 12. Company SSAS delivery data

- > Within your company, determine who is to receive the SSAS alert messages.
- > Enter their Email, Fax, Telex and mobile phone details in the fields immediately below the vessel data fields.
- > Save the data.

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

3.3.6. Enabling SSAS Test Function

Enable SSAS Test function:	<input checked="" type="checkbox"/>
SSAS Test E-mail:	nick.bazarov@transas.com;mailname1@mail.com
SSAS Test E-mail (Html Format):	nick.bazarov@transas.com;mailname1@mail.com
SSAS Test Tel:	4631600000;4631600001
SSAS Test Fax:	
SSAS Test Telex:	
SSAS Test text:	Test text

Figure 13. 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.

Attention! In the event of a real alert, it is automatically overridden and delivery to Flag and SSAS Email and SSAS Tel numbers will take place.

To use this feature:

- Check that the vessel has on-board system set to TEST.
- Select the **Enable SSAS Test function** checkbox.
- Enter Email address of the required message recipients.
- Enter the required mobile phone number.
- Save the 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 the vessels in different time zones do not disturb shore users unnecessarily.
- The test message marked TEST can be sent to the Flag State for the mandatory system testing without requirement prior arrangement with the Flag State authority.

Simply enter the Flag State delivery address into SSAS Test Email field when a test to the Flag State is required and save the data. Delete the Flag State data after the test.

3.3.7. CSO Data

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

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

CSO:	<input type="text" value="Staff Duty Officer"/>	CSO Tel:	<input type="text" value="4631600004"/>
Alternate CSO:	<input type="text"/>	Alternate CSO Tel:	<input type="text" value="4631600005"/>

Figure 14. Delivery of CSO information

3.3.8. Sending Position Reports to Defined Email

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

Position Reports to E-mail:	<input type="text" value="nick.bazarov@transas.com;mailname1@mail.com"/>
Position Reports to E-mail (Html Format):	<input type="text" value="nick.bazarov@transas.com;mailname1@mail.com"/>
Position Reports to E-mail (based on standard NMEA GPS string):	<input type="text" value="nick.bazarov@transas.com;mailname1@mail.com"/>

Figure 15. Delivery of Position reports information

3.3.9. Route Alarms

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

Route Alarm E-mail:	nick.bazarov@transas.com;mailname1@mail.com
Route Alarm Tel:	4631600000;4631600001

Figure 16. Delivery of Route alarms information

3.3.10. Flag State Access to FVO

Each SSAS message delivered by FVO, contains a www.fleetviewonline.com hyperlink. It is possible to expand this hyperlink so that it will bypass the requirement for a login and password, thereby allowing the 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 Wärtisilä Support team.

3.3.11. Adding Extra Information to Vessel Tooltip

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

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

User Defined Data	
User Title:	ETA
User Data:	ETD Bac 2400H, ETA Ilo 2400H
Port of Departure:	Spb
Port Of Arrival:	Helsinki
Image Url:	http://company.com/images/vessel.png

Figure 17. Adding Extra Information to the Vessel Tool tip

Extra information is displayed in the tool tip which appears when the mouse cursor is hovered over the vessel symbol.

3.3.12. Sending Reports

In the **Fleet Setting** section, you can define

If any Emails are set in the **Fleet Setting** section then Fleet reports (in KML and XML file format) and Battery report will be send to these Emails.

Fleet Settings	
Fleet Report E-mail:	nick.bazarov@transas.com;mailname1@mail.com
Kml Fleet Report E-mail:	
Xml Fleet Report E-mail:	
Battery Report E-mail:	nick.bazarov@transas.com;mailname1@mail.com

FleetViewOnline 5.1 User Manual

Technical support

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Email: voyage.support@wartsila.com

Web: www.wartsila.com