



## MOBILE AIR OPERATIONS COMMAND AND CONTROL SYSTEM

**MC2/AOCC is the SELEX Sistemi Integrati Mobile C2 solution to perform Air Operation Command and Control (AOCC) capabilities within NATO Systems.**

**MC2/AOCC controls the air operations activities (Tasking, Planning and Current Ops) and related assigned resources (C2 Resources Management).**

The system has been designed to be integrated in the main existing strategic and tactical national air defence networks. MC2/AOCC, integrated with the Air Tactical Surveillance Command Control (MC2/ATCC), may execute Command, Control and Communication functions in support to Defensive and Offensive Air Missions and Operations Other Than War (OOTW) as a Combined Air Operation Center. For this reason, the MC2/AOCC system can be entitled as a Deployable Interim CAOC.

MC2/AOCC is based on an operational ISO standard 20 feet shelter that allows high transportability for a large rank of carriers for Land, Sea and Air. It can operate also in a redundant configuration, to increase system resources and reliability.

Main information systems in force to IAF as ICC, AOIS, ACCAM, and Stargate are integrated in the MC2/AOCC

and inter-operate with a dedicated SELEX Sistemi Integrati application SW.

Transportability, communications, connectivity, interoperability and fault tolerance are intrinsic characteristics assuring the highest operational standard in Out of Area operations.

Two MC2/AOCC have been delivered and are in service with the Italian Air Force.

### MAIN FEATURES

Operational Features provided by MC2/AOCC include:

- Planning and Tasking of Air Operations
- Airspace Management
- C2 Resource Management
- Monitoring of Current Operations
- Handling of Intelligence Information
- Command Post eXercise (CPX) simulation
- Digitalised Map Handling (CADRG, ADRG, ASRP, VMAP, DTED)
- RASP receiving via Link-1, Link-11B or WAN
- Message handling
- Recording and reduction of exchanged data



## SYSTEM OVERVIEW

MC2/AOCC hosts up to twelve work-stations (in shared configuration), each equipped with two 19-inches colour monitors, rugged keyboards and trackballs and a radio/phone communication set. Each work-station allows the operators to plan Air missions, Airspace and C2 resources or to monitor the current Air operations. MC2/AOCC generates and distributes Air Tasking Orders (ATO) and Airspace Control Orders (ACO). When connected in WAN, ATO, ACO and RASP may be sent to subordinate Ousers by using the STARGATE system.

The number of operational work-stations may be increased by connecting via LAN to the MC2/AOCC any commercial workstations equipped with SELEX Sistemi Integrati SW application.

MC2/AOCC is connected with tactical component (MC2/ATCC) via a LAN 10/100 Base F in optical fiber.

The system receives the Recognized Air and Surface Picture (RASP) directly via Link-1 and/or Link-11B or via WAN, through the MC2/ATCC.

An additional Communication Subsystem, housed in an ISO standard 10-foot shelter, provides all the voices and data communication as well as CRYPTO devices, HF, VHF and UHF radios, telephone and network links, satellite and GPS equipments.

Air Conditioners, NBC Filters, an Automated Fire Extinguisher System, a Communication Controller and a Power Distribution Unit complete the standard shelter equipment.

One 10 Ton truck with a 20-foot trailer is needed at all to move the MC2/OACC and the related COMM's shelter. Trolleys and lifting devices provide autonomous capabilities of local displacements and upload/download.

## TECHNICAL DESCRIPTION

MC2/CCOA is based on an open client-server ADP architecture implemented with state-of-the-art rugged HW COTS elements.

Main specifications are:

- TCP/IP, SMTP, HTTP Network protocols
- 10/100 Base-F Ethernet LAN
- ORACLE RDBMS
- Sun Solaris OS
- Unix/Windows NT portability
- Browser
- Up to 12 Operational Work Positions (in shared configuration)
- Dual 19" colour monitors with resolution 1024x768
- ACCAM and ICC Server
- AOIS Router and Free-Way for Link-1 and Link11B
- Internal High Speed Laser Printer and Fax
- SW life cycle ISO-9001 standard.