

iFathom Success Story

**Canadian Navy (DMMS 3)
Consolidated Maintenance Information System (CMIS)
Consolidated Maintenance Information System – Ship (CMIS-S)**

The Client

DMMS 3 is the fleet data management section of the Canadian Navy and is responsible for maintaining a repository of planned and historic equipment and maintenance data for navy units.

The Challenge

DMMS 3 first sought to automate the tracking of maintenance against registered equipment in the mid-1990s. Strict business processes were already established for paper forms. As technologies advanced and became more available to the fleet, the electronic solution to tracking maintenance required evolution.

The aim of DMMS 3 was to provide the fleet with a reliable, robust and secure tool for reporting maintenance. The captured data was needed to build reports for fleet wide maintenance monitoring. Such reports provided indicators for fleet readiness and maintenance efficiency.

Deployment would take place over time as ships became available and would require careful management of configuration items.

The Solution

Thanks to our cutting-edge knowledge of database management systems and our direct experience with navy configuration management and maintenance systems DMMS 3 selected iFathom to design, build and install the required software.

The result was a joint effort between iFathom and the Navy that became known as the Consolidated Maintenance Information System (CMIS) and Consolidated Maintenance Information System – Ship (CMIS-S). The CMIS and CMIS-S project accomplished the following:

- **A redesign of business processes to take advantage of custom database applications and a custom repository;**
- **A migration and remodeling of the central corporate repository;**
- **The creation of a ship-based application to monitor and track maintenance;**
- **The creation of data transfer capabilities from ship to shore using database to database links;**
- **The deployment of new software to the fleet;**
- **The training of staff and delivering of support services, and**
- **The continued support for database administration and software upgrades.**

Since its inception, iFathom has managed the development life cycles of several versions of CMIS-S as part of an in-service support contract.

iFathom was made responsible for the complete technical and financial management of each life cycle and assumed responsibility for all risks.

The Result

Since their first deployments in 1995, CMIS-S has undergone four development life cycles and CMIS has undergone five development life cycles. This has resulted in higher data integrity in the central repository of maintenance data and growth of the central maintenance data repository as a warehouse of maintenance data for all the large ship classes. Reporting time for ship maintenance staff has been reduced and maintenance data now flows seamlessly from ship to repair facility to headquarters and back again.

Value Summary

iFathom's development and support of CMIS-S has helped DMMS 3 to take better control of the data capture for equipment maintenance and to better disseminate this data to National Defence Headquarters and the coastal repair facilities. The result of this higher degree of control and quality of data dissemination is a growing basis of historic data for long term planning and the greater visibility of maintenance expectations and results.

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