



SIMON

Integrated Ship Systems



What are the odds of a quick decision also being a correct decision?

Successful captains know that vigilance and proper preparation are essential to a successful voyage. An oil leak, loss of coolant pressure, restricted fuel flow to an engine ... any of these problems can escalate into a real crisis in a hostile environment. That's especially true during a storm or when negotiating a challenging passage.

In such a crisis, you are challenged to make a split-second decision. Knowledge of the present situation is the key to making this decision correctly as well as quickly. Knowing about a potential problem before it becomes catastrophic is even better. With SiMON (Ship's Information Monitor) and control from Palladium Technologies, you will know about faltering oil pressure before you lose an engine or generator. You'll be alerted of falling barometric pressure, sudden changes in depth, water temperature, fuel pressure or flow rate. And all this critical information will be presented to you via one consistent, cohesive display. With SiMON onboard, your odds of making that split-second decision, the right decision rise dramatically.



SiMON gives you up-to-the-second, comprehensive information on the state of your engines - from RPM and oil pressure to shaft bearing temperatures.



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Be the master of your environment with SiMON.

Always alert - ever vigilant - SiMON gathers information from your ship's critical systems and presents it to you on demand. From engine and generator performance, to safety, bilge, security and fire zones, along with GPS and depth information, you'll view this critical information in a format tailored to your unique needs.

Advance warning and problem reporting alert you to conditions before they become catastrophic. SiMON collects real-time information from sensors monitoring the ship's critical systems each second, non-stop. That information is available to you in one convenient format - so you can focus on navigation and react with split-second accuracy to developing conditions.



SiMON's tanks screens provide visual representation of fluid levels along with digital readouts.

SiMON—your onboard engineer.

Think of SiMON as an extra pair of hands and eyes – a very special crew member who never sleeps. More than just an alert trouble spotter, SiMON provides operational information resulting in financial benefits. Think of the savings you can enjoy from engines running smoothly with maximum fuel efficiency. Using the information SiMON provides, you can manage engine usage for peak efficiency and longer engine life.

How SiMON works.

SiMON operates on Windows®-based PC Systems, and can support almost unlimited configurations. Intelligent SiMON controllers are the main collection points for vessel data, and every computer on the ship's network has free access to SiMON. This means you have urgent information instantly available – anywhere, anytime.

SiMON controllers collect data from sensors connected to the vessel's systems through a standard, widely-recognized Ethernet network. This versatile arrangement allows for a modular implementation tailored to

Engine data from electronic or mechanical engines is provided in a variety of formats. Each screen can be configured by the user – simply by double-clicking the mouse on the gauge.

your vessel and the systems to be monitored. Additional controllers and display stations can be added at any time.

What SiMON monitors:

- ▶ Engines, gearboxes and shaft glands
- ▶ Generators and power conversion systems
- ▶ HVAC, refrigeration, hydraulics, pumps, etc.
- ▶ Electrical (shore power, ships buss, batteries)
- ▶ Bilge levels, security, doors, hatches, fire zones
- ▶ Tanks (water, fuel, lube, black, gray and sludge)
- ▶ Navigation (GPS, depth, winds, waypoints, SOG, COG, etc.)

Alarm screens monitor all functions and provide a quick read on the status of each: in limits (green), cautionary (yellow), crisis (red), along with the alarm histories.

Improve efficiency on the bridge.

Designed by professional mariners who understand the challenges you face, SiMON provides critical information at a glance. Instead of a random mix of gauges and instruments, all vital systems information is available on one or more displays as a "glass bridge." This simplicity of presentation and distillation of information means you'll realize major improvements in the efficiency of your bridge.

And what you see on these displays can be easily customized by the user. Ranges, scales, color bands, sensor assignments and alarms can all be tailored with just a click of the mouse. This truly puts the power of SiMON into your hands. When seas build and weather deteriorates, SiMON really comes through, by avoiding catastrophic engine or systems failures.

Customizable ships displays with status indicators overlain on vessel drawings provide immediate, "at a glance" notification of high water, fire zones and navigation lights.

This standard module constantly monitors and displays water depth (in digital and graph form). SiMON can also monitor water temperature. The system gathers such data by connecting to your standard electronic instruments using NMEA standards.

The SiMON system at a glance:

- ▶ Organized monitoring and presentation of critical systems
- ▶ Improved safety and convenience with graphical and audio early warning
- ▶ Simple, easy-to-use interface designed by professional mariners
- ▶ Available for desktop and notebook computers
- ▶ Built on industry standards (Ethernet/LAN, operating system, interface)
- ▶ Easy, modular installation

SiMON provides:

- ▶ Early warning of potential problems before they become catastrophic
- ▶ Constant vigilance over all monitored systems
- ▶ Trending of data to assist in more efficient equipment operation
- ▶ Fuel flow and pressure analysis to find the best speed and course
- ▶ Historical data capture of equipment failure for analysis
- ▶ A comprehensive and flexible alarm system

Put SiMON onboard.

Every day you must meet the challenges of a hostile and sometimes remote environment. The quality of your decisions is critical to the success and safety of your voyages. The financial benefits of an efficient operation are in your hands. Gain a tangible edge with SiMON ... the revolutionary, multi-point resource for the collection, integration and organized presentation of your ship's operational data.

It's time to make another quality decision for the good of your ship. Call us today to discuss how you can bring SiMON onboard for safety, efficiency, convenience and financial benefits.

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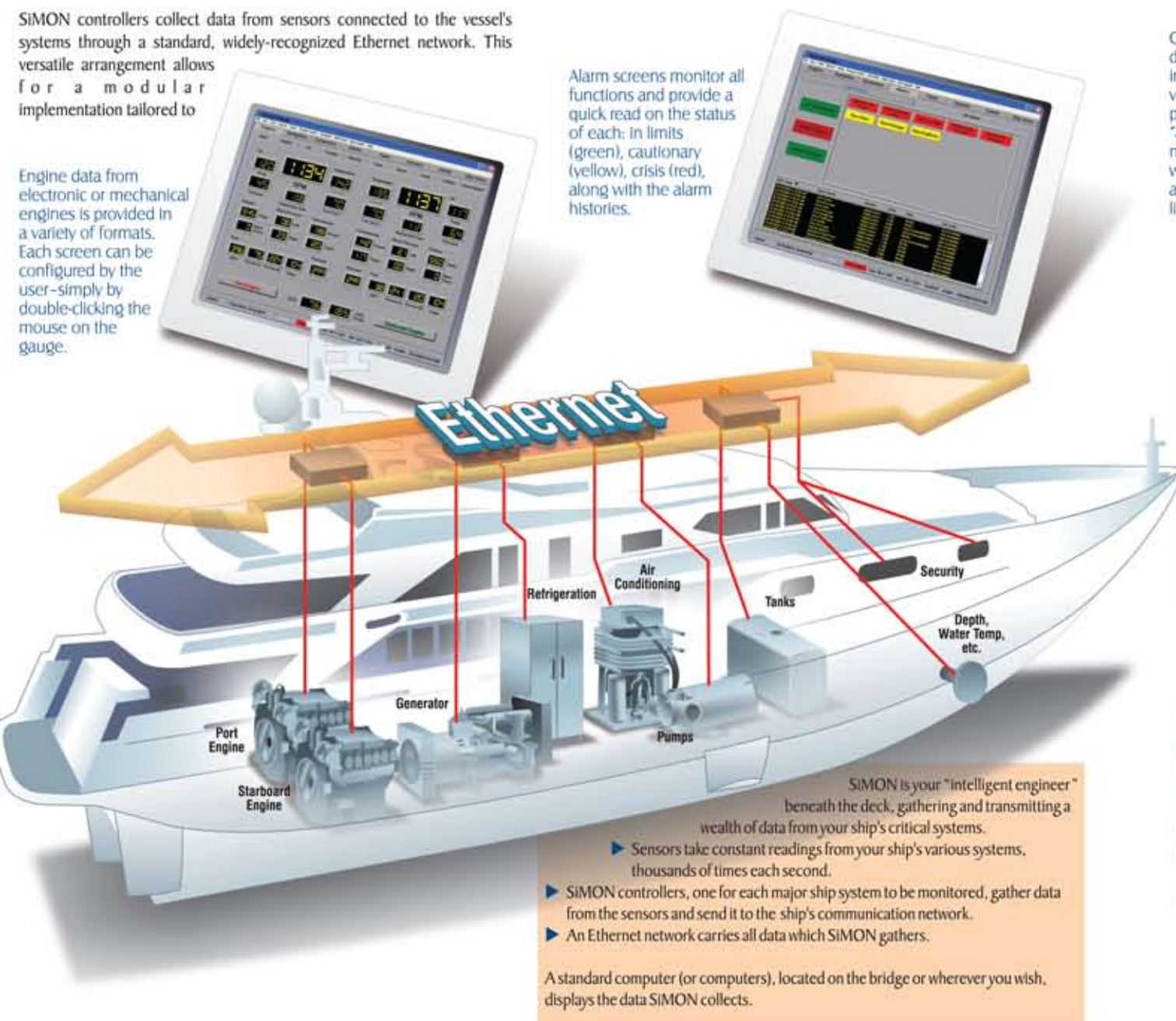
SiMON was designed to meet Critical Yacht Classification Requirements such as;

- ▶ Lloyd's
- ▶ DNV
- ▶ MCA
- ▶ IMO
- ▶ ABS, etc.

SiMON is your "intelligent engineer" beneath the deck, gathering and transmitting a wealth of data from your ship's critical systems.

- ▶ Sensors take constant readings from your ship's various systems, thousands of times each second.
- ▶ SiMON controllers, one for each major ship system to be monitored, gather data from the sensors and send it to the ship's communication network.
- ▶ An Ethernet network carries all data which SiMON gathers.

A standard computer (or computers), located on the bridge or wherever you wish, displays the data SiMON collects.





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Palladium Technologies: The Total Solutions Provider

Since 1991, Palladium Technologies has been at the forefront of applying state-of-the-art hardware and software technologies to meet the complex monitoring and control requirements of modern megayachts.

Today, we offer a wide range of fully integrated solutions that encompass all aspects of megayacht management and control, including broadband Internet access, monitoring and alarm systems, ship's security systems, entertainment systems and concierge services throughout the yacht.

Palladium is also listening to it's customers needs with the addition of their Electrical Division which designs and develops state-of-the-art electrical switchboards and provides a full range of yacht electrical engineering services for shipyards around the world.

Our electrical services include design, engineering and documentation for all aspects of the yacht's electrical system, including switchboards, AC and DC circuits, monitoring, alarms, controls and emergency panels, with automated load management and balance. Our solutions meet ABS and other major classification society standards.

Unique in the industry, our integrated megayacht solutions have been designed and developed by engineers with extensive seagoing experience and an intuitive understanding for the needs of the yacht's owner, captain, guests, engineer and crew.

And one thing you can always count on from Palladium, it's done with thoroughness, quality, elegance and style.