

EXCELLENCE IN CONTROL

# SPM

## SHIP PERFORMANCE MONITORING SYSTEM



norwegian  
electric systems

part of HAV group

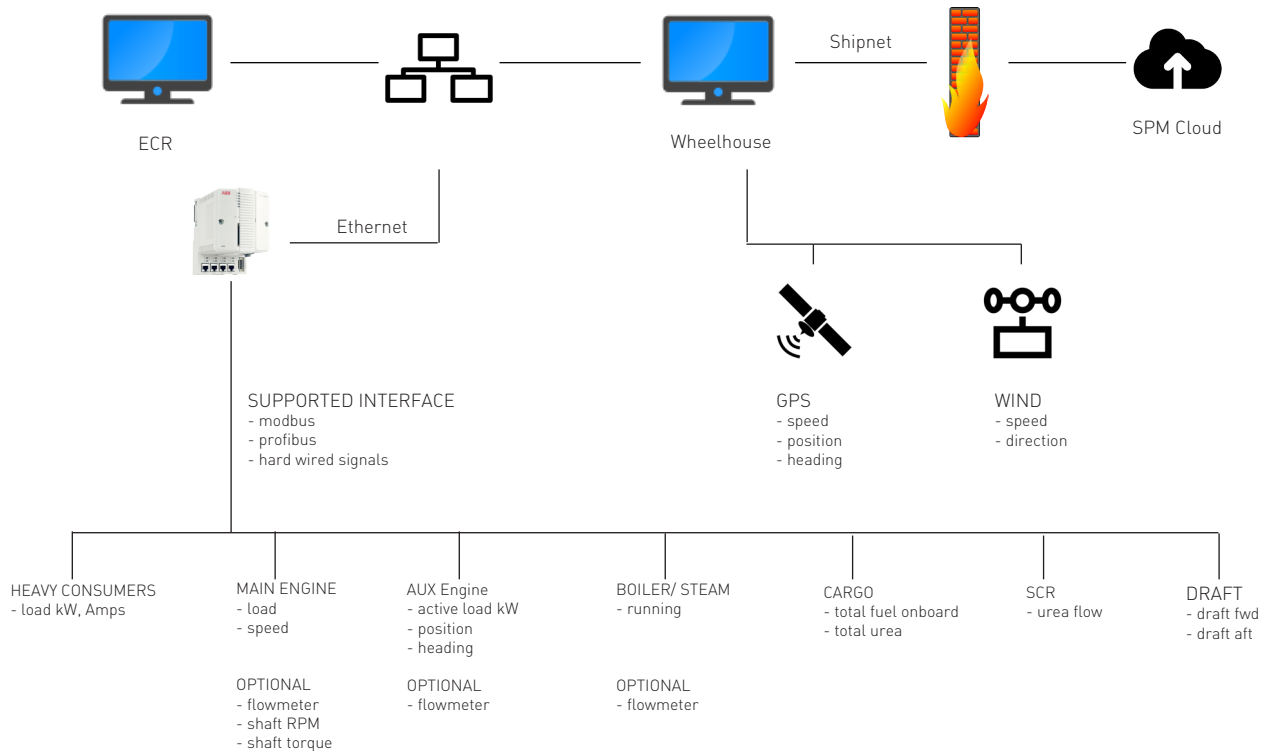
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## SHIP PERFORMANCE MONITORING SYSTEM

Fuel consumption represents a major cost in the marine industry. Monitoring and collecting accurate fuel consumption data for a vessel or fleet is key to identifying inefficiencies and reducing overall fuel consumption.

Ship Performance Monitor (SPM) is a highly adaptable monitoring software, designed to help manage and improve the ship and fleet efficiencies. An adaptable reporting system providing data from all monitored ship sub-systems. SPM supports the implementation of Ship Energy Efficiency Monitoring Plan (SEEMP).



### NORWEGIAN SPM

- SPM supports the implementation of Ship Energy Efficiency Monitoring Plan (SEEMP).
- SPM accumulate power consumption for all major consumers on-board. Fuel flow is accumulated with flowmeters. To accumulate the fuel flow,
- accurate flow meters are preferred. If flow meters are inaccurate or nonexistent, SPM may calculate the fuel flow from the engine load.
- Energy efficiency is linked to the ship's fuel consumption and the ships emissions. Maritime transport is the most energy efficient in means of transporting goods per ton-mile. At the same time shipping emission is increasing rapidly. SPM is monitoring ship and fleet performance, enabling the operators to measure fuel consumption and emission over time.