

# CASE STUDY



## CHALLENGE

- Implement an E&AM solution serving as a common management information system, logistics tool, and unit maintenance management tool.
- Support over 800 Rotary Wing aircraft and 500,000 rotatable assets.
- Solution needed to be battle-tested and proven.

## APPROACH

- Miro created WRAM Online to support initial requirements.
- GOLDesp COTS software solution was implemented to replace WRAM to further functionality and cost savings.

## RESULTS

- Reduced 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.
- Major reductions in manpower expended.
- Substantial reduction in contract cost due to more accurate baseline data for ranging scaling and TATs
- Faster and more accurate calculations of aircraft weight and balance after major component changes.
- Identification of and reduction in, the number of unauthorized parts being fitted to aircraft and/or assemblies.

# UK Ministry of Defence

## Tri-Service, Advanced E&AM solution for all Rotary Wing Users

The U.K. Ministry of Defence (MOD) collaborated with Miro to design, develop and implement a web-based Engineering and Asset Management (E&AM) solution to serve as a common management information system, logistics tool, and unit maintenance management tool in support over 800 Rotary Wing aircraft and 500,000 rotatable assets across three MOD services. A bespoke E&AM solution called WRAM Online was delivered on-time and on-budget. The MOD subsequently upgraded from WRAM™ Online to Miro's COTS package GOLDesp™.

It was deemed critical that the new web-based solution had to retain the proven, battle-tested features of the existing WRAM 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.

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, GOLDesp 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.

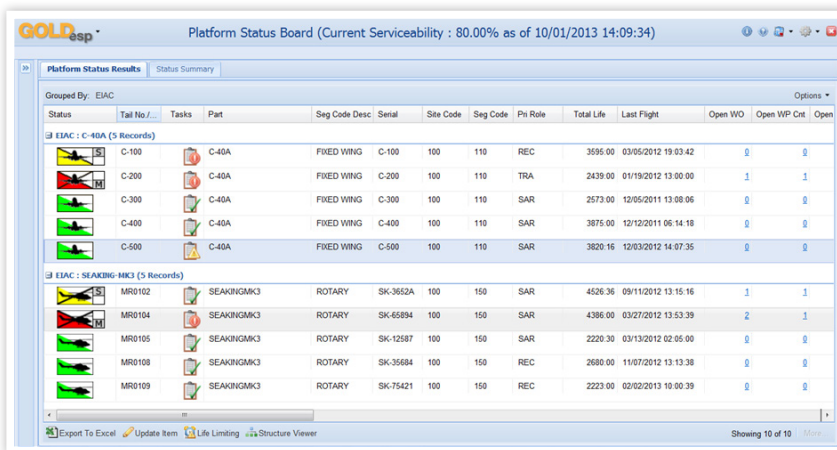


## ABOUT GOLDESP MRO & SUPPLY

GOLDesp is a premier software solution that integrates maintenance and supply to provide lifecycle support management of high-value complex assets for air, land, sea, and space. GOLDesp is combat proven and fully deployable, increasing asset visibility, mission readiness, and reducing sustainment and operational costs.

## ABOUT OUR COMPANY

Miro Technologies and Tapestry Solutions form The Boeing Company's Logistics Information Management Systems subdivision. Providing premier logistics COTS and custom software solutions to customers worldwide.



Platform Status Board (Current Serviceability : 80.00% as of 10/01/2013 14:09:34)

Status	Tail No /	Tasks	Part	Seg Code Desc	Serial	Site Code	Seg Code	Pri Role	Total Life	Last Flight	Open WO	Open WP Cnt	Open
EIAAC : C-40A (5 Records)													
	C-100		C-40A	FIXED WING	C-100	100	110	REC	3595.00	03/05/2012 19:03:42	0	0	
	C-200		C-40A	FIXED WING	C-200	100	110	TRA	2439.00	01/19/2012 13:00:00	1	1	
	C-300		C-40A	FIXED WING	C-300	100	110	SAR	2573.00	12/05/2011 13:08:06	0	0	
	C-400		C-40A	FIXED WING	C-400	100	110	SAR	3875.00	12/12/2011 06:14:18	0	0	
	C-500		C-40A	FIXED WING	C-500	100	110	SAR	3820.16	12/03/2012 14:07:35	0	0	
EIAAC : SEAKING-MK3 (5 Records)													
	MR0102		SEAKINGMK3	ROTARY	SK-3652A	100	150	SAR	4526.36	09/11/2012 13:15:16	1	1	
	MR0104		SEAKINGMK3	ROTARY	SK-65894	100	150	SAR	4386.00	03/27/2012 13:53:39	2	1	
	MR0105		SEAKINGMK3	ROTARY	SK-12587	100	150	SAR	2220.30	03/13/2012 02:05:00	0	0	
	MR0108		SEAKINGMK3	ROTARY	SK-35684	100	150	REC	2680.00	11/07/2012 13:13:38	0	0	
	MR0109		SEAKINGMK3	ROTARY	SK-75421	100	150	REC	2223.00	02/02/2013 10:00:39	0	0	

Integration between several point solutions, creating an effective application to manage multiple functions..

In order to meet the aggressive timeliness set for the project, Miro worked very closely with the MOD on each project milestone.

GOLDesp 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.

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.

UPDATE: The migration to GOLDesp enabled the MOD to take advantage of the COTS approach to reduce overall life-cycle program costs and gain access to more of the capabilities and functionally rich GOLDesp application suite.

The UK MOD took advantage of Miro's deployment in a decentralized architecture, whilst retaining network-centric capabilities, thus gaining Total Asset Visibility for the platform product teams and central command personnel to control engineering and airworthiness issues. This is the capability that has been in use for almost a decade and is battle-tested in forward operating theatres worldwide.

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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. ”

**CAPT TERRY O'REILLY**

MA CEng MRAs Royal Navy  
AD Coherence DLog Info (DLO).