



StarLight

Smart Multi-INT Analysis Platform

ELS-8994





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ELS-8994 StarLight is a Multi-INT analysis system that supports commanders, warfighters and intelligence analysts in their operational decisions. The system transforms vast amounts of unstructured data, gathered from multi-disciplinary ISR sensors, into actionable intelligence and insights – in real time.

Starlight accepts input from a wide variety of sensors, including SAR, EO/IR, Video, ELINT, COMINT, radar – persistent / surveillance / GMTI, Launch Detection Systems (LDS), and OSINT.

StarLight analyzes and combines the data using AI/ML, rule engines, and other advanced algorithms. The system uses the combined data to form a joint situational picture across the arena, and automates operational processes such as sensor cueing, identifying important events, and target generation. Using sophisticated AI/ML algorithms, StarLight automatically maps normal patterns of activity, allowing it to detect and report on anomalies and suspicious enemy behavior.

As its output, StarLight provides operational insights including the following:

- Multi-domain situational awareness: an enhanced situational picture, displaying all available intelligence in an easily accessible form, and clearly indicating relevant movements and events in the arena
- Automatic Alerts: alerting on suspect enemy activity and threats, using predefined rules or by automatic detection of anomalous behavior
- Sensor optimization: tasking relevant sensors to investigate suspicious events, based on anomaly detection and smart sensor management tools
- Target generation: accurately classified and geolocated targets, allowing attack forces to react quickly
- Battle Damage Assessment (BDA): determining the effectiveness of combat operations

StarLight is based on open software architecture with a micro-services approach, allowing the implementation of new and updated AI algorithms developed by ELTA or by the customer's own resources. It also enables simple connectivity to additional data sources, using open standards such as NATO STANAG 4676, while maintaining secure access, authentication and cyber protection.

StarLight is highly scalable. Its cloud-based architecture supports both tactical intelligence stations to analyze data from local platforms, as well as nation-wide multi-domain intelligence centers that provide powerful big-data analysis.

StarLight offers operational forces the following key benefits:

- Maximize ISR assets: ensure that all available sensor data is exploited, catching details and patterns that human analysts would miss
- Operational impact: identify operationally relevant events in the mass of data; generate alerts and targets to support effective operations
- Operational efficiency: employ advanced AI to handle vast amounts of data while reducing team sizes
- Speed: shorten the cycle from sensor to shooter

