

Services for the defence industry



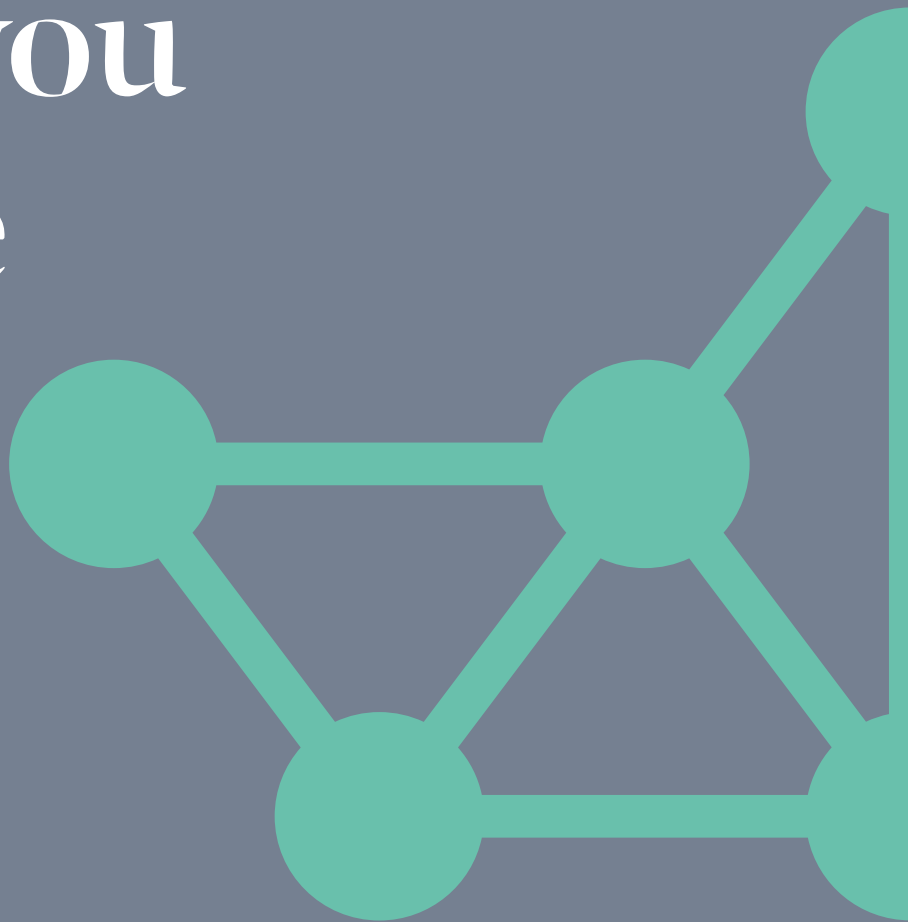
Enabling your data
to inform faster,
work harder,
stay safer.

Giving you
the edge

To find out more about
any of our services,
contact our Sales team:

e. contact@mass.co.uk

t. +44 (0)1480 222600



Your trusted defence partner

At MASS we develop technology, services and training that leverage the power of your data, while keeping your platforms and systems secure.

MASS is an independent, global technology company, trusted by highly-secure organisations to provide advanced, digital services that manage data and keep information safe.

With our heritage in defence, we offer robust solutions to sectors where security expertise is essential.

We work in partnership with customers, using skilled, technical experts.

We think innovatively to provide tailored, agile and resilient solutions that secure advantage, so you're ready for digital transformation.

Many of our employees have a defence background bringing specific skills and expertise with them, and we're a proud holder of a Defence Employer Recognition Scheme Silver Award and a signatory of the Armed Forces Covenant.



CEMA and EW Operational Support

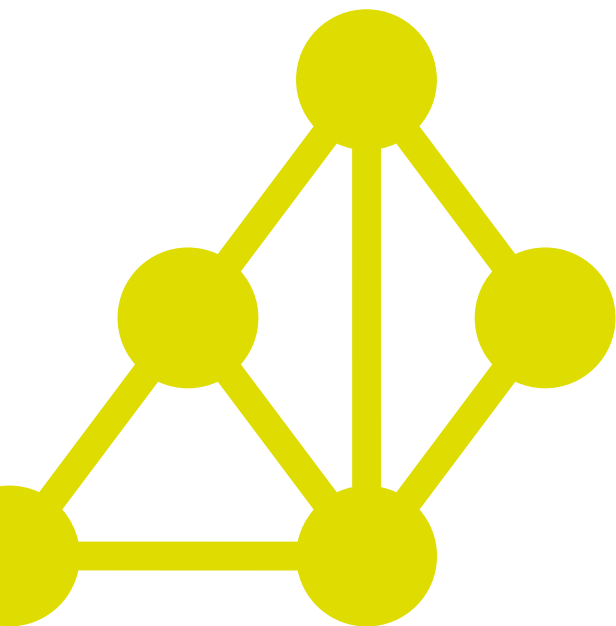
Enhance your operational effectiveness across all domains with our trusted CEMA and EW Operational Support tools, services and training.

Our CEMA and EW services cover the full intelligence lifecycle: signal collection, analysis and planning, data management, mission data production, synthetic test and evaluation, countermeasures development and threat vulnerability assessments.

Our specialist engineers, scientists and ex-military personnel combine their experiences, including lessons learned in recent conflicts, to help you achieve the true operational potential of your CEMA or EW capability. Our independence from CEMA and EW equipment means you'll get impartial, expert advice and support.

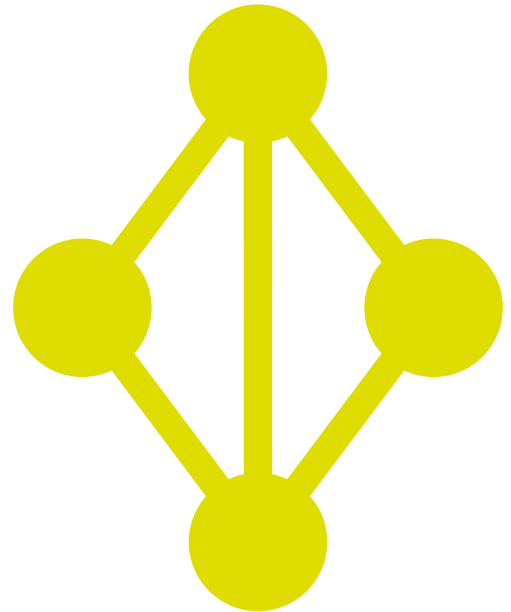
Modelling and Simulation

In complex and contested electromagnetic environments, MASS helps defence organisations understand, test and adapt before operational advantage is put at risk. Combining CEMA and EW expertise, operational analysis and advanced modelling and simulation, we enable customers to explore scenarios, evaluate threats and develop effective responses in a safe, representative and repeatable way. Our tailored solutions support better decisions, quicker learning and better mission readiness across multi-domain operations.



Synthetic test and evaluation

Built on a System of Systems (SoS) approach, our synthetic test and evaluation underpins capability development and assurance at pace and scale, enabling modern war fighters to truly understand multi-domain performance within a complex Electromagnetic Environment (EME). It provides the freedom to test what is required without the usual limitations, running thousands of scenario variations for a fraction of the cost of a single live trial while safely modelling high-risk kinetic engagements and complex 'what-if' scenarios that cannot be replicated physically. We go beyond system modelling to recreate operationally relevant, multi-domain environments, incorporating realistic weather, terrain, urban complexity, and the electromagnetic conditions that shape mission success.



Countermeasures development

Our Countermeasures team brings experts in physics, maths and defence together to provide a world-class countermeasures design, development and testing service. As the only team to deliver this service for UKMOD, we offer an unparalleled service that you can trust.

The team uses MASS' advanced suite of tools, CounterWorX, to move through the full Threat Vulnerability Analysis and Countermeasure Development (TVACD) lifecycle. It allows the user to virtually model dangerous and complex scenarios to optimise survivability from lethal engagements when learnings are deployed in the field. The software reduces the number of points before live testing, significantly decrease costs by limiting time on the range, and mitigate safety risks.



CEMA and EW training

Preparing you for the known and educating for the unknown is simply what we do. As experienced industry leaders in CEMA and EW training we offer a broad prospectus, from foundation training to full operational readiness. We blend theoretical and practical learning, using a mix of sophisticated modelling and simulation tools in operationally-focused scenarios.



Underpinned by our SESCO® methodology, our training provides a richer, immersive experience that not only exposes you to the realities of a multi-threat environment but also empowers you to thrive in it.

We tailor our approach to your needs and can provide a full range of learning experiences:

- Bespoke or off the shelf face-to-face training at our state-of-the-art CEMA academy in Lincoln, UK.
- Bespoke or off the shelf face-to-face training at a location of your choice.
- Online self-paced learning via our virtual learning environment.

You can also choose to embark on a hybrid knowledge transfer programme utilising all three.



To find out more about our unique **software, services and training** contact our Sales team at contact@mass.co.uk.

SESCO® ENABLES YOU TO:

- Simulate the EMS (with no RF footprint)
- Emulate the realities of the multi-threat environment (with no RF footprint)
- Stimulate your equipment (with no RF footprint)
- Calibrate your equipment and channels
- Be ready to operate



MASS specialist software toolsets

Our advanced software toolsets are used by the UK and nations around the world to achieve information dominance and operational advantage. Built by our in-house experts, they can be tailored to your needs and can be fully supported.

DATA MANAGEMENT

THURBON and THURBON CEMA provide essential operational support and enhanced situational awareness, supporting a common approach across different environments. Through THURBON and THURBON CEMA you have the capability to manage, process and store complex CEMA or EW data in a single hub, supporting your intercept analysis, EOB production and mission preparation.



MISSION PLANNING

BATTLEYE can accurately access and test communication between assets anywhere in the world. Providing enhanced situational awareness and planning capability, BATTLEYE provides unique insight and understanding into the communications environment.



EW TRAINING

Designed by our EW & CEMA experts, NEWTS & NEWTS IQ, enables you to not only train with your equipment but also to train your operational environment.

The MASS Training team provides skills-based EW training courses that improve the effectiveness of your personnel. Delivered by highly experienced trainers, the team can provide off the shelf or bespoke courses.



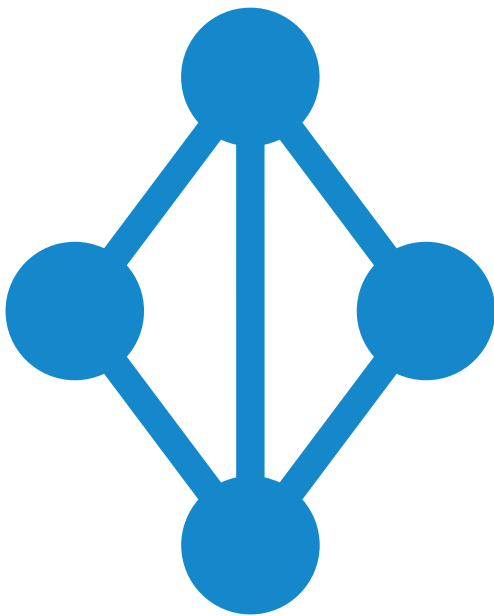
COUNTERMEASURES DEVELOPMENT

CounterWorX is a toolset that simplifies countermeasure development. The threat system analysis, modelling and simulation included provide unprecedented technical capability for countermeasure development and engagement simulation.



Training and exercise support

Our bespoke end-to-end training service is independent, secure and focused on the outcomes you want.



Contact our Sales team at

contact@mass.co.uk
to find out how we can support your **training needs**.

Our teams work alongside the UK MOD, NATO, overseas military clients and industry in developing, preparing and delivering tailored training solutions.

With our proven track record in providing training support we can:

- Design and deliver a bespoke training package to meet your needs.
- Deliver on-site training and mentoring direct to your staff or to your in-house instructors following initial training delivery.
- Maintain and update the training material following the initial course delivery.



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Capability development and contingency rehearsal collective training exercises

We're trusted by both military and civilian organisations to deliver support to collective training exercises, particularly at higher levels of command. The exercises are tailored to achieve the customer's specific training requirements across the full spectrum of activity, from capability development, validation and assurance through to mission and contingency rehearsal.

Our range of services include design, planning, preparation, organisation and delivery of highly effective training events plus an assessment of key lessons learnt.



TECHNICAL SUPPORT

We offer state-of-the-art technical support, including advanced exercise planning and management tool and simulation system, as well as the use of subject matter experts and role players.

WORKING TOGETHER

We engage closely with you throughout the exercise planning and delivery phases, which enables us to understand your background and requirements and ensure that, by working together, the exercise is designed and executed to optimise its effectiveness for your organisation.

TRAINING EVENTS

We design and deliver training events to optimise the performance of organisations ranging in size from 15 to 500+, enabling them to improve data management, information sharing, team work, decision-making and task execution.

Strategic decision-making exercises

For over 10 years we have designed and facilitated strategic games and exercises for personnel stepping into senior decision-making roles in high-profile organisations. Our academic staff and highly experienced operators are experts in the design, preparation and delivery of strategic-level training events.

STRATEGIC-LEVEL TRAINING

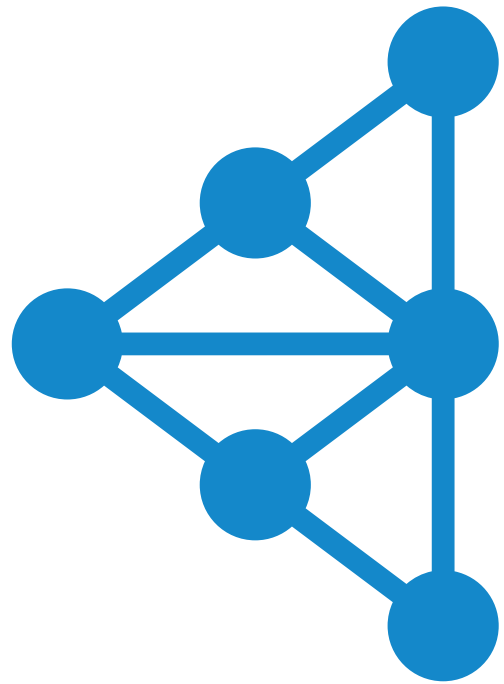
We offer high-quality, bespoke training courses that can cover:

- strategic awareness
- strategic crisis management
- strategic crisis media response
- strategic and policy-level decision-making exercises and games.

STRATEGIC-LEVEL ANALYSIS

Our team of experts also undertake wider strategic-level analysis and research and can provide a range of tailored support services including:

- specialist briefings
- support to seminars
- workshops and analytical projects
- research and analysis of strategic issues.



EXPERT TEAM

Our internal expertise is reinforced by a team of several hundred associates and subject matter experts able to meet a wide range of customer requirements.

We leverage the knowledge and experience of former diplomats, MOD senior specialists, UN, NATO and EU aides and officials, academics, international associates and financial analysts.



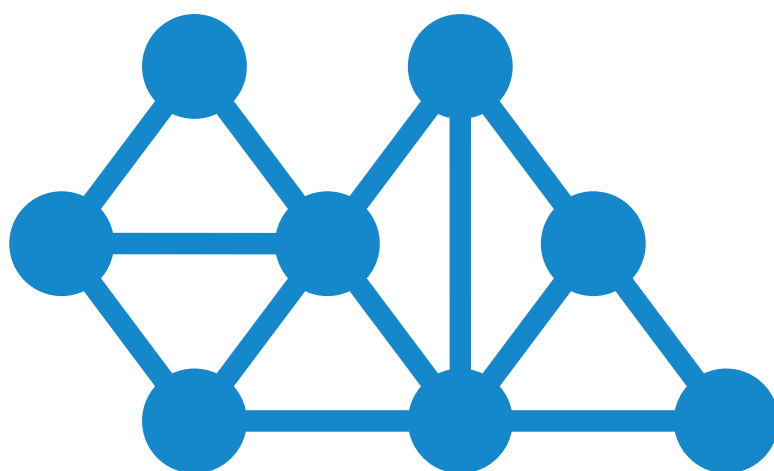
Lessons Learned Support Service

When running a large-scale operation, capturing and analysing lessons is essential to improve future performance. But without the right team, tools and processes in place, you're unlikely to be getting what you need.

Our experienced Lessons Learned Support team works alongside your team to capture and analyse lessons in real-time, allowing you to focus where it's needed most.

We offer a unique, fully scalable and tailored lessons package based on your needs, which provides:

- A capability to guarantee that lessons are not just identified but are acted upon, ensuring future improvement and enabling enhanced effectiveness with a positive impact on costs and resources.
- An ability, through enhanced Information/Knowledge Management, to collect, capture, manage, and facilitate the resolution of relevant observations and lessons identified to highlight 'best practice' and to resolve process issues to prevent future recurrence.
- Accountability and reputational risk mitigation.
- Development of agreed metrics to monitor performance.



Strategic analysis and education

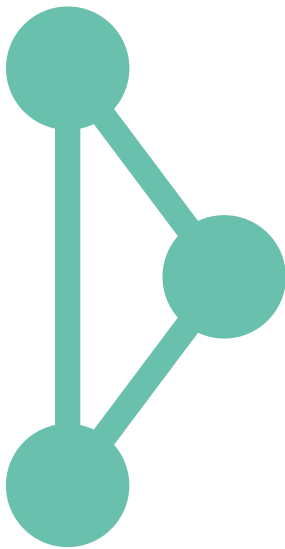
Most organisations need to anticipate and react to changing environments. To do this effectively, your staff must understand the broader, strategic view and how they make the right decisions within it.

We provide analysis of the future global environment and global strategy trends tailored precisely to our customers' demands and vision. Our approach is unique and reflects a culture of continued improvement. We provide a snapshot of the current and emerging global strategic environment and explore areas that are specific to our customers.

We examine the over-arching factors that have enduring effects including global governance, economics, conflict and security, culture and society, natural resources, technology and innovation.

Digital services for secure environments

As experts in secure technology, governments and defence organisations rely on us to provide digital services for critical programmes.



If you're looking for **digital services** or **training** you can trust, contact our Sales team on contact@mass.co.uk.

With decades of experience in highly secure environments, we design, build and implement digital services and training that meets the most complex of needs, no matter the industry or sector. As an independent company, you can trust we'll only ever give you impartial support.

Our digital services are centred on four main areas – cyber security, data, software development and ICT service management – and we also design and build bespoke solutions.

Software development

We design software that's secure, user-centred and fulfils your needs. Our Software Development team has a diverse range of specialists; from Technical Architecture and User Experience to Software Testing and Programming, ensuring you get the right skills at the right level every time. All of the team have experience working with waterfall, incremental, agile, and prototyping approaches.

Our developers are surrounded by subject matter experts in Electronic Warfare, Radar, EOIR, Weapon Systems and cyber security which means they have a depth of experience working with complex mathematics and physics in modelling and simulation software.



Secure IT Managed Services

DEPLOYABLE ENVIRONMENT NODE

At MASS, we understand that simplicity and speed of access are key to optimal remote deployment. It's why we've designed a digital solution that allows you to create a secure collaboration environment anywhere in the world. Although our deployable solution is modular and mobile, it's still just as secure and resilient, so you can rely on it wherever you are.

CONNECTIVITY AS A SERVICE

Keeping you and your teams connected securely wherever they are, is simply what we do. Our solutions are tailored to your needs as an organisation allowing you to be flexible and smarter in your operations whilst maintaining security.

Our offering includes features such as but no limited to – International Network Connectivity, Email Gateways, DLP solutions and DMZ file shares.



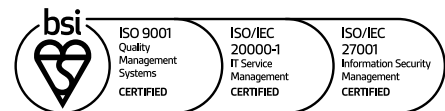
For more information on our expert ICT services and software development, contact our Sales team on contact@mass.co.uk

SECURE COLLABORATION ENVIRONMENT

Our secure digital environments, including a full suite of digital collaboration tools, enables you to create, share, process and interpret data securely, quickly and effectively. By unlocking the power of modern technology and leveraging over 40 years of delivering secure services into the defence industry, we'll provide you with a highly secure environment that enables your teams connect better, access relevant data safely while preserving the fidelity of your systems.

We're ISO 20000 accredited, and we're experienced in delivering Secure by Design solutions so you know our systems, processes and solutions are the highest standard. And all our people are security cleared, so you can be assured we can support the highest of classifications.

From simple file sharing to multi-organisation project workspaces, from application hosting to enabling Data Driven Decision Making, we don't just set you up to operate, we equip you to succeed.



techUK
FOR WHAT COMES NEXT

Data services

Our team of experienced analysts work with you and your teams, to harness the true value of your data. We employ modern data handling techniques that will enable your data work harder, inform faster and stay safer, giving you the edge.

DATA STRUCTURE OPTIMISATION

At the core of our offering is optimising the structure of your data so that it can be accessed quicker and safer. By doing this, we'll ensure your teams will have easy access to relevant data when they need it, allowing them to work smarter.



CONSOLIDATED DATA VISUALISATION

At MASS, we understand that your organisation isn't harnessing the true value of your data if it isn't directly driving your strategic goals and decisions. By employing modern data handling tools such as Power Apps, to create comprehensive dashboards and produce infographics, we'll empower you and your teams to strategic decisions that are backed up by hard data.

We help you achieve this by working collaboratively with you within your digital environment and/or depending on your requirements, we can also do this in other classified and secure environments.

BUSINESS PROCESS OPTIMISATION CREATION AND AUTOMATION (DIGITAL TRANSFORMATION)

Our expertise delivering advanced and highly secure digital solutions, makes us your ideal, trusted digital transformation partner. We work with organisations to transform their operations without significantly increasing costs.

Our success working with large public-sector organisations and government departments such as the NHS and the UK MOD, means our customers know we have the expertise to help them navigate their journey to digital transformation and optimisation.

ENHANCED DATA COLLECTION

In today's fast evolving environment due to new and modern technology, everything can be better, especially how you generate, gather data and process data. As part of our collaborative work with you, we'll show you where and how you can improve the quality and quantity of data you generate using Machine Learning and AI technology.



For more information on our expert **data services** contact our Sales team on contact@mass.co.uk

Trusted to deliver

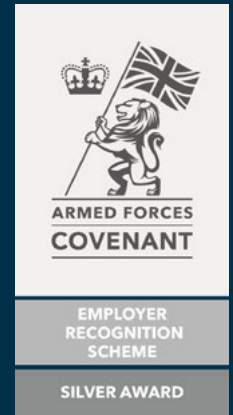
MASS is trusted by the UK and nations around the world to deliver tools, services and training that give you the edge.

Tailored solutions

We take a partnership approach and our solutions are always tailored to your needs.

Highly skilled experts

Our people are experts at what they do. Highly technical, endlessly curious and always approachable.



CYBER ESSENTIALS & CYBER ESSENTIALS PLUS ACCREDITATION



To find out more about
any of our services,
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