

For MOD staff, the DI'19 Event is likely to be eligible for your Continual Professional Development (CPD)

Defence Information '19 Event: 10 & 11 April 2019

'Information-enabled Modernisation'

Day 1: Information, Cyber & Information Enablers; Day 2: Support, Services & Support Information

Jointly presented by Team Defence Information, MOD & Cranfield University

Venue: **STEAM Museum Conferencing**, Fire Fly Avenue, Swindon, Wiltshire, SN2 2EY

Defence Information (DI) is the major annual Team Defence Information communications event jointly planned by MOD & Industry. Both MOD and Industry are well-represented as delegates, keynote speakers, panelists, workshop leads, exhibitors and finalists in the 2019 Excellence Awards.



Defence Information Event 10 & 11 April 2019
Information-enabled Modernisation
Keynotes - Workshops - Panels
Emerging Talents - Innovation Zone
Excellence Awards - Exhibitors
Event Dinner - Networking
At GWR STEAM Conference Centre, Swindon

DI'19 Exhibitors & Sponsors
MuleSoft, IFS, Frazer-Nash, Brookes, ModCloud, Splunk, Camcade, Bizdesign, Thinklogical, Nutanix, Kahootz, #becrypt, Deep Secure, ADS, BAE Systems, SNC-Lavalin, Atkins, Pure Storage, Oracle.

Booking & Full Details at www.teamdefence.info - see Events

Day 1: Information, Cyber and Information Enablers
Day 2: Support, Services and Support Information

Speakers at Defence information 2019 include...

 Charles Forte MOD Chief Information Officer	 Nigel Whitehead CTO BAE Systems & Chair TD-Info	 Air Cdre Andy Curtis Programme Director DSN(T)	 Clare Fry ISS Design COO & JIG Co-Chair	 Andy Burch Dir Eng Svcs Babcock & JIG Co-Chair	 Brig Charlie Maconochie Hd Ops Planning & Cust Services Mgr ISS	 Vignesh Kumar Hd Data & Analytics BearingPoint	 Richard Jefferys Hd ISS Commercial
 Steve Glass MOD Dir SEOC & Co-Chr DISCOG Strategy Bd	 Ian Cowper Hd Warships Platform Engineering Babcock	 Steve Latchem MOD ISS Head of Architecture	 Gareth Hetheridge Senior IT Bus Partner Defence UK Rolls-Royce	 Colin Williams Bus Development Director SBL	 Owen Thomas Babcock Seconded to TD-Info	 Phil Williams TD-Info MD	 Brig Sara Sharkey Hd ISS Application Services & Dev Ops

Event Highlights:
INNOVATION ZONE, Emerging Talents debate, How MOD can gain Information Advantage, TEAM DEFENCE INFORMATION OVERALL WINNER Excellence Awards 2019, 8 themed Workshops over 2 days, App, Event Dinner (option)

The government's recent report on the [Modernising Defence Programme](#), highlights 'Mobilising, Modernising & Transforming Defence', themes that we focus on in our DI'19 event: **Information-enabled Modernisation**. Senior figures from MOD and Industry are contributing to mapping the current landscape and highlighting the direction of travel.

April 19 will be ideal timing to understand more about new funded programmes in key areas such as Information and Information Services. Our DI Event's 2-day programme brings together MOD and Industry partners who are *users* of these Services, as well as Industry *suppliers* of Services: people with the collective experience/expertise to gain mutual benefit from informed discussion and shared insights.

MOD CIO **Charles Forte** and **Nigel Whitehead** Chair of TD-Info & CTO at BAE Systems are just two senior figures speaking at DI'19. With around 350 professionals and Whole Force representation, DI'19 has strong engagement from leaders, subject matter experts, practitioners, suppliers and users.

Take action now to be part of DI'19: visit <http://www.symposiaatshrivenham.com/di>

To learn about **exhibitor** and **sponsor packages**, go to the [website](#)

To engage with the DI'19 planning group, contact steve.shepherd@teamdefence.info

DI'19 is promoted across various channels including



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Exhibitor Stands and Sponsor Packages at DI'19

Invest in having your company's capabilities on show, recognised and discussed at DI'19. Have your collateral included in the dedicated DI'19 App (NB: a different App this year). As an Exhibitor &/or Sponsor, you gain excellent



visibility amongst an engaged and influential audience of defence professionals from both MOD and Industry, at an annual 2-day event that provides networking with 350 attendees.



There are a range of packages available as an Exhibitor and, for added presence, as a **Sponsor**. All are at competitive rates and provide a range of benefits. To learn about **exhibitor** and **sponsor packages**, go to the [website](#)

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DI'19 App - covers the full programme on your portable device

The dedicated DI'19 App (*new application for 2019*) enables delegates to keep in touch with the event through the interactive programme. Functions include: full programme and speaker profiles; workshop descriptions and selection; document links for exhibitor/sponsor literature; finalists for the 2019 Excellence Award; notifications, polls and opportunities to ask questions via the App. We are grateful to have the assistance of two apprentices - John Downs and Bradley O'Connor - with admin of the App over the period of DI'19.



The DI'19 Dinner at STEAM

You also have the option of participating in a **formal dinner** at the historic [STEAM](#) museum, an excellent venue for dining and socialising with guests.

Emerging Talents Debate how MOD can gain Information Advantage

Emerging Talents
debate
How MOD can
gain Information
Advantage

The growing interest and levels of attendance at Defence Information Events over recent years illustrates its success in bringing together MOD and Industry to address topical issues around secure information sharing. Attendee feedback helps develop an engaging and relevant event programme. It has consistently pointed to one area for improvement: we need to attract younger members of our community to participate in the Defence Information Event.

For DI'19, we have taken positive steps to engage these important members of our defence community. Our stimulus is a debating session involving two groups representing emerging talent, from MOD and Industry. The topic is "How the MOD can gain the Information Advantage". The emerging talents will be side-by-side with experienced Panel members to 'make their pitches', debating the issues before opening for a full audience debate.

The format has scene setting on Information Architecture & Information Advantage from **Steve Latchem, Head of Architecture and Chief Architect, MOD ISS** and Industry input from **Gareth Hetheridge, Rolls-Royce**. The emerging talents from MOD and Industry provide their perspectives, followed by a Panel debate.

We have challenged our emerging talents to be creative with this purposefully open topic. And a 'lively' session is in prospect, based on a recent preparatory workshop - our DI'19 audience should expect the unexpected! In addition, emerging talent representatives will have their own exhibition stand, so Event attendees can chat to them during the breaks, e.g. discussing the topic more closely and learning about their preparations for the debate.

Demonstrating further commitment to emerging talents, the MOD is preparing for 20+ Apprentices to participate at DI'19, as part of their wider education, aiming for them to engage with their Industry peers whom we trust will attend in numbers too. We are sure that all delegates in our defence community will welcome 'new blood' as part of the invaluable networking at DI'19.

Innovation Zone A shortlist of companies will be presenting in the Innovation Zone. An award will be presented at the close of Day 2 of DI'19.

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DI'19 Presentations, Speakers, Panels and Workshop Listings

April 2019
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Day 1 | Information, Cyber & Information Enablers



**Charles Forte, Chief Information Officer (CIO) Ministry of Defence –
Leading the Defence Digital & IT Transformation**

Clare Fry MOD ISS Design Chief Operating Officer (COO) & JIG Co-Chair (MOD) and Andy Burch, Director Engineering Services Babcock International Group & JIG Vo-Chair (Industry) - Partnering with Industry for Joint Success



**Brigadier Charlie Maconochie, Head of Customer Services, MOD ISS -
Providing Digital and IT Services Mission Assurance in a Complex World**

Abstract: As the character of conflict continues to change, fuelled by the Fourth Industrial revolution in technology (data, processing, Artificial Intelligence, robotics & so on), and global uncertainty continues to rise, it has never been more important to provide comms/ICT Mission Assurance for our Military Commanders at the Defence Enterprise level. And yet our lessons from operations and exercises suggest we have much more to do. What is Mission Assurance? What measures are we taking to improve the situation (including Defensive Cyber Operations)? and how can industry help?

**Vignesh Kumar, Head of Data & Analytics, BearingPoint & Ralf-Dieter Wagner, R4
General Manager Europe**

AI-enabled acceleration of IT modernisation

Abstract: Governments are making significant investments into the modernization of their IT landscapes. AI-enabled approaches can help accelerate those programs, delivering fast time to value with extensible use cases achieving scale within domains. New functional capabilities which can be added leveraging AI can be found in all areas of governmental responsibilities regardless of data structure or location; examples are R&D portfolio alignment codifying knowledge within the organization, Human Capital & Talent management to improve recruitment, retention and unit performance, smarter Forecasting as an input into Supply Chain Management optimization, all with the underlying objective to improve government services and experience without the need for multi-year IT transformations. Leverage the massive amounts of data now, rather than wait for the modernization efforts to complete without limiting future system requirements.



The joint presentation of BearingPoint and r4 will provide an overview of AI enabled approaches and will deep dive into a specific example of R&D portfolio alignment for a major division of a Defense department to bring the power of applied AI to life.

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**Colin Williams, Software Box Ltd (SBL) -
The Lost History of Cybernetics... And What It Means for Command and Control in
The Information Age**

Abstract: In 1948 an American mathematician and polymath by the name of Norbert Wiener published a book: "Cybernetics". It became an overnight sensation with reviewers comparing its significance to Galileo, Malthus and Mill. It christened an intellectual movement that spanned the Atlantic and numbered Alan Turing and the cultural anthropologist Margaret Mead amongst its founding minds. What might we learn today from this now almost entirely forgotten and invisible way of thinking? How might the ideas and machines of cybernetics assist us as we struggle to underpin the overhang of the Napoleonic era staff structure and grasp at the unravelling of the industrial age orthodoxies of 'lines' of communication and 'chains' of command? The certainties of the Cold War have dissolved into the ephemeral contingencies of the swirling clouds of a perpetual 'un-peace'. How might our past help us cope with our present and our future?

**Matt Simpson, Atkins Secure Assured ICT -
Secure by Design: Enabling Resilient Information Advantage**

Abstract: "It's not Secure, so what do we need to do to make it Secure?" is a challenge both the defence and private sector repeatedly face as they develop and implement digital technology, but what if you engineered your networks and systems to be secure and resilient throughout their deployment lifecycle? Cyber Security is a risk, and it has the potential to impact capability, prevent operations and even cause safety and environmental issues, but engineers have been successfully managing risk on complex military and civilian platforms for decades, so what does a systems-engineering approach to Cyber risk look like? And can lessons learnt from the private sector be applied in the Defence domain?

Matt will explore how a consistent and coherent design approach can be used to engineer out Cyber risk and successfully build resilience into your Enterprise Architecture, with a primary objective that focuses effort on mitigating operational impact rather than emerging technology vulnerabilities.

Information Advantage - Engaging Emerging Talent

Steve Latchem, Head of Architecture, MOD ISS - Setting the Scene

Abstract: Information Advantage has been defined as 'Credible advantage, gained through continuous, adaptive, decisive and resilient employment of information and information systems.'

But what does this mean for the underpinning Information Architecture and services/solutions? And for this part of the conference, for the Defence people and industry partners (Civilian, Military, and Industry Collaboration, CMIC) which will deliver it? Steve will set the scene for the Information Architecture Enablers, and some of the key architectural themes, then transpose this into a set of behaviours and technical skills that will be required for our Defence People and Industry Partners.

Gareth Hetheridge, Senior IT Business Partner - Defence UK Rolls-Royce | Industry Viewpoint
MOD & Industry Emerging Talent | MOD & Industry Perspectives | **Brad Carmody, MOD** | **Harry Blake, Leonardo** | **James Miller, BAE Systems** | **Kiel Patrick, Pure Storage** | **Owen Thomas, Babcock** | **Team Defence Information** Experiences (when on secondment)



**Day 1 Chair for Panel Debate: Chris Rowley, Babcock International Group Head of
Digital Asset Management and Chief Digital Information Officer**

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Day 2 | Support, Services & Support Information



Major General Tom Copinger-Symes CBE,
General Officer Commanding Force Troops Command, Army
Information on the Frontline



Air Cdre Andy Curtis, *MOD Head of Defence Support Network Transformation – DSN(T)* | Defence Support Network Transformation



Nigel Whitehead CBE, *BAE Systems, Chief Technology Officer and Chairman TD Info* | Industry Keynote



Steve Glass, *Director Support Enablers Operating Centre (SEOC), MOD DE&S* | Support and Support Information



Ian Cowper, *Babcock Head of Warships Platform Engineering* and **Chris Rowley,** *Babcock CDIO* | Digitally-Enabled Maritime Support



Tim King, *New Green Box Lead (Industry sponsored)* and **Andrew Smith,** *Boeing Defence UK* | The Green Box & FLIS – current Logistic IS activities



Panel Chair: Parm Sandhu, *Information Services - Business Development Lead, Boeing Defence UK*

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Workshops at Defence Information 2019

There are eight engaging workshops, across 2 days of the DI'19 Event. Choose one from each of the four options on each day. More details to be added in due course.

Day One - Workshops 1 to 4

- **Workshop 1: Information Security Forum: Industry Vignettes to provide clarity to users**

Ian Bryant, MOD Dep Hd Policy | **Craig Jordan, BMT** | **Mark Parkin, Rolls Royce**

Synopsis: To be added

- **Workshop 2: Engaging Emerging Talent – What does this mean for Information Skills?**

Ian Sinclair, Civica, Principal Business Consultant

Synopsis: Following on from the previous Information Advantage panel debate this workshop will look to identify the implications on Information Skills across Team Defence. JCN 2/18 states that “it does not matter how good our equipment or technology is if Defence does not have sufficiently trained, educated and equipped people to exploit it.”

The Emerging Talent from both MoD and Industry will again be at the heart of the discussion as we establish what they want from their future careers. What attracted them into defence and what do we need to do to retain them? Do they feel that they have the information skills to deliver an Information Advantage?

With the help of the audience we aim to identify where the key skills gaps are and where the priorities lie. Crucially we need to know what to do now to meet the requirements of JCN 2/18.

- **Workshop 3: Enabling Digital Collaboration – Modernised Document Marking**

Richard Skedd, BAE Systems and **Warren Bayliss, Rolls-Royce**

Synopsis: The TD-Info working group on Export Control, including the MOD Waterguard Project, has agreed an initial standard for document visual marking and metadata to enable the identification of information sensitivity in terms of commercial confidentiality, national security and export control. The intent is that when information is exchanged between partners in Team Defence this will enable appropriate control and handling of that information by both the human recipient and information systems in an efficient and effective manner. The workshop activities will include:

- Overview of the challenges and issues
- Outline of the initial standard and an example of its implementation
- Feedback of initial findings from test implementation across Team Defence organisations
- Discussion of benefits and challenges
- Opportunity for organisations to volunteer to participate in future test activities

Expect to gain: improved understanding of the specification produced by the Export Control working group across Team Defence and of further activities to continue driving adoption. **For more information:** click on [Export Controls/Waterguard Support](#) to view the community on TD-Info's member website.

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- **Workshop 4: What did Cloud ever do for the Defence Supply Chain?**

David Lawford Mee & Mike Dyer, UK Cloud and Luca Leone, Kahootz

Synopsis: To be added



Day Two - Workshops 5 to 8

- **Workshop 5: The Green Box & FLIS – How you can be involved**

Tim King, Team Defence Information | Justin Uttley, Boeing Defence UK and Peter Cheetham, tlmNexus

Synopsis: To be added

- **Workshop 6: MODCloud – Transforming Defence Hosting**

Neil Coultas, MOD Applications Services DevOps Tower (ASDT)

Synopsis: To be added

- **Workshop 7: Innovation**

Graham Curtis, Oracle, Industry Strategy Director – Aerospace and Defence and Kevon Bailey-Barclay -

Synopsis: MOD set a challenge for the SMEs in the Innovation Zone: Explainable Machine Learning in the context of Defence.

- **Workshop 8: Mobile Apps**

Rob Stroud, Boeing Defence UK & Simon Winfield, Deputy Head Information Architecture, MOD ISS

Synopsis: This workshop will present back the findings of the joint work by MoD and the Joint Information Group (JIG) in 2018 which was designed to ensure coherence and compliance by reviewing and enhancing policy, standards and specifications for Mobile Technology to provide a “platform” on which applications can be rapidly deployed within Defence. The findings were captured in a report which was endorsed by the JIG Board in December 2018

Read more about the [Mobile Services Study - JIG Project](#) on the TD-Info website.

Team Defence Information 2019 Excellence Awards

The Team Defence Information **Good Practice Market Place (GPMP)** and **TD-Info 2019 Excellence Awards** recognise, celebrate and share successful collaboration practices in Team Defence. The finalists will each have a stand in the Good Practice Market Place. A summary of their submissions is in the Appendix.



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Benefits of the Excellence Awards

Benefits of entering the Team Defence Information Excellence Awards include:

- Widespread recognition & publicity for innovation & good practices; all are 'winners'
- Free stand & two attendee places at DI'19 - attracts c350 attendees from MOD & Industry
- Shared learning through networking and benchmarking at DI'19
- Supports continual improvement process; structured reflection on achievements

Previous Winners of the Excellence Awards

Every year Team Defence Information use its Excellence Awards to celebrate innovative activities within a broad scope of 'demonstrating improvements - or potential improvements - to collaboration across defence'. Keenly supported by both MOD and Industry, this competition recognises the value of learning from joint endeavours involving organisations of all sizes and specialisms.



Click to read about past finalists and awards under the Key Word [TD-Info Excellence Awards & Good Practice Market Place](#).



The 2018 overall winner was [GBR14](#), a small to medium enterprise whose innovative capability largely eliminates the risk of mass data loss and facilitates secure data use and sharing. Hence, data security becomes a facilitator in value-add business processes - and not a restrictor, as can be the case.

The award was presented to GBR14's Peter Rogers (CEO) and Kully Johal (Chair & Co-founder) at the Defence Information 2018 Event.

The judges for DI'19 are: **Ross Harris, Cranfield University** and **Simon Foale, Dstl**

In 2018 Chair of Judges was [Kevin Parker](#) who gave a perceptive and engaging overview of the achievements and benefits to defence represented in these project submissions. View the [video of his presentation](#) and see his [slide deck about the 2018 awards](#).

Phil Williams, TD-Info Managing Director, on the Defence Information Event



We warmly invite you to participate in our DI'19 Event, once again being held at the [GWR STEAM Conferencing](#) facilities in Swindon. This characterful venue provides us with ample exhibition and networking spaces, a capacious main hall for presentations and numerous workshop rooms – all on the same compact site. Our valued Event Dinner, on 10th April, is held amidst period railway platforms and surrounded by railway memorabilia!

As we recognise from the Secretary of State's Report on the [Modernising Defence Programme \(MDP\)](#)¹, *modernisation* is to the fore – underpinned by information: hence our 2019 theme of '**Information-enabled Modernisation**'. To be reminded about Team Defence Information, please look at our section on 'About TD-Info'. Our efforts are in "*collaborating and optimising the value from business information*"

¹ The MDP Foreword from the Secretary of State summarises the themes from the three key words in the report title:

- "**Mobilise** defence to make the most of what we already have..."
- **Modernise** defence and the Armed Forces to deliver national and international security more smartly and effectively, adapting how we operate, becoming more innovative and better at exploiting the opportunities offered by modern technology to ensure we retain strategic military advantage"
- **Transform** the way we do business to maintain momentum on strengthening and modernising defence."

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working across Team Defence", which we feel aligns well with the MDP's third conclusion of "Transforming the business of Defence to deliver a robust, credible, modern and affordable force". Further, our trusted TD-Info forum is there actively to support the MDP assertion that MOD "will encourage a culture of experimentation, and change our acquisition and commercial processes to better support the rapid and incremental adoption of new and emerging technologies."

At DI'19, we are privileged to have a diversity and wealth of participants: **leaders, subject matter experts, practitioners, suppliers, representatives of service users and delegates**. Over two days, and with a stimulating programme and ample networking, DI'19 provides a great opportunity to collectively address the 'Mobilising, Modernising and Transforming' challenges in the report on the Modernising Defence Programme.

This year we are actively encouraging participation from *emerging talent* across defence. They will contribute to a workshop/debate on the challenges of **Gaining the Information Advantage in Warfare**. Also, our [Good Practice Study Group](#)² are involved, sharing insights from their research into topics such as Additive Manufacturing in defence. For the first time, we have an **Innovation Zone** where finalists in a Challenge set by the MOD will exhibit. They are Small to Medium Enterprises (SMEs) and Start-ups who were successful in responding to the Challenge set: [Explainable Machine Learning in the context of Defence](#).

As always, our valued **exhibitors** and **sponsors** and the finalists for our **2019 Excellence Award** (in the Good Practice Market Place) provide insights into innovative capabilities and case studies; some of these arise from non-defence sectors, yet have good defence applicability.

Our annual event is planned jointly by MOD and Industry to maximise 'Team Defence' coverage and relevance. We strive to maintain consistently high standards that reward the active engagement of delegates. The two days of DI'19 span **Information (Day 1)** and **Support (Day 2)** across Team Defence is designed to be purposeful, inclusive and productively informal. Most importantly, we believe that the work undertaken here, and elsewhere under the Team Defence Information umbrella, ultimately supports the front line.

About Team Defence Information

We are a collaborative association that informs defence information policy and pilots new ways of working to transform the defence ecosystem. We bring into play the collective insights, knowledge and innovations of our members to help the MOD deliver its objectives for equipment and information. Collaboration with the MOD gives members invaluable business intelligence to align and enhance their products, services and working practices.

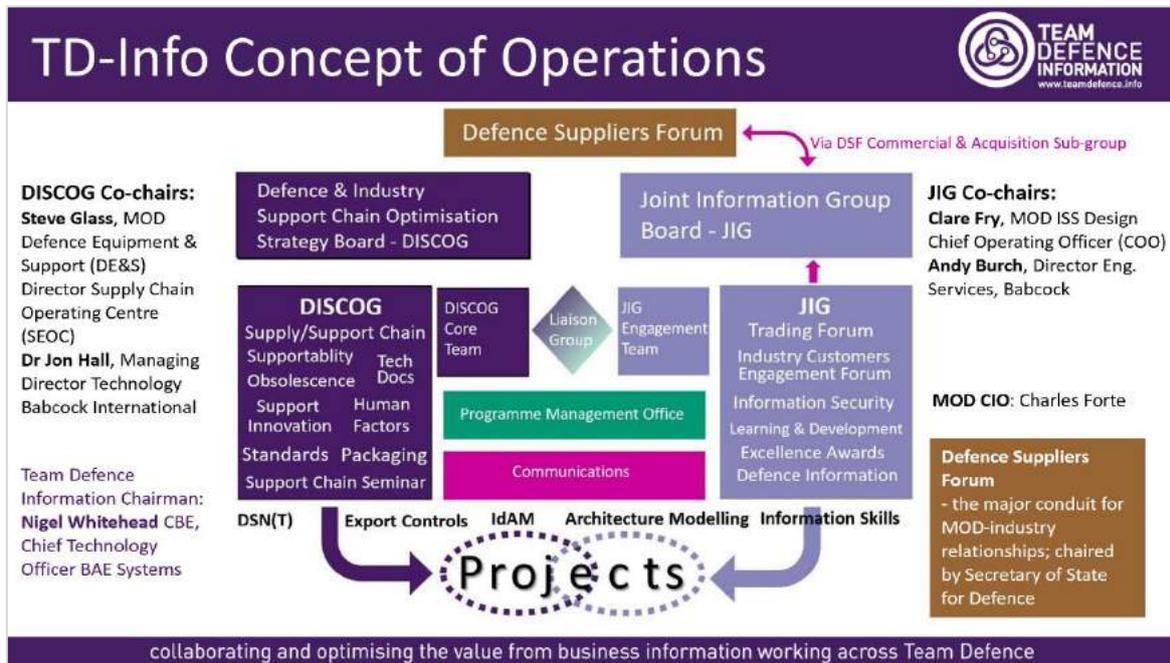
Our operating model (see diagram below) encompasses Support/Supply Chain and Information through the **Defence & Industry Support Chain Optimisation Group (DISCOG)** and the **Joint Information Group (JIG)**. We report to the **Defence Suppliers Forum (DSF)**³, "the major conduit for MOD-industry relationships" chaired by the Secretary of State for Defence. TD-Info is also well-engaged with the **Defence Support Network (Transformation)**.

² The GPSG aims to examine instances of best practice from other operators, sectors and parallel industries; and, to understand their potential application for Team Defence. It is an excellent opportunity for graduate and apprentice development, digital innovation training exposure to our MOD customer and to applying cross-sector learning.

³ The DSF took the decision in 2018 to implement the [New Green Box](#) (working title), a construct whereby Industry is engaged as a stakeholder in the MOD processes for consulting on and assessing the impact of proposed information system changes on their output based contracts; in addition, the New Green Box will assist the MOD to shape significant new requirements.

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As a trade body, funded by Industry with MOD as partner, TD-info acts as a catalyst and facilitator whose activities complement those of **ADS** and **tech^{UK}**, organisations with whom we collaborate.



TD-Info member organisations include *suppliers* of ICT services **and** Industry contractors who are *users* of ICT services supplied through **MOD Information Systems & Services (ISS)**. Typically, these ICT *users* are contractors for platforms and materiel, as well as providers of through-life support. Industry increasingly works closely alongside the MOD. There are circa 120,000 users from Industry on MOD infrastructure, a significant customer group who use the JIG-sponsored Industry Customers Engagement Forum (ICEF) for Industry and ISS to work together to improve services and support.

TD-Info is a 'hands-on' organisation whose joint, resource-volunteered activities include: Supply Chain and Support Chain, Trading, Information Management, Security, Learning and Development, Standards and Innovation.

TD-Info members range in scale from multinational enterprises to Small-to-Medium-Enterprises (SMEs) to niche micro-businesses, all involved in complex defence supply chains and support networks that benefit from improved end-to-end, secure information sharing; information is the 'lifeline' of the defence enterprise. Our joint Industry-MOD governance drives coherence and continuity, with representation through to the Defence Suppliers Forum, as previously mentioned.

Participation in TD-Info activities provides 'force multiplier' benefits for organisations. Collaborating, our work draws on real-world use-cases involving Team Defence (i.e. MOD and Industry) and engages subject matter experts from varied disciplines to develop pragmatic, common solutions. TD-Info promotes global standards and inter-operable ways of working, designed to increase efficiency and effectiveness. Corporate knowledge is captured and shared via our website at www.teamdefence.info.

The collective efforts of Team Defence Information members are ultimately directed at sustaining and developing superior operational capabilities for the benefit of the Whole Force

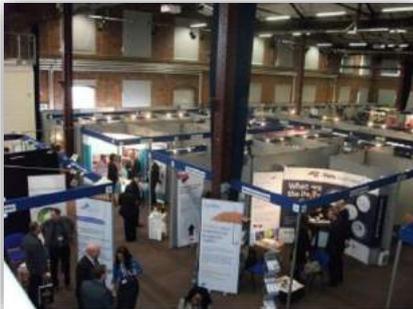
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Our venue for Defence Information 2019 – [GWR STEAM Conferencing](#)

Those who have attended Defence Information events in previous years may also have joined the Event Dinners that are held in the splendid surroundings of the STEAM Museum, the award-winning venue dedicated to the Great Western Railway (GWR). Our DI'19 Dinner will still be held here, and we are relocating our two-day Event to the associated conferencing facilities in Swindon.



DI'19 will be held in at the STEAM Museum Conferencing, using the site of the former GWR Works whose spaces for presentations, exhibitions and workshops are well-serviced and have plenty of character and charm. The main hall for example is the former '20 Shop', measures 21m x 43m and can accommodate up to 750 people. Other spaces are available for workshops and presentations.



FREE Parking for DI'19 There is **free** parking for DI'19 delegates, on presentation of a car parking ticket from the designated car park (Swindon Designer Outlet North Car Park) at Event Reception. This longer-term parking at the Swindon Designer Outlet North Car Park can be found at Kemble Drive, postcode [SN2 2NA](#), where you collect your parking ticket to present at STEAM. For exhibitors to drop-off and collect stands, there is short-term parking on-site at STEAM Museum, Fire Fly Avenue, Swindon, Wiltshire [SN2 2EY](#)

The Dinner at STEAM on 10th April The Defence Information Dinner option is available to delegates and exhibitors/sponsors. This well-attended evening session is held in the atmospheric surroundings of the museum and provides excellent networking opportunities in a relaxed setting with quality dining. A pre-dinner drinks reception enables attendees to enjoy a 'private view' of the museum if they wish! Coaches will be provided to take guests to/from two local hotels: [Jury's Inn](#) and [Blunsdon](#). (Please quote DACU when booking accommodation to secure agreed rate.)



The STEAM Museum Click [here](#) for more information about this award-winning museum.

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For Information: Organisers & Key Contacts

DI'19 Event Organisers:



For Sponsor Packages & Exhibitor Stands: <https://www.cranfield.ac.uk/events/symposia/di>
NB: opportunities are open to member and non-member organisations.

Key Contacts for DI'19

Caroline Dawson, Contact for DI'19 Sponsorship packages, Symposia at Shrivenham

Steve Shepherd, TD-Info lead co-organiser for DI'19; **Phil Williams**, Managing Director, TD-Info

And looking ahead to an important international forum happening in the UK



S1000D   **council**

**S1000D User Forum 2019
& ILS Specification Day
Held in the United Kingdom
during 'Brexit' year
14 - 17 October 2019**

Institution of Engineering & Technology (IET)
London

 **ASD**
AEROSPACE INDUSTRIES ASSOCIATION Association of Europe

[Click for More Details](#)

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APPENDIX

Summary of Finalists' Submissions

Presentation of Awards – 11th April 2019

Delegates at DI'19 are encouraged to visit the finalists' stands to learn first-hand about their submissions, achievements and benefits, issues and obstacles managed and their learning outcomes.

There is a 'delegate vote' for the winner of the TD-Info 2019 Excellence Award, made via the DI'19 App. Whilst these votes are taken into consideration, the decision by the independent panel of judges is final.

Finalist A

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.

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Finalist B

Astute Class Submarines – Technical Documentation Support solution

Organisations: MOD In-Service Submarines (ISM), Submarine Production (SMP), and 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.

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Finalist C

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 its supply chain, the MOD Defence Equipment & Support (DE&S) and Navy Command, has undertaken a Fleet Minor on an operational T23 Class Frigate to demonstrate how information exploitation can empower a Royal Navy Maintainer at sea.

This was achieved by retro-fitting sensors onto key equipment and systems, Light Fidelity (Li-Fi)⁴ 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, the RN 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.

⁴ Light Fidelity (Li-Fi) is a technology for wireless communication between devices using light to transmit data and position... Li-Fi is a visible light communications system that is capable of transmitting data at high speeds over the visible light spectrum, ultraviolet and infrared radiation. [Source: [Wikipedia](#) March 2019]

For MOD staff, the DI'19 Event is likely to be eligible for your Continual Professional Development (CPD)

Finalist D

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.

For MOD staff, the DI'19 Event is likely to be eligible for your Continual Professional Development (CPD)

Finalist E

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.

For MOD staff, the DI'19 Event is likely to be eligible for your Continual Professional Development (CPD)

Finalist F

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's Bill of Materials (BoM), 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 cabin's BoM – 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 [from the TD-Info website.](#)

For MOD staff, the DI'19 Event is likely to be eligible for your Continual Professional Development (CPD)

Finalist G

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

Organisation: Qioptiq



Summary

In partnership with MOD's Defence Equipment & Support (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.

For MOD staff, the DI'19 Event is likely to be eligible for your Continual Professional Development (CPD)

Finalist H

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 no risk of data breach through radically re-thinking and re-engineering conventional data security practice.

Prizsm builds flexible, simultaneous, 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. While strong, this approach can be brittle as once the layers are pierced the data is vulnerable to attack. Prizsm was designed to solve the brittle strength of conventional data protection to deliver stronger, flexible security that maintains privacy at all times.