

inmarsat

JARVIS V.I.O.T

iO3

CERTIFIED APPLICATION

JARVISS V.IOT

HARNESSING THE FULL POTENTIAL OF DATA TO ENABLE OPERATIONAL EFFICIENCY

JARVISS V.IoT visualises ship operation in near real-time, allowing shore users to analyse parameters and performance data such as vessel speed, fuel consumption and voyage information to make better decision and improve efficiency.

iO3 is focused on facilitating the marine industry towards digital transformation. With our core strengths - navigation, digitalisation, and connectivity, we're vertically integrated across solutions. Our overarching digital platform, JARVISS (embedded with AES256 encryption), provides an open, participative infrastructure for data to be transmitted efficiently, supporting enhanced integrated solutions and asset optimisation. Multiple native and also third-party applications can be hosted.



REAL-TIME DATA - "DIGITAL TWIN"

JARVISS V.IoT aggregates and converts shipboard data parameters, delivers them onto the cloud and analyses the data to create value. The real-time data is securely collected on-demand from existing onboard sensors and systems. The system allows shore users to visualize ship's operation and engine parameters and performance data such as vessel speed, fuel consumption, voyage information in near real-time.

KEY BENEFITS

- Optimise fuel efficiencies - cost savings
- Environmental compliance - regulatory requirement
- Navigational safety - efficient voyage planning
- Predictive maintenance - reduce equipment system downtime
- Business intelligence & analytics - improve operations competitive edge

Delivering data over the cloud and gathering information on variables of data parameters allows feasibility for predictions, probabilities and trends. The collected data is sent in near real-time to an on-shore visualisation platform that displays ship performance, as well as historical data, to individual parameters in the asset view. Data is converted into useful information to achieve the predefined goals - benchmarking of main operating & performance parameters.



With identification of required correlation data parameters and using high-quality business intelligent data analytics, V.IoT allows decision-making to reach their goals, such as fuel optimisation, safety operations, external regulation compliance, and planned maintenance schedules. This provides for a significant impact on the complete maritime ecosystem.

enhanced integrated solutions, asset optimisation, and delivery of secured critical applications globally

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APPLICATION FEATURES

- Provides end-to-end system integration from shipboard systems to connectivity, to cloud infrastructure
- Centralises data into a real-time informative user-friendly shore portal
- Flexibility on data warehousing
- Proprietary data transmission protocol with AES 256 encryption &
- Modular (system data sets) options



APPLICATION ADVANTAGES

- Standardised platform for various sensors/ data parameters
- Independent of equipment manufacturer
- Holistic and valuable data analytics
- Bespoke analytics allows expert inputs from asset owners
- Full visibility to vessel's performance on a single shore portal

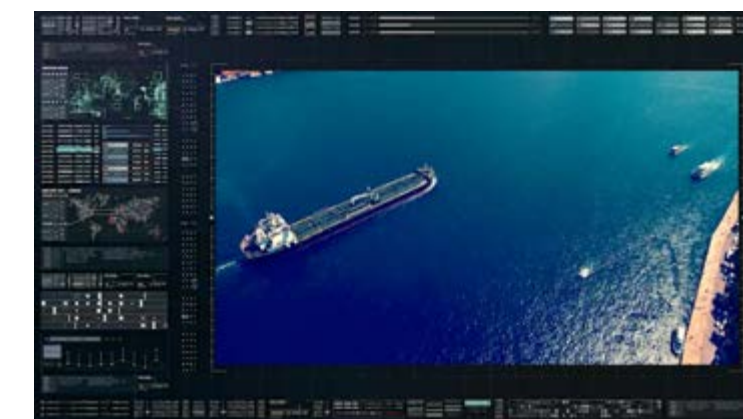
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USAGE SCENARIOS

- Monitoring shipboard equipment and machinery
- Improving the efficiency and safety of ships
- Tracking and monitoring of ships
- Digitalising ship operations
- Supporting decision-making processes with quality judgement

JARVIS



ABOUT INMARSAT MARITIME DIGITAL SOLUTIONS

Our digital solutions support applications that make data capture, analysis, and intelligence much simpler and make the industry more efficient and safer. Our network of Certified Applications Providers helps ship owners and operators to reduce fuel emissions, enhance vessel performance, and save lives at sea.

Read more at maritime.inmarsat.com.

Inmarsat offers its services through a range of partners around the world. Contact us for information to find out how our range of services and certified applications can add value to your business:

Contact us:
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