

# **The Journey from Managing Standards to Standardization Management**

**Mr Steven Lapsley  
UK/NATO Standardization Manager  
UK Ministry of Defence**

**International Standardization Workshop  
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# UK Defence Standardization

## Who are DStan....

- Defence Equipment & Support - Engineering Group
- UK's standardization management authority
- Develop standardization policy nationally & internationally
  - “Civil as possible military only as necessary”
- Support effective acquisition through intelligent selection & use of standards leading to increased interoperability
- Coordinate all UK NATO ratification and implementation

# UK Defence Standardization

- Change, where the journey started...
  - What we did...
    - Maintained & developed a portfolio of Defence Standards and published them in a library hosted on a web site.
  - Who we did it for...
    - SME's, standards writers & sponsors
  - How long had we done that...
    - 47 Years and then

# UK Defence Standardization

- Why we had to change...
  - DE&S Change programme
    - Identification of value delivered
    - Customer expectation

*“Our customer required support in the selection & access to **all** standards not just Defence Standards”*

- Resulting outcome
  - Outsource challenge

# UK Defence Standardization

- The challenge set
  - ‘Match fit’ for April 17
    - Develop and implement a standardization management service that enabled the ‘intelligent use of relevant & required standards’.
    - Provide a service that ‘held the customers hand’ **not** ‘marked their homework’.

# UK Defence Standardization

- Transformation, the journey travelled
  - Policy
  - Process
  - People
  - Delivery Tool
  
- Are we there yet...

# UK Defence Standardization

- Policy hook
  - Strategic Defence and Security Review 2015
    - Objective 1: Protect our People
      - Capabilities that are International by design
      - Closer working with allies & partners
    - Objective 3: Promote our Prosperity
      - Support growth in the UK's defence sector investing in skills to increase innovation and export opportunities

# UK Defence Standardization

- Policy hook
  - National Security Through Technology
    - “It advocates the **use a common set of open principles, rules and standards** wherever possible to ensure that we have the flexibility and agility to upgrade capability incrementally and ensure interoperability with our key allies”



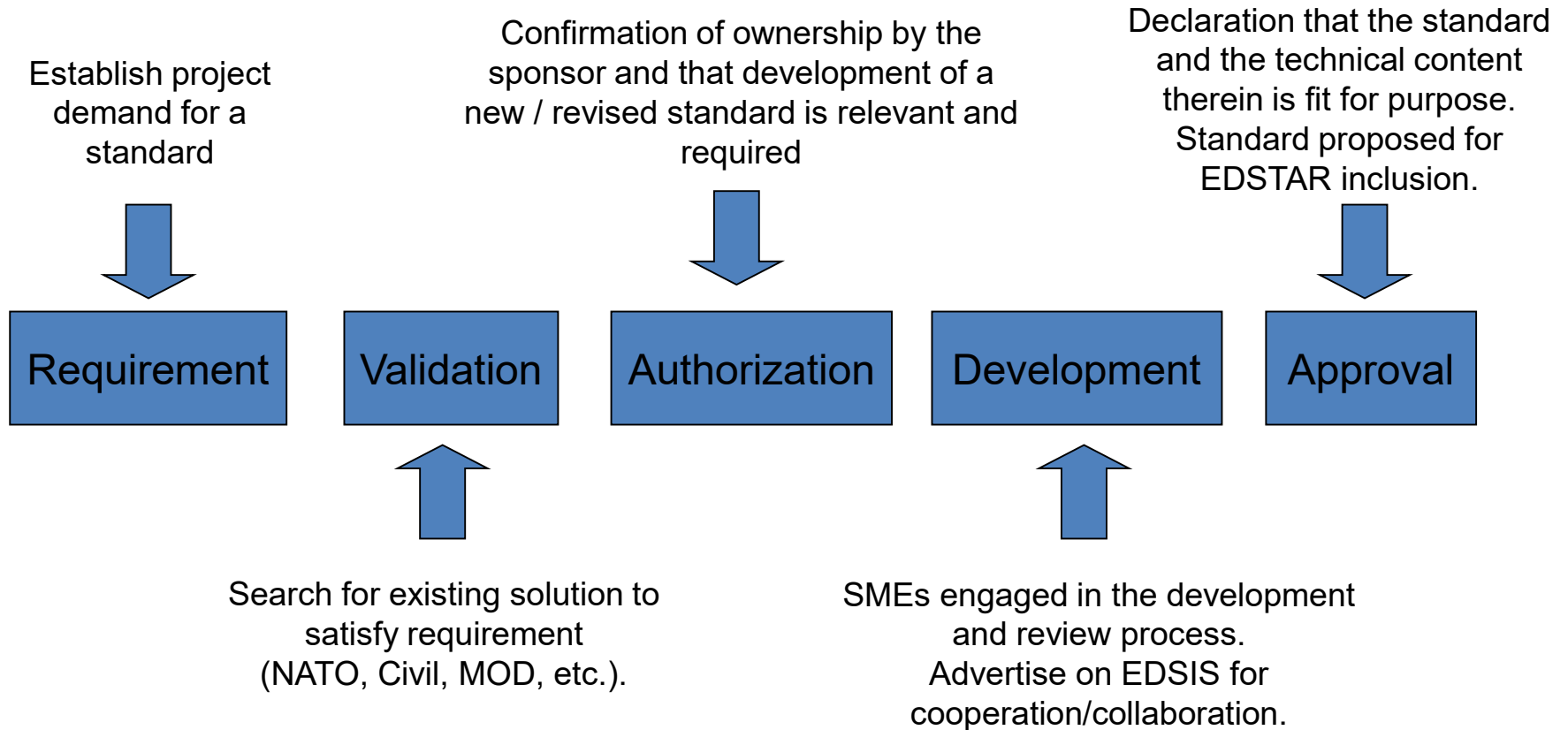
# UK Defence Standardization

- MOD Directive
  - JSP920 MOD Standardization Management Policy, Part1: Directive (Mar 2016)
    - **Civil Standards where practicable** and military standards only where necessary
    - **Implement NATO STANAGs** as enablers of increased interoperability

# UK Defence Standardization

- Processes
  - Development & publication of Defence Standards
    - Standardization Management Plans
    - Technical Assurance
    - Standards Requirement Verification
  - Ratification & implementation of NATO standards

# UK Defence Standardization



# UK Defence Standardization

- Ratification & Implementation
  - Previously there were in excess of 180 NATO Standards with no ratification decision 18 months after their due date; now we have none.
  - The average time for the UK to Ratify a NATO Standard has reduced from 250 days to 68.
  - 78.6% of all NATO materiel standards are used in DE&S Projects, this figure has increased by 22% in the last year.

# UK Defence Standardization

- Standardization Management Plan
  - The Standardization Management Plan (SMP) is the means by which a Delivery Team identifies, selects and manages the standards needed to support its project.
  - We now have >50 SMP's spanning projects in Maritime, Land and Air to a value of over £50bn.
  - SMP's are used as the baseline to provide technical assurance on the selection of standards to meet user and system requirements

# UK Defence Standardization

- F2F Training
  - Project Surgery
    - Be-spoke training offered to delivery teams focusing on our main SM processes + individual problem areas
- On-line Training... (Defence Academy)
  - Standardization Management
    - Awareness
    - Supervised Practitioner
    - Practitioner
    - National Representative's attending NATO

# UK Defence Standardization

- People
  - Confidence, skills & experience
    - Operational Dataset
      - An ODS is a maintained list of standards within StanMIS which projects may consider during selection.
        - » Generic Overarching
        - » Avionics

# UK Defence Standardization

- Standardization Management websites
  - Extranet site @ <https://www.dstan.mod.uk>
    - Hosted on Defence Gateway – access via secure login
  - Intranet site @ <http://dstan.uwh.diif.r.mil.uk/>
    - Hosted on Defence Intranet
  - Index of standards
    - Defence Standards, NATO STANAGs and AP's
    - Access Civil Standards
  - StanMIS toolset



# UK Defence Standardization



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**DEVELOP, FACILITATE  
AND COMMUNICATE**



[TOOLSET](#)

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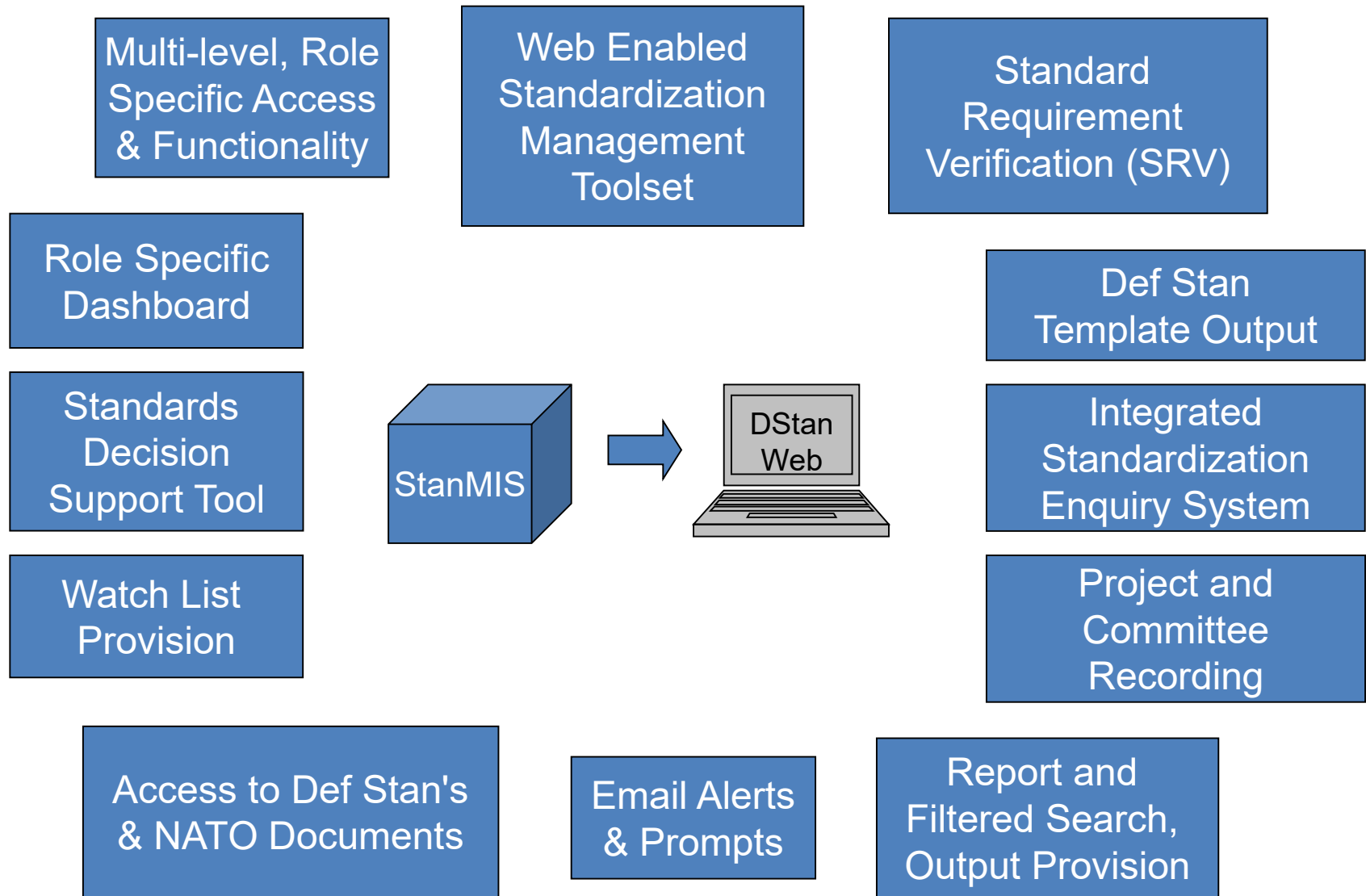
[HELPDESK](#)

# UK Defence Standardization

## StanMIS

- Standards Management Information System (StanMIS)
- Platform which hosts the SMP, DST, SRV, ODS, Watchlists, and is the configuration control tool for all Defence Standards
- StanMIS also provides access to STANAGs, Allied Publications and NATO Ratification Information
- It also provides links to EDSTAR, EDSIS and Civil Standards

# Standardization Management Information System (StanMIS)



# UK Defence Standardization

StanMIS - Welcome

mou.isg-r.r.mil.uk/StanMIS

Settings DE&S Home NSO Eng & Ass Plan StanMIS easyJet Schedule Santander MTM Metrics HRG DT HRG I-Suite Def Gateway BBC News MS Glasgow Visitors Booking GA Parking DStan Intranet e-Solutions

StanMIS Home Enquiries Standards Toolset Reports Indexes Administration Feedback Steven

## Welcome Steven!

Feedback StanMIS Overview Training ?

### News

#### MOD Access to Civilian Standards

DStan is delighted to announce the commencement of a new service on the 24th September 2018 for the supply of British, European and International standards to the Ministry of Defence. • All British Standards (BS) • All BSI adopted European Standards (BS EN) • All BSI adopted International Standards (BS ISO or BS IEC) We have additionally agreed... [Read more](#)

#### NATO Standards on StanMIS

Please note that due to an upgrade of the NATO Standardization Document Database (NSDD), newly published NATO documents will not be automatically replicated within StanMIS. Early indications are that this work may take several weeks. Anyone requiring a NATO document not available on StanMIS should email the DStan helpdesk at [enquires@dstan.mod.uk](mailto:enquires@dstan.mod.uk) We apologies for any inconvenience and will advise when the issue has been resolved.

### My SRV Requests ?

Reference	Request Title	Current State
00057/2015	NATO SP - for Safety Requirements for Active and Passive Hazard Mitigation Devices (HMD) Employed to Address Fast/Slow Heating threats to Munitions	Section 1: Review and Revision <a href="#">Details</a>

Showing all 1 records

<< < 1 > >>

### My Ratification Tasks ?

STANAG	DStan Response Due	NATO Response Due
There are no records to show.		

<< < 1 > >>

### Portfolio Health ?

- Blue (None)
- Green (None)
- Amber (None)

### My Saved / Watch Lists ?

# UK Defence Standardization

- The key principles for the use and selection of Standards are
  - Use Civil Standards wherever practicable & military standards only where necessary
  - Implement NATO Standards as enablers of increased interoperability

# UK Defence Standardization

## Decision Support Tool

- This tool can aid the project team in selecting appropriate Defence Standards, STANAGS and Allied Publications to support their project
- Using the DST you can link Extant Defence Standards and Promulgated and UK Ratified STANAGs and Allied Publications to the SMP
- The DST uses a series of Tags which have been allocated to all extant defence Standards and STANAG's
- There is also the facility to search by key words and combinations of words and Tags

# UK Defence Standardization

Decision Support Tool ? View My Lists + Create New List DST Training ?

Active List ^

Select List  ?

Filter Records ? ^

Operator  Or  And

Tags

Keyword Search

Filter Reset

Index	Type	Reference	Title	Status	Classification	Issue Date	Matched Tags	<span>Save All to List</span>
1	STANAG	5010 Edition 4 Version 1	IFF MARK 10 - MINIMUM SCALE OF FITTING IN NAVAL SHIPS AND MARITIME AIRCRAFT OF NATO FORCES	PROMULGATED	NATO RESTRICTED		Design, Sensors	<span>Details</span> <span></span>

# UK Defence Standardization

Category	Description	
Comply Or Explain Why	Explanation required to justify not including in contract.	<input checked="" type="checkbox"/>
Armour	Armour Plate, Body Armour (including Personal Protection Equipment).	<input type="checkbox"/>
Chains Ropes Wires	Restraining and Load Bearing Devices such as Chains, Ropes, Hawasers, Lifting Strops, Lifting Straps, Anchor Chains, Wire Ropes and Arrestor Wires.	<input type="checkbox"/>
Coatings	Surface Finishes and Protective Films such as Paints, Tiles (Anechoic), Radar Absorbent Sheeting, Infra Red Treatment, Radar Absorbent Materials, Claddings, Fairings and Sealing Compounds.	<input type="checkbox"/>
Communications	All Communications Devices such as Radios, Masts, Digital Data and Protocols, and Combat Systems.	<input type="checkbox"/>
Design	Design requirements to be considered at the design phase of a project for inclusion in a platform.	<input type="checkbox"/>
Documentation	Standards, Publications and Supporting Documents.	<input type="checkbox"/>
Electrical & Electronic	Electromagnetic Environmental Effects, Cables and Power Supplies (including Fuel Cells and Batteries).	<input type="checkbox"/>
Explosives	Explosives Materials, Ingredients and Initiators.	<input type="checkbox"/>
Fuel	Aviation Fuels (including Additives), Diesel and Petroleum.	<input type="checkbox"/>
Gases	Gases (including Breathing Gases), Transportation and Handling.	<input type="checkbox"/>
Hoses	Hoses.	<input type="checkbox"/>
Husbandry	Soft Furnishings, Bedding, Décor, Panelling and Cleanliness.	<input type="checkbox"/>
Lubricants	Oils, Greases and other Lubricants.	<input type="checkbox"/>
Maintenance	Maintenance Procedures, Overhaul and Repairs.	<input type="checkbox"/>
Marking	Markings of Equipment, Munitions, Packaging, Platforms, Tally and Marker Plates.	<input type="checkbox"/>
Materiels	Any item purchased as unit such as Gas Turbine, Generator, Metals, Plastics, Wood, Composites, Textiles, Chemicals and Powders.	<input type="checkbox"/>
Munitions	Ammunition, Charges, Pyrotechnics, Counter Measures and Weapons Systems.	<input type="checkbox"/>
Packaging	Containers and Boxes (including Packaging Materials).	<input type="checkbox"/>
Preparation	Cleaning Materials, Metal Preparation Solutions and Solvents.	<input type="checkbox"/>
Sensors	Radar, Sonar and Monitors.	<input type="checkbox"/>
Survivability & Safety	Survivability Equipment such as Liferafts, Helmets, Parachutes, Chemical Biological Radiation Nuclear (CBRN) Protection and other Personal Protection Equipment.	<input type="checkbox"/>
Testing	Test Equipment, Test Methods and Sampling Procedures.	<input type="checkbox"/>
Vehicle	Armoured, Logistic and Specialist Land Vehicles.	<input type="checkbox"/>
Welding	Procedures, Rods, Thermal Cutting and Personnel Competence.	<input type="checkbox"/>
		<input type="button" value="submit"/>



# UK Defence Standardization

## Standardization Management Plan


- Is used to record and manage standards used in a project
- Is used to record standards configuration information such as tailoring, trading and removal
- Can be used to provide baseline information on standards linked to project milestones
- Can provide reports comparing different milestone information relating to standards
- Can be the single source of information on standards relating to your project

# UK Defence Standardization

## Standardization Management Plans

 SMP Training 

Filter Records 

 Name	Category	Phase	Operating Centre	<a href="#">+ Create</a>
Air Support to Defence Operational Training (ASDOT)	A	Concept	Combat Air	<a href="#">Details</a>
Brimstone Capability Sustainment Programme/Capability Upgrade Programme	A	Concept	Weapons	<a href="#">Details</a>
CANABA	A	Concept	Land Equipment	<a href="#">Details</a>
Chinook Sustain	A	Concept	Helicopters	<a href="#">Details</a>
Deployable Technical Infrastructure	B	Concept	Land Equipment	<a href="#">Details</a>

# UK Defence Standardization

**Actions** ?

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Save

Import Operational Data Set

Import Decision Support Tool

Export SMP Report

**Sections** ?

- ✔ Project Details
- ✔ DStan Contacts
- ✔ Project Team
- ✔ Stakeholders
- ✔ SRV Requests
- ✔ Planning Information & LFE
- ✔ Initial Review Point

**IG** ?

- EDSTAR Standards
- ▶ NATO - STANAGs
- NATO - Allied Publications
- Civil / BS / BSEN / BSISO

**STANAGs**

Indicate the STANAGs against which this project should commit to as part of its standardization baseline through life.

Number	Edition	Part	Version	Title	Status	Association	Linked From	
1183	5			NATO QUALIFICATIONS FOR FIXED WING ABOVE WATER WARFARE (AWW)/AIR DEFENCE (AD) AIRCRAFT CONTROLLERS	SUPERSEDED	Assessed	Unknown	<a href="#" style="background-color: #4CAF50; color: white; padding: 2px;">Link</a> <a href="#" style="background-color: #9c27b0; color: white; padding: 2px;">Details</a> <a href="#" style="background-color: #ff9800; color: white; padding: 2px;">Unlink</a> <a href="#" style="background-color: #4CAF50; color: white; padding: 2px;">Review</a>
1379	2			NATO RADHAZ WARNING SIGN - AECIP-03 EDITION A	PROMULGATED	Assessed	Manual Entry	<a href="#" style="background-color: #9c27b0; color: white; padding: 2px;">Details</a> <a href="#" style="background-color: #ff9800; color: white; padding: 2px;">Unlink</a> <a href="#" style="background-color: #4CAF50; color: white; padding: 2px;">Review</a> 
1380	5			NATO NAVAL RADIO AND RADAR RADIATION HAZARDS MANUAL - AECIP-02 EDITION D	PROMULGATED	Assessed	Manual Entry	<a href="#" style="background-color: #9c27b0; color: white; padding: 2px;">Details</a> <a href="#" style="background-color: #ff9800; color: white; padding: 2px;">Unlink</a> <a href="#" style="background-color: #4CAF50; color: white; padding: 2px;">Review</a> 
2345	4			MILITARY WORKPLACES-	PROMULGATED	Assessed	Manual Entry	<a href="#" style="background-color: #9c27b0; color: white; padding: 2px;">Details</a> <a href="#" style="background-color: #ff9800; color: white; padding: 2px;">Unlink</a>

# UK Defence Standardization

- Active SMP's
  - 52 projects with active SMP's which include
    - Air – C130J & MODE 5 IFF
    - Helicopters – Chinook Sustain
    - Submarines – Successor
    - Ships – Queen Elizabeth Class Aircraft Carriers
    - Land – Multi Role Vehicle Protected Package 1
    - Weapons – Brimstone

# UK Defence Standardization

*“StanMIS is a very intuitive application to use. After an hours training I was able to create and populate a Standardization Management Plan.*

*I especially like the automatic reporting when standards are updated, it has significantly reduced the amount of time I have to review and update my standards list”*

DE&S Mine Countermeasures & Hydrographic Capability  
Project Manager

# UK Defence Standardization

## Access to Standards

- Historically
  - Framework Agreement for:
    - Access to British Standards (Enterprise Licence)
    - Demand Orders covering multiple Custom Collections of Standards (site specific)

# UK Defence Standardization

## Access to Standards

- What changed...
  - No longer use the existing Framework Agreement we contract directly with BSI
  - We have made a significant investment to fund MOD access to all BSI and BSI adopted standards (BS, BS EN, BS EN ISO, BS ISO) plus an additional investment to fund access to up to 100 non-adopted ISO standards
  - We no longer fund other documents not included above
  - Users who require other standards now require to fund their own access through a separate Framework Agreement.

# UK Defence Standardization

## Access to Standards

- Why Did it Change...
  - Investment in non-BSI adopted standards did not demonstrate sufficient return on investment
  - 37% of total cost covering only 12% of standards downloads
  - Some standards costing 10x more than BS standards per download
  - Decision taken based on analysis to compete contract and achieve better VfM



# UK Defence Standardization

The screenshot shows the BSOL Standards Online website. At the top, the browser address bar displays 'https://bsol.bsigroup.com/'. The website header includes the 'bsi. BSOL Standards Online' logo on the left and 'Contact us +44 345 086 9001' on the right. A user greeting 'Welcome Steven Lapsley' is followed by a 'Logout' button. A navigation menu contains 'Home', 'My Account', 'Browse for Standards', 'My Email Alerts', 'My Favourites', and 'Help and FAQs'. A search bar on the right contains the text 'E.g. BS 123 or valves' and an 'Advanced Search' button. The main content area is divided into two columns. The left column features a 'My Subscription' section with details for 'Modular Subscription' (54 modules) and 'ISO Custom Collection 100' (7 of 100 documents selected). Below this are links for 'About Standards', 'Free Training', 'Standards Help: BSI Knowledge Centre', and 'FAQs'. The right column has a section titled 'Have you visited the Standards Development Portal?' with a brief description and a list of bullet points: 'Browse and track standards in development of interest to you and your organization.', 'Discover and comment on proposed and draft standards.', 'Find out information about BSI committees such as their membership and standards they are working on.', and 'Suggest ideas for new standards work.' Below this is a 'Free BSOL Training' section, which states that all subscribers are entitled to free training in various formats (remote, webinars, or face-to-face) and provides a breakdown of the training sessions. At the bottom of the main content area, there are four red buttons: 'View BSI Standards', 'View ASTM Standards', 'View ISO Standards', and 'View IEC Standards'. The footer contains copyright information for 'The British Standards Institution 2018' and links to 'Privacy notice', 'Cookie Policy', 'Accessibility', 'Terms and conditions', 'Intellectual Property', and 'Sitemap'. The Windows taskbar at the bottom shows the system tray with the date '26/09/2018' and time '11:40', along with icons for various applications like Internet Explorer, Outlook, and Word.

# UK Defence Standardization

## Are we there yet...

- Policy
  - Update JSP 920 to ensure project compliance
- Process
  - Reduce our response time for NATO Ratification
  - Increase our Implementation of NATO Standards
- People
  - Improve our A&G, training to meet customer expectation
- Delivery Toolsets
  - NATO Dashboard
  - Increase our portfolio of SMP's

# UK Defence Standardization

- DStan Internet site
  - <https://www.dstan.mod.uk>
- StanMIS External
  - <http://dstan.mod.uk/stanmis>
- Twitter
  - @defstan
- Steven Lapsley
  - Email: [steven.lapsley141@mod.gov.uk](mailto:steven.lapsley141@mod.gov.uk)
  - Tel: 94561 2676

# *Questions*