

An aerial photograph of a rugged, mountainous landscape with patches of snow and dense green forests. A bald eagle is shown in flight, wings spread wide, centered in the lower half of the frame. The text 'EAGLE' is in a white box at the top left, and 'C4ISR SYSTEM' is in large white letters across the middle.

**EAGLE**

**C4ISR SYSTEM**



**EAGLE**  
Air Command Control System-NATO (AC2-N)





# EAGLE

## Air Command Control System-NATO (AC2-N)

**EAGLE** (AC2-N) is a software being developed primarily to meet the air picture production and tactical control needs of the air forces. The system is developed in a real-time, functional, expandable and flexible structure due to the nature of air operations. It is structured in a way that it can share information through horizontal and vertical connections and feed decision support systems in order to meet the interoperability requirements of air command and control systems. The system is designed to coordinate weapons control activities in a fast and functional structure in accordance with the nature of air defense operations. It is aimed for the EAGLE system to be highly integrated with all decision support systems, especially the TICCS (BATMAN) system.

EAGLE has been developed by HAVELSAN as a tactical-level operational software for the Turkish Air Force and is currently being modernized in accordance with the new requirements of the Air Force Domain.

The TICCS Battle Management system, a significant component of the national air command and control system, is has been in service of with the Turkish Air Force as a force multiplier Command & Control system since 2005. The system has been successfully tested and is currently operational and up to date with the latest enhancements.

HAVELSAN has worked to develop and integrate these two systems to meet all air force requirements at the operative and tactical levels. Our primary objective is to transition the EAGLE system to replace the MASE/CSI systems in the near future ensuring that it meets all operational needs of the air forces in conjunction with TICCS.



NATO & Coalition

Land C2

Naval C2

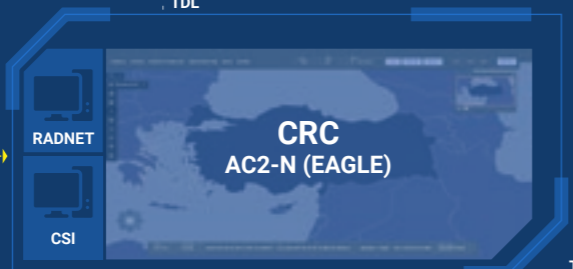
ATC



Active Sensors



Passive Sensors



- Air Surveillance
- Air Defence Operations
- Air Traffic Coordination
- Integration and Interoperability



SAM Systems



Air EW



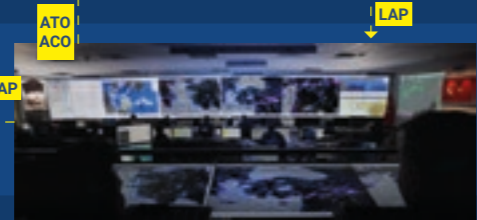
AWACS



Fighter & Bomber



UAS



CAOC / JFAC

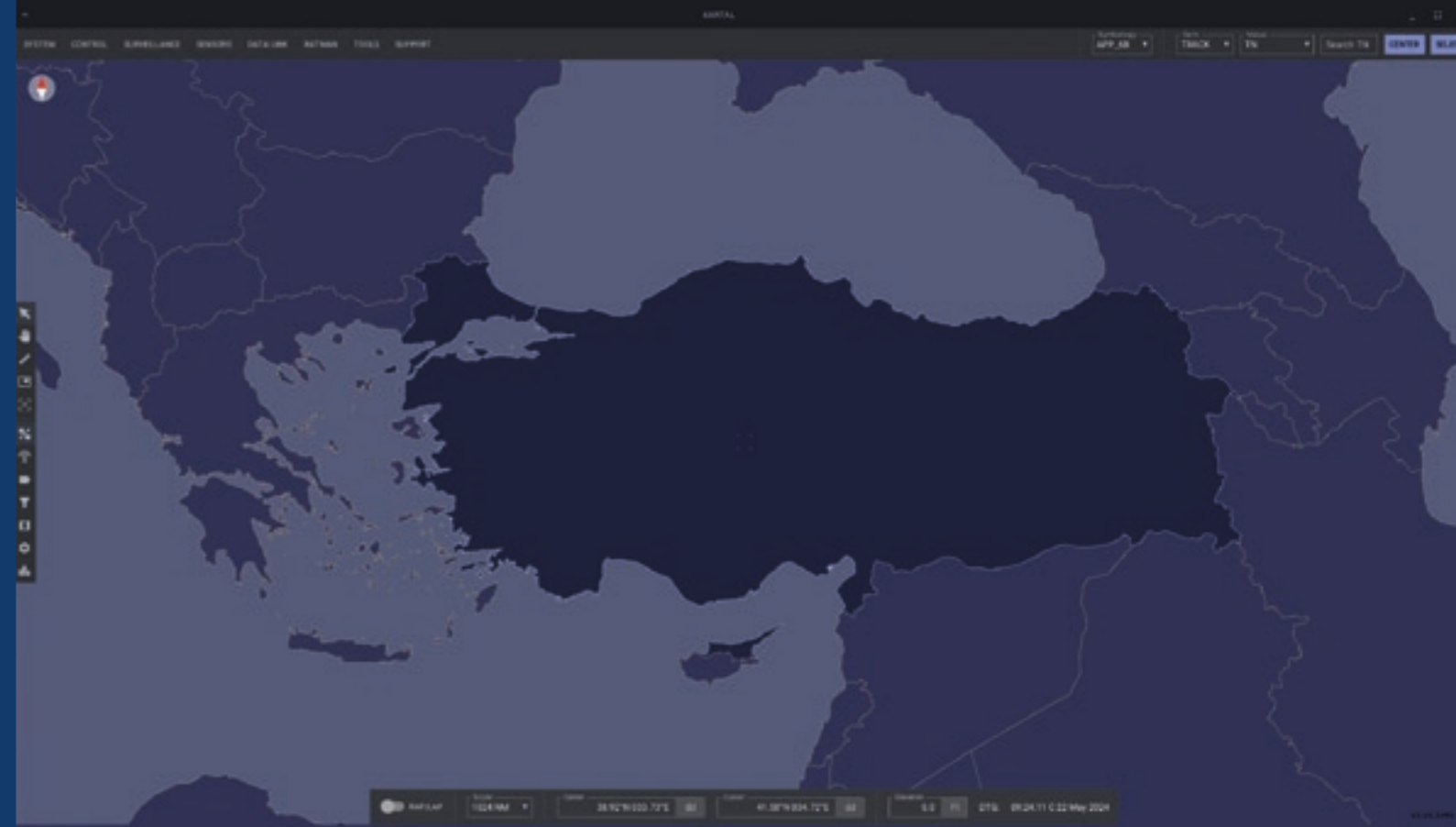


Air Force HQ

ATO  
ACO

LAP

RAP



# CAPABILITIES

## Air Surveillance

- RAP Production
- Multi-Sensor Tracking
- Automatic Identification
- Processing Mode S and Mode 5
- Distribution RAP via JREAP and Links

## Air Defence Operations

- Mission and Aircraft Control
- Threat Evaluation
- Weapon Allocation
- Processing ATO/ACO

## Air Traffic Control

- Military and Civil Air Traffic Coordination
- Receiving and Processing Flight Plan and NOTAM

## Integration and Interoperability

- Tactical Data Link
- Link Coordination



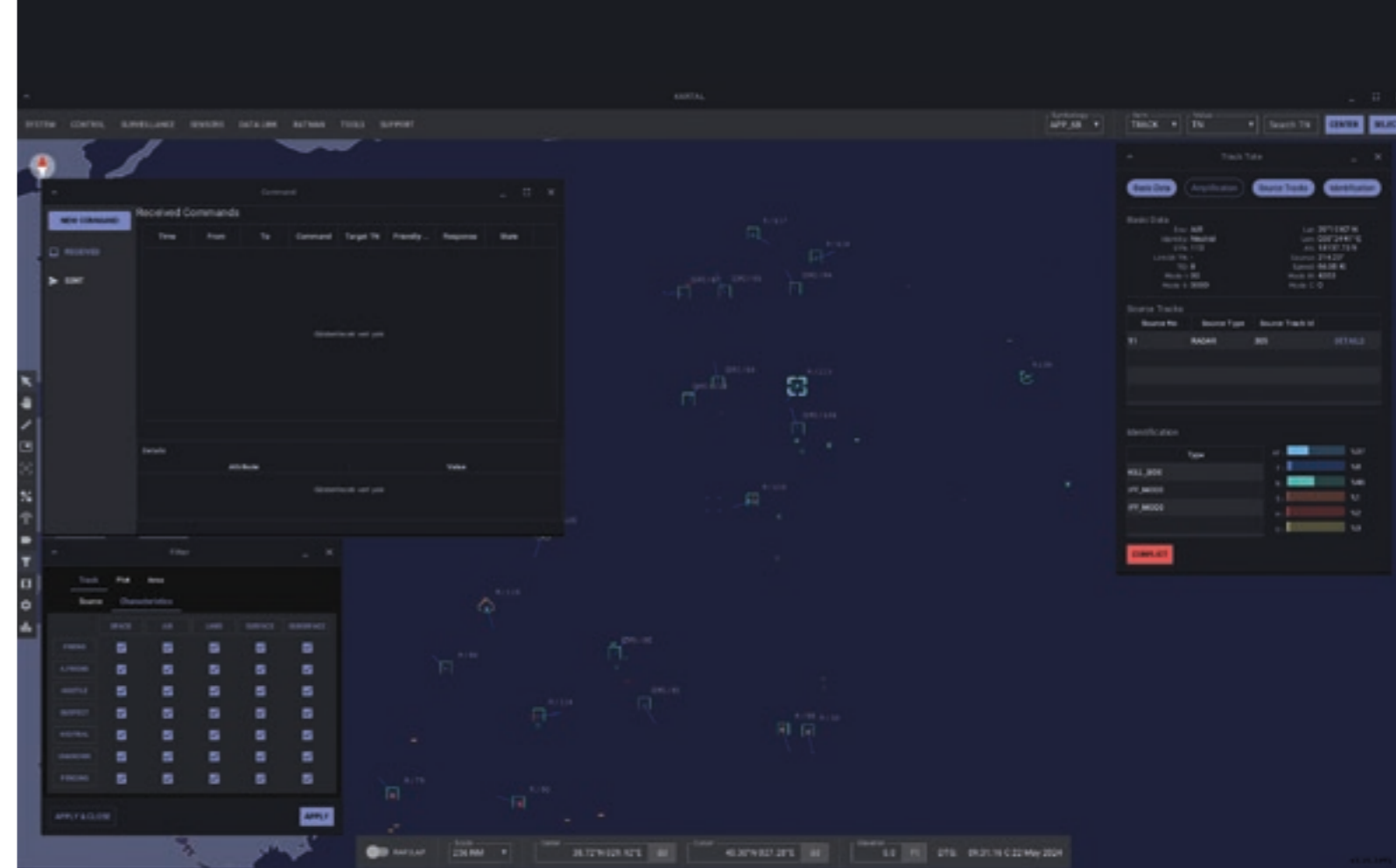
# FEATURES

## At Strategic/Operative Level:

- Process High Level Plans
- Operational Airspace Resource Management and Optimization
- Use Operational Airspace and Mission Control Plans with Network Enabled Capability
- Force Management
- Decision Support

## At Tactical Level:

- Tracking with Data from MRT (Multi Radar Tracking), Link-16, ADS-B, ESM and E/O Sources
- STANAG 4162 Compliant IDCP (Identification Data Combining Process)
- Threat Evaluation and Weapon Assignment (TEWA)
- Artificial Intelligence Based Weapon Deployment Management
- Interconnection of All Data Links (L-16, L-11, L-22, VMF) with LMC2 (Link Management and Cross Coupling)



# TUR AC2-N 1.0 CC-277

- ▶ The AC2-N (EAGLE), is developed by HAVELSAN as an Air Command and Control System to produce air picture and meet the tactical control needs of the air forces.



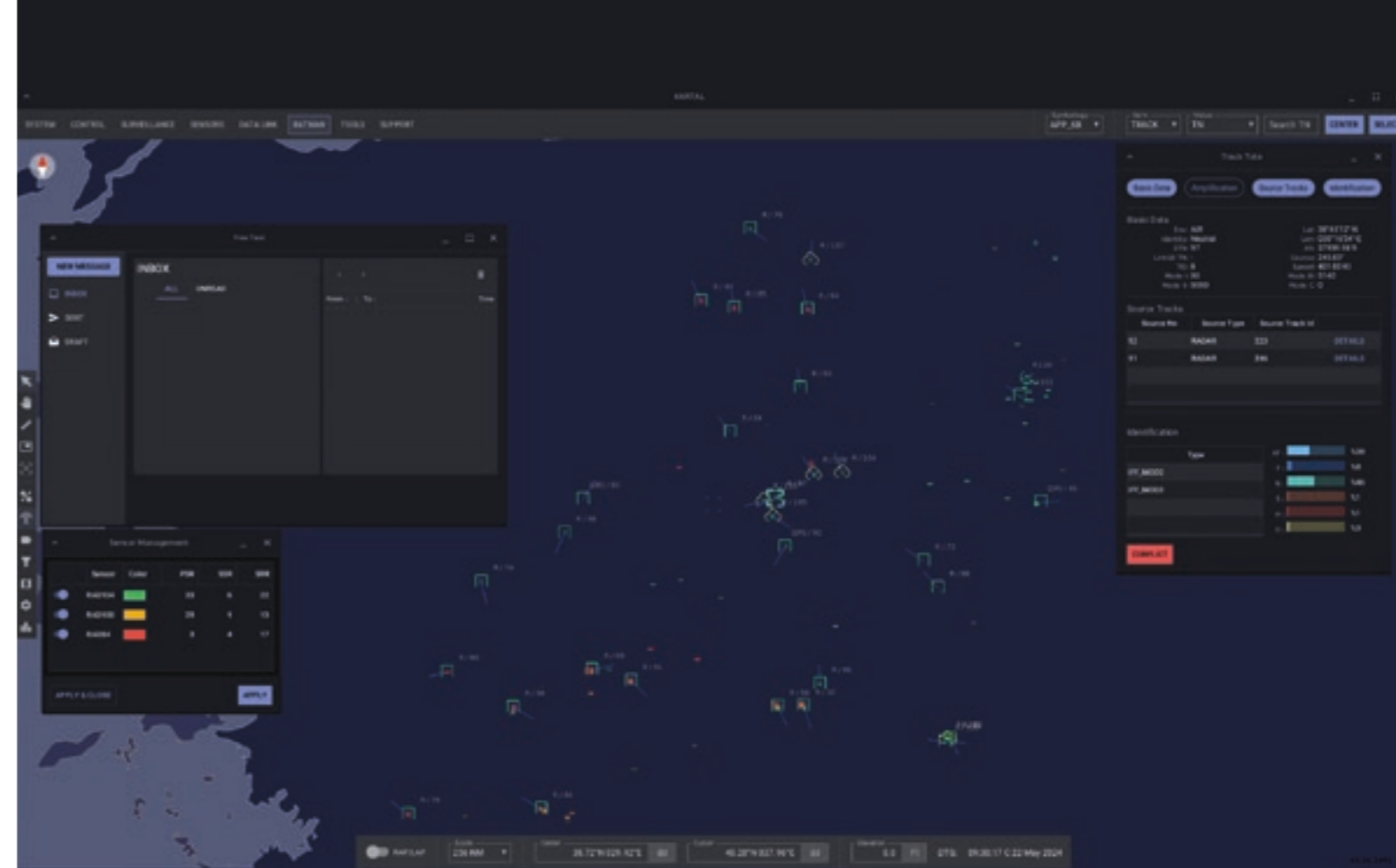
10 Digital infrastructure facilities of sensing, making sense and acting in the context of all common domains



# TUR AC2-N 1.0 CC-277

# TUR AC2-N 1.0 CC-277

- ▶ The EAGLE AC2-N system utilizes radar data and apply Multi Sensor Tracking to produce air picture. The air picture is then exchanged with other L16 JREAP-C systems.
- ▶ The system is developed in a real-time, functional, expandable and flexible structure due to the nature of air operations.
- ▶ Supported TDL STANAGs;  
STANAG 5516 (Ed 8 ATDLP-5.16(B)(1))  
STANAG 5518 (Ed 4)  
AWCIES CAT 159 (ADatP-35 part VI) Ver 1.0  
AWCIES CAT 200 (ADatP-35 part VIII) Ver 1.0
- ▶ CWIX 2024 Scope  
Testing JREAP Link 16 interoperability with other systems.  
Process formatted sensor data, produce air picture and exchange it with other systems.



# INTEGRATION BMS - EAGLE AIR COMMAND CONTROL SYSTEM-NATO (AC2-N)

- Provide a new common user interface to fully integrate all operational level processes,
- Overall force operational effectiveness and productivity,
- Enhanced situational awareness,
- External systems integration and interoperability,
- Seamless integration among AC2-N, TICCS and NATO Command Control and Information Systems,
- Extending the system to NATO, friendly and allied countries.

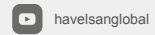
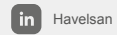
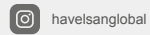
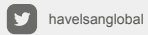
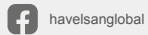
## TICCS BATTLE MANAGEMENT SYSTEM

- Intelligence
- Air Space Mngmnt.
- C2 Portal
- Alarm Mngmnt.
- Flight Monitoring
- Flight Mission Planning
- Air Task Order
- Air Picture Monitoring
- Flight Program
- Reconnaissance
- NBC Mngmnt.

## EAGLE AC2-N SYSTEM

- Intelligence
- Air Space Control
- Weapons Control
- TE & WA
- Air Traffic Control
- EW Coordination
- Fusion & Correlation
- Multi Sensor Mngmnt.
- Tactical Data Sharing
- Air Picture Production
- Air Task Execution

## Coding The Trusted Future



[www.havelsan.com](http://www.havelsan.com)

