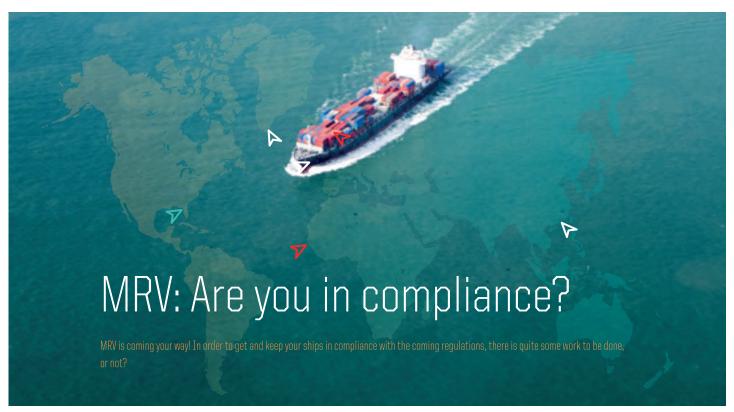
IVY® Basic





MRV reporting

From January 1st 2018, shipping companies will have to monitor and formally submit the reports of the following verified data per single voyages to, from and/or between ports in the European Union:

- Port of departure and arrival, including time and date;
- Distance travelled & time spent at sea;
- Cargo carried;
- Fuel consumption ϑ emission factor ϑ emitted CO^2

To avoid the extra paperwork and related manual errors in order to report these details per ship, per voyage, there is a clear solution. Automatic data collection in combination with automated MRV reports are the answer to push back the extra work and to be in compliance with the EU MRV regulations.

IVY® Basic: From sensor to MRV report

IVY® will give you MRV reporting at your fingertips. From ship to shore, IVY® automatically collects data from various sensors and provides insight into the relevant data and KPIs. All this information is displayed on an easily-accessible dashboard either on an office desktop, mobile laptop, tablet or any other device.

Get in compliance by automated voyage reports including automatic berth and anchorage detection, daily reports, fuel oil consumption monitoring, and MRV reports with IVY® Basic. contact our IVY experts for more information or a free demo.

From Basic reporting to Expert performance management

IVV® has a solution for every performance goal and budget, and grows together with the ship owner's needs to make sure the ship is ready for the future and in compliance with (future) environmental rules and regulations. If you want to step it up a notch, besides basic reporting, data enrichment and more than 30 KPIs are part of the Advanced package. And those who desire expert propulsion performance management, can save up to 20% on their fuel and maintenance bill by using the IVV® Expert modules, such as hull and propeller efficiency module. Find out more about the advanced and expert features of IVV® via www.vaf.nl/IVV or contact us for a free demo.

WWW.VAF.NL/MRV



Build your own IVY



add on the expert modules to maximise your performance efficiency, e.g. hull & propelle fouling module



advance and improve your propulsion performance by data enrichment and target 30+ KPIs



start reporting on your fuel consumption. and generate automated voyage reports for MRV and IMO

Features and prices

Via continuous improvement and its modular structure, IVV® can grow alongside your ambition, when your needs change because of new rules and regulations or when you want to improve your ship's performance even further.

Features per module	IVY® BASIC	IVY® ADVANCED	IVY® EXPERT
Visualisation of KPIs	± 15	± 30	± 40
Voyage overview, integrated voyage, MRV $\$\text{IMO}$ reporting	-	-	
Ship locations, track and heading	-	-	
Fuel consumption, FOC	•	•	
Ship speed (STW / SOG)	_	-	
Zoom in on individual sensor signals	-	-	
Compare			
Compare ship's KPIs / sensor data			
Fleet overview and performance	_	-	
Data enrichment			-
SFOC, engine load, power speed diagram		_	
Torque, shaft rpm, power, thrust and propeller quotient		-	•
Advanced Hull & Propeller module:			-
Hull resistance (over time)			
Propeller performance (over time)			
Quantified additional FOC in \$ due to performance decrease			•

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TO BE
REALLY
SURE