

### Operation modes:

- Real combat activities
- Combat simulation
- Combat analysis / replay

### Innovation purpose:

TATRAPAN AD was designed to replace the original K1 system for SAM control of SA-6 series. K1 system was fitted with a large set of equipment located on several vehicles. Commander decisions and/or orders (of his responsibility) issued were based on analogue radar data display. The system failed to provide options for threat countering, other equipment (KPC) provided partial calculations for correct target assignment and information transfer to SA-6 missiles. Both K1 and KPC systems capabilities (complemented by decision-making process capability and others) were provided entirely by TATRAPAN AD. Radars netted to K1 system were equipped with data extractors, and wire/wireless comm equipment for radar data exchange or voice communication. All information on targets (after multiradar processing) is distributed to workstations for decision-making process.

Along with the replacement of K1 system, a control and communication subsystem upgrade of 1S91 missile guidance system was required. The upgraded 1S91 equipment consists of:

- radio modem
- control computer
- electronic selsyns
- control panel interface module (CPIM)
- target display module
- radar signals emulator (option)

1S91 upgrade allows for:

- information receipt on assigned targets
- homing guidance mode - without PSR radiation
- graphical data display on 9" plasma panel
- status messages transfer using CPIM into TATRAPAN AD
- GPS data processing and distribution to TATRAPAN AD



### System configuration



### References

ALES delivered TATRAPAN-AD for the Slovak Armed Forces at the end of 1998.