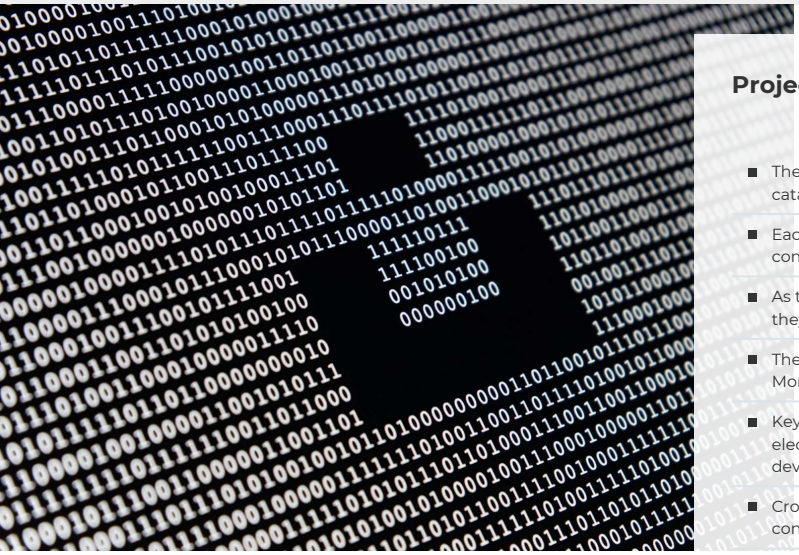
PROVIDING REAL TIME, CONCISE INFORMATION VIA AN AWARD WINNING SHIPS INTEGRATED MANAGEMENT SYSTEM (SIMS)

"Intelligence is not the ability to store information, but to know where to find it" - *Albert Einstein*

Industry
Maritime

Sector
Ship Building

Segment
Integrated Management Systems



Project

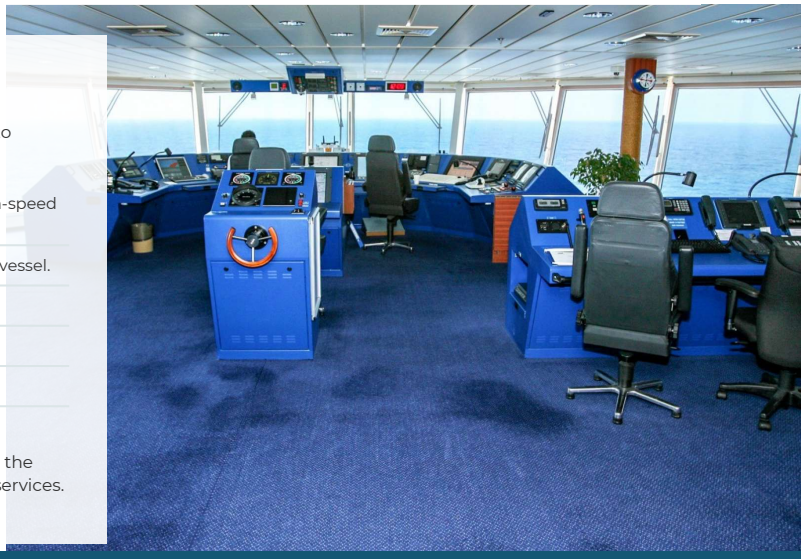
- The client is an Australian shipbuilder building a range of highspeed lightweight catamarans.
- Each ship requires a Ships Integrated Management System (SIMS) to provide a common overview of multiple control systems within the ship.
- As the ship design is unique the client recognised that to get the SIMS they required they needed to develop their own.
- The SIMS needed to achieve DNV (Det Norske Veritas) certification for Control & Monitoring Systems in Marine environments
- Key requirements was a design partner who possessed wide ranging maritime electrical and automation skills and had a local presence to their facility help develop the SIMS.
- Cromarty Automation were awarded the project to develop the vessel SIMS in conjunction with the client's project team.

Solution

Cromarty Automation worked collaboratively with the client's project team to develop a SIMS to:

- Monitor and control various ships plant via hardwired signal inputs and high-speed communication busses.
- Provide access to information via touch screens distributed throughout the vessel.
- Utilise equipment and design philosophy suitable for marine applications.
- Be DNV approved.
- Be versatile for use on multiple vessels.

Cromarty Automation provided all control system software and hardware, developed the PLC Code and HMI and provided engineering support during the installation, commissioning and supplied training and post project support services.



Outcome

The project was completed within the specified time frame. The hardware and software design achieved DNV Plan approval using readily available industrial standard hardware and software. The final solution was scalable and repeatable and allowed the client not only to deliver this vessel with a DNV approved SIMS but laid the foundation for the system to be adapted and used on future vessels.