

Data Acquisition / by Danelec

Unlock the power of maritime data

GTT Marine's Data Acquisition is a flexible, scalable, and cost-efficient way to gain economic and operational benefits from advanced ship data utilization.



Affordable, Scalable, and Secure Data Collection and Transmission

Seamlessly and securely transmit essential high-frequency data from your vessel's sensors to shore-based systems for comprehensive analysis and optimization.

Built upon two decades of expertise in vessel data collection, our solution provides increased transparency, allowing for more accurate decision-making for operational optimization and asset management. GTT Marine's Data Acquisition ensures that your vessel's data is securely transmitted and readily available for analysis, driving value through enhanced safety, operational efficiency, and regulatory compliance.

Unique Value

- **Sophisticated Data Compression:** Reduce file package transfer size to an average of 1 MB of data per day.
- **Powerful Network Processor:** Combined with a physical switch to protect against cyber attacks and unwanted traffic.
- **Flexible and Scalable:** Supports up to 250 data tags, configurable according to customer needs.

Key Capabilities

- **Vessel Remote Server (VRS) / Data Logger:** Acts as a central aggregation point for all sensor data on-board a vessel.
- **Cyber Secure Interface:** Serves as a firewall and proxy server, creating a secure conduit between the Voyage Data Recorder (VDR) and surrounding networks.
- **Simple Data Aggregation:** Efficiently aggregates data from various sensors (analog, digital, or serial) through Remote Data Interfaces (RDI), operating in isolation from other systems to ensure data integrity.
- **Efficient Data Selection and Processing:** Enables selective data logging from the VDR and RDI data streams, with configurable sample and report window sizes for efficient data handling.
- **API for Data Transfer:** Seamless data transfer into any in-house or third-party applications.



Bridge the Gap Between Ship and Shore

By collecting and delivering high-frequency data from the vessel to the cloud, shore-based personnel can review crew behavior, actions, and vessel performance against baseline models. This allows for proactive measures to address deviations from optimal performance, supports condition-based maintenance of onboard equipment, and improves overall safety.

At GTT Marine, we are committed to revolutionizing maritime operations with cutting-edge solutions. Our mission is to improve onboard safety and elevate your fleet's performance, efficiency, and sustainability through innovative technology and industry-leading expertise.

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