Marine View
Vessel Management System

Operator Stations
Whether you run large or small vessels, the operator station is a key resource to enable the safe, efficient operation of the vessel. Marine View can provide multiple stations with full or restricted functionality as required anywhere on the vessel. Screen size, environmental capability and installation needs can be tailored to suit the operational needs. There is no practical limit to the number of operating stations that can be installed.

Dedicated Alarm Panels
As cost-effective alternatives to full operator stations, dedicated Alarm panels are pure display/acknowledge stations for a pre-set number of alarms. These panels are easily connected on the Marine View Ethernet backbone. Typically placed in crew quarters or in a special operational area (e.g., cargo pump rooms), these panels provide fast access to focused information by the crew, enabling the best operational actions.

Data Acquisition and Control Units
DACUs take signals from sensors and data buses, and convert them to the Marine View Ethernet traffic that provides safe, secure and rapid transmission of information to the Marine View servers for processing. DACUs are built from a standard range of components, and are usually filled close to the sensing groups to minimize complex wiring.

Engine Panels
The Auto-Maskin range of Marine Pro engine controllers automatically configures into the Marine View system. Classed or uncleared, touch screen or traditional, the Marine Pro range of controllers and their accessories form part of the building blocks that make up the Marine View system. The range comprises of the 400 series IACS approved components and the smaller 200 series.

The Easy to Use Vessel Management System
Auto-Maskin has a global reputation for producing easy to use equipment. Marine View is no different. A maximum of 3 “clicks” to any data point means fast access to information, designed for operation by non-specialized crew members, with easy graphical layout, multiple languages capabilities, clear indication, and the ability to “look ahead”. Marine View provides the crew with safe, efficient operation, and information to allow for the optimal operation of the vessel. Unusually, it has its own “Help” menu to assist training and efficient usage. Marine View also provides appropriate traceability and accountability for Owners, including providing a crew “Log In” facility adding significant traceability and operational awareness. Marine View can generate automated reports regarding any aspect of the vessel’s operation it is connected to, as well as generating customized “Trending Analysis” to assist the operators in predictive maintenance or action.
Examples of vessel systems are:

- CCTV
- Propulsion
- Powerplant
- Access control
- Data logging
- Fire fighting
- Voyage data
- Environmental
- Remote Telemetry
- Lighting

How do the DACUs communicate?

The DACUs (Data Acquisition and Control Units) communicate direct to the centralised Marine View servers in a redundant Ethernet network. Communication is via the Marine View redundant Ethernet network eliminating transmission risks.

- DACUs convert all sensor and data bus types data to the Marine View Ethernet network traffic, providing a standard interface.
- When Auto-Maskin's engine controllers are a part of the system, Marine View will automatically sense these units on the network, and both units will update one another automatically greatly reducing configuration resources and risk.

How is the system configured?

The Marine View system connects all main components in the system via Ethernet and a multi redundancy/automated backup, expandability and compliance to global standards, all to ensure safe operation, secure data, ease of installation and ease of use.

- Simple or Dual redundant communication rings provide total redundancy and security.
- Simple or redundant servers provide automated backup and system redundancy.
- DACUs communicate over the same network, providing vessel wide communication, and allowing centralised upgrading of all softwares.
- Multiple operating stations with a wide range of screen sizes, equipped with touch or track ball pointing devices improve operation.
- Operating stations can be server or client based, the selection of which can help control costs.
- The Marine View software incorporates world class encryption where required, providing local and remote compliance to the highest security and operational standards.
- Centralised automation process means simpler software updates and limiting greatly simplifying on board maintenance and reducing skill set needs.
- Full connectivity to all known communication standards in the marine and automation field.

How is a Marine View project managed?

Our team of project engineers will guide the customer through all steps of the project. Auto-Maskin reaches out and collaborates professionally with all involved parties, obtaining all necessary data from the correct resources.

- Auto-Maskin attends interface- and project meetings and organizes the information for the execution team.
- Auto-Maskin delivers requirements and guidelines as to how equipment and wiring shall be installed.
- FAT and other requested tests are being held at Auto-Maskin test facilities supervised by skilled engineers.
- Auto-Maskin provides a team of engineers that manage commissioning in an organized and safe way complying with all relevant quality standards.

What type of inputs can be used by Marine View?

Marine View can accept any type of input, and develop outputs to any requirements. Designed to be flexible, adaptable and easy to configure.

- DACUs (Data Acquisition and Control Units) connect any sensor type to the Marine View Ethernet bus.
- Acquisition of 3rd party data into Marine View is simple, with more than 300 protocols built in.
- Specifiers can purchase what they need, when they need it.

Can Marine View be used to provide or integrate to PMS?

Marine View is entirely capable of providing owners and crews with safe, reliable, and secure management of power on board. Several strategies can be supported, depending upon the existing Auto-Maskin has to offer.

- Marine View supports standard protocols for power plants ensuring safe, efficient and secure plant operation and makes communications possible with most systems.
- Marine View as an advanced PMS system with its own software which is IACS Classifiable.
- Marine View can incorporate Auto-Maskin's LSU 408 units and third party standalone controllers with the possibility to interface to any customer / project selected PMS system, providing just display and control.

Can Marine View meet Classification Society requirements?

Yes, and then some. Auto-Maskin is experienced in designing, manufacturing and installing IACS approved equipment for over 30 years. Marine View follows all the requirements laid down by the major Classification Societies. Auto-Maskin supports DNV-GL, ABS, LR, BV as standard with other Societies on a project by project basis.

- All hardware is Type Approved by the relevant IACS societies.
- Project specific software configurations are managed according to the appropriate IACS society requirements.
- All power supplies appropriate to IACS requirement can be supplied by a qualified third party or via the Auto-Maskin team.
- Multiple operating stations with a wide range of screen sizes, equipped with touch or track ball pointing devices improve operation.
- Operating stations can be server or client based, the selection of which can help control costs.
- The Marine View software incorporates world class encryption where required, providing local and remote compliance to the highest security and operational standards.
- Centralised automation process means simpler software updates and limiting greatly simplifying on board maintenance and reducing skill set needs.
- Full connectivity to all known communication standards in the marine and automation field.