

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

- Tapestry 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 Tapestry Solutions 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 Tapestry'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, Tapestry proposed a development project to migrate the Work Recording, Asset Management, and Data Distribution features to a new application that utilized Tapestry'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

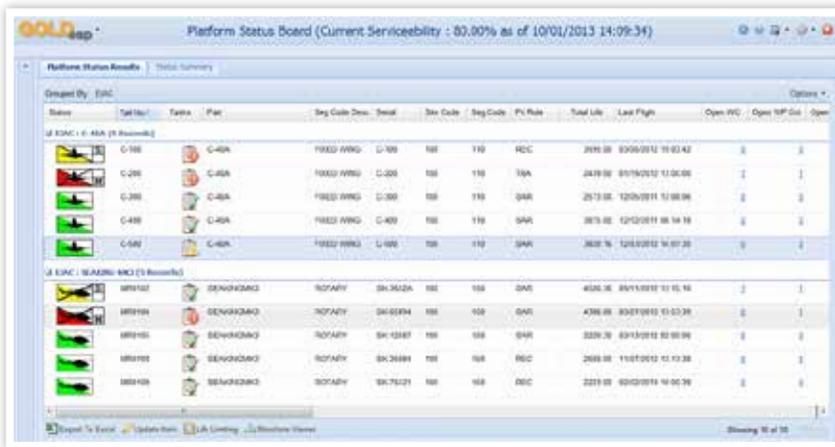


ABOUT GOLDESP MRO & SUPPLY

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

Headquartered in San Diego, California, Tapestry Solutions has approximately 850 employees and a presence in more than 50 locations around the world. A wholly-owned, independent subsidiary of The Boeing Company, Tapestry provides premier Commercial Off-the-Shelf (COTS) and custom software products and service to customers worldwide.



The screenshot shows the 'Platform Status Board' interface for GOLDesp. The title bar indicates 'Platform Status Board (Current Serviceability: 83.00% as of 10/01/2013 14:09:34)'. The main content area is a table with columns for 'Status', 'Tail No.', 'FAC', 'Part', 'Reg Code', 'Dns', 'Serial', 'Site Code', 'Reg Code', 'PI Rate', 'Total Life', 'Last Flight', 'Open WO', 'Open MP', and 'Open'. The table is grouped by 'FAC' and shows data for two groups: 'EAC' and 'SEASIDE'. The 'EAC' group includes aircraft like C-119, C-200, C-200, C-400, and C-400. The 'SEASIDE' group includes aircraft like S04102, S04104, S04105, S04106, and S04108. Each row contains various identifiers and dates.

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

In order to meet the aggressive timeliness set for the project, Tapestry 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 Tapestry'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.

CASE STUDY



“ 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).

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