

**ESEN**

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**NEXT GENERATION  
ISR MISSION  
MANAGEMENT  
AND DATA  
FUSION SYSTEM  
(WISE23)**



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# NEXT GENERATION ISR MISSION MANAGEMENT AND DATA FUSION SYSTEM (WISE23)

**Warfare Scenario and Threat Changes in 21st Century:** Incredible rapid advancements in information, computer and communication technologies have led to the change of threats and classic warfare strategies. **The 21st century's threat** can be redefined as **transnational, adaptable, asymmetric, sophisticated** and **persistent**. Hereat, today all countries of the world are faced with an evolving complex threat environment and, they also confront **the Hybrid War, Cyber War, Asymmetric War, Grey zone and Day Zero**. The common features of such threats are the obscurity of when, where and how the threat will emerge and, the presence of the threat from the peacetime.



## HIDDEN IN THE V3 DATA

The new characters of the threat directed the experts to develop new concepts & doctrines in strategic, operational & tactical levels and consequently new technologies for defending the homeland against the new type of threats.

### Motivation for the product addressed:

- ISR, as a capability, has been gaining importance day by day.
- Image processing sensors are relatively new and have very little integration with other sensors.
- Increased data leads to difficulties for the operator in interpreting the situation presented.
- The need for preventive information has increased.
- Increased amount and variety of data enable new capabilities for mission management systems.
- New technologies enables extraction of previously undiscovered information

## ARTIFICIAL INTELLIGENCE, OPEN SOURCE INTELLIGENCE, DATA FUSION, COMBINED IDENTIFICATION, DECISION SUPPORT, ANOMALY DETECTION

Next generation national ISR Mission Management and Data Fusion System, provides the user with more comprehensive and meaningful mission support than traditional mission management systems by multi sensor data fusion and artificial intelligence supported new capabilities to enhance situational awareness and improve operations.

MSDF product baseline supports air, land and naval ISR Mission Management applications.

## ADVANTAGES

- ✔ Fully integrated sensors and cueing
- ✔ Enhanced decision support with AI, anomaly detection
- ✔ Enhanced identification with Data Fusion
- ✔ Meteorological data integration
- ✔ Open source data integration
- ✔ Sensor coverage diagrams build up
- ✔ Open system architecture
- ✔ Air and ground segments for early and late fusion and analysis



## PRODUCTS

- Mission Management System with Enhanced Features
- Subsystem (Sensors & Effectors) Integration
- Enhanced Tactical Picture
- Artificial Intelligence Supported Surveillance and Identification
- Data Fusion
- Data Analytics
- Video Data Management
- Video Moving Target Detection and Tracking
- Collision Avoidance (Optional)

## FEATURES

- Indigenous Mission Management System
- Open Architecture, Scalable, Modular
- Moving Map, Topographical, Road and Street Map
- Sensor Controls And Data Integration (EO/R, WAS, SAR, ESM, TDL, IFF, AIS)
- Video Display, Record, and Replay
- Video moving target detection and tracking
- Target Image in Tactical Picture
- Anomaly Detection and warnings
- Automatic Cueing and data collection for Anomalies
- Open Source Data Integration (ATC, AIS, Meteo)
- Sensor Data Fusion
- Automatic Classification
- Combined Identification
- Mission Planning, Monitoring, Recording and Reporting