TAC NEC

Information and communication system

TAC (TARGET ACQUISITION) NEC

for control processes automation and conduct of a combat activity secures:

- decision-making process support for commanders and for the staff, and creation of common and actual overview about the situation in the battlefield
- exchange and processing of information in the vertical and horizontal level including information provided by sensors in the almost real-time mode
- work in a unified system of information about the land and cartographic environment
- processing of formalized and non-formalized combat documents and messages
- blue force tracking (tracking of the force movement at the battlefield or in the operation area, respectively)

Data interface

Within the system, a transfer of information is executed from individual sensors (operators of sensors) of a given force unit to the respective commander. The force commander processes and assesses given information and via the force operator (the radio device operator) sends the selected data away to the assigned communication centre. The communication centre secures the handover of data to headquarters, or to the operation group, respectively, and reversely, it further secures transfer of commands from headquarters to individual forces.

Communication interface

Within the force itself, personal short-range radio stations are used for communication.
The force's operator communicates with the communication node by using VHF or HF radio station. The communication node has VHF and HF radio stations readily available and, in a stationary version, it can be interconnected with headquarters by a local computer network

Technical equipment (hardware)

Technical equipment includes personal short-range radio stations and portable and mobile VHF and HF radio stations. It then further includes hand-held PC, tablet PC (the force), notebook PC (communication node) and desktop PC (headquarters).

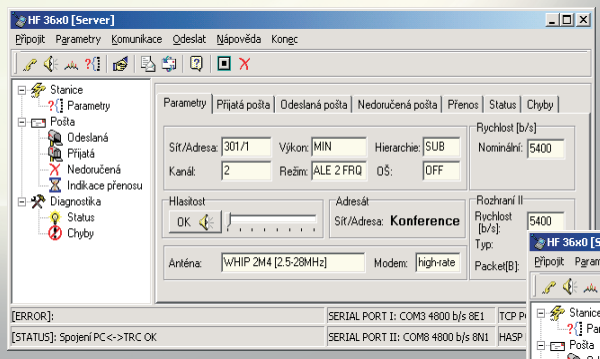
Software

Software includes a full scale of mutually data-compatible TAC applications that are supported for OS MS Windows CE/2000/XP/Vista platforms:

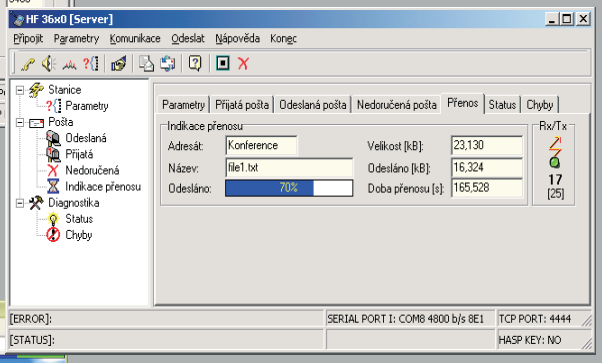
- **GEO3D, GEO2D** - visualization and presentation of large geographic data with supporting calculations over these data
- **FCHAT**- generation and procession of formalized messages
- **HF** - the radio stations control and transfer of text messages and data files by THALES SYSTEME 3000 radio stations of TRC 3xx0 series; the application works as a mail client on the basis of radio station's and participant's addresses in the given network. It enables retranslation of data from different communication networks (VHF/LAN/PEGAS)
- **HFLite**- designed only for THALES SYSTEME 3000 radio stations control of TRC 3xx0 series
- **VHF**- the radio stations control and transfer of text messages and data files by THALES PR4G radio stations of TRC 9xx0 series; the application works as a mail client on the basis of radio station's and participant's addresses in the given network. It enables retranslation of data from different communication networks (HF/LAN/PEGAS)
- **VHFLite**- designed only for THALES PR4G radio stations control of TRC 9xx0 series

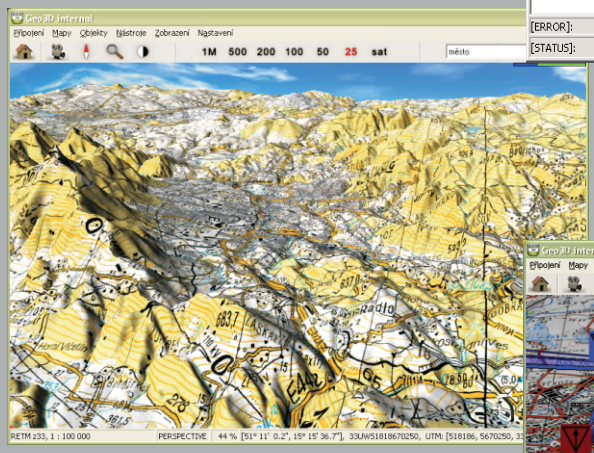
- **SERIAL** - transfer of text messages and data files by transfer devices without own communication protocol; connectible to PC via serial interface RS232. The ACK protocol URCTP (Universal Radio Communication Transfer Protocol) of the URC Systems Company is used for the transfer. It enables retranslation of data from different communication networks (HF/VHF/LAN/PEGAS)
- **LAN** - transfer of text messages and data files by transfer devices without own communication protocol; connectible to PC via LAN network interface Ethernet with the protocol TCP/IP or via serial interface RS322 with the protocol PPP. The ACK protocol URCTP (Universal Radio Communication Transfer Protocol) of the URC Systems Company is used for the transfer. It enables retranslation of data from different communication networks (HF/VHF/PEGAS)

SW can be modified to another communication system (Harris, Kongsberg, MBITR, M3TR, RF 20).

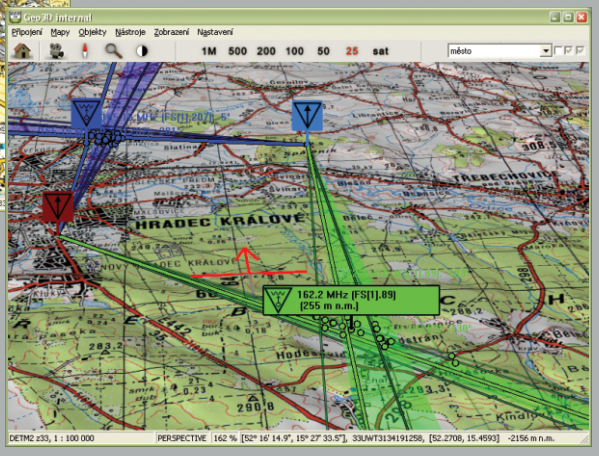


TAC HF





GEO 3D



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