AIRCRAFT UTILIZATION
Prescriptive analytics identifies maintenance needs

DRIVING INNOVATION
easyJet’s program of continual improvement

MANAGE CAMO WITH M&E IT
FL Technics leverages IT to better meet customer needs

MANAGE TOOLING WITH M&E IT
Jet Time leverages IT to better manage tooling and work
Ramco Systems gains new customers

SOUTHERN VIETNAM HELICOPTER COMPANY (VNHS) GOES LIVE ON RAMCO AVIATION SUITE

IMPLEMENTATION OF RAMCO AVIATION SERIES 5 HELPS VNHS GET SEAMLESS INTEGRATION, VISIBILITY AND CONTROL ACROSS M&E OPERATIONS

RAMCO Systems, the global Aviation software provider on Cloud and Mobile, announced at the end of August 2016 the successful go-live of Ramco Aviation Suite at state-owned Vietnamese helicopter operator, Southern Vietnam Helicopter Company (VNHS). This implementation marks Ramco Aviation 5.7’s first live customer in Vietnam.

The implementation of a unified platform has enabled VNHS to integrate operations including Maintenance, Repair and Overhaul (MRO), Supply Chain Management and Maintenance & Engineering (M&E). The Ramco offering covers modules for Maintenance, Material Management, coupled with Finance and Human Resource Management.

Commenting on the Go-Live, Pham Quang Hieu, Technical Director, Southern Vietnam Helicopter Company (VNHS), said, “We are excited to go live on a future-ready digital platform powered by Ramco. This is a remarkable milestone in our growth journey. Moving from some old software program with limited functions to an integrated system has given us the much needed visibility and standardization in processes across operations. The new system has given us the power to track complete component lifecycle, bring in optimization and automate redundant processes thereby increasing overall productivity. We are glad to have partnered with Ramco in our journey to embrace digitalization.”

Virender Aggarwal, CEO, Ramco Systems, said, “The Aviation software market is witnessing massive transformation. At Ramco, the thrust is on bringing business-ready innovations that can enhance user experience while improving productivity. This includes launch of BOTS, Anywhere Apps and optimization capabilities such as flyMORE among others. Our association with VNHS marks the coming together of two like-minded organizations which believe in leveraging the true power of technology. We look forward to playing a pivotal role in supporting Aviation companies in their digital journey.”

Designed to be accessible on cloud and mobile, Ramco Aviation Software continues to add technological innovations with wearable devices offering hands-free computing and with ‘Anywhere Apps,’ redefining the power of Mobility, amongst others that help to significantly reduce transaction time both during AOG conditions and critical aircraft turnarounds. Ramco is changing the paradigm of enterprise software with ZERO UI powered by cool new features such as Mail It — a feature which enables users to transact with the application by just sending an email; HUB It — a one screen ‘does it all’ concept built to address all activities of a user; Thumb It — mobility redefined and Prompt It — a cognitive capability which will let the system auto prompt you with options for your decision. With 75+ Aviation leaders onboard, Ramco is the solution of choice for several large airlines and top heli-operators, and multiple MROs around the world.

CANADA’S LEADING AEROSPACE & DEFENCE IN-SERVICE SUPPORT INTEGRATOR, L-3 MAS, SELECTS RAMCO AVIATION SUITE

IN early September 2016, Ramco Systems announced that it had won an order from L-3 MAS for the Ramco Aviation Suite to support the Canadian CC-150 Polaris fleet. L-3 MAS, Canada’s leading aircraft support service provider, will implement Ramco Aviation Suite V5.7 to manage the Maintenance, Repair and Overhaul (MRO) operations of the Royal Canadian Air Force fleet of CC-150 Polaris aircraft.

Ramco’s scalable and mobile-enabled MRO software built for the aviation industry will replace the incumbent legacy maintenance system in use for the CC-150 Polaris fleet with a full suite of aviation software covering Engineering & Programs, Materials Management, Maintenance, Compliance & Quality, Flight Operations, and MRO Sales, coupled with Offline Maintenance. The suite is expected to streamline L-3 MAS’ user processes and data infrastructure.

Ramco’s flexible, modular, and scalable architecture provides the horizontal and vertical scalability that L-3 MAS was looking for, including the need for offline maintenance capability.

Virender Aggarwal, CEO, Ramco Systems, said, “From mobility to BOTS, technology is changing at a rapid pace. At Ramco, the thrust is on blending these new-age technologies with business needs and offering solutions that result in improving productivity, operational efficiency and the customer experience. We are pleased to support L-3 MAS in addressing the highly specialized challenges of the CC-150 Polaris Fleet management. This win will further cement our strength in addressing the needs of the mission-critical defence segment.”
Making everything work better

John Hancock explains how Petroleum Helicopters International gained and continues to enjoy the best results from their MRO IT solution from Ramco
The Value of Shared Experience

There is nothing so real as the experience of others working in the same field. This case study shares an experience with which any MRO operator will be familiar. It’s the story of US helicopter operator Petroleum Helicopters International (PHI), one of the world’s leading helicopter services with operations in 43 countries and 77 field bases around the world. Starting from how they assessed their MRO IT requirements and concluded that those requirements could best be met using a powerful end-to-end MRO solution, to how they found the right IT partner and worked together to implement the system, improve business processes and manage the change needed to streamline their maintenance operations.

PHI Inc. World Class Helicopter Operator

The maintenance process is at the heart of PHI’s unwavering commitment to safety, which can best be described in a mantra often heard around the company’s maintenance hangars; every employee believes they can reach ‘Zero’… zero scope for error in safety issues.

PHI is proud that many employees have been with the company over multiple years (some more than thirty years). This depth of experience supports not only the zero error safety ethos but also the whole attitude where every employee feels responsible for and is proud of the quality of PHI services. It was in the context of this ‘safety and quality first’ culture that PHI determined in 2003 that they needed an MRO IT solution to see the company into the future delivering helicopter transport, around the world, in all conditions from Antarctica to Middle East deserts.

PHI’s Need for an MRO IT Solution

The overall goal was to achieve the benefits of an end-to-end solution that would streamline the entire workflow and enable PHI to remain at the forefront of its sector, as technology and systems developed in future. It was also important to find a partner who understood the aviation business. The solution would need to be able to reduce every possible source of revenue leakage, helping to deliver on time and stay in budget; plus the capability to accurately capture data at source, at all levels, avoiding data duplication and introducing data validation to avoid junk data from polluting the system. It had to be a robust system that could work with, monitor and audit vendors to ensure equitable collaboration. Plus, it needed to offer a significant level of automation of routine transactions, essential for the smooth functioning of the system, but time consuming minor, regular activities that ate into resources. The chosen solution would have to help achieve operational efficiency with simplified processes, e.g. having the right parts, at the right place, at the right time, with the right quality. Other requirements included a secure and transparent system that would help track status, data, and performance with accuracy at any point in time and that would help the company go paperless — from electronic record keeping to electronic signature and barcoding. This was a must for PHI to ensure that records would allow hyperlinking into bulletins or special alerts and illustrated parts catalogs, and also help reduce costs while improving the quality of documents and records.
Finally, PHI needed a strong process monitor that would cognitively forecast events within the system and warn users in case of any process deviation.

In short, PHI was looking for a complete solution to ensure a continuing return on investment (ROI), at implementation and into the future.

WHAT PHI NEEDED FROM AN MRO IT SOLUTION
- AN END-TO-END SOLUTION;
- TO REDUCE REVENUE LEAKAGE;
- TO ACCURATELY CAPTURE DATA AT SOURCE;
- TO SUPPORT COLLABORATION WITH VENDORS;
- AUTOMATION OF ROUTINE TRANSACTIONS;
- EFFICIENCY THROUGH SIMPLIFIED PROCESSES;
- TO BE SECURE AND TRANSPARENT;
- SUPPORT THE MOVE TO PAPERLESS PROCESSES;
- TO BE ABLE TO FORECAST EVENTS.

SELECTING THE RIGHT IT PARTNER
With all of the expectations that PHI had brought together, there would need to be a rigorous process to find an IT system provider with best fit of solution, to match PHI’s requirements and with an organization and culture compatible with the helicopter operator’s own organization and culture. Selection was a business process in its own right (figure 1) for which a selection team was brought together.

With everything now clear, PHI took the first step; identifying 109 developers and vendors of aviation related software. Detailed research against the criteria of the company’s expectations and requirements saw the number of candidates whittled down to 30, who might be qualified. A further short-listing process saw the number reduce to seven shortlisted vendors, who were sent Requests for Proposal (RFP) based on the responses to which, PHI selected three candidates who would be invited to make detailed presentations to the company.

Those presentations offered a unique assessment criterion. Each department at PHI had to provide a demonstration script representing a common situation they faced regularly on the floor. The last three vendors were each allocated two days in which they could make their presentation, based on the above ‘common situation’ material, a familiarization visit to the company and a common set of demonstration data was provided to each shortlisted vendor. PHI also shared with each vendor the scoring criteria that would be applied. When all three vendors had made their presentations the PHI team spent one day scoring for each vendor, with each department team scoring the corresponding demonstrations presented by the potential partners based on the elements they wanted to see in the software before compiling all the scores and selecting one vendor.

At the end of that process, the PHI team arranged to meet some clients of the selected vendor before taking their recommendation to the PHI steering committee, to finalize the selection and then communicating the results of the process to the project sponsors in PHI for final confirmation.

From this thorough process, PHI selected Ramco Aviation Solutions as the vendor who most closely matched their needs with out-of-the-box solutions to the ‘common situations’ and could deliver the end-to-end solution that the company needed.

THE IMPLEMENTATION
As with selection, implementation of the new solution was a process in its own right. Four critical success factors were identified as managing change, managing expectations, keeping to schedule and cost, and the relationship between the new system and the MRO workforce. The implementation process itself was broken down to five key elements, to ensure a smooth and transparent transition.

DEVELOPING THE PROJECT CHARTER
The project charter was the rulebook that had to be adhered to without deviation and could be referred to in support of both PHI and Ramco in taking crucial decisions, during implementation. It defined all the key elements of the process: the project objectives and the delivery model as well as the project deliverables themselves. The project organization was set out with the roles and responsibilities within it, and project communication structures plus documentation standards were also included. Mechanisms were established for project reviews and, importantly, for issue resolutions where required. At a higher level, the change management policy and processes were defined and risk management was undertaken.

ORGANIZATION WITH CLEAR ROLE ALLOCATION AND A TOP-DOWN APPROACH
The top-down approach helped get buy-in from every employee at PHI and ensured that all members of the team were aware of their contribution towards this significant transformation and, for this crucial step, the best performers were chosen. For every lead defined at PHI to take up

Software Selection Steps & Milestones

![Diagram of software selection steps and milestones]

Figure 1
With everything now clear, PHI took the first step; identifying 109 developers and vendors of aviation related software. Detailed research
finally, a partnership approach meant that people would be working together but how that would contribute to the overall success. And, with its strategy, ensured that everybody understood not just what they were responsible for a specific element of the implementation process, a corresponding Ramco member was also identified. Those members drawn from the PHI and Ramco teams interacted directly with each other for all aspects of the allocated element (figure 2).

POST-IMPLEMENTATION AND THE IMPACT ON THE BUSINESS
With the new system implemented and running by November 2004, the big question then became, what impacts did the changes bring about in the key operating areas of PHI’s MRO function: materials, maintenance, planning and reliability?

MATERIAL IMPACT
With the Ramco system in place, replenishment planning and materials forecasting has evolved as a robust system with cognitive abilities and every transactional process from repair order processing to contract purchasing has been simplified. The vendor certification process was streamlined, with provisions to place defaulting vendors on hold automatically and schedule regular vendor performance audits. Also, the Collaboration Manager established business-to-business connectivity and automated regular transactions, thus ensuring savings for PHI. Another time saver was the auto-generation of POs the moment any part reaches ‘min’ to replenish the stock back to ‘max’; this removed unnecessary manual intervention for many regular transactions. Also, the request matrix simplified the requisition process using an algorithmic approach to suggest auto-solutions. And, last but not least, warranty management to prevent revenue leakage by monitoring the warranty terms.

MAINTENANCE IMPACT
The implementation of paperless processes at PHI saved time, trimmed the processes and was greeted with immense relief by mechanics, who no longer had to refer to loads of paperwork, for a simple inspection. The introduction of electronic signatures ensured authenticity, while barcoding helped eliminate keystroke errors and increased process speed, at each stage. Electronic record keeping and data entry at source has helped in data validation, analytics and security; avoiding data duplication. Easy referencing of each vertical (from the oil and gas industry to the semiconductor industry) to its multi-tenant cloud and mobile-based enterprise software in the area of HCM and Global Payroll, ERP and M&MTUR (mean time between unscheduled removals), MTBF (mean time between failures), aircraft availability, etc. Overall, effective planning solutions helped achieve 100% automation in PHI’s inventory procurement process.

WHAT THE END-TO-END MRO SOLUTION ACHieved FOR PHI
The implementation of an end-to-end MRO solution, more than ten years ago, has supported PHI in achieving a secure, simple, scalable, collaborative, and streamlined process. The partnership with Ramco has helped PHI consistently improve its services, to become an industry leader in managing operations, technology, and maintenance. The adaptability of the solution has supported the operator in providing a flexible configuration, to meet the requirements of each vertical (from the oil and gas industry to medical operations) and cater to the unique climatic conditions in each country, where the business operates.

Most importantly, the numbers speak for themselves. PHI has seen a $1.5m in revenue per aircraft per year. Since 2010, the company has achieved an inventory accuracy of 99.99% with physical inventory audits reduced from four days to four hours and, leveraging better more accessible data, 20% of repair expenses are now recovered in warranty. There has been a 50% reduction in turnaround times for major refurbishments, at the same time that the fleet has grown from 40 to 275 aircraft and yet, there has been no increase in manpower numbers except for direct crew.

PHI has learned through profitable experience the benefits to be gained from identifying what was needed from an MRO IT solution, undertaking a thorough process to identify the right technology partner and then working together over the long term. In that way, they have ensured that the business is always properly equipped to face whatever challenges might arise and take advantage of any opportunities, in other words, be successful.

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PETROLEUM HELICOPTERS INTERNATIONAL
Petroleum Helicopters International (PHI) Inc. provides aviation transportation and support services. The company is based in Lafayette, Louisiana and is one of the world’s leading helicopter service providers with an operational footprint in 23 countries and 77 field bases around the world. Since PHI’s inception in 1949, the company has operated and maintained a wide variety of aircraft. From the Bell 47G to the innovative airframes of today, PHI has flown virtually every type of commercial helicopter. In addition to flying aircraft, the company has also maintained its own fleet during the 1990s. Safety, service and operational performance are the company’s top priorities. This focus drives the company and offers customers total service from the company that created the standard for operating helicopters — The PHI Standard.
The On-Demand Webinars you’ll need to choose the right MRO solution for you.

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In this first of two parts, we’re focusing on End-to-End solutions that can transform MRO IT from a group of, often, separate solutions for different process into a single solution. End-to-End IT solutions can deal with the IT needs of each engineering and support process, support the integration of MRO activities in order to realize the greatest efficiencies and can integrate MRO within the wider enterprise in order not only to realize efficiencies but also to take advantage of all data generated in the airline, from whichever source. End-to-End solutions remove the corporate silos and make all of the enterprise’s capabilities and resources available throughout the business.

Using the Aircraft IT On-Demand Webinar library, users can browse an enormous range of solutions from world leading software developers and vendors who know the MRO / M&E market well and apply that knowledge to their products. With each On-Demand Webinar taking an hour and being available online, readers can view as many as they want, when they want and in a place that’s convenient; they can even call together a group of interested colleagues who are all concerned with understanding the market or moving towards the selection of a new system. As a preliminary step, this will save many man hours while exposing users to all of the solutions that might match their requirements.

**ON-Demand Webinar Focus**

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