

ABB ABILITY™ ROUTEGUARD

# Reduce voyage costs while securing safety with expert marine route guidance



Route-planning and optimization involves setting the optimum routes taking into consideration safety, costs and time. For ship captains this is a complex challenge for which they seek expert insight from ABB's route analysts, who support all use cases from basic weather routing to complex voyage optimization needs.



## Benefits

ABB Ability™ Routeguard – Onshore routing service enables ship owners and charterers to save time and fuel while keeping their crews, ships and cargo safe with the provision of expert marine and meteorology advice on the optimal routes. With Routeguard you can:

- **Save fuel and time:** Expertly calculate routes with the lowest voyage costs.
- **Secure safe voyages:** Reduce risks and increase safety by avoiding severe weather conditions.
- **Unburden captains:** Make informed decisions utilizing personalized advice from ABB's route analysts.
- **Improve fleet operational efficiency:** Reduce downtime and ship and cargo damage by avoiding severe weather.

## Users and key use cases

Routeguard supports all stakeholders involved in the planning and adjustment of shipping routes, including: onboard users, such as captains and senior crew, and onshore users, such as operations, performance and fleet managers.

### Onboard

- **Weather forecast analysis:** Analyze weather and ocean forecasts in real time.
- **Route planning:** Plan and update detailed routes and port itineraries.

### Onboard and Onshore

- **Route adjustments:** Calculate and recalculate optimum routes using personalized advice.

### Onshore

- **(Post) voyage analysis:** Obtain assistance when evaluating voyage and post voyage warranted performance.

## Features

Routeguard is a shore-based ship routing and performance analysis service for ocean-going fleets. It combines data with nautical and meteorological expertise to calculate the optimum routing information for any voyage. Monitor routes and performance in real time on the Fleetguard (ABB Ability™ Fleetguard – Vessel and weather monitoring) web platform. Routeguard also makes it easy to generate post-voyage performance analysis, helping detect under performing routes and adjust accordingly for future voyages.



Routeguard offers the following functionality:

**Weather forecast analysis** - Access weather models, specially adapted for marine forecasts. Models contain variables, such as surface pressure, wind and waves, currents, ice and visibility.

**Route planning and guidance** - Calculate optimal routes based on ETA, costs and safety using expert advice and guidance from former seafarers and nautical meteorologists.

**Fleetguard web platform** - Monitor fleets, routes, communications and vessel performance with a fully-customizable, modular interface.

**Performance monitoring and reporting** - Receive detailed voyage performance analysis set to C/P standards. Make voyage savings using the Savings Reports module. Monitor weather performance with Analysis and Benchmark modules.

## Routeguard unique capabilities

Routeguard is built using decades of experience in weather forecasting and severe weather routing. Routeguard users have access to the following unique capabilities:

- **SPOS (ABB Ability™ SPOS – Ship Performance Optimization System) unique functionality** - Plans and adjusts routes using unique features, such as the ship profile library and variable speed routing.

- **Expert advice** - Provides access to the route planning, adjustment expertise and experience of master mariners as well as meteorologists. Monitor weather performance with Analysis and Benchmark modules.

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ABB Marine & Ports  
Global 24/7 Technical Support  
Tel: +47 91 61 7373  
Email: support.marine@abb.com

[abb.com/marine](http://abb.com/marine)

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