



Joint Intelligence, Surveillance and Reconnaissance System

WHAT IS JISR?

UTI JISR Software Ecosystem consists of services and tools for aiding INTEL personnel to provide timely and accurate intelligence and electronic warfare support to tactical and operational-level commanders.

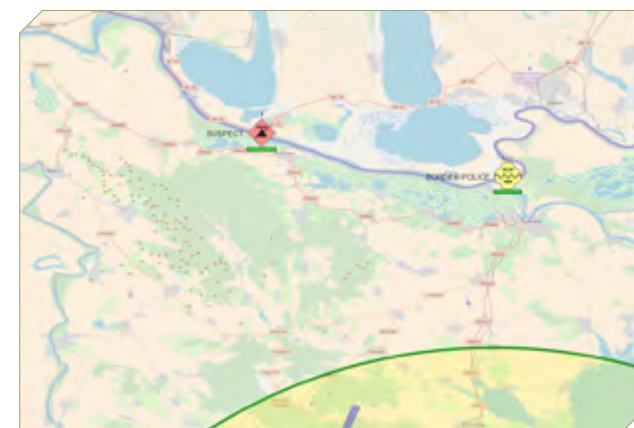
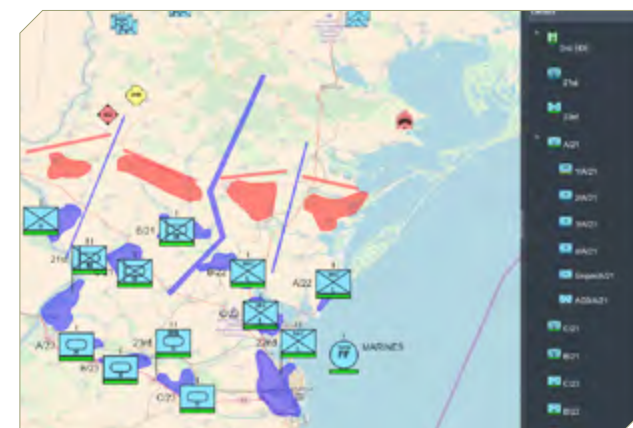
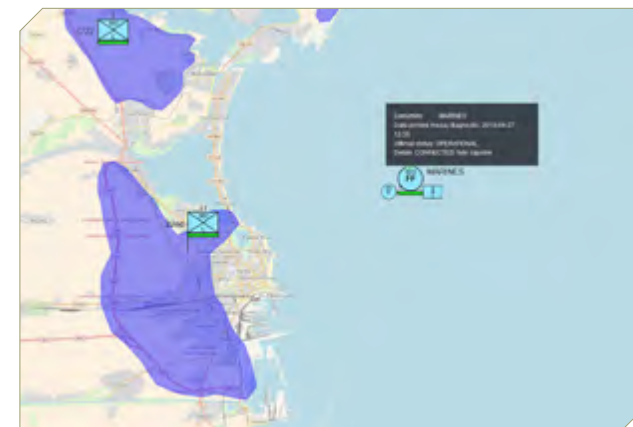


SYSTEM ROLE

JISR provides the framework and tools necessary to gather and ensure the required information and intelligence to decision-makers and action-takers, keeping them well informed in order to make decisions or to conduct efficiently and effectively the operations.

The Surveillance and Reconnaissance modules answer the questions like **what**, **when** and **where**, and the combined elements from various intelligence sources provide answers to **how** and **why**.

JISR brings together data and information gathered through a wide variety of assets from space, air, land and maritime domains.



MAIN COMPONENTS

SCAN

Stanag Connectors
Application

Interface with various **STANAG** formats: video, image, radar data, documents.

Services hosted on modular components to allow any software system to be extended with transmission/reception of data in standard formats.

Contains communication modules that implement STANAG protocols and a "two-way" transformation component from the standard data model to custom models.

Built on SOA principles for loose-coupling and extensibility.

ICSD

Implementation of STANAG 4559 (NATO Standard ISR Library Interface) for searching and accessing ISR Products.

Main components:

NATO Standard ISR Library Interface (NSIL)

Query and Publish Web Services (AEDP-17)

NSIL Service Web (NSW) - HTTP/HTTPS & OGC Web services for direct access to products

Search Service Web (SSW) - OpenSearch web portal

ASIAS

All-Sources INTEL
Analyst Software

Services for providing a multitude of analysis tools to intelligence staff.

Data collected or received from external sources is processed and analyzed in order to extract relevant information, confirm previous predictions and create new INTEL products.

TECHNICAL SPECIFICATIONS

STANAG COMPATIBILITY

STANAG 5516 (Link16), STANAG 4607 (GMTI), STANAG 4609 (Motion Imagery), STANAG 4676 (ISR Tracks), STANAG 4545 (Secondary Imagery), STANAG 7023 (Primary Imagery), STANAG 3377 (Reporting), STANAG 4633 (ELINT/ESM)

COTS AND TECHNOLOGIES

- Java EE, Angular2, CXF, Jax-RS, Spring, CORBA
- SASS, Webpack, Bootstrap
- Kerberos, Apache Tomcat, Apache Camel
- PKI

OPERATING SYSTEMS

- cross-platform application deployed on multiple OS (e.g. RedHat Enterprise Linux, Windows)"

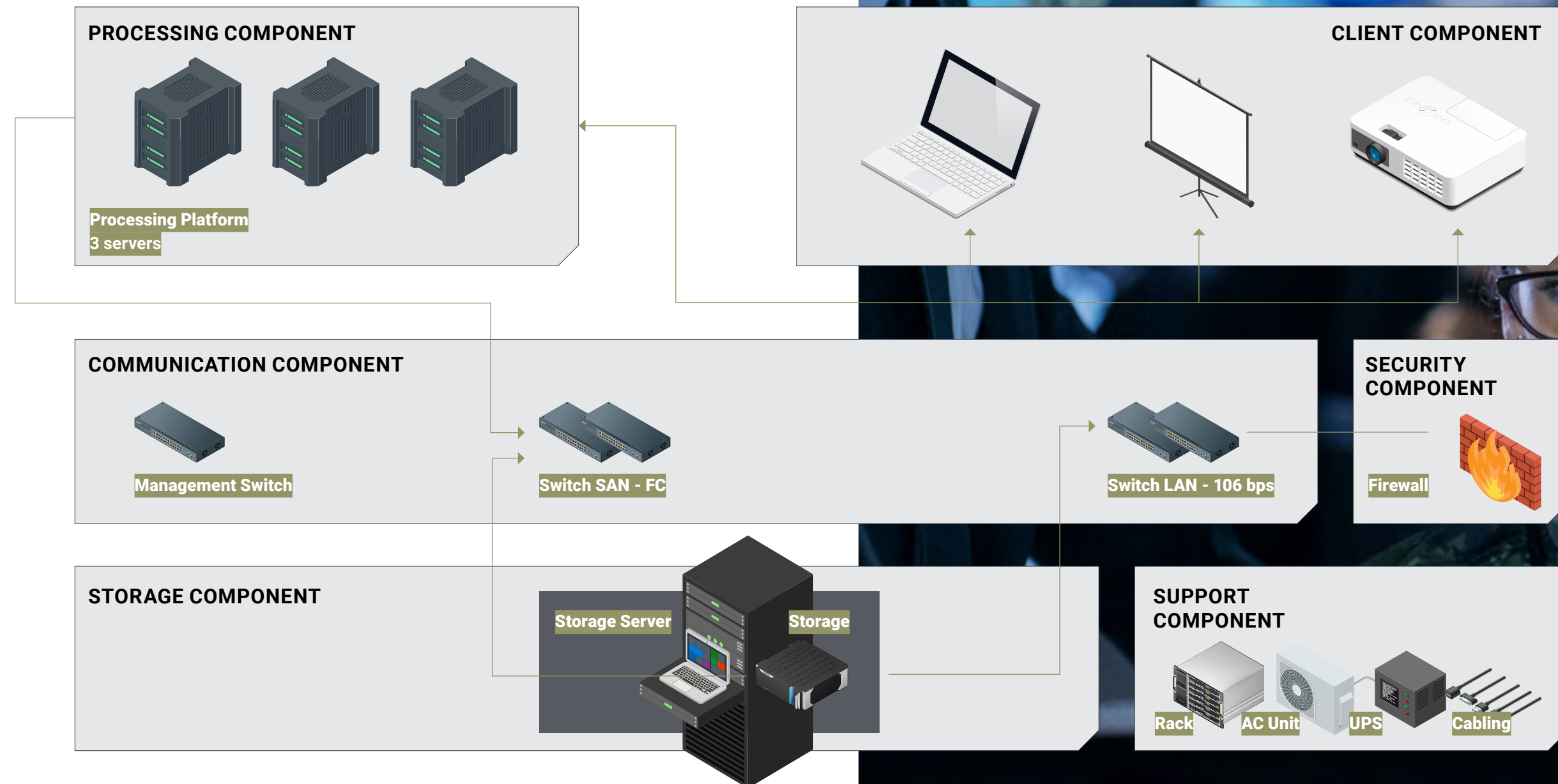


TRAINING & SIMULATION SYSTEM ARCHITECTURE



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IT SYSTEM INFRASTRUCTURE



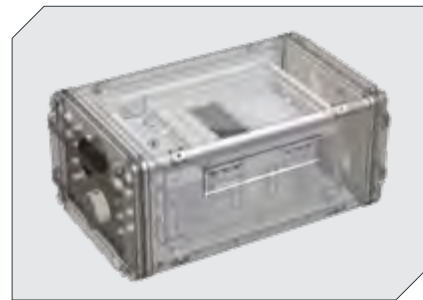
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SIMULATION CENTER INFRASTRUCTURE

The Training & Simulation Center has 1 fixed and 2 mobile operational components:

KProtector

deployable tactical operations center component, based on state-of-the-art KProtector transport cases family



KShelter

deployable tactical operations center component, based on the KShelter mobile data center



Operations room

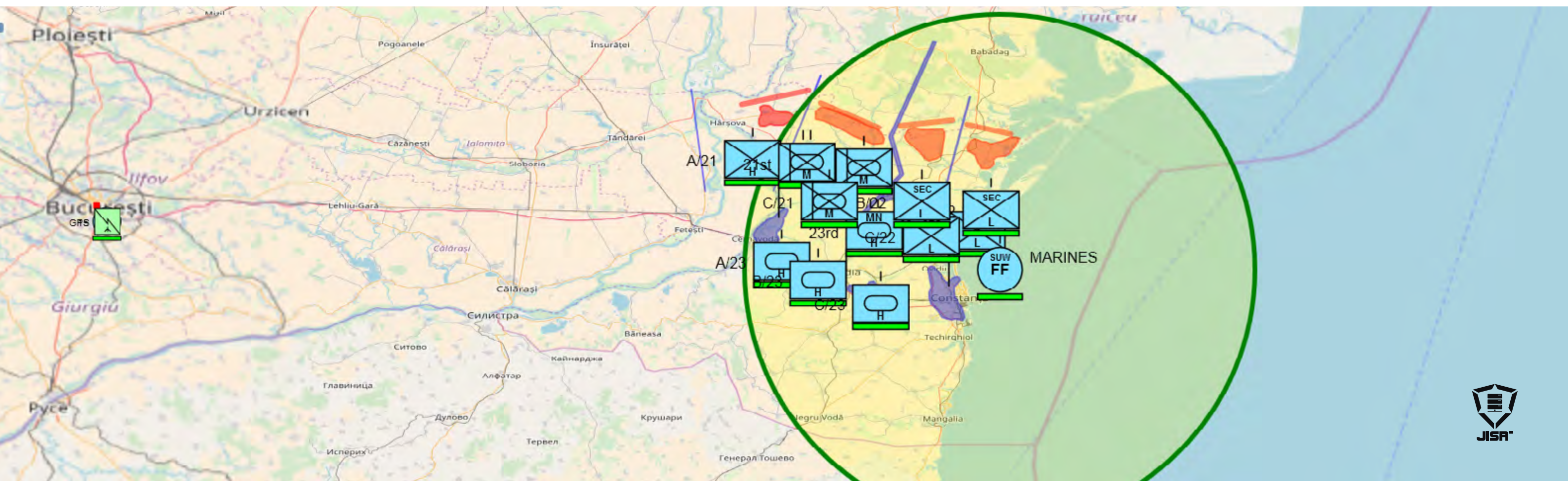
Fitted with state-of-the-art command and control IT infrastructure and two additional support areas:

Classroom / Briefing – Debriefing area

Used both for theoretical training and presentations, as well as for mission briefing / debriefing

Technical and support area

Includes the operating area for simulation programming & supervision, as well as auxiliary rooms





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