

Welcome to a Safer Future

 **Hi-Pro Electronics®**
Marine Automation & Telecommunications



DOLPHIN
MONITORING

Bunkering Module System



Hi Pro Electronics Projects

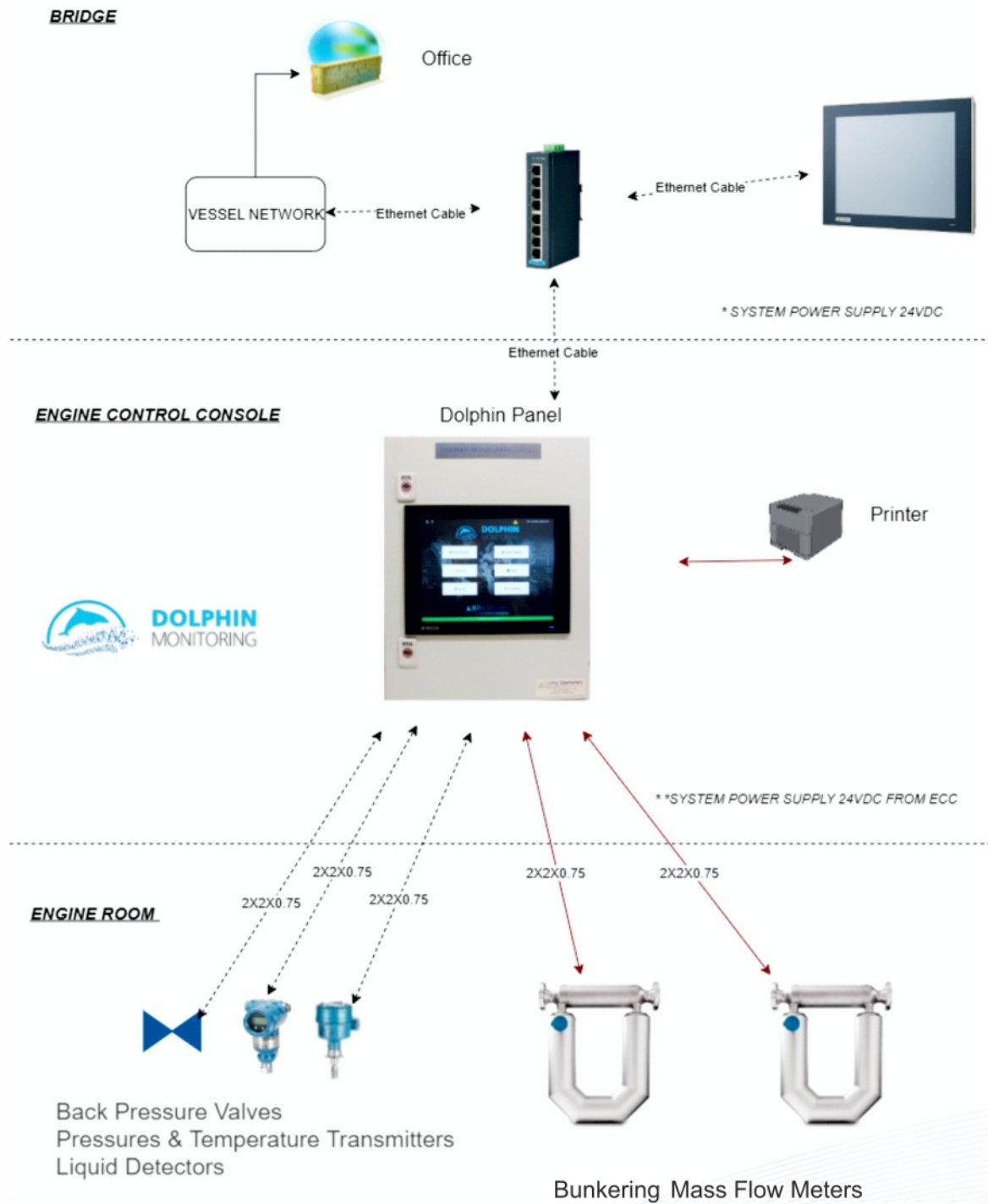


-  Dolphin Bunkering Module is fully automated, pre-programmed and calibrated by our technicians. After on board installation it does not require any interference during operation.
-  It is well interconnected with Coriolis flow meters from Emerson, Yokogawa & Krohne.
-  Direct and quick mass measurement without converting volume due to the Coriolis flow measuring principle.
-  Optimal fueling process due to simultaneous monitoring of multiple parameters regarding flow.
-  Software data storage for as long as the user wishes.
-  Mimics Configuration +
 - Status of the bunkering
 - Product type
 - Status Liquid Detectors (Wet / Dry)
 - Pressure
 - Back Pressure Valve Status
 - Density in API (15°C)
-  System Security: Security arrangements are provided to prevent unintentional or unauthorized access to functions or alteration of configuration, programs or data by unauthorized personnel.
 - Print Current Bunkering Ticket
 - Print Old Bunkering Tickets of the last 3 months
 - Ticket Printing includes occurred alarms during the bunkering, Bunker fuel quantity, Fuel density and temperature, Date / Bunkering Time / Location
-  Web-System Overview (Option): Monitoring the real time data which is remotely collected, displayed, stored and distributed automatically by the system and can be used for monitoring during bunkering operation.
-  Bunkering Module is a part of Dolphin Monitoring through which data can be sent to shore.





Dolphin Monitoring Bunkering System





Dolphin Monitoring System

Dolphin Monitoring is our secure web portal and suite of powerful analytics and reporting tools providing 24/7 vessel and asset tracking as well as detailed fuel reporting. It receives the vessel's and fuel data generated by the EFMS via encrypted satellite or 5G signal with pole-to-pole coverage and is accessible via secure login from desktop, laptop, tablet or mobile device wherever you are. Data is available live on value change (Real time) with historical 1-minute data stored forever.

Dolphin Monitoring is a registered trademark and is a powerful software platform that bears easy-to-use tools to produce dynamic, database-driven, reports.

Dolphin Monitoring bears a cross-platform communication hub built on trusted IT standards to interconnect all your data. The system has also a seamless SQL database integration built right which enables its connection to an OPC UA or ERP systems. Therefore, the user having the proper credentials can access Dolphin from any PC or tablet or smart phone or even an enterprise.

Office personnel may define the data in the reports and specify any number of report parameters and data sources in Dolphin Monitoring® user friendly and object-oriented visual environment.

Customize criteria such as density and transfer volume levels, ROB, engines running, geofencing, burn rate, and speed. Receive real-time, operational alert emails when criteria are met.

Fuel transfers. Recorded

Ensure full fuel security and accountability by recording and reviewing all fuel transfer events. Information available includes total volume/mass, density, and temperature with bunker tickets available for every transfer.

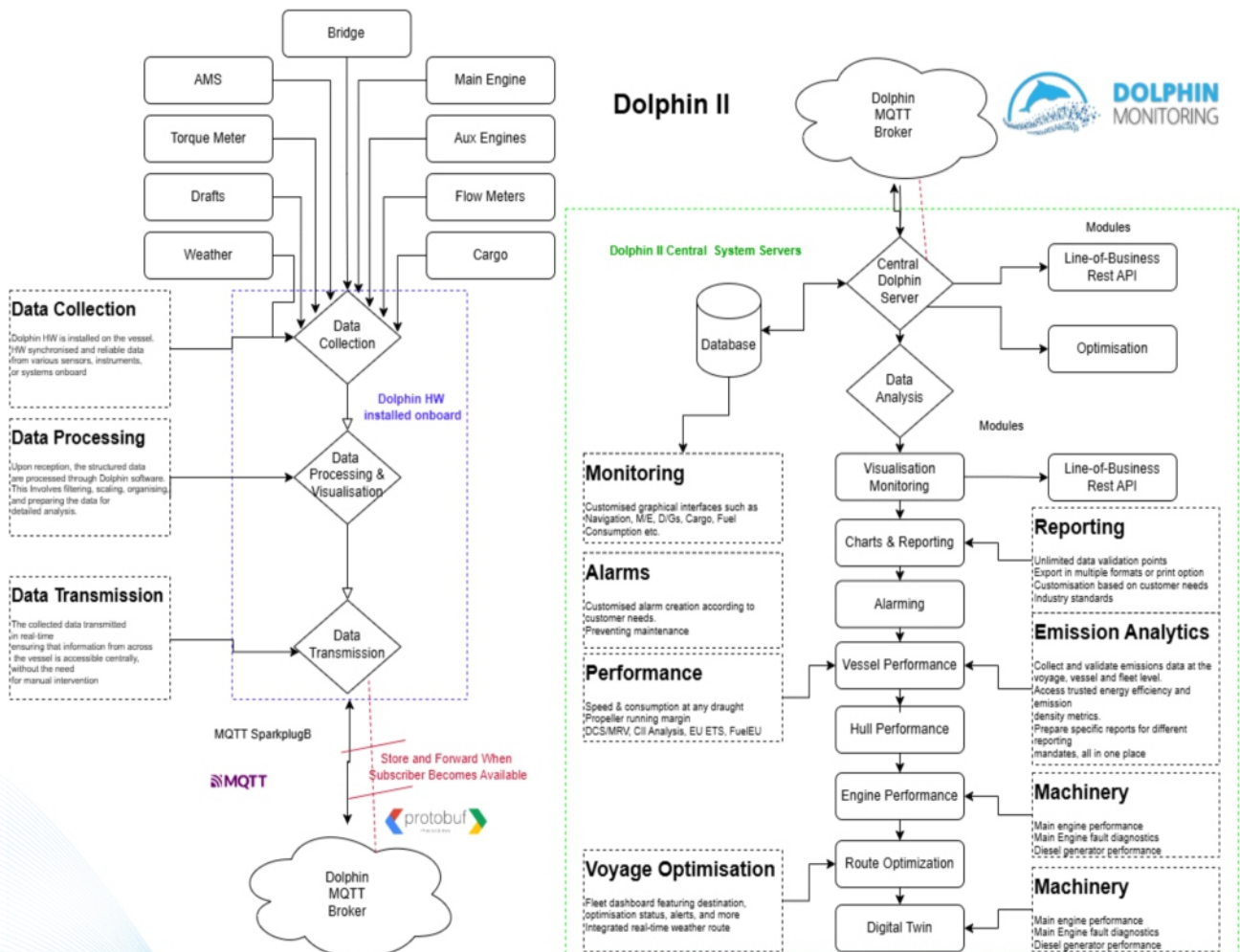
Dolphin Monitoring offers Reports On-Demand. The user may also schedule reports to run automatically or on event triggers or schedule reports to be delivered automatically such as:

-  **Export formats in PDF, HTML, CSV, RTF, JPEG, PNG and XML**
-  **Backwards-Compatibility**
-  **Easy to import existing reports and convert legacy reports**
-  **Instant installs and updates**
-  **Works on Windows, Linux, macOS and more**
-  **SSL Security - Ultra-secure SSL technology**





Dolphin Monitoring Flow Chart





Dolphin Monitoring Modules



**Fuel Consumption
Dashboard**



Data Dashboard



Bunker Dashboard



**Mobile app
for Android & IOS**



Reporting



CMS Load Planner



**Charter Party
Dashboard**



Geofencing



**CCTV Applications
with AI**



Weather Tracking



On Board HMI Panel



**Predictive
Maintenance**



**SMART Notifications
/Alarms**



**Vibration Monitoring
and alarming**



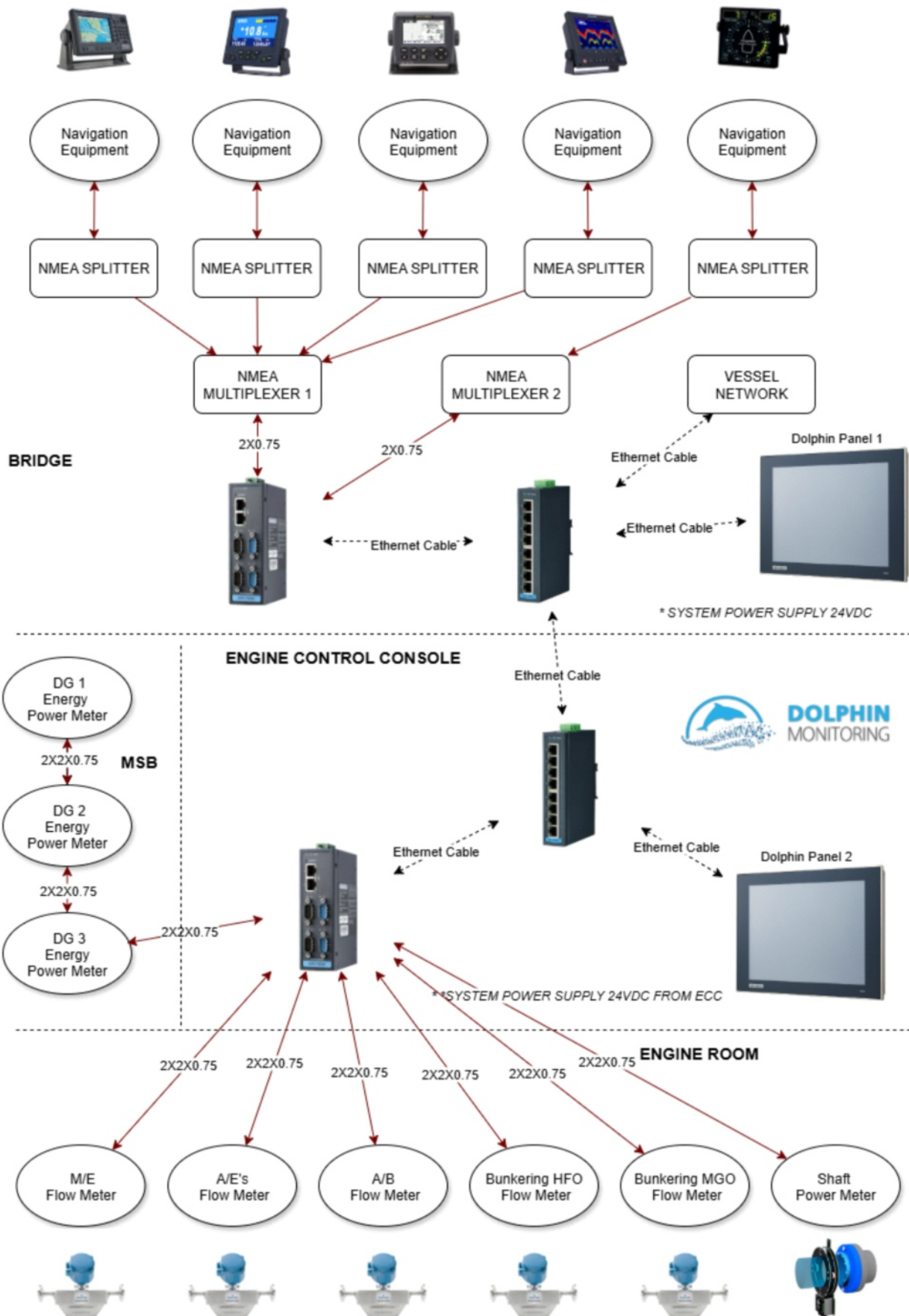
Data Export



**Hull stress
monitoring**



Dolphin Monitoring System Lay Out





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