

## CASE STUDY: Navy Ship Maintenance Portal

### Client:

Royal Australian Navy

### Timeframe:

July 2015 - May 2017

### Area of expertise:

Software Engineering and Development

### Responsible for:

archTIS provided the following services:

1. Business Analysis and Requirements Management
2. System Integration
3. Solution and Integration Architecture
4. Solution Implementation
5. Security Assessment

### Challenge

The acquisition of the Landing Helicopter Dock (LHD) ships and the move to a compliance based certification model for the fleet required the Navy to adopt improved ways to consume multiple sources of logistics and engineering data, and manage supporting contract data. With over 15 million components, multiple mission roles, and the need to support type certification; the Navy required a new way to manage information and to collaborate with suppliers and sub-contractors. The LHD fleet capability is comprised of 2 large vessels and 18 support vessels.

Identified business shortfalls in the information management capability included:

- Multiple data sources for engineering and logistics services;
- Limited data integration and reporting;
- Ad-hoc and unstructured task management;
- Limited personnel for management and maintenance activities; and
- Manual management of contract deliverables for support and maintenance activities.

### Approach

archTIS provided the complete capability for the LHD maintenance portal solution following standard software development and systems engineering practices. The solution:

- Was implemented in a Defence private cloud hosted infrastructure. This included setting up load balancing, enhanced search services, and optimising the mapping of systems into a single TCP port.
- Delivered project management and engineering management to ensure the readiness and compliance of the LHD.

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- Provided a security assessment and certification of the maintenance portal system to meet the requirements of a PROTECTED operating environment, and for connection to existing Defence systems.

### Outcomes and benefits

archTIS was able to achieve:

- A single point for accessing five discrete logistics management systems;
- Consolidated data retrieval and reporting;
- Automated engineering task management;
- Advanced contract and deliverable management capabilities; and
- Enhanced search capability.