INTEGRATED PLATFORM MANAGEMENT SYSTEM (IPMS)

Innovation and Integration as Standard

Monitor • Control • Support • Protect • Survive
Servowatch - Reference Projects

**HMNZS CANTERBURY MRV**
- **Type:** Multi-Role Vessel
- **Customer:** BAE / RNZN
- **Location:** Holland

**HMNZS HAWEA IPV**
- **Type:** Inshore Patrol Vessel
- **Customer:** BAE / RNZN
- **Location:** New Zealand

**HMNZS OTAGO OPV**
- **Type:** Offshore Patrol Vessel
- **Customer:** BAE / RNZN
- **Location:** Australia

**HTMS KRABI OPV**
- **Type:** Offshore Patrol Vessel
- **Customer:** Bangkok Dock Ltd
- **Location:** Thailand

**INDIAN NAVY OPV**
- **Type:** Offshore Patrol Vessel
- **Customer:** Indian Navy
- **Location:** India

**BRAZILIAN NAVY OPV**
- **Type:** Offshore Patrol Vessel
- **Customer:** BAE
- **Location:** United Kingdom

Servowatch - Current Project

**RFA MARS TANKER**
- **Type:** Replenishment Tanker
- **Customer:** DSME / UK MOD
- **Location:** South Korea
With warship design becoming more sophisticated, and more capability is integrated with fewer people on board, only proven designs and software functionality can truly meet the demands within modern project time scales and risk profiles. As world experts in the field of integration, Servowatch introduces the latest evolution of its powerful IPMS solution, allowing more COTS product integration, and is a true “System of Systems” capable platform. This powerful mix of Servowatch distributed processing and highly redundant architecture, coupled to industry standard equipment and protocols allows for a truly supportable platform, with minimal obsolescence risk. This reduces platform cost, integration time and commissioning / installation issues, whilst retaining the survivability and power of the original Servowatch product, with its scalability and flexibility in terms of system architecture.

Servowatch has been a world leading provider of marine automation systems for more than 35 years and this experience is invested into the product for the benefit of the customer. Features available through Servowatch IPMS include:

- Redundant operator workstations running Servowatch WINMON
- Multi-level redundant networking including fibre optics
- Remote Data Collection and Control Units
- Integrated Propulsion Control System (PCS)
- Integrated Automatic Power Management System (APMS)
- Integrated On Board Training Simulation (OBTS)
- Battle Damage Control System (BDCS)
- Equipment Health Monitoring and Dynamic Analysis
WINMON - Lloyds Award for Software Innovation.

Information to the right place defines survival, safe operation, efficiency and ability to respond. WINMON is the tool that combines a tile layered graphic approach (TLG) for simplified information presentation. A user friendly interface for operation and maintenance places the package ahead of its rivals. Together with the flexibility to integrate third party software packages, the system develops into a comprehensive ship management tool.

Mimic Samples, including:
- Bilge & Ballast System
- Switchboard Control
- Damage Control
- Propulsion Overview
- Lub Oil System
- Fuel Oil System — within a common WINMON environment.

Servowatch - IPMS Incorporates:

Propulsion:
Distributed control system for various propulsion types in fixed or CPP shaft arrangements, diesel and electric combinations with multi-mode operation.

Electrical:
Remote monitoring of electrical systems, generators & switchboards with automatic management of load requirements, black out starts and duty set rotation. Advanced integration of propulsion system.

HVAC:
Remote or automated operation of ventilation and extraction systems, maintenance of ambient atmosphere for comfort and life preservation. Integration into damage control system.

Fluids:
Monitoring and management of fluid systems such as fuel, lub-oil, cooling systems, ballast, bilges, aircraft refuelling and fire systems. Integration into damage control system.

Damage Control:
Graphical presentation of safety systems with remote or automated operation of hatch, door and ventilation closure; extraction systems; bilge and flood control; fire fighting systems; fire suppression systems; and resource deployment.

Resilient Networks:
Dual redundant networking of alternative architectures to meet specific customer requirements, including ARCNET or Ethernet over standard cable or managed fibre optic arrangements.

Simulation:
Sophisticated training simulation that makes use of ship trial data or pre-defined scenarios on selected workstations. Work stations utilise replica mimic sets without the need to create an alternative software programme and run with actual ship data.

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