



U.K. Ministry of Defence

WRAM™ Online system developed to provide single logistics and maintenance management tool for all Rotary Wing users across Royal Navy, Army & Air Force

SUMMARY

The UK Ministry of Defence (MoD) collaborated with MIRO Technologies to design, develop and implement a web-based application called WRAM Online to serve as a common management information system, logistics tool, and unit maintenance management tool in support of over 600 Rotary Wing aircraft and 250,000 rotatable assets across three MoD services.

CHALLENGES

It was deemed critical that the new web-based solution had to retain the proven, battle-tested features of the existing WRAM (Work Recording & Asset Management) application, particularly the unique capability to autonomously support deployed units both ashore and afloat by means of effective data distribution. This meant that units in the field must maintain aircraft and control airworthiness in a disconnected environment, entirely without the need to connect their laptops to a remote server.

The timing for completion of the project was also a challenge. Due to operational constraints, the MoD required that the project be completed within ten months of contract award, which represented a significant cut in the original delivery timescale estimate.

SOLUTION

In response to the MoD's desire for a modernized GUI that retained the functionality and deployment flexibility of the legacy application, MIRO proposed a development project to migrate the Work Recording, Asset Management and Data Distribution features to a new application that utilized MIRO's new J2EE web-based component architecture. Using the latest Java™ and Oracle™ technologies, WRAM Online was developed so that it could be deployed on a variety of hardware and software platforms, providing all the battle tested features and unique capabilities of the original WRAM application.

In order to meet the aggressive timelines set for the project, MIRO worked very closely with the MoD on each project milestone.

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"The successful delivery of WRAM Online to time and cost has been a truly remarkable achievement against demanding timescales and has enabled the convergence of all Army and Navy Engineering & Asset Management activity onto a single, fully deployable system."

Captain Terry O'Reilly
MA CEng MRAeS Royal Navy
AD Coherence DLog Info (DLO)



Intelligent Maintenance & Logistics Software™

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U.K. Ministry of Defence (Continued)

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RESULTS

WRAM Online was accepted by the MoD for immediate use on the Apache Attack Helicopter fleet only ten months from contract award – on time and on budget. WRAM Online is scheduled for full rollout in 2Q 2006.

It is expected that benefits from the new GUI will be gained through improved user productivity, better data integrity and wider management usage. Additionally, savings will be made through reduced training and streamlined support.

- » Significantly reduced the time to capture safety critical data following flight and major component changes
- » Invisible and error-free updating of all routine servicing schedules and re-dating of all necessary operations
- » A comprehensive knowledge base for each aircraft type IPT, headquarters and unit engineering staff
- » Fast, efficient and consistent paperless planning
- » Major reductions in manpower expended in performing physical and documentary 'trawls' following incidents and accidents
- » Availability of reliable data for preparation of support business cases, and calculation of resources
- » Identification of and reduction in, the number of unauthorised parts being fitted to aircraft and/or assemblies
- » Fast and error-free amendment of maintenance schedules
- » Fast and error-free calculation of factored lifing figures for components
- » Substantial reduction in contract cost due to more accurate baseline data for ranging, scaling and TATs
- » Fast and accurate calculation of aircraft weight and balance after major component changes.

