

The route to operational independence in **Electronic Warfare**

mass

a Cohort plc company



MASS is an independent UK Systems House with a strong Defence & Aerospace market focus, offering specialist skills in the following:

- **Electronic Warfare**
- **Managed IT Services**
- **Communications & Electronics**
- **Information Assurance**

Platform Protection Countermeasures

We have a proven capability in sophisticated countermeasure development. Our experts have unique experience gained over many years supporting national and international programmes. Using a balance of operational and technical expertise we assist customers in developing their own capability throughout the whole countermeasure development cycle. Our aim is to teach our customers proven practises and procedures and to transfer knowledge and skills so that operational independence in countermeasures development can be achieved.



Proven Processes for Knowledge Transfer

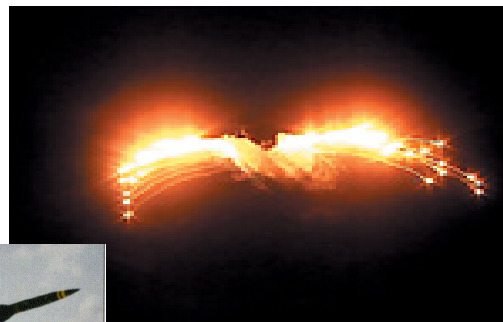
At MASS we have developed unique processes that provide customers with a structured method for taking a platform protection requirement through to countermeasure tactic design, implementation, testing and operational deployment.

Countermeasure tactics comprise an ordered arrangement of active ECM, expendables and manoeuvre covering both RF and IR guided weapon systems.

Our process uses a balanced approach of computer simulation, hardware-in-the-loop testing and field trials so that users can gain the best value for money from available resources.

Key focus areas include:

- Information Extraction and Verification (IEV)
- Threat Vulnerability Assessment (TVA)
- Countermeasure Development (CMDev)



MASS Head Office:

Enterprise House
Great North Road
Little Paxton St. Neots
Cambridgeshire PE19 6BN
UK

T: +44 (0)1480 222600
F: +44 (0)1480 407366
E: systems@mass.co.uk
www.mass.co.uk

MASS Lincoln Office:

1 Alumina Court
Tritton Road
Lincoln LN6 7QY
UK

T: +44 (0)1522 502050
F: +44 (0)1522 690250
E: systems@mass.co.uk
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Information Extraction and Verification

The quality of a countermeasure is limited by the fidelity of the data from which it was produced. We have developed the IEV process that we teach to customers to enable them to extract required information and build and verify effective threat weapon system and platform models. Our IEV procedures enable a customer to use weapon system and platform data from any source, classified or not, in a controlled and auditable manner.



Threat Vulnerability Assessment

The keys to effective countermeasure tactics are the exploitation of vulnerabilities in a threat weapon system's electronics or a human operator. Our TVA process enables a customer to analyse weapon system design features to identify and exploit potential areas of weakness.



Countermeasure Development

The CM Dev process we teach uses information generated by IEV and TVA to create a set of potential countermeasures that exploit threat weapon system vulnerabilities. Having learned and followed our processes a customer can refine potential countermeasures and incorporate them into countermeasure tactics designed and optimised for a specific EW system's capabilities on the platform to be protected. The key skills and knowledge we transfer are:

- Countermeasure development processes
- Engagement modelling and simulation
- Platform susceptibility analysis techniques
- Countermeasure tactic design

Our Platform Protection Service

We offer a unique service in platform protection countermeasures which provides our customers with:

- The ability to become self-sufficient and operationally independent
- Skills and knowledge in countermeasures
- Proven processes and procedures for data extraction, vulnerability assessment and countermeasure design

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