

LETVIS IACCS is Integrated Air Command and Control System. The system is intended for performance of integrated command and control functions at the tactical and operational level, from dedicated location, for the conduct of real time Air Defence battle.

Design base

- computers and computer components (COTS platform),
- communication devices (COTS platform),
- special application software (ALES products),
- operator's desks and special furniture (ALES products),
- special computer components (ALES products).

Special devices from other producers (e.g. ODL terminals, crypto devices, ...) can be integrated into LETVIS IACCS.

Main characteristics

- open architecture,
- modularity and high interoperability in respect to other systems and data sources,
- capability to interface the current radars and weapon systems available to customers.

General capabilities

- **Recognised air picture (RAP) creation and distribution**
 - multi-sensor tracking,
 - tracks correlation with flight plans,
 - tracks characteristics assignments,
 - tracks management,
 - selective distribution of RAP.
- **Weapon systems control**
 - automated target allotting,
 - automated ground controlled interception,
 - automated control of SAM units.
- **Mission planning**
 - info databases maintenance (meteorological data, flight plans, information on aircraft and weapon systems, ...),
 - mission planning support with utilisation of info databases.
- **Recording and replay**
 - recording of data / voice communication, operator's actions, system status,
 - synchronous data / voice replay, records analysis and data reduction.
- **Interactive simulation**

Outstanding features

High modularity, open system architecture, portability, advanced object-oriented technology enables:

- competitive price/performance ratio,
- low life cycle costs,
- maximum efficiency at minimum cost due to utilisation of customer existing equipment,
- customer tailored design,
- system platform option (Intel® or Sun™ SPARC™ hardware platform with Unix™ Solaris™ operating system).

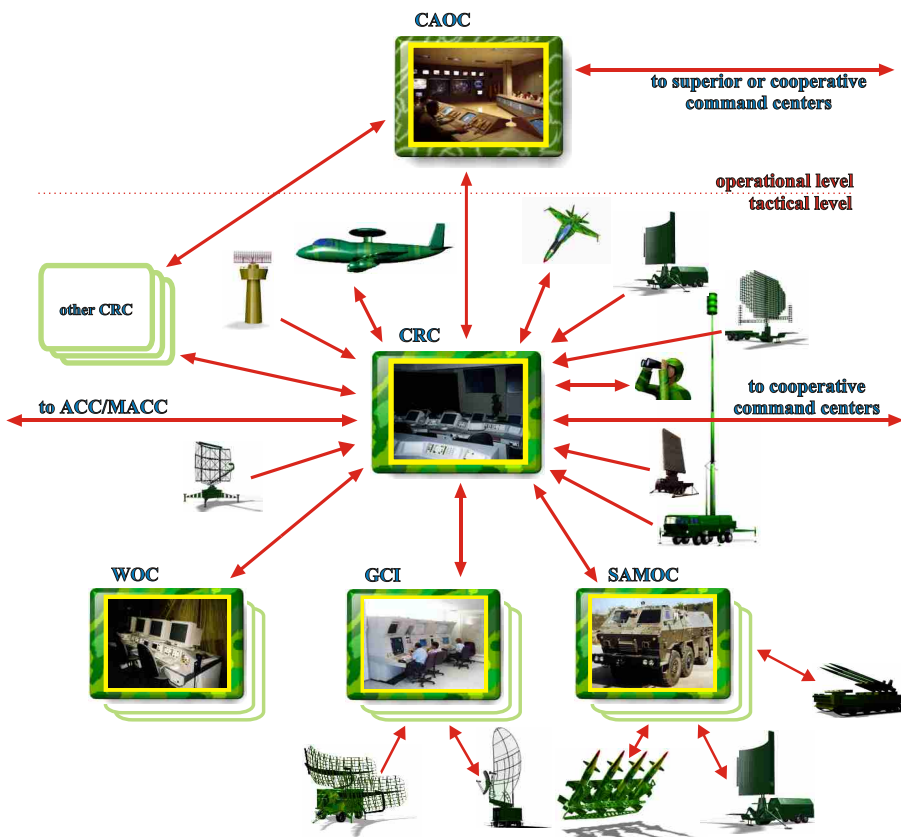


Specification

- Sensors and other data sources
 - plot/track processing of up to 24¹⁾ sources as follows:
 - PSR, SSR/MSSR, PSR+SSR with digital output,
 - passive surveillance systems,
 - AWACS,
 - ADS data interface,
 - automatic direction finders,
 - external surveillance data processing systems.
- System tracks update rate from 4 to 10 sec, adjustable
- System tracks capacity up to 1000¹⁾
- Data storage area up to 2000 x 2000 km
- Data display
 - single and/or multi-screen display (2 - 8) for one operator,
 - LCD display of up to 2K x 2K resolution.
 - full redundant dual LAN, backed up servers
- System redundancy

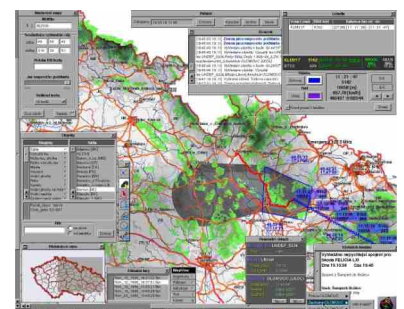
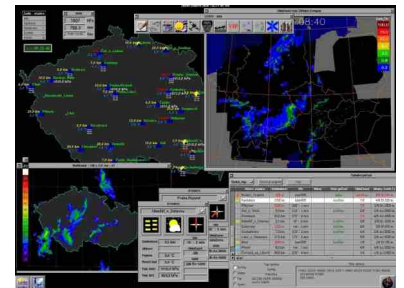
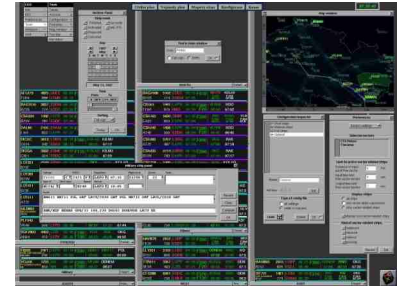
**) The value is valid for multi-sensor tracker running on Sun 280R server. The value increases in case if a more powerful server is used.*

Example of LETVIS IACCS system topology



CAOC - Combined Air Operations Centre
 CRC - Command and Reporting Centre
 WOC - Wing Operations Centre
 GCI - Ground Control Intercept

SAMOC - Surface to Air Operations Centre
 ACC - Area Control Centre (civil)
 MACC - Military Area Control Centre



References

- Czech Republic: National AF command and control system which is a part of NATO Integrated Air Defence System (NATINADS) in Europe
- Slovak Republic: National AF command and control system