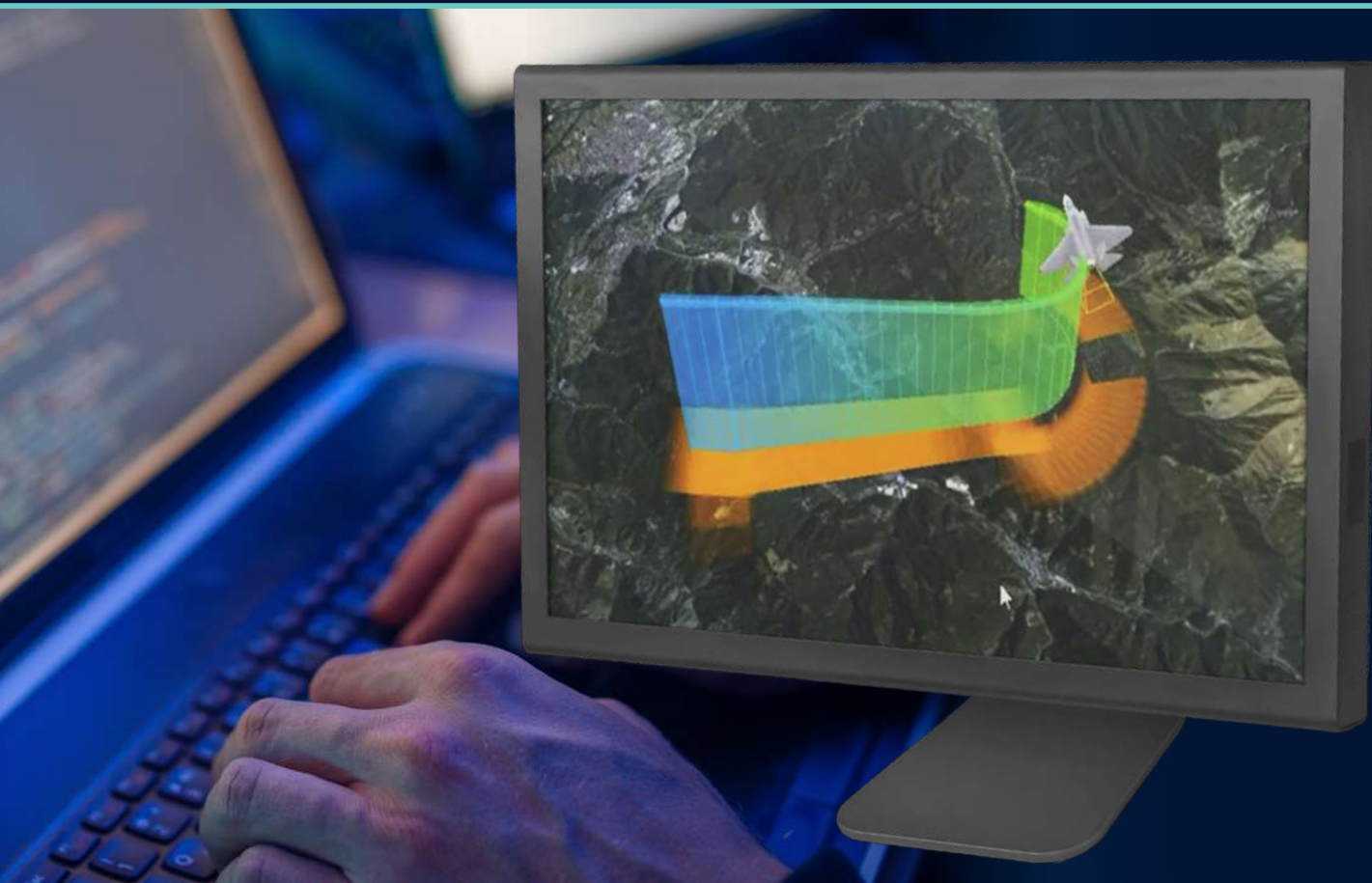




OPENSIGHT-sdk | Software Development Kit
Geospatial Situation Awareness

The SDK for making your real-time data processing, visualization and dissemination solution

OPENSIGHT Software Development Kit is a SW suite made to develop solutions for mission planning, execution and debriefing. It allows system integrators to manage information in a synthetic environment for the Geospatial Situational Awareness. OPENSIGHT-sdk endorses the development of new Decision Support Systems for understanding real-time threats and awareness dissemination, through the creation of a Common Operating Picture.

Thanks to built-in interoperability features (STANAG and MIL-STD), OPENSIGHT-sdk can directly interface NATO systems, optimizing the interoperability with third-party solutions and already existing geodatabases.

OPENSIGHT-sdk allows both the integration of new solutions from scratch and the addition of new fundamental capabilities in an existing Legacy Command and Control environment:

- To process data from heterogeneous sensors in real-time (Electro-optical, Infrared, Hyperspectral, Radar, LIDAR, SONAR);
- To layer information from multiple warfighting functions on 3D map displays or on Augmented Reality views;
- To share information and commands, providing all the parties involved with a real-time common view of the scenarios.

OPENSIGHT-sdk can be extended with the Augmented Reality System and the Automatic Target Recognition tool.



BENEFITS



A single solution platform independent for all your digital environment and HMI scenarios (workstation, desktop and mobile)



Simultaneous access GIS and 3D graphics rendering capabilities



Fully customizable and modular extendible for your specific integrated application



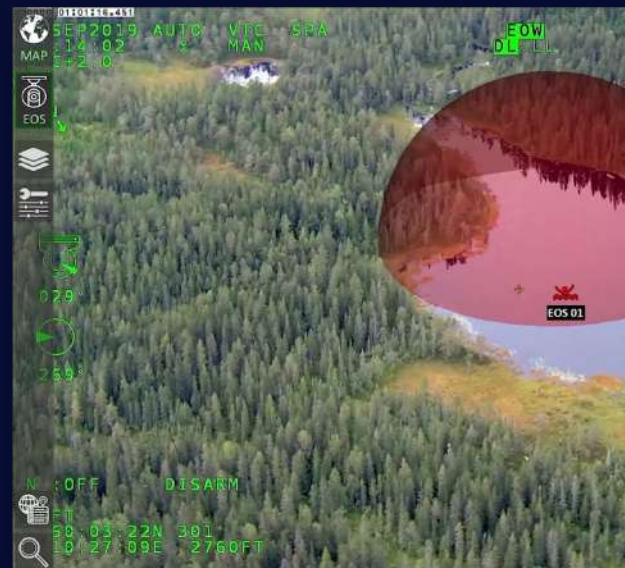
STANAG, MIL and ARINC standards interoperability



Solutions development for mission planning, real-time processing and off-line debriefing with a single holistic SW suite



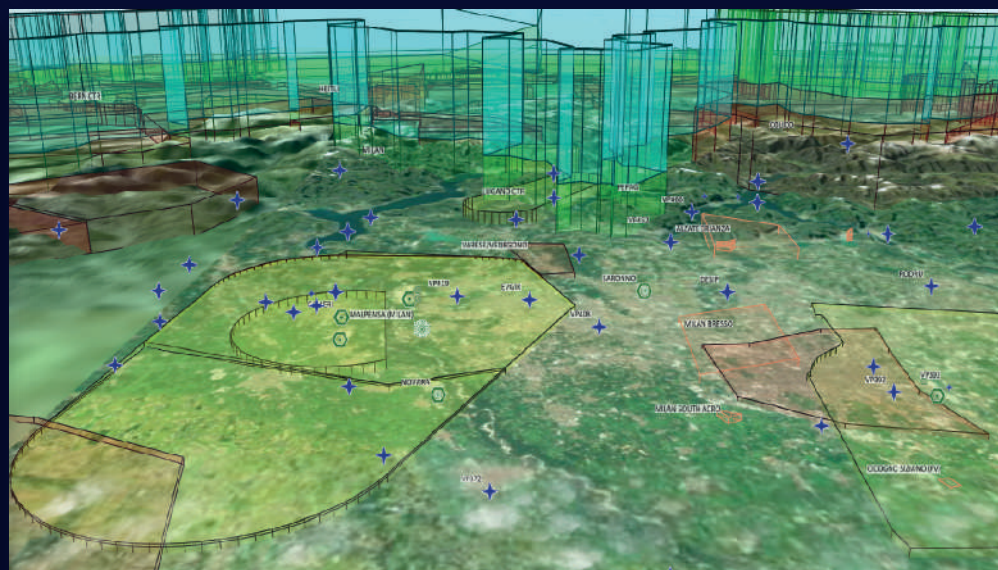
Real time rendering of multisource



Rendering of 3D volumes defined



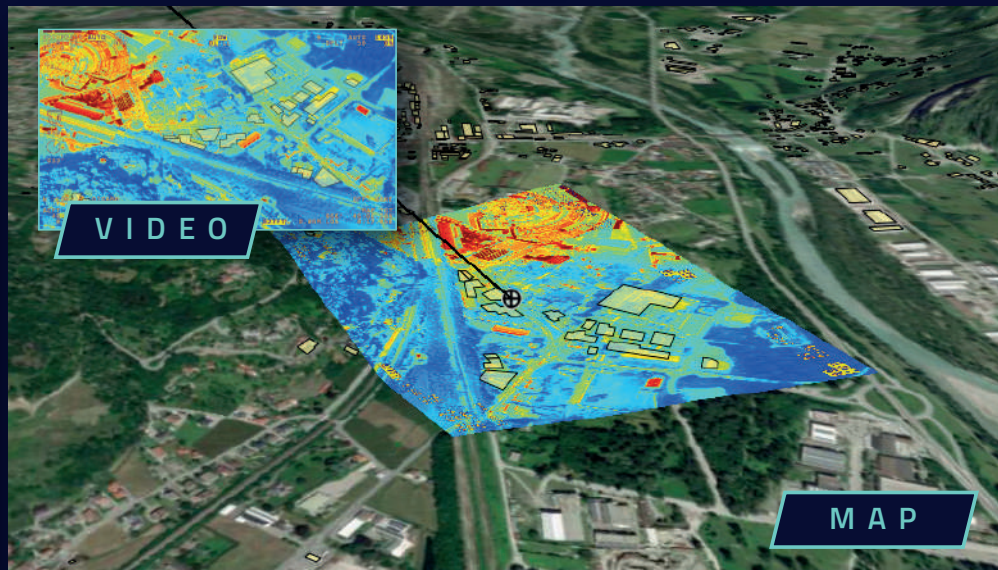
Real-time rendering 3D vector maps



Real-time rendering 3D vector maps



Real-time ground projection of video



Real-time ground projection of video



4D (Space + Time) Rendering Engine

- > 3D real time Visualization and Manipulation
- > Raster and vector geospatial management compliance with OGC
- > Import and management of any 3D objects
- > Visualization of Jepsen, DAFIS and DIVOF data
- > Draw of 2D/3D Polylines and Shapes contents
- > Measurement instruments
- > Import of tasking orders
- > Export of points of interest
- > Augmented Reality 3D Rendering Engine (with optional OPENSIGHT-ars module)



Data processing tools

VIDEO VIEWER & RECORDER

- > Video on 3D Map
- > Video clip mark preview
- > Video Scrub, pan and zoom
- > Video clipping
- > Video snapshot in a geo-image
- > Video annotation and tagging

VIDEO/ IMAGE PROCESSING (Optional)

- > Electronic video stabilization
- > Video enhancing
- > Real time video tracking
- > Images Ortho-Mosaicing
- > 3D Reconstruction from videos and images
- > Aircraft Position Reconstruction
- > Simultaneous, Localization and Mapping
- > Fog Suppression
- > Real Time Mosaicing
- > Real Time Video Fusion
- > Super Resolution
- > Moving Target Indicator
- > Automatic Target recognition (with optional OPENSIGHT-atr module)

IMAGE MEASUREMENT

- > Region perimeter, area and volume measurement



Interoperability tools

STANAG COMPLIANCY

- > STANAG 4609 (motion imagery systems) [MISB ST-0601.8, MISB ST-0102.11]
- > STANAG 7023 (primary image format)
- > STANAG 4545 (secondary image format) [MIL-STD-2500C, NITF 2.1]
- > STANAG 4607 (ground moving target indicator format, GMTI)
- > STANAG 4676 (ISR tracking standard)
- > STANAG 3277 (air collection tasking message)
- > STANAG 4586 (standard interface for UAV systems)
- > STANAG 4603 (HLA) + DIS native support for modelling and simulation

OTHER MILITARY STANDARD COMPLIANCY

- > MIL-STD 2525C (military symbolism)
- > MIL-STD 2301 (CGM, vector graphics) [ISO/IEC-8632]

AIRBORNE STANDARD COMPLIANCY

- > ARINC 661



Headquarters

Via A. Lampredi 45 - 57121, Livorno (LI) Italy

Registered Office

Corso Ferrucci 77/9 - 10138, Torino (TO) Italy

E-MAIL info@flysight.it

PHONE (+39) 0586 505016

www.flysight.it



FlySight is certified according to

ISO 9001:2015 and EN 9100:2018 Quality management system standards.

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