

## News Release

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### **EW COUNTERMEASURES DEVELOPED WITH ARTIFICIAL INTELLIGENCE IN MIND**

Artificial intelligence (AI) can enable an evolution in Electronic Warfare countermeasures development by automating the process in which the threat is identified and an effective countermeasure is developed, according to experts at Cohort company MASS.

The EW specialists will outline the progress they have made in designing an end to end process that supports the full cycle of threat vulnerability analysis and countermeasure development (TVACD), and how automation can enhance this process, in a presentation at EW Europe, being held in Lausanne from 5-7 June.

MASS Mission Data Technical Services Manager, Brian Tottingham, says that significant operational advantage can be delivered by using automated analysis of threat parameters and exploiting the advances in machine learning to extract aerodynamic, guidance, control, fuse, warhead and signal processing data from open source intelligence (OSINT).

The key to automating Electronic Warfare Operational Support (EWOS) and speeding up the TVACD lifecycle is to consider the overall process and then ensuring that data standards are defined so that the required data can flow freely throughout the process.

One of the major challenges is that processes are currently ill-defined, or not defined at all, and the data that flows from one part of the process to another is not standardised. Equally, many different stakeholders collect their own data but it is not centrally managed.

“But many of these challenges have been or are being resolved. MASS’s TVACD process has enabled tools to be developed that support and enable the more complex procedural areas and, having standardised the data between tools, automation is within grasp” says Tottingham.

The automation process will be further enhanced by bringing together the set of basic databases currently used for PHOTOINT, OSINT, HUMINT, TECHINT and SIGINT so that all data can be stored within a single data management system. Performing signals analysis automatically and storing the data automatically will therefore increase the speed it is available from ‘collect’ to ‘campaign’.

MASS, which provides EW support in the UK and for several overseas customers, is continually developing its THURBON™ data management system as part of its TVACD process and Tottingham adds that today’s computational power and AI is rapidly moving EW towards automation.

“Process, data and Artificial Intelligence are the key to automation, speeding up the TVACD lifecycle and pulling EW into the 21<sup>st</sup> century. Faster, more efficient platform protection is coming soon,” Tottingham will tell the EW Europe audience.

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