## Operations +

If you're looking for ways to reduce downtime and enhance the performance of operations and assets, GE Power Conversion's simple suite of clever software applications can help. Its flexibility includes 'on-prem' and cloud-based options which help to optimize operations and energy, and enable predictive maintenance and cyber-secure service solutions. GE Power Conversion's digital suite is based on a straightforward, modular range of digital app's, tools and services, connecting data with the right people. Already, more than 500 sites are benefiting from Power Conversion's digital solutions. Each of our three easy-to-navigate modules focuses on a key area of improvement: Operations+, Maintenance+ and Services+ tools and app.

**Operations+** solutions include Performance, Process and Energy optimization. Operational efficiency, repeatability and safety are enhanced with real-time feedback on operational Key Performance Indicators (KPIs), with advisories for timely and targeted intervention.

GE Power Conversion's **Operations+ Performance Optimization** tool provides a simple interface to analyze true system capability by comparing actual functional performance with previous performance under the same conditions. In comparison with GE Power Conversion's Maintenance+ APM solutions that monitor equipment health, this **Operations+ Performance Optimization** tool delivers enhanced insights into your asset's functionality. We provide equipment KPI to help guide operational improvements such as adjustment of settings, tolerances and operator training.

**USE CASE:** Available with GE Power Conversion's Visor Remote Monitoring & Diagnostics solution our **Operations+ Performance** solution for Dynamic Positioning (DP) provides a simple interface that analyzes the true capability of a vessel's DP system.

**Operations+ Performance** app can show the real-time performance of your Dynamic Positioning (DP) system. Capturing performance of a vessel over its lifecycle helps you enhance performance and lower your risk during DP operations. With our Performance app, you'll be able to see your vessel's true capability via real-time information, and view failures that take place during DP operations.

Vessel Capability - real time view

#### **Dashboard Displays**

Current status, including generator and thruster

Critical data from wind sensors, VRU, PME and gyro.

Weather data such as wave, height, direction, etc.

Position error deviation charts.

Historical trends on DP performance, error deviation, faults and DP related KPIs.

**Operations+ Performance** tools deliver smart system learning capabilities to help experienced users and support new operator and refresher training, even helping share best practices for energy efficiency or across fleets.

## Benefits and Features

#### Situational awareness

- View vessel performance data collected during previous and current DP operations
- Assess the accuracy of the DP system during its time on DP operations.
- View up-to-date performance information.

#### Reliability

- Perform risk assessments for upcoming operations based on real data from previous operations.
- · Monitor any failures during DP operations for sensors, position, thrusters and power system. Drill down into details for dates, impacts and trends.
- Compare vessels within a fleet of similar vessel classes.

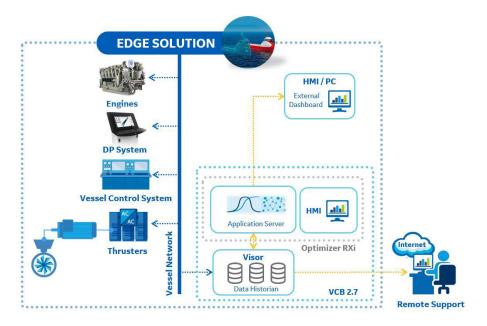
### **Availability**

- · Create custom reports. For instance, red flag outof-class performance for the onshore team so that mitigating action can be taken by the crew or GE.
- Have your onshore team review DP performance with crews using real data to support lessons learned, corrective actions and training needs.





Clear, accessible performance intel



The **Operations+ Performance** application is deployed on an on-prem PC which performs the analytics and provides insights into the performance of the DP system. GE Power Conversion's Visor Connect Box (VCB) is used to safely and securely collect data required for the analytics, such as vessel position data, sensor feedback, power system usage parameters, and weather conditions from the vessel's DP system.

The dashboards can be displayed on the local HMI of the on-prem PC or a larger external monitor. Both the on-prem analytics PC and VCB are offered as a single unit package.

# **Conceived for Operators**

GE Power Conversion's Digital Suite is built on GE's industry wide expertise in IT, OT (operating technology) and IIoT (the industrial internet of things). Above all we believe it should be intuitive, visual and customized for your operational needs. Featuring simple, clear interfaces it provides organizations of all sizes with access to GE's powerful data analytics, made accessible and usable by providing better intel and situational awareness. Genuine performance improvements are within reach, to help your organization work with increased efficiency and profitability.

# To find out more: contactus.powerconversion@ge.com

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