

# Naval Fleet



Peter Drake, Business Development Director

The customer is a global leader in the defence sector, the largest defence supplier in Europe, and among the top 10 defence companies worldwide. It manufactures tactical and strategic airlifters, multi-role aerial tankers and advanced combat aircraft.

The solution provides a refresh to existing military satellite communications, across the networks of 20 royal naval ships as part of a retrofit program.

# Requirements & Issues

- Outsource of bespoke 19" rack integrated with COTS, and military communications equipment
- Limited installation available cabinet size and weight specification due to retrofit
- Incorporation of pre-defined military communications equipment to a 19" rack
- Certification for shock and vibration to DEF-Stan 00-35
- Integration of non-military commercial products such as network switches
- Integration of MOD approved CO2 injection system for equipment protection against fire.



## The Solution

- Collaborative project services, enabled the customer to both outsource, whilst still being actively involved in the project development
- Modular aluminium construction to reduce lifting weight and enabling the rack to be assembled onsite, mitigating the need to cut holes in vessels during installs
- Design and modelling to ensure the lightweight modular design was robust enough for environmental certifications
- Bespoke equipment trays to house none rackmount equipment, providing integrated power conversion, cooling and ruggedisation
- COTS equipment ruggedisation procedure agreed with third-party vendors to maintain the warranty
- Doorless design with baffling to reduce overall space requirements
- Bespoke power distribution unit to address the range of fitted equipment electrical requirements, and the need for an emergency power off (EPO) switch





### The Outcome

- The solution enables naval military satellite communications to be updated to a modern IP backbone
- Deployment to over 20 vessels, fully commissioned and performing well
- Snag-free installation as part of a retrofit
- Customer outsourcing objective complete, whilst still maintaining close development input and review



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