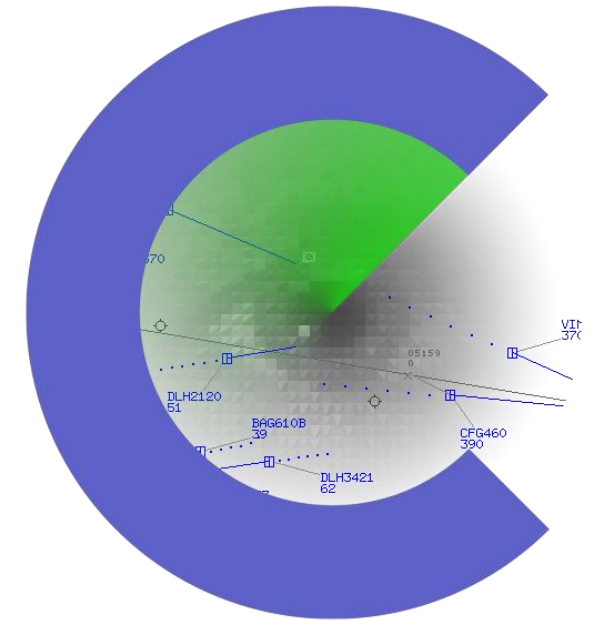




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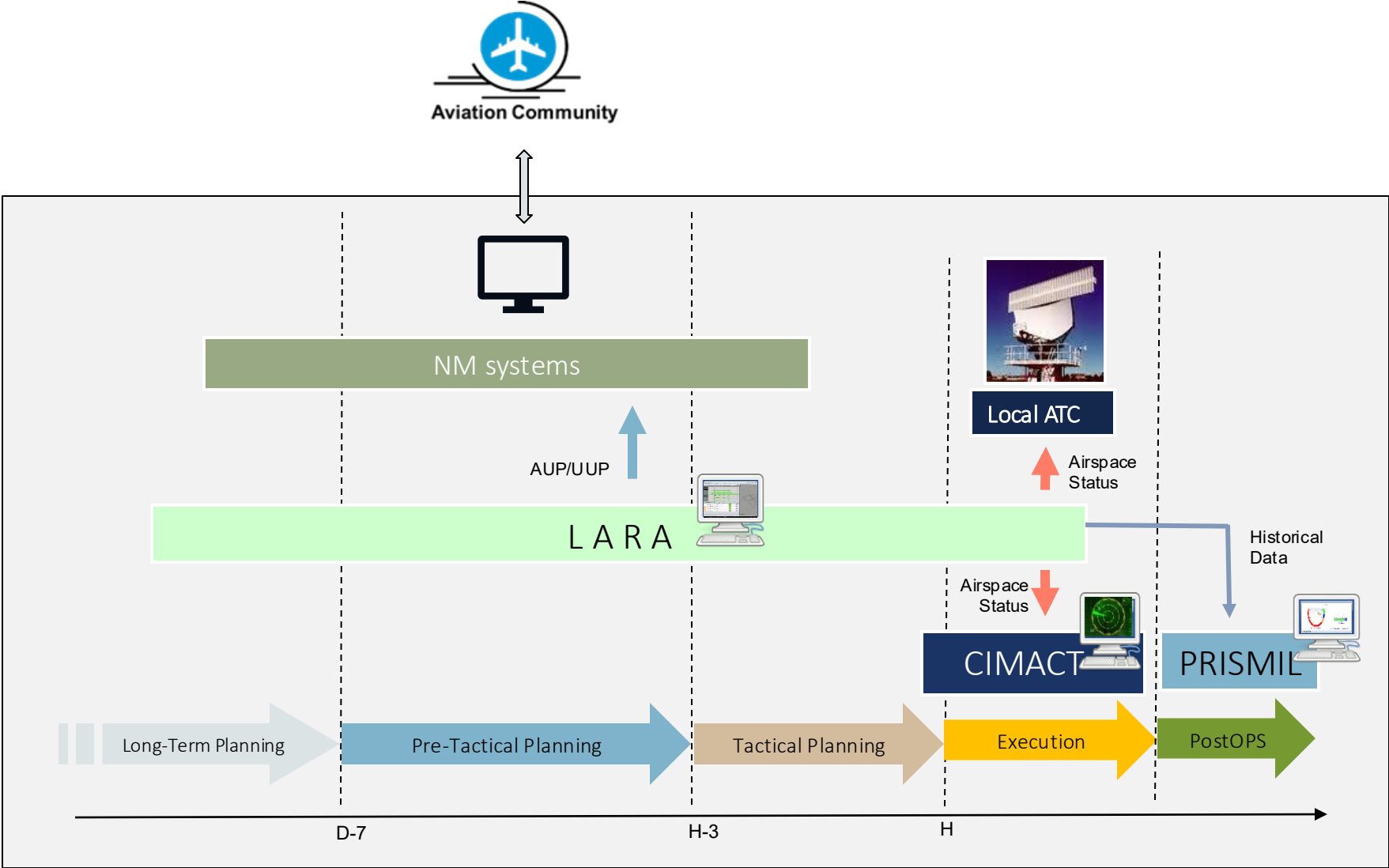


# CIMACT

## Civil-Military ATM Coordination Tool

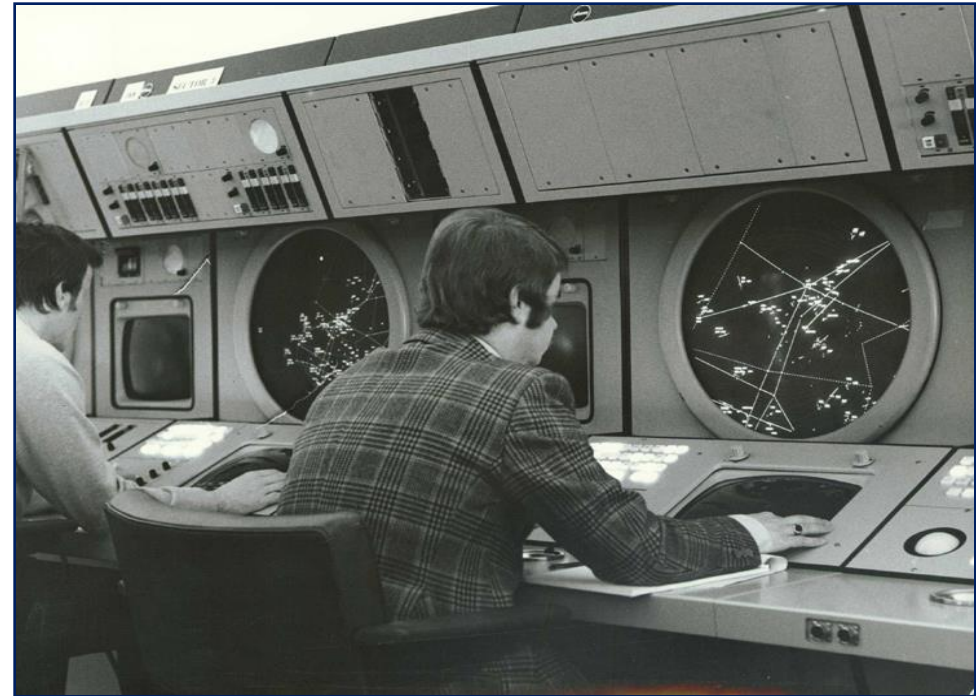


# EUROCONTROL Civil-Military Support Systems



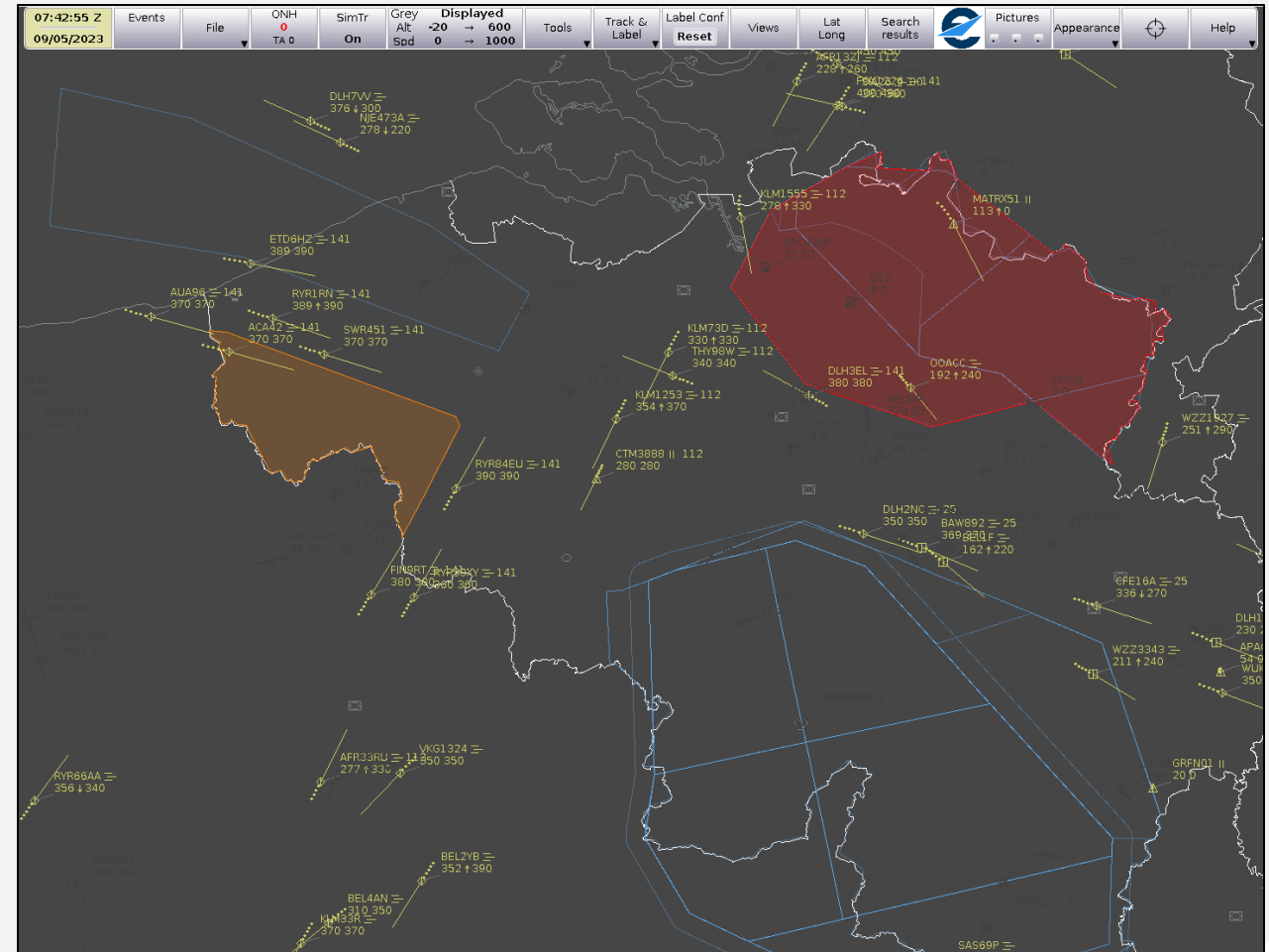
# CIMACT history

- Request from BMVg to develop ADMAR 2000
- Primary objective: improve civil military coordination
- Installed in 14 air defence centres and other military sites in Germany
- Total about 65 working positions were installed
- CIMACT was developed by EUROCONTROL to modernise ADMAR2000 and to offer the benefits to other ECAC States
- CIMACT is managed by EUROCONTROL's Civil Military Cooperation Division



# CIMACT main features

- Flexible Civil-Military ATM data processing and display system
- Display of surveillance and flight plan data from a multitude of sources
- Producing one correlated air picture
- ATM Tools, filtering and highlighting capabilities
- Simulation and de-briefing capabilities



# CIMACT operational use

- Tactical phase of Airspace Management by coordinating and monitoring airspace activations
- Civil-Military and Cross border Coordination of ATM security events as part of the NATO Regional Airspace Security Program (RASP)
- Identification Support for Air Defence
- Fall-back for Air Defence and ATC
- RADAR approach control at Mil A/D
- Search and Rescue
- Recording and Data Analysis



# CIMACT operational use

## German Air Force

- Civil-Military coordination
- Identification
- Fallback
- Air Defense Centers
  - CRC Schönewalde
  - CRC Erndtebrück
  - Deployable CRC
  - SSZ Uedem (NAPC/CAOC)



# CIMACT operational use

## Neuburg Airbase

- RADAR approach control
- Improved coverage
- ARTAS and plot extractor
- Combining local ASR with civil sensors
- Similar setup is used at neighbouring Manching Airbase
- Used in the Portuguese Air Force for Air Traffic Control at MIL Airbases



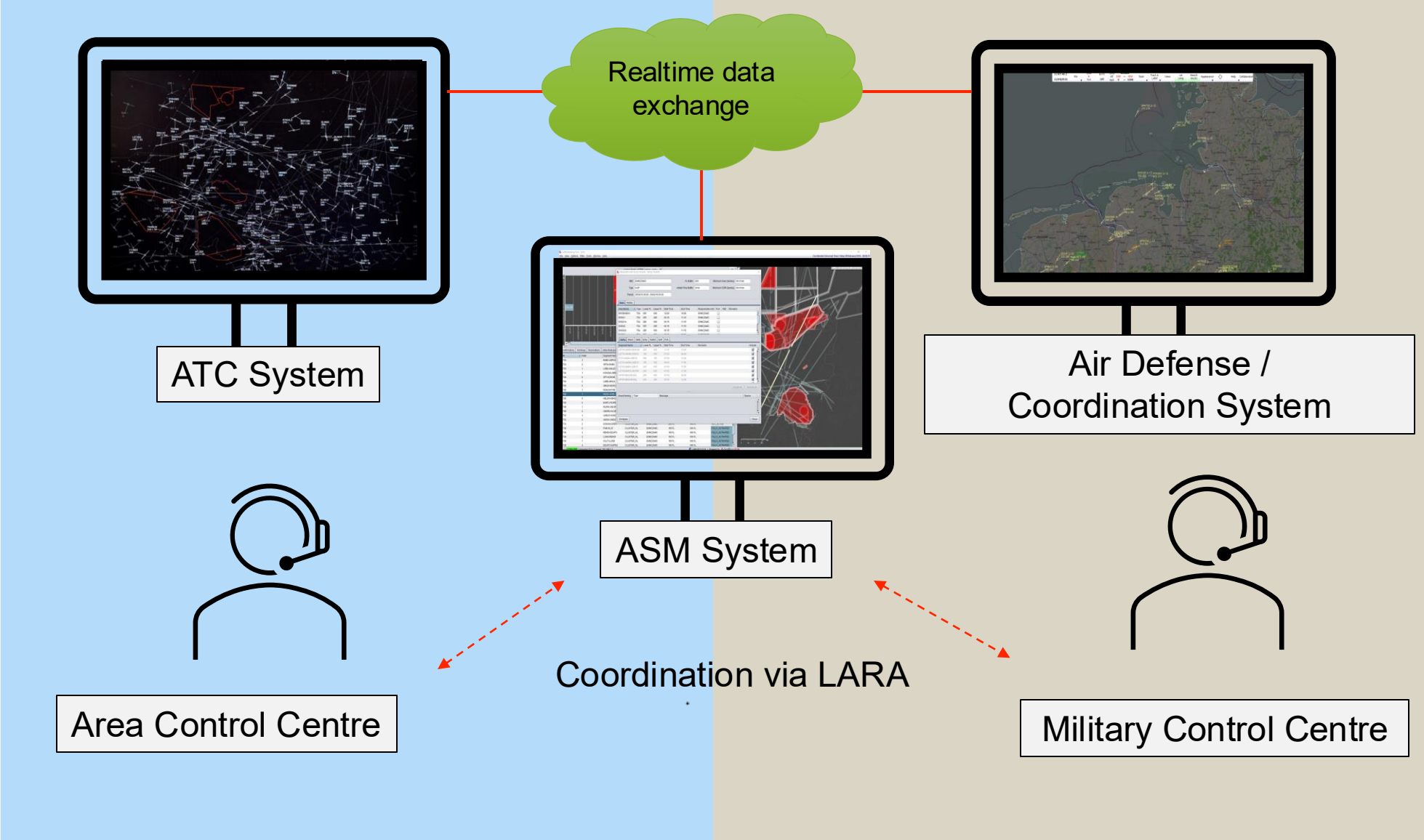
## CIMACT operational use – ATM Security



NATO CAI live exercise 2011

Turkish F-16 “handing over” a simulated renegade to Russian Su 27

# Real-Time-Civil-Military Coordination



# CIMACT Technical Setup

## **CIMACT hardware and software:**

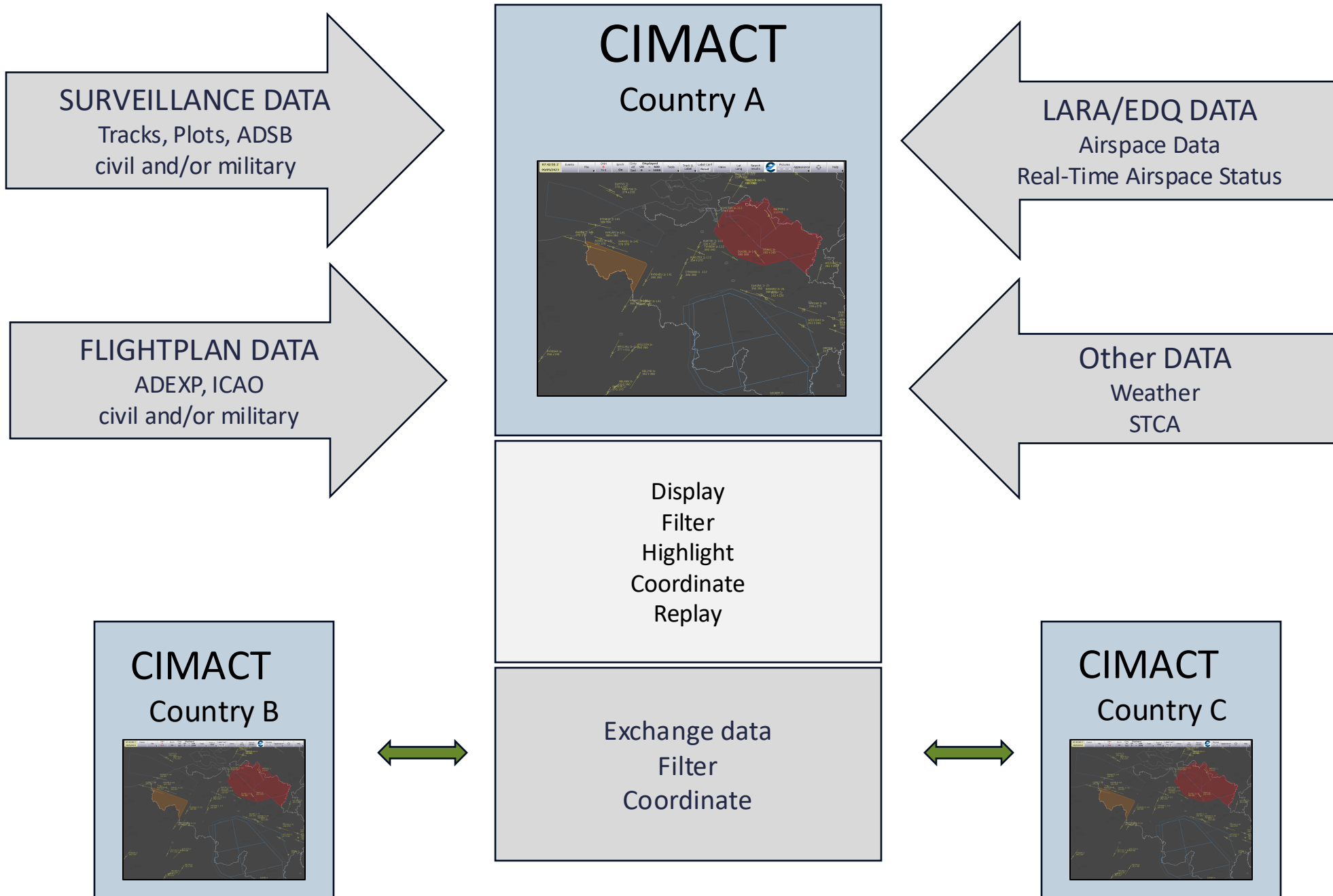
- Consists of a central server and working positions
- Operating on COTS hardware
- LINUX OS, coded in C++ and JAVA
- SWAL 3 compliant, Declaration of conformity and a generic safety case



## CIMACT accepted data formats:

- ASTERIX messages: 000; 001; 002; 003; 004; 008; 009; 021; 030; 034; 048; 062 (v0.19; v1.13; v1.16); 065; 142; 143; 149; 150; 152; 252
- ATCAS ADEXP messages: BFD; CFD; TFD
- VAFORIT ADEXP messages: ADMFPL; ADMFPU; DMFPT
- ICAO messages: ACP; AR; CNL; CHG; DEP; DLA; ST; FPL
- Several others message types (NMEA, AFTN, etc)







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# Thank you!

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