

# Results of the 2019 Team Defence Information Excellence Awards



**Judging and presentations made at  
at Defence Information '19, on 10 & 11 April  
Great Western Hall, Steam Conferencing, Swindon, SN2 2EY**

Congratulations to **Leonardo** as Winners of the TD-Info 2019 Excellence Awards. Two Highly Commended Awards and five Commended Awards were also made.

Our thanks to all entrants, to the independent judging panel and to delegates who availed themselves of the excellent opportunity to meet the finalists in the DI'19 Good Practice Market Place.

We are delighted to present the results, including submission summaries and photos of the awards being presented by Simon Foale (Dstl) who represented the independent panel of judges.

## WINNER TD-Info 2019 Excellence Awards

### The Best Part to Print: A Process for Down-Selecting Parts for Additive Manufacturing (AM)

Organisation: Leonardo Helicopters



#### Summary



This was a project in the Team Defence Information's Good Practice Study Group (GPSG) projects. Its aim was to develop a process to assist engineers and logisticians to identify the most suitable parts for Additive Manufacturing (AM), specifically at/near the point of need. After researching existing AM selection processes, a general decision framework for eliminating parts based mainly on objective criteria was developed.

Tested on an AW101 search and rescue helicopter cabin hardware, the project found that, from approximately 1500 parts and assemblies, only 154 were feasible for AM, of which only 29 – less than 2% of the inventory – were suitable for AM techniques.

The future of AM in aerospace applications relies upon safety critical certification. The study found that restricting AM to non-safety-critical parts overlooks components that may be suitable for 3-D printing without significant fatigue- or quality-testing or rigid process controls. Designing parts for AM is crucial to its success if AM is to reach its potential.



TD-Info members can download a copy of the paper authored by Travis Chamberlain [from the TD-Info website](http://www.teamdefence.info).



His acknowledgements include to the “*TD-Info team, the mentors and fellow participants for all of their support and guidance throughout the project. I also wish to thank my Leonardo Helicopters UK mentors and colleagues for their substantial efforts to aid my project from beginning to end.*”

## Joint Highly Commended in TD-Info 2019 Excellence Awards

### Type 23 Frigate Fleet Minor Trial for the “Connected Platform” using Analytics and Light Fidelity (Li-Fi) Technology to empower the Royal Navy (RN) Maintainer

**Organisations:** Babcock International Group’s Naval Marine Division, working with MOD and Supply Chain organisations, including Small to Medium Enterprises (SMEs) comprising:

- Navy Command Deputy Assistant Chief of Staff (Engineering Support) (DACOS(ES))
- DE&S Warships – T23 Strategic Class Authority
- Pure Lifi (for Wireless Network)
- Applied Integration (for Sensor Suite)
- SIEMENS control systems (for Condition Monitoring System)
- ContextIS (for Cyber Security)



#### Summary



Babcock Naval Marine working in collaboration with suppliers and customers – MOD Defence Equipment & Support (DE&S) and Navy Command – has demonstrated how information exploitation can empower a Navy Maintainer at sea.

This was achieved by retro-fitting sensors onto key equipment and systems, Light Fidelity (Li-Fi) enabling the compartment lighting and installing a Commercial-Off-The-Shelf (COTS) Condition based Monitoring System that is linked to an on-board and shore-side analytics capability that forms part of the Babcock intelligent Support (iSupport) toolset.

Using mobile tablets, a maintainer can now detect early signs of equipment failure whilst doing his daily inspections; thereby avoiding loss of operational capability.

Using data from the Platform, the shore side Support organisation can assess trends and provide foresight back to the on board Maintainer, as part of the Royal Navy Maritime Support Information Exploitation (MarSIX) strategy for future support.



## Joint Highly Commended in TD-Info 2019 Excellence Awards

### Quantum-generation Information Assurance

**Organisation:** Prizsm



#### Summary



A multi-tiered secure data storage solution that provides answers to Availability and Integrity issues as well as Confidentiality dimensions of Information Assurance problems, Prizsm provides total data security with minimal risk of data breach by radically re-thinking and re-engineering conventional data security practice.

Prizsm builds flexible, distributed, multi cloud data distribution & storage that delivers hyper-secure protection engineered for the cyber challenges business face every day.

Existing security practice typically offers multi-layer protection of data. Whilst strong as individual layers of defence, this approach can be brittle as once such layers are pierced the protected data is vulnerable to attack. Prizsm was designed to solve the 'brittleness' of conventional data protection to deliver stronger, flexible security for cloud users



## Commended in TD-Info 2019 Excellence Awards

### Project STAS: Providing troops with the equipment they need to stay safe

Organisation: Qioptiq



#### Summary



In partnership with MOD's DE&S Soldier Training & Special Programmes (STSP) Project Team, Qioptiq Limited have developed a configurable Management Information System (MIS).

Utilising a Commercial-Off-The-Shelf (COTS)

web-based collaborative platform and our own internal expertise we have been able to provide the user with a cutting-edge capability that streamlines document management, simplifies access to real-time strategic information and provides the ability to quickly and accurately make informed decisions on operational priorities.

The MIS has already proven its worth in delivering the support solution for the £82m Surveillance & Target Acquisition Support (STAS) contract. The STAS contract places the responsibility on Qioptiq for the overall supply chain management of a fleet of equipment critical to success at the front line. Through our initial and continued investment in the development and delivery of the MIS we have provided our customer with the assurance that we take this responsibility seriously.



## Commended in TD-Info 2019 Excellence Awards

### IA Inside

**Organisation:** Ascentor



### Summary



IA Inside – A full lifecycle approach to incorporating Information Assurance into the heart of projects and procurement activities.

Information Assurance is a well-established countermeasure to the growing Cyber threat all organisations and citizens face. Initiatives like the Cyber Essentials Scheme and certification processes (e.g. ISO 27001) are a good start in embedding robust risk assessment approaches into supply chains and programme management. However, they are not always an integral part of our working practices and systems.

Through our experience, working in Defence projects and procurement environments, we have often witnessed issues as a direct result of Cyber risk assessment/management being added as an afterthought with subsequent programme delays, additional costs and through life failure.

Ascentor's 'IA Inside' concept assists buyers and suppliers address Cyber risks as part of an overall business resilience approach, throughout the procurement lifecycle; thus, making IA holistic, integrated and effective, delivering clear value to the end user and UK taxpayer.



## Commended in TD-Info 2019 Excellence Awards

### Astute Class Submarines – Technical Documentation Support solution

**Organisations:** MOD In-Service Submarines (ISM), Submarine Production (SMP), and BAE Systems



**BAE SYSTEMS**

#### Summary



This solution supports the availability of the Astute Class Submarines by providing improvements to the Integrated Electronic Technical Publications (IETP), including a significant uplift in fully searchable datasets to support engineering repairs and the delivery of essential maintenance. The team developed, improved and implemented an innovative approach to technical documentation review, update, provision and publication for Astute Class Submarines.

Since being assessed as having a good standard (Green) for the Astute Class Submarine Technical Documentation Support solution by the Support Enablers Operating Centre (SEOC), the team have not rested on their laurels and have strived at every opportunity to improve the support to the Fleet and users of Astute Class Technical documentation.

Safety on Submarines has been improved by providing verified updates to the Damage Control Documentation to align with design change and the material state of the boat, thus enabling a safer operating environment for the Ship's Staff in support of International Safety Management (ISM) safety objectives.



## Commended in TD-Info 2019 Excellence Awards

### Improving information governance across the supply chain

**Organisation:** Clearswift



#### Summary



Digital collaboration relies upon technology to support the secure sharing of critical information across the supply chain without hindering communication flow; however, most information management solutions fail today's advanced security requirements and require near-constant human intervention to check and re-check that information being processed or shared is

authorized.

Clearswift's Information Governance and Adaptive Data Loss Prevention (DLP) solution leverages a robust Deep Content Inspection, granular information tracking and Adaptive Redaction technology to enable sophisticated information security across the supply chain.

Over 70% of Clearswift's global customers are critical national infrastructure organizations, including defence conglomerates and government agencies, all of which require the most demanding of cyber security solutions. Clearswift's technology, also recognized on the Gartner Magic Quadrant for Enterprise DLP, is revolutionizing the way organisations protect critical information with without increasing the burden on over stretched IT and information security teams.



## Commended in TD-Info 2019 Excellence Awards

### Governing Master Data within Defence Logistics

**Organisations:** Defence Logistics and Glue Reply



#### Summary



The project scope was to identify master data components important to defence logistics. This was to include where a master data component enters the MOD data supply chain and is subsequently shared between applications. Data feeding the decision making process is open to challenge and thus

reinterpretation.

To improve trust and understand how logistics can make better informed decisions through more accurate data, the project also focussed on events or influences likely to negatively impact data quality. The techniques used have enabled Defence Logistics to have a single view/reference point around data capabilities.

Finally, the project was to inform a proposal of a framework to improve the management, governance and control of master data considering industry best practice. The project has provided a clear way forward to improve management of master data and data quality as well as understanding of data capabilities and maturity.



## Judging & more about the TD-Info 2019 Excellence Awards

TD-Info extends its appreciation to the 2019 Excellence Awards judging panel comprising: **Ross Harris** (Cranfield University), **Peter Cheetham** (tImNexus) and **Simon Foale** (Dstl).

In his summary, prior to making the Award presentations, Simon Foale praised the efforts of all who had entered submissions and warmly recognised the contributions of the finalists, who showcased their entries to DI'19 delegates as part of the Good Practice Market Place. Simon, also a judge in DI'18, added that the job of separating the finalists was more challenging this year and that the standard of entries remained exceptionally high.



Once again, congratulations to 2019 Award winner **Leonardo**, and specifically to **Travis Chamberlain**, pictured here receiving the Award trophy from Simon Foale (right), with TD-Info Awards facilitator **Tony Butler** (left).

With his company's support, Travis undertook a project as part of the TD-Info [Good Practice Study Group](#) (GPSG). This Group organises an annual activity whereby "emerging professionals" are able to develop their research, management and presentational skills in a work-related topic that has direct relevance to their working environment. The GPSG has widespread support from both MOD and Industry.<sup>1</sup>

TD-Info Managing Director, **Phil Williams**, added his appreciation for the excellent projects and capabilities on show in the Good Practice Market Place 2019, noting their value in providing significant learning and networking opportunities for delegates to the event. Phil was keen to acknowledge the contributions of 'emerging talents', saying,

*"Congratulations to Travis (Chamberlain) for a first-rate GPSG study on 'Best Part to Print' and for the support from his Leonardo colleagues that led them to be judged overall winner of the Excellence Awards 2019.*

*At our Defence Information event this year, it's been particularly rewarding to see strong representation from 'emerging talent'<sup>2</sup> - apprentices and recent graduates – from both MOD and Industry. We look forward to them engaging more widely across appropriate TD-Info activities."*

<sup>1</sup> **Gareth Hetheridge**, Senior IT Business Partner – Rolls-Royce Defence UK), is the Industry lead for the GPSG with **Luca Leone** the TD-Info facilitator. Contact [luca.leone@teamdefence.info](mailto:luca.leone@teamdefence.info) to find out more about participating in the GPSG

<sup>2</sup> **David Hawken**, MOD ISS Deputy Head Strategy, was instrumental in organising a debate on Information Advantage including involvement of defence enterprise 'emerging talent'