



TACTICAL AIR SURVEILLANCE COMMAND AND CONTROL SYSTEM (ATCC)

SELEX Sistemi Integrati has provided the Italian Army with a complex field C3I system (CATRIN), consisting of three main subsystems:

- Tactical Air Surveillance Command and Control (SOATCC)
- Battlefield Surveillance and Target Acquisition (SORAO)
- Communications Network (SOTRIN)

The Mobile C2 ATCC (MC2/ATCC) performs the following main operational roles:

- Provide the Air Picture over the Battlefield or the AOI - Area of Interest;
- Assure flight safety to tactical Air Force and Army Aviation
- Assure reaction of anti-aircraft weapons
- Provide alert of enemy threat to other units

For this purpose the MC2/ATCC system is divided in three components:

Airspace Surveillance network

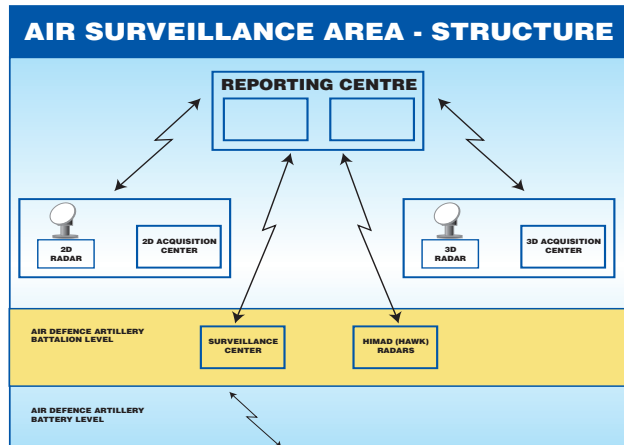
- AOI Battlefield Airspace radar coverage
- Integration with National Air Defence Centres
- Real time Recognized Air Picture (RAP) generation and diffusion

Anti-Aircraft Artillery (AAA/SAM) Command and Control Centres

- Directives definition for A/A defence
- Planning of A/A units and sensors deployment
- Status monitoring and operational efficiency restoring
- Weapon Control Order (WCO) generation
- Alert status evaluation
- Threat evaluation
- Weapon assignment

Army Light Aviation (ALA) Command and Control Centres

- Air Base Management
- Mission Planning



The system architecture is based on open system concepts, to achieve interoperability with NATO C2 systems.

Therefore, NATO standard messages (e.g. Link16 J series and Adat-P3) for WAN, COTS protocols (e.g. TCP/IP) for LAN/WAN and point-to-point connections are adopted.

Modularity/reconfigurability of ADP architecture is another main feature of this system by SELEX Sistemi Integrati.

The system, due to its modularity, consists of several stations both in fixed and mobile configuration.

To the latter extent, the Mobile Operational Center allows the required system's flexibility and optimizes its operational performances.