

**TRACK 2: UAV / AERODYNAMICS****“COUNTERING DRONE – A SIGNIT BASED SOLUTION”**

BY  
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**ABSTRACT**

The capabilities once reserved for big organisations and militaries are now in the hands of various terror groups. These groups are using high-performance commercial drones to gather intelligence and launch strikes at people and vehicles on the ground.

A commercial drone purchased on eBay arrives ready to begin gathering intelligence and quality visual images from afar. Criminal organisations are even using drones for the smuggling of drugs into jails and between borders.

Elbit electronic systems understood that Militaries and Home Land Securities needed a defence mechanism against commercial drones. Hence, they developed ReDrone based on a SIGINT passive detection capability combined with an EW defeat system. ReDrone detects the presence of drones using RF sensors and disrupts their communications and navigational systems. The presentation will provide details on the different detection and defeating approaches (active and passive).

**BIOGRAPHY OF SPEAKER**

Mr Amir Harel is the Research and Development Manager of Spectrum Control Department in Elbit Systems EW and SIGINT . He graduated with a B.Sc in Electrical Engineering from University of Tel Aviv in 2003 and obtained a M.Sc in Management from Holon Institute of Technology in 2011. He has been with Elbit Electronic Systems for 13 years and his specialisation is in the field of EW COMINT/DF Systems, SIGINT Systems and Spectrum Control Systems.