



Genesis EW Ltd.



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Genesis EW is a pioneer in the development of off-the-shelf products for the military and civilian intelligence markets. The company provides solutions for HLS, Law Enforcement and Defense forces.

The company is part of the Genesis Group (1996). The Genesis Group has extensive experience in developing large-scale systems for military and civilian use. Genesis EW's solutions offer superior operational capabilities, short integration time, attractive pricing and consolidation of multiple applications on a single platform.

GenCOM HLS

GenCOM-HLS is a set of Homeland Security solutions which provide the user intelligence superiority over terrorist organizations. The different GenCOM-HLS solutions supply scenario-tailored real-time alerts which enable foiling unexpected threats. Based on data obtained from cellular, satellite or wireless/radio communications signals of hostile elements, the different GenCOM-HLS solutions automatically map and analyze the communicational behavior of the suspects.

GenCOM-HLS solutions are innovative customizable COTS (Commercial Off-the-Shelf) systems, designed to effectively confront a large variety of HLS predicaments, tailoring in the exact capabilities required by the client.

GenCOM-HLS Solutions

GenCOM-HLS solutions locate, map and track terrorist squads and are effectively capable of dealing with on-going terrorist attack, including identifying the squad



members, the leader and the location of each one. GenCOM-HLS generates intelligence insights and alerts which are specifically scenario-tailored in each solution:

GenCOM Borderline Defense: Designed to foil borderline breaches of terrorists, smugglers or Special Forces by generating real time alerts of possible borderline threats. The system is comprised of ground and vehicle-borne DF/TDOA or GSM sensors and enables the integration of UAV/UAS deployed sensors in order to produce additionally focused intelligence.

GenCOM Perimeter Security: Supplies real-time intelligence coverage for designated perimeters. The system provides intelligence superiority in a defined area of interest, such as airports, sea ports, crowded public venues and governmental offices, by analyzing the cellular or radio communications in the area and automatically alerting the operator of perimeter threats.

GenCOM Naval Borderline Defense: Designed to foil naval borderline autonomy breaches of shoreline-bound terrorists, smugglers or Special Forces by intercepting their radio-tactical or GSM communications. The system handles multi-platform sensor deployments, fusing together measurements from shoreline fixed and ship-borne DF/TDOA and GSM sensors.

GenCOM Infrastructure Security: Designed to protect civilian infrastructure stretched over long areas such as oil and gas pipelines. The system automatically alerts of possible threats by analyzing the communicational activity around the deployed infrastructure. Fixed ground sensors are deployed in key positions along the infrastructure and mobile sensors over vehicles patrolling the area. The system also supports integration of UAV-borne sensors.

Technology

Lawful interception of cellular communications traffic directly from the cellular operators or **Off-the-air interception** of communications through reception of cellular phones and cellular cells.

Using several location technologies: **cellular locating** based on the distance of the phone from the cell (**TA**) and the strength of the **signal in neighboring cells**, **accurate signal locating** based on Direction Finders (**DF**) or based on time difference of arrival (**TDOA**). **A combination of approximate cellular location and accurate signal locating** enables accurate locating with a "fingerprint".