

Synthetic Testing and Evaluation

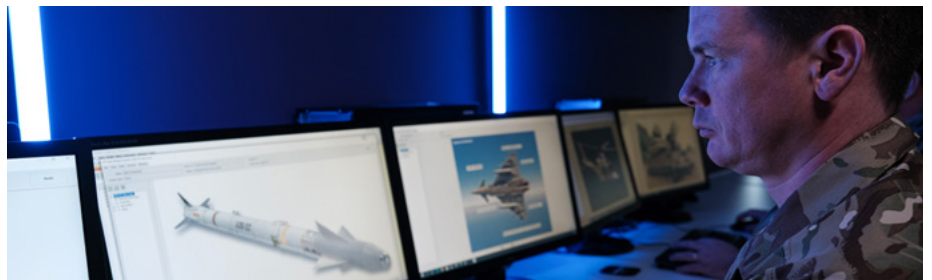
CONTACT US

Speak to our
Sales team now

T: +44 (0)1480 222600

E: contact@mass.co.uk

A high-fidelity, data-driven capability that helps systems prove their performance long before they reach the field. Built around a System of Systems (SoS) approach, our synthetic test and evaluation capability supports development, assurance, and decision-making at warfighting pace and scale, enabling commanders to better understand multi-domain performance within a complex EME.



WHAT IS SYNTHETIC TESTING AND EVALUATION?

Traditional testing and evaluation is costly, resource-intensive and limited. Synthetic testing breaks down these barriers and allows you to recreate operationally relevant, multi-domain environments, incorporating realistic weather, terrain, urban complexity, and the electromagnetic conditions that shape modern battlespaces. This capability allows you to:

Test securely at the highest classification

Evaluate new and existing capabilities without emitting RF signals, helping you remain undetected by hostile actors while reducing the risk of compromise.

Cost effective testing at scale

Execute thousands of scenario variations for a fraction of the cost and time of a single live-fire trial.

Risk free stress testing

Safely model extreme kinetic engagements and “what-if” scenarios that are physically impossible to replicate.

Objective capability assurance

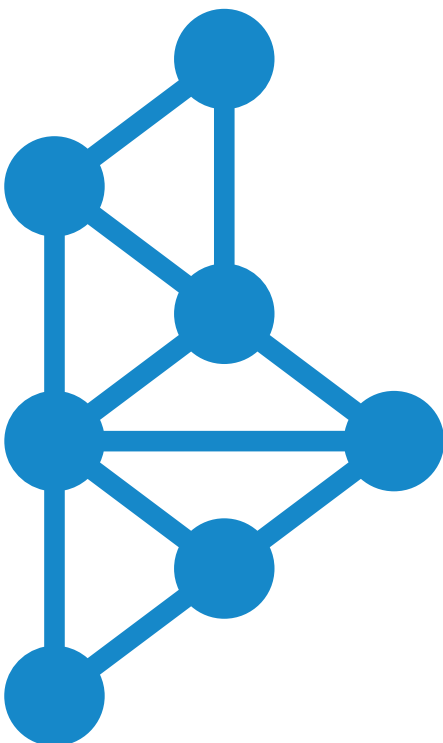
Leverage strict vendor independence and alignment with ISO and MOD standards for unbiased performance validation.

Significant lifecycle ROI

Deliver superior value for money by uncovering critical insights early, avoiding expensive late-stage failures and redesigns.

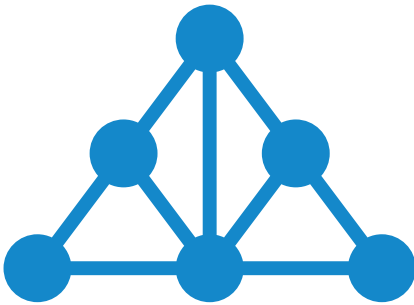
Operational multi-domain realism

Capture the “connective tissue” of modern warfare, including complex EW effects, sensor fusion, and data links.



PROFILE

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 now 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.



TRUSTED TO DELIVER

MASS is trusted by the UK and nations around the world to deliver EW tools, services and training.

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.

WHY MASS?

MASS, the global technology company, has built its reputation through decades working with defence, government and business sectors, offering highly intelligent and secure digital services. From enhancing businesses operational performance through data insight to protecting systems and data, MASS provides expert support, services and training to achieve operational effectiveness.

MASS SPECIALIST SOFTWARE TOOLSETS

We provide advanced EW technology, services and training that enables you achieve spectrum dominance. Our independence from EW product manufacturers means we provide truly impartial support and advice and our decades of experience in defence means we find the right solution for you.

EW & CEMA data management system

Our data management system – **THURBON & THURBON CEMA** provides essential operational support and enhanced situational awareness, supporting a common approach across different environments. Through this system, you'll be able to accurately visualize the spectrum and achieve information dominance. You'll have the capability to manage, process and store complex platforms, sensors and weapon system data in a single hub, supporting your intercept analysis, EOB production and mission preparation.

Mission planning

BATTLEYE supports spectrum warfare mission planning. By way of dynamic propagation and terrain modelling it enables effective communication between deployed military personnel. Providing enhanced situational awareness and planning capability, BATTLEYE provides unique insight and understanding into the communications environment.

Countermeasures development

CounterWorx is a suite of toolsets that simplifies countermeasure development. The threat system analysis, modelling and simulation included provide unprecedented technical capability for countermeasure development and engagement simulation.

mass.co.uk

contact@mass.co.uk

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