

MANUAL CFM MRV & IMO DCS



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1. About This Guide

This user guide provides an introduction to CFM MRV & IMO DCS and describes how you can leverage the application to meet your business needs.

The application allows you to carry out the necessary reporting to comply with MRV and IMO DCS standards. It also provides several reporting capabilities including the option to leverage our MS Power BI integration that allows you to analyze your data in further detail and provides insights to action.

CFM MRV & IMO DCS consists of the following tabs:

- Dashboard
- Monitoring Plans
- Vessels
- Reports
- Power Bl



NOTE

If you cannot access the MRV & IMO DCS tile from the Cloud Fleet Manager (CFM), please contact your system administrator to assign the relevant permissions to your user in the Users app.

This user guide describes the features and functions available to a user with full access to the application. If you're expecting rights that your user currently doesn't have, get in contact with your system administrator.



2. Initial Setup

Before you can start to use CFM MRV & IMO DCS, certain settings have to be made:

- 1. Create users for CFM in CFM Users.
- 2. Assign the users the permission role for CFM MRV & IMO DCS and the relevant tabs.
- 3. Set up notifications (optional).



3. General Features

The following general features are available from the main navigation bar.

Navigation

You can directly navigate to other CFM apps by choosing the CFM logo () from the main navigation bar. Then choose the respective app that you want to launch and the app automatically opens in another tab.

🏐 MRV & IM	IO DCS			
Navigate to .				
Portal	My Preferences			
Inspection	Operations	QM	HR	System
Particulars	Charter	Inspections & Au	🚊 Crewing	•••• Miscellaneous
🛒 Purchase	i Off-hire & Claims	🌉 Incidents	Emergencies	▲ [⊠] Users
🛠 Maintenance	Schedule & Agent	s 💿 Risk Assessment	Employees	Templates
🖌 Disturbance	Yards	Circulars	📺 Companies	💉 Ship Client Mana
© Certificates	🖞 Ports	Procedures		Files (beta)
💻 Blog	🛃 Towage Jobs			Power BI Manag
	MRV & IMO DCS			Settings
	🛓 Cashbox & Bond			
	Pharmacy			
	Inventory			
	🔝 Partner Portal			

What's New

Choose the **iii** gift icon to get an overview of new features, improvements, and bug fixes that were released since the last time you checked. The number displayed in red indicates how many new features, improvements, and bug fixes were released.

A flyout window allows you to navigate to the timeline of updates for all CFM applications, as well as to the changelog and module history of CFM MRV & IMO DCS.

• Export

You can directly download different types of exports from the main navigation bar. Choose the **Download** icon ($\frac{1}{2}$) and select the type of export that you require:

- Bunker abstracts export
- Log abstracts export
- General XML export
- IMO DCS export

Notifications

The • **bell** icon indicates whether any notifications from the current app and other apps within CFM are available. This allows you to get relevant information without the need to open all apps.

Choose the [©] cogwheel icon to define for which applications and their actions you want to receive notifications.

User Menu

To log out of CFM MRV & IMO DCS, choose the user avatar and then Log out.



3.1. Export Bunker Abstracts

To export bunker abstracts, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Choose **Download** $(\underline{\vee})$ from the main navigation bar.
- 3. Select **Bunker abstracts export** from the drop-down list.
- 4. In the dialog window, specify the following information:
 - Start Date

Enter a start date for the time period for which you want to export all available bunker abstracts.

End Date

Enter an end date for the time period for which you want to export all available bunker abstracts.

Only include mandatory data

Set this checkbox, if you want to include mandatory data, only. The checkbox is set, by default.



Vessel Verifier

Select the relevant vessel verifier to get the list of vessels that report to the selected verifier and for which you want to export the available bunker abstracts.

The data that was maintained in CFM Particulars for the vessel verifier of a particular vessel is used here.

Export bunker abstracts			\otimes
Start date		End date	
1/1/2021 12:00 AM	1	12/31/2021 11:59 PM	1
Only include mandatory data		Vessel verifier	
		All	~
Vessels			Select All
Vessel 🔺		Verifier	
1. GAZ PALMYRA			
1. HS Manila		BV	
1. HS Mortier Bay		LR	
2. Seewind 2			
3. HS Fortune Bay			
3. NO TOUCH TYPE APPRO	VAL VESSEL		
4. HS Dragon Bay			
			Export

• Vessels

Select the relevant vessels for which you want to get the available bunker abstracts from the list.

5. Choose **Export** to export the specified bunker abstracts.

3.2. Export Log Abstracts

To export log abstracts, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Choose **Download** ($\stackrel{\checkmark}{=}$) from the main navigation bar.
- 3. Select Log abstracts export from the drop-down list.
- 4. In the dialog window, specify the following information:
 - Start Date

Enter a start date for the time period for which you want to export all available log abstracts.

• End Date

Enter an end date for the time period for which you want to export all available log abstracts.

Only include mandatory data

Set this checkbox, if you want to include mandatory data, only. The checkbox is set, by default.

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• Vessel Verifier

Select the relevant vessel verifier to get the list of vessels that report to the selected verifier and for which you want to export the available log abstracts from the drop-down list.

The data that was maintained in CFM Particulars for the vessel verifier of a particular vessel is used here.

Start dat	e		End date	
1/1/20	021 12:00 AM	1	12/31/2021 11:59 PM	1
Only	include mandatory data		Vessel verifier	
			All	
Vess	sels			Select Al
	Vessel 🔺		Verifier	
	1. GAZ PALMYRA			
È.	1. HS Manila		BV	
and the state	1. HS Mortier Bay		LR	
÷.	2. Seewind 2			
	3. HS Fortune Bay			
N.	3. NO TOUCH TYPE APP	PROVAL VESSEL		
N.	4. HS Dragon Bay			

Vessels

Select the relevant vessels for which you want to get the data of all available log abstracts from the list.

5. Choose Export to export the specified log abstracts.

3.3. Export to XML format

To export data to a generic XML format (Thetis format), proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Choose **Download** ($\stackrel{\checkmark}{=}$) from the main navigation bar.
- 3. Select General XML export from the drop-down list.
- 4. In the dialog window, specify the following information:
 - Year of Monitoring Period Select a year for the monitoring period from the drop-down list.
 - Vessel Verifier

Select the relevant vessel verifier to get the list of vessels that report to the selected verifier and for which you want to export the data from the drop-down list. The data that was maintained in CFM Particulars for the vessel verifier of a particular vessel is used here.



Include monitoring plan

Set the checkbox, if you want to include monitoring plans in the export. The checkbox is set by default.

Include annual emissions

Set the checkbox, if you want to include annual emissions of the vessels in the export. The checkbox is set by default.

Include voyage emissions

Set the checkbox, if you want to include voyage emissions of the vessels in the export. The checkbox is set by default.

Include port emissions

Set the checkbox, if you want to include port emissions of the vessels in the export. The checkbox is set by default.

Only include MRV relevant emissions

Set the checkbox, if you want to include only MRV-relevant emissions of the vessels in the export.

Only include UK relevant emissions

Set the checkbox, if you want to include only UK-relevant emissions of the vessels in the export.





Select All

Vessels

	Vessel 🔺	Verifier	
	01. HS Glenn(MAX STABILI		
June	02. HS Alex Kornell(ELBIN		
	03. HS Alex B(ELBMARSCH)		
	04. HS Felix(ELBCARRIER)	DNV	
a Sanggang San da	05. HS Daniel(ELBFEEDER)	DNV	



Vessels

•

Select the relevant vessels for which you want to get the data from the list.

5. Choose **Export** to export the selected data to the XML format.

3.4. Export IMO DCS

To export IMO DCS data, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Choose **Download** $(\stackrel{\checkmark}{=})$ from the main navigation bar.
- 3. Select IMO DCS export from the drop-down list.
- 4. In the dialog window, specify the following information:

Start Date

Enter a start date for the time period for which you want to export all available IMO DCS data.

End Date

Enter an end date for the time period for which you want to export all available IMO DCS data.

Export IMO DCS data as

Select how you want to export the IMO DCS data from the drop-down list:

Daily Figures

To get all daily figures of IMO DCS, choose this option.

• Voyage Legs

To get a condensed overview for each voyage leg, choose this option.

Submission Type

Select how the IMO DCS data was submitted from the drop-down list. The following submission types are available:

- End of Year
- Change of Flag
- Change of Company
- Change of Flag and Company
- Decommission

Vessel Verifier

Select the relevant vessel verifier to get the list of vessels that report to the selected verifier and for which you want to export the IMO DCS data from the drop-down list. The data that was maintained in CFM Particulars for the vessel verifier of a particular vessel is used here.

Export IMO DCS End date Start date End date 1/1/2021 T Export IMO DCS data as Submission Type	∞
Start date End date 1/1/2021 1 5/5/2021 Export IMO DCS data as Submission Type	1
1/1/2021 Image: Compare the second seco	1
Export IMO DCS data as Submission Type	
Daily Figures	~
Vessel verifier	
All 🗸	
Vessels	Select All
Vessel 🛦 Verifier	
1. GAZ PALMYRA	
1. HS Manila BV	
1. HS Mortier Bay LR	
2. Seewind 2	
3. HS Fortune Bay	
	<u> </u>
	Export



• Include Fuel Oil Remainings

Select this checkbox, if you want to include information on the remaining fuel oil into your export file. This checkbox only is available, if the **Export IMO DCS data as** is marked as **Voyage Legs**.

• Vessels

Select the relevant vessels for which you want to get the IMO DCS data from the list.

5. Choose **Export** to export the specified IMO DCS data.



4. Dashboard

The **Dashboard** provides an overview of the reports that were recently sent by the vessels and indicates which vessels emit fewer CO_2 than others.

The Dashboard tab consists of the following cards:

Last Sent Reports

Lists all reports that were recently sent from your fleet to the office using CSM MRV & IMO DCS. The list is sorted by date in descending order, by default. However, you can sort the list by any column.

By double-clicking on an entry in the list, you are automatically redirected to the detail screen of the selected report.

You can search the list by entering a keyword in the search bar below the table.

CO₂ Ranking

Lists the vessels according to their CO_2 emissions starting with the one that emits the fewest CO_2 emissions.

You can search the list by entering a keyword in the search bar below the list.

💮 MR'	V & IMO DCS				Dashboard	Monitoring Plans	Vessels	Reports	Power BI	₫1 ⊻	<mark></mark> - (
Last s	ent reports						CO ₂ ra	inking			
	Vessel	Report	Date 🔻	Port				Vessel	Emissions	A	
de la	29. HS	Noon Report	4/26/2021	TBA (Unknown)			2	31. HS	0 t		
×	22. HS	Noon Report	3/29/2021	Sines (Portugal)			2	09. HS	240.451 t		
_	18. HS	Noon Report	3/22/2021	TBA (Unknown)			2625	27. HS	290.6534	t	
	Etoille	Noon Report	3/20/2021	Yokohama (Japan)				04. HS	375.1498	t	
Rea T	08. HS	Arrival Report	1/21/2021	Rotterdam (Netherla	nds)		×	22. HS	377.2777	бt	
	31. HS	Departure Report	1/19/2021	Hamburg (Germany)				23. HS	442.3575	2 t	
	25. HS	Noon Report	1/18/2021	Greenock (United Kir	ngdom)			34. HS	443.7104	t	
	34. HS	Noon Report	1/18/2021	Gdynia (Poland)				33. HS	546.2454	1 t	
	32. HS	Arrival Report	1/18/2021	Aarhus (Denmark)				32. HS	552.4404	t	
	33. HS	Noon Report	1/18/2021	Cadiz Bay (Spain)				06. HS	554.9216	t	
	28. HS	Noon Report	1/18/2021	Dublin (Ireland)			20	29. HS	611.9292	2 t	
-	17. HS	Noon Report	1/18/2021	Dublin (Ireland)			-	05. HS	663.5168	t	
	06. HS	Noon Report	1/18/2021	Cork (Ireland)			-	25. HS	667.3302	t	
	10. HS	Noon Report	1/18/2021	Castellon (Spain)			-	17. HS	674.5872	t	
-	05. HS	Arrival Report	1/18/2021	Rotterdam (Netherla	nds)		-	28. HS	694.7108	4 t	
Q						Number of items: 24	Q			Numbe	of items: 17



5. Monitoring Plans

On the **Monitoring Plans** tab, you get an overview of the monitoring plans that were created for your vessels. You can also create and copy monitoring plans as well as manage existing monitoring plans.

Once you've completed the monitoring plans, you export the plans and send them to the responsible verifier of your fleet. For more information, see General Features [6].



IMPORTANT

If you have maintained the general information of your vessels in CFM Particulars, the monitoring plans are automatically pre-filled.

Each monitoring plan is divided into the following parts:

Part A: Revision record sheet

Lists all revisions of the monitoring plan including information on the individual changes made to the chapters.

Part B: Basic data

Includes general information about the vessel, the company, and the emissions used by the vessel.

• Part C: Activity data

Includes information on methods and procedures used to determine values, such as fuel consumption and fuel in tanks.

• Part D: Data gaps

Includes information on methods used to treat data gaps regarding values, such as distance traveled and cargo carried.

Part E: Management

Includes information on control activities for quality assurance and reliability of information technology, for example.

Part F: Further information

Includes information on definitions and abbreviations as well as additional information.

The monitoring plans are sorted by vessel. You can search the tab for a specific vessel by entering its name in the search bar.



Additionally, you can display monitoring plans for vessels with changed particulars only. Choose the Filter icon (=) and set the Only vessels with changed particulars checkbox.

IMRV & IMO DCS				Dashboard	Monitoring Plans	Vessels	Reports	Power BI	Ť <mark>14</mark> 0 ⊻	Q
Filter vessels 😨	Part A: Revision record sheet	t Part B: Basic	data Part C: Activity data	Part D: Data gaps	Part E: Management Pr	art F: Further informatic	n			
Odessa Dry-Bulk Carrier (Bulk Carrier)	Monitoring plan									
BBC Ontario General Cargo Vessel (General Cargo Vessel)	Part A: Revision reco	ords								
SCM Elpida General Cargo Vessel (General Cargo Vessel)	Version No F	Reference date	Status at reference date	Referenc	e to chapters					
MS Odin Bay Dry-Bulk Carrier (Bulk Carrier)	4 3	3/24/2020	Working draft	Automa particul B.1. Ide	tically created revision record ars. ntification of the ship:	after updating the mo	nitoring plan with the	latest vessel		
Dry-Bulk Carrier (Bulk Carrier)				Change	d 'Flag state' from 'Guatemala' tically created revision record	to 'Malta'. after updating the mo	nitoring plan with the	latest vessel		
test Dry-Bulk Carrier (Bulk Carrier)	3	11/2/2019	Working draft	particul	ars.				2	
HS HAMBURG EXP Tanker (Chemical Tanker)				B.1. Ide Change	ntification of the ship: d 'Flag state' from 'Antigua and	d Barbuda' to 'Guatema	ala'.			
VETVESSEL Tanker (Oil Tanker)	2	7/20/2019	Working draft	Automa particul	tically created revision record ars.	after updating the mo	nitoring plan with the	latest vessel		
ValadTraining Tanker (Oil Tanker)	2	//30/2019	Working drant	B.1. Ide Change Change	ntification of the ship: d 'Type of the ship' from 'Multi d 'Flag state' from 'Malta' to 'Ai	purpose Carrier' to 'Ch ntigua and Barbuda'.	emical Tanker'.			
1. HS Mortier Bay Other / Unknown (Passenger / Ferry)	1 8	5/5/2019	Working draft						🚺 🗵	
1. GAZ PALMYRA Tanker (LP0 Semi-Ref)					Add revision record					
1. HS Manila General Cargo Vessel (General Cargo Vessel)					+					
2. Seewind 2 Other / Unknown (Passenger / Ferry)										
3. HS Fortune Bay General Cargo Vessel (Container Ship)										
3. NO TOUCH TYPE APPROVA Other / Unknown (Tug boat)										
4. HS Dragon Bay General Cargo Vessel (Container Ship)										
05. Namma Shipping lines Other / Unknown (Passenger / Ferry)						s	rne with particulars	Save	ort Export a	as Pdf

The following features are provided on the tab:

- · Create monitoring plans
- · Copy monitoring plans
- · Edit entries in monitoring plans
- · Synchronize monitoring plans with particulars



NOTE

An info icon $(^{()})$ next to a vessel in the list indicates that the data of the monitoring plan and the particulars of the vessel are not in sync.

· Export monitoring plans as MS Word and PDF files

5.1. Create Monitoring Plans

To create a monitoring plan for your vessel, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Go to the Monitoring Plans tab.
- 3. Choose a vessel from the sidebar on the left.



NOTE

You can only create monitoring plans for vessels that do not have a monitoring plan yet. 4. Choose Create new plan.

A draft version of the monitoring plan is created.

- 5. Go through the different parts of the monitoring plan and add the relevant information where required:
 - a. Part B: Basic data
 - b. Part C: Activity data
 - c. Part D: Data gaps
 - d. Part E: Management
 - e. Part F: Further information
- 6. Choose the pencil icon () next to the entry that you want to adapt and enter the relevant value in the Value field.
- 7. Once the entry is complete, choose the green checkmark icon (\checkmark) to accept the entries.



NOTE

If you want to delete an entry, choose the red cross icon ($^{\times}$) next to the entry.

8. Once you've made all necessary entries for the monitoring plan, choose Save.

5.2. Copy Monitoring Plans

To copy an existing monitoring plan from another vessel, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Go to the Monitoring Plans tab.
- 3. Choose a vessel from the sidebar on the left.



NOTE

You can only create monitoring plans for vessels that do not have a monitoring plan yet.

- 4. Choose Copy Existing Plan in the lower right corner.
- 5. In the dialog window, select the vessel from which you want to copy the monitoring plan from the **From vessel** drop-down list.

6. Choose Create.

Copy monitoring plan	\otimes
From vessel: Choose	~
	Create

A copy of the monitoring plan from the selected vessel is created.

- 7. Go through the different parts of the monitoring plan and adapt or add the relevant information where required:
 - a. Part B: Basic data
 - b. Part C: Activity data
 - c. Part D: Data gaps
 - d. Part E: Management
 - e. Part F: Further information
- 8. Choose the pencil icon () next to the entry that you want to adapt and enter the relevant value in the Value field.
- 9. Once the entry is complete, choose the green checkmark icon (\checkmark) to accept the entries.



NOTE

If you want to delete an entry, choose the red cross icon ($^{\times}$) next to the entry.

10. Once you've made all necessary entries for the monitoring plan, choose Save.



6. Vessels

The **Vessels** tab provides an overview of all reports that were carried out for your fleet over a specified period of time.

The tab consists of the following subtabs:

• Reports

Lists all reports that were carried out over a specified period of time and for a selected vessel.

• Timeline

Displays the number of reports that were carried out for your fleet over a specified period of time in a timeline sorted alphabetically by name of the vessel.



NOTE

You cannot create new reports from the Vessels tab.

All reports are created on board the vessel using CSM MRV & IMO DCS and are then synchronized to the shore side where the colleagues in the office monitor the reports and make changes, if necessary.

6.1. Reports

The **Reports** subtab shows you all reports that were created on board the vessel for your fleet.

The reports are grouped by vessel and filtered by a specified time period. By default, the last four weeks are pre-selected by the system.

To see the reports for a specific vessel, you can enter the name of the vessel in the filter bar at the top or choose a vessel directly from the list.

Choose a report from the list to see further details.

The following basic information is displayed for each report on the tab:

- · Icon indicating the type of report and whether it is relevant for MRV
- Port information, whether it is an arrival or departure port, for example
- Date and time
- Attachments are indicated with a paperclip icon (^[])
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- Specific data depending on the report type:
 - Bunker and debunkering activity
 - Fuel oil types
 - Cargo on board
 - Distance traveled
 - Anchoring start and end

O MRV & IMO DCS		Dashboard	Monitoring Plans Ve	essels Rep	orts Power Bl	tt <mark>140 ⊻ ♀</mark>	\odot
Reports Timeline							
Filter vessels	Reports		4/6/2019 - 5/6/202	1 Rep	ort details		
Odessa Dry-Bulk Carrier (Bulk Carrier)							-
BBC Ontario General Cargo Vessel (General Cargo Vessel)	Port Bunker activity Singapore (Singapore) Bunker correction	n Fuel oil types	Date & time 4/2/2020 12:50 pm			1	3
SCM Elpida General Cargo Vessel (General Cargo Vessel)	Port Bunker activity Singapore (Singapore) Bunker	Fuel oil types HFO HS	Date & time 4/2/2020 12:35 pm	0	Bunker co	rrection	
MS Odin Bay Dry-Bulk Carrier (Bulk Carrier)				_	Singaj	oore	
MV Snow Crystal Dry-Bulk Carrier (Bulk Carrier)	Port Bunker activity Singapore (Singapore) Bunker	Fuel oil types HFO HS	Date & time 4/2/2020 12:27 pm	Port Singa BDN n	pore (Singapore) umber	Date & time 4/2/2020 12:50 pm Correction Type	
test Dry-Bulk Carrier (Bulk Carrier)						Periodical tank sounding	
HS HAMBURG EXP Tanker (Chemical Tanker)	Departure Arriving to Aabenraa (Denmark) Singapore (Singa	pore) Cargo on board 0 passengers	Date & time 4/1/2020 11:00 am	Bunk	er correction		
VETVESSEL Tanker (Oil Tanker)	Arrival Denarted from	Distance travelled	Date & time	0 mt			
ValadTraining Tanker (Oil Tanker)	TBA (Unknown) Cristobal (Panam	n/a	4/1/2020 7:46 am	Bunk	er delivery note		
1. HS Mortier Bay Other / Unknown (Passenger / Ferry)	Departure Arriving to Cristobal (Panama) TBA (Unknown)	Cargo on board O passengers	Date & time 4/1/2020 7:38 am	No BD	N available		
1. GAZ PALMYRA Tanker (LPG Semi-Ref)							
1. HS Manila General Cargo Vessel (General Cargo Vessel)	Arrival Departed from TBA (Unknown) Cristobal (Panam)	Distance travelled n/a	Date & time 4/1/2020 7:09 am				
2. Seewind 2 Other / Unknown (Passenger / Ferry)							
3. HS Fortune Bay General Cargo Vessel (Container Ship)	Cristobal (Panama) TBA (Unknown)	Distance travelled n/a	Date & time 4/1/2020 7:08 am				
3. NO TOUCH TYPE APPROVA Other / Unknown (Tug boat)	Departed from Arriving to Cristobal (Panama) TBA (Unknown)	Distance travelled	Date & time 3/24/2020 9:16 am				
4. HS Dragon Bay General Cargo Vessel (Container Ship)	card (constrainty)	1.01.00	Contraction and and the set of MITT	Ed	it Delete		
05. Namma Shipping lines	Departed from Arriving to	Distance travelled	Date & time				-

The following additional filter options are available:

Anchorage/Lay up Report

Set the checkbox, if you want to see all available anchorage/lay up reports for the selected vessel.

BOSP Report

Set the checkbox, if you want to see all available BOSP reports for the selected vessel.

EOSP Report

Set the checkbox, if you want to see all available EOSP reports for the selected vessel.

Port Report

Set the checkbox, if you want to see all available port reports for the selected vessel.

• Bunker

Set the checkbox, if you want to see all available bunker reports for the selected vessel.

Bunker Correction

Set the checkbox, if you want to see all available bunker correction reports for the selected vessel.

Arrival Report

Set the checkbox, if you want to see all available arrival reports for the selected vessel.

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Departure Report

Set the checkbox, if you want to see all available departure reports for the selected vessel.

Noon Report

Set the checkbox, if you want to see all available noon reports for the selected vessel.

• Ship to Ship Transfer

Set the checkbox, if you want to see all available ship-to-ship transfer reports for the selected vessel.

• Debunker

Set the checkbox, if you want to see all available debunker reports for the selected vessel.

ROB Statement

Set the checkbox, if you want to see all available ROB statement reports for the selected vessel.

Only MRV Relevant

Set the checkbox, if you want to see only MRV-relevant reports.

• Order

Choose in which order you want to display the available report by selecting one of the following options from the drop-down list:

• Descending

The report list is displayed in descending order, by default.

- Ascending
- Start Date

Enter a start date for the period for which you want to get all reports.



CFM MRV & IMO DCS

End Date

Enter an end date for the period for which you want to get all reports.

Filter reports	×
Include:	
Anchorage/Lay up Report	✓ → Arrival Report
BOSP Report	✓ → Departure Report
EOSP Report	🗹 🔆 Noon Report
🔽 🚨 Port Report	🔽 🔄 Ship to Ship Transfer
🕑 📑 Bunker	🕑 📑 🖞 Debunker
☑ ☐ Bunker Correction	✓ ☐ ROB Statement
Only MRV relevant	
Order	
Descending	~
Start date	End date
4/6/2021	5/6/2021
Apply	filter

6.1.1. Edit Reports

You can edit reports that were created on board the vessel and sent to CFM MRV & IMO DCS. To do so, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Go to Vessels > Reports.
- 3. Choose a vessel from the sidebar on the left.
- 4. Choose the report that you want to edit from the **Reports** list.
- 5. Choose Edit from the Report Details card.
- 6. Depending on the type of report that you're editing, you can update the following fields:
 - Port

Change the port in which bunkering or debunkering were carried out, for example. Start typing a port into the field and the system provides you with a list of available ports for you to choose from.

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Departure Port

Change the departure port for arrival or departure reports, for example. Start typing a port into the field and the system provides you with a list of available ports for you to choose from.

Arrival Port

Change the arrival port for arrival or departure reports, for example. Start typing a port into the field and the system provides you with a list of available ports for you to choose from.

• Date & Time

The date and time values are read-only and cannot be changed retroactively.

Distance Travelled

Change the distance traveled for arrival or departure reports, for example. The distance is entered in nautical miles.

Cargo on Board

Change the number of passengers that were on board the vessel while the report was created.

Ballast Water

Change the amount of ballast water.

Cargo Operation During Port Stay

Set this checkbox, if a cargo operation was carried out while the vessel was in port.

BDN Number

Change the BDN number for a bunkering or debunkering report, for example.

Remark

Enter any additional remarks in this field.

Quantity

Change the quantity of fuel that was consumed during a voyage leg of a departure report, for example. The quantity is entered in metric tons (mt).

Example 1. Edit EOSP Report

The screenshot provided below is an example of which values can be added for an EOSP report.

Departure Port *		Arrival Port *	
Warrenpoint (United Kingdom)		Avonmouth (United Kingdom)	
Date & Time		Distance Travelled	
10/19/2020	1	230.00 nm	
Remark			
Consumptions			
Consumptions Consumption Type	Fuel Oil Type	Quantity	
Consumptions Consumption Type Main Engine	Fuel Oil Type VLSFO	Quantity 9.700 mt	
Consumptions Consumption Type Main Engine	Fuel Oil Type VLSFO	Quantity 9.700 mt	
Consumptions Consumption Type Main Engine Fuel Robs	Fuel Oil Type VLSFO	Quantity 9.700 mt	
Consumptions Consumption Type Main Engine Fuel Robs	Fuel Oil Type VLSFO Fuel Oil Type	Quantity 9.700 mt Quantity	
Consumptions Consumption Type Main Engine Fuel Robs	Fuel Oil Type VLSFO Fuel Oil Type VLSFO	Quantity 9:700 mt Quantity 22:400 mt	
Consumptions Consumption Type Main Engine Fuel Robs	Fuel Oil Type VLSFO Fuel Oil Type VLSFO MGO	Quantity 9.700 mt Quantity 22.400 mt 31.600 mt	

7. Choose Save to save your changes.

6.1.2. Reopen Reports

To reopen reports for modifications on board the vessel using CSM MRV & IMO DCS, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Go to Vessels > Reports.
- 3. Choose a vessel from the sidebar on the left.
- 4. Choose the report that you want to reopen from the **Reports** list.
- 5. Choose **Reopen** from the **Report Details** card.

6. Confirm the warning message.

MRV & IMO DCS		Dashboard	Monitoring Plans	Vessels	Reports	Power BI	tt <mark>_140</mark> ⊻.	Q	\odot
Reports Timeline									
Filter vessels			4/10/2019 - 5/	/10/2021 室					
1. GAZ PALMYRA Tanker (LPG Semi-Ref)	Port Bunker activity Singapore (Singapore) Bunker correction	Fuel oil types	Date & time 4/2/2020 12:50 p						
1. HS Manila General Cargo Vessel (General Cargo Vessel) 2. Seewind 2 Other / Usknown (Passeger / Ferry)	Port Bunker activity Singapore (Singapore) Bunker	Fuel oil types HFO HS	Date & time 4/2/2020 12:35 p	im D					
3. HS Fortune Bay General Cargo Vessel (Container Ship)	Port Bunker activity Singapore (Singapore) Bunker	Fuel oil types	Date & time 4/2/2020 12:27 o						
	Confirmation requ	iired							
	You are about to reopen a event report f want to proceed?								
	Confirm Abort								
6. HS Beck Bay General Cargo Vessel (Container Ship)	Departure Arriving to Cristobal (Panama) TBA (Unknown)	Cargo on board	Date & time 4/1/2020 7:38 an						
7. HS Recontre Bay (Recontre Multipurpose Carrier (ConBulker)									
9. HS Bonne Bay Multipurpose Carrier (ConBulker)	Arrival Departed from TBA (Unknown) Cristobal (Panama	Distance travelled	Date & time 4/1/2020 7:09 an						
11. HS White Bay Tanker (Product Tanker)									
12. HS Canada Bay Multipurpose Carrier (Multipurpose Carrier)	Departed from Arriving to Cristobal (Panama) TBA (Unknown)	Distance travelled n/a	Date & time 4/1/2020 7:08 an						
14. HS Alexander Bay Multiporpose Carrier (Multiporpose Carrier)	Departed from Arriving to	Distance travelled	Date & time						
Seneral Cargo Vessel (Container Ship)	Cristobal (Panama) TBA (Unknown)	n/a	3/24/2020 9:16 a						
17. HS Freshwater Bay General Caroo Vessel (Container Shio)	Departed from Arriving to	Distance travelled	Date & time						

6.1.3. Delete Reports

To delete reports, proceed as follows.

- 1. Launch CFM MRV & IMO DCS from your CFM instance.
- 2. Go to Vessels > Reports.
- 3. Choose a vessel from the sidebar on the left.
- 4. Choose the report that you want to delete from the **Reports** list.
- 5. Choose **Delete** from the **Report Details** card.
- 6. Confirm the warning message.

IMO DCS		Dashboard	Monitoring Plans Vessels	Reports	Power Bl 🛱 🛨 🗘 😒.
Reports Timeline					
Filter vessels			4/10/2019 - 5/10/2021 😨		
1. GAZ PALMYRA Tanker (LPG Semi-Ref)	Port Bunker activity Singapore (Singapore) Bunker correction	Fuel oil types	Date & time 4/2/2020 12:50 pm		
1. HS Manila General Cargo Vessel (General Cargo Vessel) 2. Seewind 2 Other / Unknown (Passenger / Ferry)	Port Bunker activity Singapore (Singapore) Bunker	Fuel oil types HFO HS	Date & time 4/2/2020 12:35 pm		
3. HS Fortune Bay General Cargo Vessel (Container Ship)	Port Bunker activity Singapore (Singapore) Bunker	Fuel oil types	Date & time	Departure port Cristobal (Panam	
	Confirmation required You are about to delete a event report. This ope Confirm Abort				
6. HS Beck Bay General Cargo Vessel (Container Ship) 7. HS Recontre Bay (Recontre Hightnersees Carrier (Conflict)	Departure Arriving to Cristobal (Panama) TBA (Unknown)	Cargo on board O passengers	Date & time 4/1/2020 7:38 am		
9. HS Bonne Bay Multipurpose Carrier (CenBulker)	Arrival Departed from TBA (Unknown) Cristobal (Panama)	Distance travelled	Date & time 4/1/2020 7:09 am		
17. HS White Bay Tanker (Product Tanker) 12. HS Canada Bay Multipurpose Carrier (Multipurpose Carrier)	Departed from Arriving to Cristobal (Panama) TBA (Unknown)	Distance travelled n/a	Date & time 4/1/2020 7:08 am		
14. HS Alexander Bay Multipurpose Carrier (Multipurpose Carrier) 15. Indian Bay General Cargo Vessel (Container Ship)	Departed from Arriving to Cristobal (Panama) TBA (Unknown)	Distance travelled	Date & time 3/24/2020 9:16 am		
17. HS Freshwater Bay General Cargo Vessel (Container Ship)	Departed from Arriving to	Distance travelled	Date & time		

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6.2. Timeline

The **Timeline** tab displays the reports that were carried out over a specified period of time in a timeline and grouped by vessel.

By default, the last two weeks are pre-selected. Additionally, you can filter the timeline by changing the start and end date of the time period for which you want to see all reports. Choose the filter icon (=) and enter different dates in the **Start Date** and **End Date** fields.

Each day in the timeline is represented as a column.

Each report that was carried out on a specific date is displayed with the icon for the corresponding report type. If several reports were carried out on the same date, a small number icon indicates how many.

Choose an icon from the timeline to see further details on the report, such as report type, date and time it was carried out. Click on the report type in the flyout window and you are automatically navigated to the **Reports** subtab providing you with all details on the report and further editing options.



7. Reports

The **Reports** tab provides an overview of the MRV and IMO DCS-relevant reports that were carried out over the course of one year.

The tab consists of the following subtabs:

MRV - Summary

Summarizes all MRV-relevant emissions reports that were carried out over the course of a year sorted by vessel.

• MRV - By Vessel

Summarizes all MRV-relevant emissions reports that were carried out over the course of a year for a selected vessel. The reports within the selected vessel are then sorted by month.

• IMO DCS - Summary

Summarizes all IMO DCS reports that were carried out over the course of a year sorted by vessel.

• IMO DCS - By Vessel

Summarizes all IMO DCS reports that were carried out over the course of a year for a selected vessel. The reports within the selected vessel are then sorted by month.

7.1. MRV - Summary

The **MRV** - **Summary** subtab lists all emissions reports that were carried out in MRV-relevant areas over the course of a year sorted by vessel.



NOTE

The data shown on the subtab only includes complete voyage legs. So the numbers displayed may vary from what has actually been reported up until the current date.

By default, the emissions reports for the current year are displayed. You can select a different year from the drop-down list above the table. Choose any of the last five years.

Additionally, you can filter the list of emissions reports for a specific vessel or verifier, for example. Enter a keyword in the search bar below the table.

The following data is displayed for each report:

Vessel picture and name

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- · Verifier of the report
- Status of the report
- Aggregated CO₂ emissions in tons
- · Time spent at sea
- · Distance traveled in nautical miles
- Fuel consumption per distance in kg/nm
- CO₂ emissions per distance in kg CO₂/nm
- Transport work in MT-nm

Choose a report from the table to see further details on fuel consumptions and CO_2 emissions.

									ver Bl 🛗 🛨 🛙
Su	mmary MRV - By Vessel IMO DCS	- Summary	IMO DCS - I	By Vessel					
nis	sions Report 🛈								202
	Vessel 🔺	Verifier	Status	Aggregated CO; emissions	Time spent at sea	Distance travelled	Fuel consumption per distance	CO2 emissions per distance	Transport work
l,	1. Peking		Ok	n/a	n/a	n/a	n/a	n/a	n/a
	02. HS		Ok	n/a	n/a	n/a	n/a	n/a	n/a
	04. HS	DNV GL	Ok	375 t	105:54	1,480 nm	81 kg/nm	253 kg CO ₂ /nm	10,855,634 MT-nm
	05. HS	DNV GL	Ok	664 t	167:48	2,592 nm	82 kg/nm	256 kg CO2/nm	14,923,166 MT-nm
	06. HS	DNV GL	Ok	555 t	146:20	1,975 nm	89 kg/nm	281 kg CO2/nm	12,412,565 MT-nm
Ň	07. MC		Ok	n/a	n/a	n/a	n/a	n/a	n/a
	08. HS	DNV GL	Ok	842 t	310:08	2,172 nm	124 kg/nm	388 kg CO2/nm	13,406,629 MT-nm
1	09. HS	DNV GL	Ok	240 t	97:30	919 nm	84 kg/nm	262 kg CO ₂ /nm	7,518,412 MT-nm
2	10. HS	DNV GL	Ok	737 t	287:24	3,356 nm	70 kg/nm	219 kg CO ₂ /nm	21,247,339 MT-nm
H.	11. HS	DNV GL	Ok	n/a	n/a	n/a	n/a	n/a	n/a
į.	12. HS	DNV GL	Ok	n/a	n/a	n/a	n/a	n/a	n/a
1	17. HS	DNV GL	Ok	675 t	198:00	2,902 nm	75 kg/nm	232 kg CO2/nm	6,252,086 MT-nm
	18. HS	DNV GL	Ok	n/a	n/a	n/a	n/a	n/a	n/a
	20. HS		Ok	n/a	n/a	n/a	n/a	n/a	n/a
s	22. HS		Ok	377 t	203:12	2,013 nm	60 kg/nm	187 kg CO2/nm	6,491,787 MT-nm
2	23. HS		Ok	442 t	253:13	2,111 nm	67 kg/nm	210 kg CO2/nm	9,820,199 MT-nm
									Number of items

7.2. MRV - By Vessel

The MRV- By Vessel subtab lists all emissions reports that were carried out in MRV-relevant areas over the course of a year for a selected vessel. The reports are sorted by month.

By default, the monthly emissions reports for the current year are displayed. You can select a different year from the drop-down list above the table. Choose any of the last six years.

Choose a vessel from the sidebar on the left to see the monthly emissions reports for the selected vessel. You can also filter the sidebar for a specific vessel by entering its name in the search bar.

The status indicator next to a vessel in the list shows you the status of the monthly emissions reports.

The following data is displayed for the monthly emissions report:

· Month in which the report was carried out

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- Number of visits
- Aggregated CO₂ emissions in tons
- Time spent at sea
- · Distance traveled in nautical miles
- CO₂ emissions per distance in kg CO₂/nm
- · Fuel consumption per distance in kg/nm
- Transport work in MT-nm

Choose a monthly report from the table to see further details on fuel consumptions and CO_2 emissions.

Ć	MRV & IMO DCS									Repor	ts		Ŭ	, ⊥	Дар
м	RV - Summary MRV - By Vessel II	мо	DCS - Summary IN	10 DCS - By Vess	el										
Filte	r vessels														
-	Etoille Dry-Bulk Carrier (Other / Unknown Bulk Carri	1	Monthly Emi	ssions Repo	ort										2020 ¥
10	1. Peking		Month 🛦	Visi	its	Aggregated CO ₂ emissions	Time spent at sea	Distance travelled	CO2 emissions per di	stance Fue	l consumpt	ion per dist	Transport	vork	
-	Dry-Bulk Carrier (Bulk Carrier)		January	7		1,363 t	301:06	4,532 nm	301 kg CO ₂ /nm	94	kg/nm		26,180,80	2 MT-nm	
	02. HS (ALSTERSPRINT Other / Unknown (Cement Carrier)		February	8		1,591 t	353:36	5,213 nm	305 kg CO2/nm	95	kg/nm		32,149,20	2 MT-nm	
	04. HS (ELBCARRIER) General Cargo Vessel (Container Ship)		March	11		1,642 t	385:19	5,507 nm	298 kg CO2/nm	93	kg/nm		33,846,45	7 MT-nm	
-	05. HS (ELBFEEDER)		April	13		1,695 t	433:06	6,250 nm	271 kg CO2/nm	85	kg/nm		37,260,14	0 MT-nm	
	General Cargo Vessel (Container Ship)		May	14		1,669 t	464:18	6,355 nm	263 kg CO2/nm	82	kg/nm		30,634,31	1 MT-nm	
1	06. HS (ELBTRADER) General Cargo Vessel (Container Ship)		June	12		1,384 t	389:30	5,395 nm	256 kg CO2/nm	80	kg/nm		29,819,44	1 MT-nm	
0	07. MONSUN General Cargo Vessel (Container Ship)		July	0		n/a	n/a	n/a	n/a	n/a	1		n/a		
	08. HS (NCL Svelgen)		August	8		1,208 t	368:52	4,928 nm	245 kg CO2/nm	78	kg/nm		32,291,09	4 MT-nm	
- 100	Tanker (Oil and Chemical Tanker)		September	7		1,240 t	377:06	5,257 nm	236 kg CO2/nm	75	kg/nm		38,622,13	3 MT-nm	
	General Cargo Vessel (Container Ship)		October	7		1,341 t	378:54	5,839 nm	230 kg CO ₂ /nm	73	kg/nm		43,133,64	5 MT-nm	
2.7	10. HS (Katherine Borc General Cargo Vessel (Container Ship)		November	7		1,303 t	382:05	5,181 nm	252 kg CO ₂ /nm	80	kg/nm		35,989,97	8 MT-nm	
4	11. HS (ELBMASTER)		December	7		1,298 t	381:42	5,151 nm	252 kg CO2/nm	80	kg/nm		31,445,93	1 MT-nm	
	12. HS (MARIS) General Cargo Vessel (Container Ship)		Sum	10	1	15,733 t	4215:34	59,608 nm	264 kg CO ₂ /nm	83	kg/nm		371,373,1	35 MT-n	n
-	17. HS ApolloBytes(AMELIE B General Cargo Vessel (Container Ship)														
-	18. HS (ELBSAILOR) General Cargo Vessel (Container Ship)														
-	20. HS (Libertas-H) General Cargo Vessel (Container Ship)														
£.,	22. HS (Astrorunner) General Cargo Vessel (Container Ship)														
	23. HS (Astrosprinter)														

7.3. IMO DCS - Summary

The **IMO DCS** - **Summary** subtab lists all IMO DCS reports that were carried out over the course of a year sorted by vessel.

By default, the IMO DCS reports for the current year are displayed. You can select a different year from the drop-down list above the table. Choose any of the last six years.

Additionally, you can filter the list of IMO DCS reports for a specific vessel or verifier, for example. Enter a keyword in the search bar below the table.

The following data is displayed for each report:

- · Vessel picture and name
- · Verifier of the report
- · Status of the report
- · Distance traveled in nautical miles
- Hours underway
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Consumptions

Choose a report from the table to see further details on daily consumptions of the vessel.

MRV & IMO DCS			Dashboard	Monitoring Plans	Vessels	Reports	Power BI	Ť , ⊻	
MRV - Summary MRV - By Vessel	IMO DCS - Summary	IMO DCS - By Vessel							
IMO DCS Report								••• 2	2022 ~
Vessel 🔺	Verifier Sta [Distance travelled		Hours underway		Consum	nptions		
	DNV OK () nm		02:04		44.472	mt HFO		
	DNV Ok r	n/a		n/a		-			
••••••••••••••••••••••••••••••••••••	SC Ok r	n/a		n/a		-			
	LR Ok r	n/a		n/a		-			
	DNV Ok r	n/a		n/a		-			
	Ok	n/a		n/a		-			
	Ok	n/a		n/a		-			
a second	Ok) nm		00:00		-			
1 months and	Ok) nm		00:00		-			
8 mm	Ok	n/a		n/a		-			
	Ok	n/a		n/a		-			
 International 	Ok	n/a		n/a		-			
Q								Number of iter	ms: 49

You can also export the IMO DCS data to an MS Excel spreadsheet.

To do so, choose the More icon (...) and select one of the following options:

Export Overview

Exports the aggregated data for all vessels as displayed on the subtab.

Export Daily Report

Exports the individual daily reports of each vessel.

7.4. IMO DCS - By Vessel

The IMO DCS - By Vessel subtab lists all IMO DCS reports that were carried out over the course of a year for a selected vessel. The reports are sorted by month.

By default, the IMO DCS reports for the current year are displayed. You can select a different year from the drop-down list above the table. Choose any of the last six years.

Choose a vessel from the sidebar on the left to see the IMO DCS reports for the selected vessel. You can also filter the sidebar for a specific vessel by entering its name in the search bar.

The status indicator next to a vessel in the list shows you the status of the IMO DCS reports.

The following data is displayed for the monthly IMO DCS reports:

- · Month in which the report was carried out
- · Distance traveled in nautical miles

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• Hours underway

Choose a report from the table to see further details on daily consumptions of the vessel.

MRV & IN	IO DCS		Dashboard	Monitoring Plans	Vessels Reports	Power BI 🛱 ⊻ Ω ₄₃₇ 🤇
MRV - Summary	MRV - By Vessel	IMO DCS - Summary	IMO DCS - By Vessel			
Filter vessels	Ŕ					
		Monthly	MO DCS Report			2021 ~
		Month 🛦	Distance travelled	Hours underway	HFO	MDO/MGO
		January	4.846 nm	356:28	334,212 mt	74,672 mt
	_	February	4.944 nm	347:38	334,548 mt	62,626 mt
		March	5.467 nm	395:26	364,64 mt	76,726 mt
		April	6.240 nm	433:36	392,3 mt	111,985 mt
		May	5.700 nm	417:04	350 mt	109,034 mt
		June	5.464 nm	411:17	375,1 mt	88,393 mt
		July	5.443 nm	381:33	373,3 mt	91,103 mt
		August	1.524 nm	133:10	102,3 mt	14,027 mt
		Septembe	. 0 nm	00:00	n/a	n/a
		October	0 nm	00:00	n/a	n/a
		November	0 nm	00:00	n/a	n/a
		December	0 nm	00:00	n/a	n/a
C 1.2 (1)		Sum	39.628 nm	2876:12	2.626,4 mt	628,566 mt



8. Power Bl

The **Power BI** tab provides an overview of the predefined reports provided by Hanseaticsoft GmbH and created using the integrated Microsoft Power BI solution.

On this tab, you can also embed customized reports within CFM MRV & IMO DCS that you created with your own Microsoft Power BI license.



NOTE

You need to purchase this feature separately, to leverage the Power BI integration.

Additionally, you can download the predefined reports, modify them and make them available to all your colleagues online.

For more detailed information, see the manual on CFM Power BI Management.

The following reports are available on this tab:

Bunker map

Displays the locations in which bunker reports were created. The data is taken from CSM Bunker or from the bunker reports created in CSM MRV & IMO DCS

Consumptions

Provides you with an overview of the consumption data of your fleet. Thus, allowing you to detect any unusual consumption early and correct any issues with the hull or engine performance that might exist.

Current Voyage

Provides an overview of the most recent voyages of a selected vessel and predicts its arrival time and needed consumption of the main engine. Additionally, the remaining voyage speed and GPS speed is displayed.

• EEOI

Provides you with an overview of the consumption performance of your vessel, based on the schedule, and enables you to detect any irregularities in consumption or emissions.

• Engine

Displays the performance of the main and auxiliary engines.

Event Report Timeline

Provides you with an overview of event reports carried out over time and their corresponding KPIs.



• FOC

Provides an overview of the vessels' fuel oil consumption based on data taken from event reports. Thus, users get an overview of their vessels' consumption and can detect any operational problems easily.

Route Map

Provides a quick snapshot of the selected vessel's journey.

Speed

Shows detailed speed data of a selected vessel taken from event reports

8.1. Bunker Map

The **Bunker Map** report displays the locations in which bunker reports were created. The data is taken from CSM Bunker or from the bunker reports created in CSM MRV & IMO DCS.

The size of the bubble on the map indicates the number of reports that were created in a location. So, the larger the bubble, the more reports were created in that location.

The data in the report is provided in real-time.



The following features are provided by the report:

- Filter the report for charter name, local time, and report type.
- Zoom in and out of the map by choosing the plus (+) and minus (-) buttons.

Export data by choosing More options (···) > Export data.
 In the dialog window, choose the data that you want to export and the file format.



8.2. Consumptions

The **Consumptions** report provides you with an overview of the consumption data of your fleet. Thus, allowing you to detect any unusual consumption early and correct any issues with the hull or engine performance that might exist.

The data in the report is updated on a daily basis.

The report is divided into the following tabs:

Report

Displays the actual report consisting of the following charts:

Information on vessel particulars

The card on top of the page displays the charter name, reference draft type, draft forward, draft aft, and the average reference draft of the selected vessels.

• ME Cons[mt/24h] over Speed

The scatter plot displays the main engine consumption [mt/24h] over average speed GPS [knot].

The **x** axis in the plot represents: Average speed [knot] = Sailed distance GPS [nautical miles] / Steaming time [h].

The **y** axis in the plot represents: Main engine consumption [mt/24h] = Sum of main engine consumption quantity (all oil types / Steaming time [h] * 24.

The legend above the plot displays the different vessels that are represented in the plot.

• ME Cons[mt/24h] over RPM

The scatter plot displays the main engine consumption [mt/24h] over average shaft [RPM].

The **x axis** in the plot represents: Average shaft [RPM] is pre-calculated in CSM and overwritten by the values entered in CFM, if they exist.

The **y axis** in the plot represents: Main engine consumption [mt/24h] = Sum of main engine consumption quantity (all oil types / Steaming time [h] * 24.

The legend above the plot displays the different vessels that are represented in the plot.

ME Consumption[mt]

The column chart displays the main engine consumption [mt] over time. The data can be drilled up or drilled down to year, quarter, month, or day level.

The legend above the plot displays the different vessels that are represented in the plot.

AE Consumption[mt]

The column chart displays the auxiliary engine consumption [mt] over time. The data can be drilled up or drilled down to year, quarter, month, or day level.

The legend above the plot displays the different vessels that are represented in the plot.

Cylinder Oil Consumption[kg]

The column chart displays the cylinder oil consumption [kg] over time. The data can be drilled up or drilled down to year, quarter, month, or day level.

The legend above the plot displays the different vessels that are represented in the plot.

AE Energy Produced[kWh]

The line chart displays the energy produced by the auxiliary engine during the reporting period. The data can be drilled up or drilled down to year, quarter, month, or days level.

• Live Reefers

The line chart displays the number of live reefers over each event report. The data is taken from a departure report and transferred to the other reports until another departure report begins.

Cargos & Containers

The line chart displays cargos [mt/100] and the number of containers over each event report. The data is taken from a departure report and transferred to the other reports until another departure report begins.

• Draft

The line chart displays cargos [mt/100] and the number of containers over each event report.

• Trim

The line chart displays tim [m] over each event report.

Raw Data

Displays the detailed data that lies behind the graphical representations on the Report tab.

User Manual

Provides helpful information on how to interpret the data displayed in the report.

CFM MRV & IMO DCS

		Dashboard	Monitoring Plans	Vessels	Reports	Power BI	Ť <mark>14</mark> 🔸	25 <mark>25</mark> 02
Factore D Charter name	Design Draft Reference draft type	9.90 Draft fwd	0.00 Draft aft	9.5 Av	90 ve reference draft	0		>
skide E	Scantlino Draft	9.90	0.00	9.9	90		⊖ Search	
ME Cons[mt/24h] over Spee	d		ME Cons[mt/24h] over RPI	M			is (All)	
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The following general features are provided by the report:

- Filter the report for UTC time, charter name, event report type, and voyage number.
- Change the layout by choosing More options (***) and then choose one of the following options:
 - Show as a table
 - Sort descending
 - Sort ascending
 - Sort by





Export data by choosing More options (···) > Export data.

In the dialog window, choose the data that you want to export and the file format.



8.3. Current Voyage

The **Current Voyage** report provides an overview of the most recent voyages of a selected vessel and predicts its arrival time and needed consumption of the main engine. Additionally, the remaining voyage speed and GPS speed is displayed.

By default, no vessel is pre-selected by the system and thus no data is displayed in the report. Select a vessel from the **Christian name** filter to get the data for a specific vessel.

The data in the report is provided in real-time.

The report is divided into the following tabs:

Current voyage

Displays the actual report consisting of the following charts:

Remaining Voyage Speed

The table provides an estimation of the estimated time to arrival (ETA) based on different speed benchmarks. The ETA is calculated as follows:

ETA = UTC time of current report + Distance to arrival port / Benchmark speed.



NOTE

The estimation is only possible when the latest report of the vessels was an EOSP or noon report as the calculation is based on the remaining distance to the arrival port.



GPS Speed

The chart displays the GPS speed and compared to the charterer's speed order. Thus, you can easily identify any irregularities.

Accumulated Current Voyage

The table provides you with information on nautical data of the most recent voyages including:

- · Sailed distance in nautical miles taken from event reports
- Remaining distance in nautical miles taken from event reports
- GPS speed in knot Sailed distance GPS [nm] / Steaming time [h]
- LOG speed in knot Sailed distance LOG [nm] / Steaming time [h]
- · Charterer's speed order taken from event reports
- ETA (Estimated time needed to arrival port)
 Equals the UTC time of the current report + Distance to arrival port / Charterer's speed order of the current report
- Main engine consumption in metric tons taken from event reports
- Estimated main engine consumption needed for the remaining sea passage Equals ME consumption of the current report * Distance to arrival port / GPS traveled of the current report

User Manual

Provides helpful information on how to interpret the data displayed in the report.

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The following general features are provided by the report:



- Change the layout by choosing More options (***) and then choose one of the following options:
 - Show as a table
 - Sort descending
 - Sort ascending
 - Sort by

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8.4. EEOI

The **EEOI** (energy efficiency output index) report provides you with an overview of the consumption performance of your vessel and enables you to detect any irregularities in consumption or emissions. The standard EEOI report provided within CFM MRV & IMO DCS uses the voyage number from the vessel's schedule and the Power BI EEOI report uses the actual voyage number provided by the event report.

By default, data from all vessels is displayed in the report. You can adjust the filters to get the data you need.

The report is divided into the following tabs:

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High-level Summary

The table on this tab displays the most important measures for EEOI and consumption, such as CO_2 emissions. The Voyage-Departure Level chart displays the EEOI and consumption metrics on trip level (from departure to arrival).

• EEOI

The table on this tab provides information on the following metrics:

- CO₂ emissions [mt] for each event report. The Total row displays the sum of all CO₂ emissions of the specific voyage.
- Cargo [mt] indicates the amount taken from the departure report and transferred to other reports until the next departure report begins. The Total row displays the average value of cargo that was transported for the specific voyage.
- **GPS traveled [nm]** indicates the sailed distance GPS from the event report. The **Total** row displays the sum of all traveled distances for the specific voyage.
- EEOI = CO₂ emissions * 1000000 / (Cargo * Distance Traveled GPS)
 Total EEOI = Sum (CO₂ emissions) * 1000000 / (Ave (Cargo) * Sum (Distance Traveled GPS))
- CO₂/Cargo

Total CO₂/Cargo = Sum (CO₂ emissions) / Ave(Cargo)

- Total Containers[in Teu] = Full Teu Containers + Full Feu Containers * 2
- CO₂/Container = Sum (CO₂ emissions) / Total Containers in Teu

The line chart displays EEOI for each event report. The chart is interactiev with the table. You can click on a voyage number on the table to filter the line chart, for example.

Consumption

The table and chart on this tab display consumption-related data. The different metrics are also explained in a legend next to the table.

MRV & IMO tt ⊥ Q 107 166 93 Bunker mac 1.9 Consumptions Charter name is (All) Current Voyage 11/28/2017 15:30 11/28/2017 16:18 BOSP Report UTC time 11/29/2017 11:07 EEOI Engine 212.28 Event report timelir 17.13 FOC Voyage-Departure Level Route map Speed High-level Summary EEOI Consumption

The data in the report is updated on a daily basis.



CFM MRV & IMO DCS

The following general features are provided by the report:

- Filter the report for charter name, UTC time, voyage number, and event report type.
- Change the layout by choosing More options (***) and then choose one of the following options:
 - Show as a table
 - Sort descending
 - Sort ascending

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Learn about aggregates Export Cancel	

8.5. Engine

The **Engine** report displays the performance of the main and auxiliary engines.

The data in the report is updated on a daily basis.

The report is divided into the following tabs:

• ME monitor

Displays two charts: SFOC/Load% and Propeller Curve.

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The metrics displayed in the charts are defined as you can see below:

- SFOC (specific fuel oil consumption) = Sum (main engine consumption[mt]) * 1,000,000 / ShaftAverage shaft power[kW] / Steaming time[h]
- Load% = Average shaft power [kW] / Continuous output
- The average shaft RPM is pre-calculated in CSM MRV & IMO DCS and is overwritten by the entered values, if any were made.
- The average power at shaft is raw data taken from event reports.
- ME monitor formula

This tab displays the same charts as on the **ME monitor** tab, but provides you with the estimated formulas.

AUX monitor

Provides information on each auxiliary engine in a table, such as engine ID, serial number and make.

The scatter plot on the tab displays the auxiliary engine load in percent over time. It is calculated as follows:

Auxiliary engine load % = Energy produced in report period (kWh) / Running hours in report period [h] / Auxiliary engine continuous output from particular * 100

User manual

Provides helpful information on how to interpret the data displayed in the report.



The following general features are provided by the report:

- Filter the different charts in the report for different parameters such as UTC time and christian name of the vessel.
- Change the layout by choosing More options (***) and then choose one of the following options:
 - Show as a table
 - Sort descending
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8.6. Event report timeline

The **Event report timeline** report provides you with an overview of event reports carried out over time and their corresponding KPIs.

The data in the report is updated on a daily basis.

The report consists of the following charts:



TIP

By default, no vessel is pre-selected by the system and thus no data is displayed in the report. Select a vessel from the **Christian name** filter to get the data for a specific vessel.

Operational Share

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If you hover over the vessel name under **Hover over to see operational share of**, two pie charts are displayed in a flyout window.

The first pie chart displays the average percentages of anchorage days, port days, steaming days, and maneuvring days of all vessels. The second pie chart displays the percentage of anchorage days, port days, steaming days, and maneuvring days of the selected vessel.

Particulars

If you hover over the vessel name under **Hover over to see particulars of**, the particulars information of the selected vessel are displayed in a table.

Information such as vessel type, IMO number, and build series is displayed.

Reporting Gap & Overlaps

The bar chart displays all event reports of the selected vessel over the course of time allowing you to identify any gaps or overlaps. A tooltip for each bar provides further details on the event type, UTC, and reporting period.

Event Report Timeline

The line chart provides an overview of all event reports of the selected vessel over the course of time and grouped by trips (from departure to arrival).

Validated

The chart provides an overview which of the event reports of the selected vessel were validated and which were not.

Raw Data Table

At the bottom of the tab a raw data table lists all detailed data of each event report. The raw data table provides the data used for the graphical representations in the charts. The table is interactive with the charts above, meaning you can choose a bar from the **Reporting Gap & Overlaps** chart to see the detailed data of that report, for example.



The following general features are provided by the report:

- Filter the report for UTC time and event report type
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- Change the layout by choosing More options (***) and then choose one of the following options:
 - Show as a table
 - Sort descending
 - Sort ascending
 - Sort by
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• Export data by choosing More options (...) > Export data.

In the dialog window, choose the data that you want to export and the file format.

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8.7. FOC

The **FOC** (fuel oil consumption) report provides an overview of the vessels' fuel oil consumption based on data taken from event reports. Thus, users get an overview of their vessels' consumption and can detect any operational problems easily.

The data in the report is provided in real-time.

The report consists of the following charts:

• Total Fuel Consumption [mt]

The bar chart provides a high-level summary on the total fuel consumption in metric tons for each day in a month. The data is broken down for main engine, auxiliary engine, and boiler.

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• ME FOC [mt]

The bar chart provides an overview of the main engine's fuel consumption in metric tons for each day in a month. The data is broken down by fuel oil type.

• AE FOC [mt]

The bar chart provides an overview of the auxiliary engine's fuel consumption in metric tons for each day in a month. The data is broken down by fuel oil type.

• Boiler FOC [mt]

The bar chart provides an overview of the boiler consumption in metric tons for each day in a month. The data is broken down by fuel oil type.

The **Details** tab provides detailed data on each event report including more information on values, such as wind, swell, and distance traveled.



The following general features are provided by the report:

- Filter the report for charter name, date, and voyage number
- Drill up or down to year, month, or day level data by clicking on the chart and using the four arrow icons
- · Drill through to detailed data

If you detect any issues in the high-level data, you can right-click on the suspicious data in the bar chart and choose **Drill through > Details** to see the detailed data.

- Enlarged view of each chart Choose the Focus mode icon to see a bar chart in full size on the screen minimizing the other charts.
- Change the layout of the table by choosing **More options** (...) and then choose one of the following options:
 - Show as a table
 - Sort descending
 - Sort ascending

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8.8. Route Map

The **Route Map** report provides a quick snapshot of the selected vessel's journey. Color indicators display the different types of speed of the vessel.

The data in the report is provided in real-time.

The report is divided into the following tabs:

Route map

Displays the route of a selected vessel on a world map.

User manual

Provides helpful information on how to interpret the data displayed in the report.



CFM MRV & IMO DCS



The following general features are provided by the report:

- Filter the report for the Christian name of a vessel, UTC time, and voyage number.
- Change the layout by choosing More options (***) and then choose one of the following options:
 - Show as a table
 - Sort descending
 - Sort ascending
 - Sort by





• Export data by choosing More options (···) > Export data.

In the dialog window, choose the data that you want to export and the file format.



8.9. Speed

The **Speed** report shows detailed speed data of a selected vessel taken from event reports. The data in the report is provided in real-time.



TIP

By default, no vessel is pre-selected by the system and thus no data is displayed in the report. Select a vessel from the **Charter name** filter to get the data for a specific vessel.

The report is divided into the following tabs:

• Speed

Displays the report data in the following charts:

Speed

The line chart displays the average GPS speed [kn], the average speed LOG [kn], and the charterer's speed order allowing you to compare the different speeds.

GPS Speed Distribution

The chart displays the average speed GPS bin which is the average speed GPS rounded to 0.5 level. It shows the frequency of different speed levels for a particular vessel in the selected time period.

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GPS Speed Cumulative Distribution

The chart shows the cumulative frequency of different speed levels for a particular vessel in the selected time period.

Speed LOG Static Correction

The line chart shows the STW/SOG over time. STW (speed through water) / SOG (speed over ground) is calculated as average speed log / average speed GPS.

Speed Log Dynamic Correction

The line chart shows STW/SOG over average speed GPS [kn].

• LOG vs. GPS

The chart displays the average speed log [kn] compared to the average speed GPS [kn].

User manuel

Provides helpful information on how to interpret the data displayed in the report.



The following general features are provided by the report:

- Filter the report for charter name, UTC time, event report type, swell direction, wind direction, and wind strength
- Change the layout by choosing More options (…) and then choose one of the following options:
 - Show as a table
 - Sort descending
 - Sort ascending

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