

Good Practice Market Place & Excellence Awards 2015

- Summary of Finalists' Submissions



Centralised Aviation Data Service (CADS)

BAE Systems sought to improve the safety of flight for military aircrew by inventing a ground based system that would help to reduce the chances of aircraft colliding. Under private venture funds the company developed a secure web based tool that allowed crews to submit and review flight plans across the UK. Operators were given the ability to instantly see all planned sorties within the same geographical area and timeframe, enabling them to better visualise the location of planned traffic. The tool was offered to Joint Helicopter Command (JHC) under trial for 9 months, during which it was continually refined to meet the customer need. On completion, in 2011, JHC procured CADS as a service. The system was adopted by Air Command in 2013, and now has over 3000 users from organisations as diverse as the Royal Air Force, Fleet Air Arm, Army Air Corps, US Air Force, Police and Air Ambulance flights. CADS has been awarded a prestigious bronze medal by the Royal Aeronautical Society, and patents in the USA and Australia.
BAE Systems, MoD, Joint Helicopter Command, Air Command, Fleet Air Arm and Army Air Corps

Defence Policy Transformation - An architectural approach to transform the nature and shape of Joint Service Publications

The Defence Logistics Framework (DLF) drives coherence over the plethora of defence policy into a single architectural framework. Currently, there is no single authoritative policy that provides clear, concise direction on how an individual should perform logistics tasks. The lack of clarity frequently leads to inconsistency and non-compliance. An architectural framework approach has been developed to capturing policy, processes and rules in a standard and shareable way. This provides the baseline against which Information Services can be developed to ensure compliance at the point of use. Effective engagement of the end user and an iterative approach to the design of the DLF has helped refine the product and maintain support. Transformation of JSP policy will: drive coherence in the implementation of logistics policy across the MOD; promote best practice between MOD and Industry; facilitate the implementation of information services consistent with the digital agenda.
MOD (FLCs, ACDS(Log Ops), DE&S DTech,, DE&S IMOC), LSC Group & Mood International

Development of a Joint Training Package for P2P

The MOD's Purchase to Payment (P2P) system is used by in excess of 2000 MOD Suppliers, covering an annual spend value of £2.6Bn. Over 98% of these suppliers use Exostar as their chosen connectivity option. Current use of P2P can mean that end users have no way of knowing what impact the data they enter will have and how well it is translated across the MOD / Industry system's Bridge. Further, there is a variance in P2P application across MOD Project Teams, causing confusion, inefficiencies and inconsistent 'work a-rounds by Suppliers to complete the payment cycle. For MOD, such differences cause inefficiencies and compromise the quality of data capture and resultant MI. Suppliers' Lockheed Martin and MBDA collaborated with Exostar and MOD to review both sides of the P2P 'Bridge' with the result that a joint training package has been developed aimed to address these issues by providing a single recommended way of operating P2P.
MOD; Lockheed Martin; MBDA and Exosta

Cyber Defence Capability Assessment Tool (CDCAT®)

CDCAT is a unique decision support system which allows an organisation to tackle its cyber security needs dynamically and proactively. This is achieved through analysis of an organisation's business risk tolerance with CDCAT's understanding of Cyber Security effectiveness. It fuses multiple cyber security controls and inputs from commercial, military, and intelligence operations around the world including NATO, UK MoD, the Australian Signals Directorate, ISO 27000 series and the NIST Cyber Security Framework - together with leading independent bodies such as the Council on Cyber Security. CDCAT combines these controls and inputs to provide a list of standards that can be used on a global basis. CDCAT's application is not limited to the Defence System; it also has direct application for the financial and telecommunication sectors.
APM Group, Dstl, Ploughshare Innovations Ltd, BMT Hi-Q Sigma Ltd

Development of Government ICT Value Chain Application – StratNav

Reachal's StratNav is a cloud application that enables collaboration and understanding on the complex portfolio of strategies within Government ICT domain. StratNav visually captures the links between strategies and defines the dependencies and interrelationships that need to be met to achieve government strategic people, estate and security based business objectives through technology enabled transformation. StratNav paints a unique and innovative picture of what is essentially an overwhelming volume of disparate text. The application allows anyone to understand the big picture and where their project, solution or requirement fits into the value chain. Reachal's private sector clients and organisations including Information Systems and Services (ISS), the CIOs office and Cabinet Office have helped to develop and validate the picture. It has been a useful source of debate and allowed for a full appreciation of the complexity and interdependencies needed for these strategies to succeed in unison. Using StratNav has allowed industry to provide improved effectiveness and coherence, business agility, increased efficiency and reduced enterprise risk whilst building better relationships with public sector partners. **Reachal Ltd.**

Type 23 Frigate On-Board Holdings Optimisation

The impact of this programme will be a step change in the ability for Royal Navy platforms to self-sustain and reduce the pressure on the Air Bridge to provide urgent support. We are ensuring the engineering branches have the necessary spares to undertake preventative maintenance during a deployment, and through the adoption of a COTS modelling tool known as RedCube, have markedly improved the availability of 'known items of failure' for corrective maintenance. "RedCube" modelling results show an improvement from current 10% to 30% CAL effective to circa 90%, for a generic T23 frigate. Also, the value of on-board holdings will reduce by >10% and the overall number of items will reduce similarly. It is also expected that intangible benefits such as confidence in the MOD enterprise support chain, improvement in the morale component of operational capability and a more joined up approach to addressing support difficulties will result. **Navy Command, Babcock M&T and Giode**

Information Superiority for Contingent Operations (ISCO) – Applying Research, Driving Change

The Information Superiority for Contingent Operations (ISCO) project aims to mitigate Information Superiority gaps within 5-year timeframe. To meet this challenge a team comprising of Dstl and industry personnel was formed which leveraged access to some of the biggest defence suppliers as well as Small and Medium-sized Enterprises (SMEs) such as Antillion through the CSIS (C4ISR Secure Information Infrastructure and Services) framework. The demanding battle rhythm of ISCO requires an iterative approach with its MOD Stakeholders. This drumbeat is supported by stakeholder 'show and tell' events where feedback is used to shape future activities. An RNET-X portal is also used to promote information sharing with both industry partners and MOD stakeholders. The Compact Deployable Information Services Capability (CDISC) is an exemplar of ISCO's innovative and effective approach. CDISC was engineered to meet the military requirements identified, which included hosting multiple security domains and environmental protection in a scalable small form factor.

dstl CSIS (C4ISR Secure Information Infrastructure Services) Framework – QinetiQ & Antillion

Project Waterguard and Export Controls

Compliance with European Law and Contractual obligations of foreign military sales agreements significantly impacts all of Team Defence – significant fines and debarment from handling US export Controlled technologies have been issued for non-compliances. This project addresses this strategically important issue; influencing UK Policy Development, processes and procedures to assure/ensure compliance with International Export Control Regulations (ITAR/EAR), satisfying HMRC regulations, European Law and Contractual obligations of foreign military sales agreements. Working with subject matter experts from Team Defence (Export Controls, Security, Commercial, Technical, IT specialists) and Trade memberships (UKCeB Membership, ADS, Exports Group for Aerospace and Defence (EGADS)) this project has involved significant cross programme collaboration with IDAM, SIS SRD/URD and Contracting for Information programmes, with significant benefits identified and activities to realise underway. Internationally recognised by NATO/US DOD the UK is seen as leading on MOD/Industry cyberspace collaboration for handling US origin sensitive technology. **MOD, ACDS (Log Ops), Babcock, BAE Systems, Rolls Royce, Oracle, tlmNEXUS, UKCeB, ADS, EGADS, General Dynamics, Thales, General Electric, Bolden James, Oracle, Boeing Defence UK and QinetiQ**