

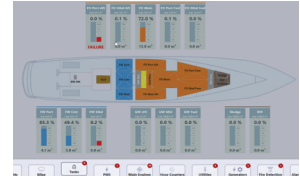
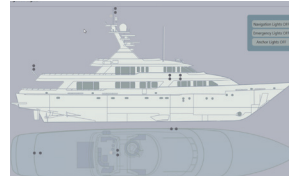
INTELLIGENT BUILDINGS AND SMART SPACES

Customer Success Story

De Keizer Marine Engineering Uitgeest, Netherlands

Super Yacht Automation Systems

Headquartered in the Netherlands with offices in Spain, France, and the United States, [De Keizer Marine Engineering](#) is a global company of highly trained technology experts for super yachts. They implement and oversee super yacht engineering and instrumentation along with servicing and training. Having completed over 500 service and refits, they have the knowledge and experience to design and build complete integrated super yacht systems. Moreover, their system architects continuously stay up to date with the available technology in the market so know the exact system and technology that best suits each yacht. Available 24/7 to assist their customers, the De Keizer team calls themselves the “secret service” or “Guys in Red” to super yachts since they have the know-how, experience, design savvy, and passion to deliver the most elite design for any yacht.



Key Points

- Easy and multiple automation module designs allowing for extensive system integration.
- Comprehensive dashboards and generation of CSV files based on an I/O list.
- Alarm and control management to ensure ship safety through onboard system visualizing and alarming capabilities for bilge, stability, tank, fire, and refrigeration/freezer alarm.

Project Summary

De Keizer Marine Engineering was looking for an automation software they could use for yacht integration systems. In particular, the software needed to:

- Be easy to configure and use
- Be highly responsive and fast with advanced monitoring and control
- Be capable of providing alarm and power management
- Be native HTML5 compliant and supportive for 3D visualization

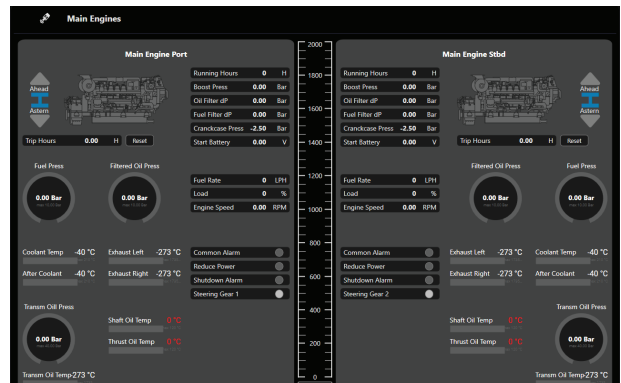
Additionally with this software, the Alarm Monitoring System (AMS) or Alarm Monitoring and Control System (AMCS) needed to be highly secure and meet insurance specifications to ensure

the safety of all personnel on any vessel. The interface also needed to have the most advanced technology with modern impressive visualization capabilities and easy to understand intuitive dashboards. These capabilities are essential for ship technicians to work more efficiently. Operators also wanted more possibilities for mobile integration to be able to visualize from anywhere on the vessel.

As an Enrolled ICONICS system integrator, it was logical for De Keizer to choose ICONICS automation software. However, they work with ICONICS software because it is extremely easy and fast to configure and has the advanced capabilities the company needs for their projects. Furthermore, they know they can stress the ICONICS software to its limits on redundancy and alarm handling. Lastly, ICONICS is highly scalable, so they can use the software in all their super yacht applications.



De Keizer Navigation Overview



Overview of the Main Engines

ICONICS Software Deployed

- GENESIS64™
- Hyper Historian™
- AlarmWorX™ 64
- AssetWorX™

Realized Benefits

De Keizer has realized and continues to realize many significant benefits using ICONICS software. The software allows for extensive integration with the utmost advanced technology. For instance, ICONICS allows for easy and multiple module designs. In addition, the team can design impressive and comprehensive dashboards and generate CSV files based on an I/O list. This capability results in improved information access and file generation that also improves the efficiency with which the work can be accomplished. As an example, the De Keizer team can automate information and file generation and thereby reduce the number of work hours on each project. Most importantly, the software provides the highest level of alarm and control management to ensure ship safety through onboard system visualizing and alarming capabilities for bilge, stability, tank, fire, and refrigeration/freezer alarm. Another benefit is that ICONICS seamlessly integrates with Mitsubishi Electric hardware which De Keizer uses for all their systems.

Conclusion

De Keizer Marine Engineering uses ICONICS automation software to design highly advanced customized integration systems for super yachts. Currently, they are interested in smart trending so plan to use ICONICS' Quality AnalytiX tool to

enable technicians to view data/parameters that impact vessel operation and safety. They are also looking into using ICONICS energy management tools to optimize systems like HVAC and powerplant, and additional ICONICS tools for development and upscaling. Finally, they look forward to the next generation of ICONICS software for more powerful and advanced features and capabilities.

“At the moment, we are delivering our third project of the New DeKaSIs.iQ which is built on Mitsubishi Electric PLCs and controlled via the ICONICS software. Due to the object-oriented nature of the platform and the possibility to automate the configuration and import data, we can easily work with a team of engineers on the project and deliver programming quite quickly.”

Jeroen van Goethem
 Manager of Automation
 De Keizer Marine Engineering BV



De Keizer Fuel Settings



Fresh Water Overview

Company Profile



- De Keizer Marine Engineering
- Founded: 1965
- Business: Developing, Engineering, Building and Servicing Super Yacht Technologies
- Website: <https://guysinred.com>

ICONICS, Inc.

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