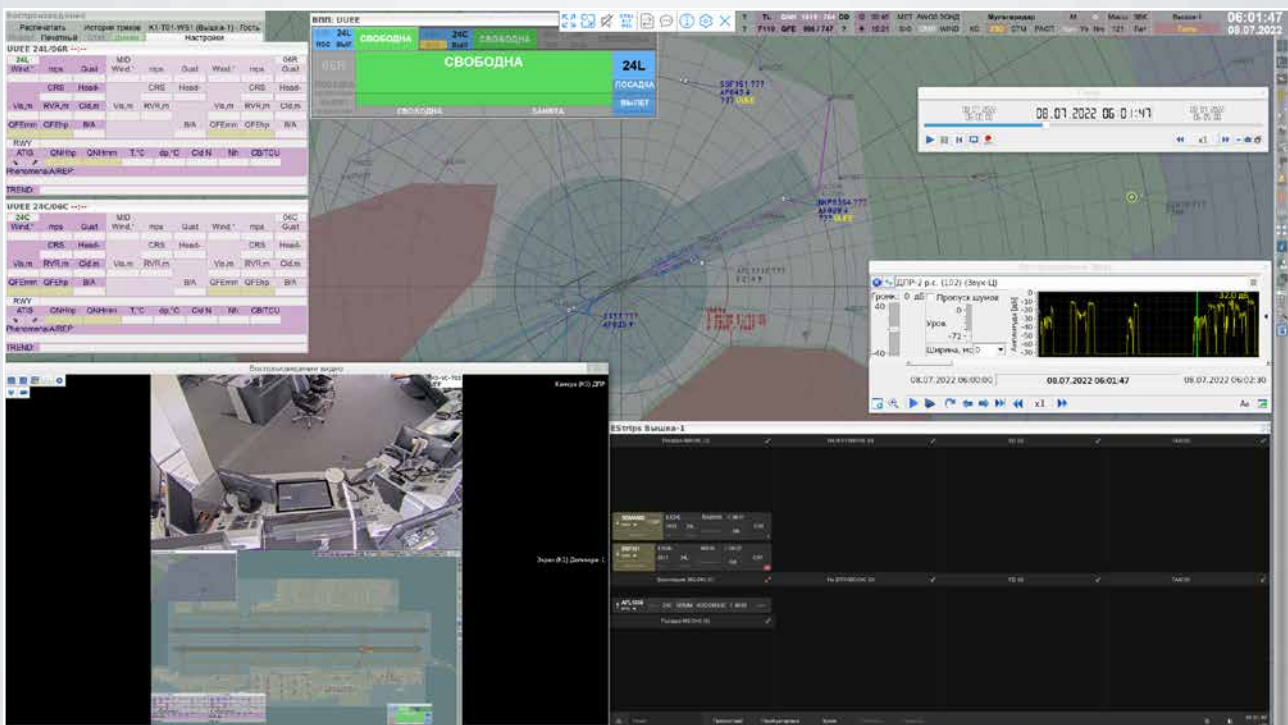


GRANIT

GRANIT Recording and Playback System is designed for continuous recording of air-ground radio communication, negotiations between adjacent ATC units, radar data, position data, flight plan data, weather information, consoles operations, video streams of IP cameras and workstation screens. The product capabilities ensure objective monitoring in ATM system, at aviation infrastructure facilities, and at the facilities in other sectors of the national economy.

The system special feature is its ability to playback simultaneously all information delivered by selected sources in a coupled mode at one workstation with time reference. A source is selected according to required parameters depending on the tasks to be solved. This enables operator to find quickly and to replay required information.

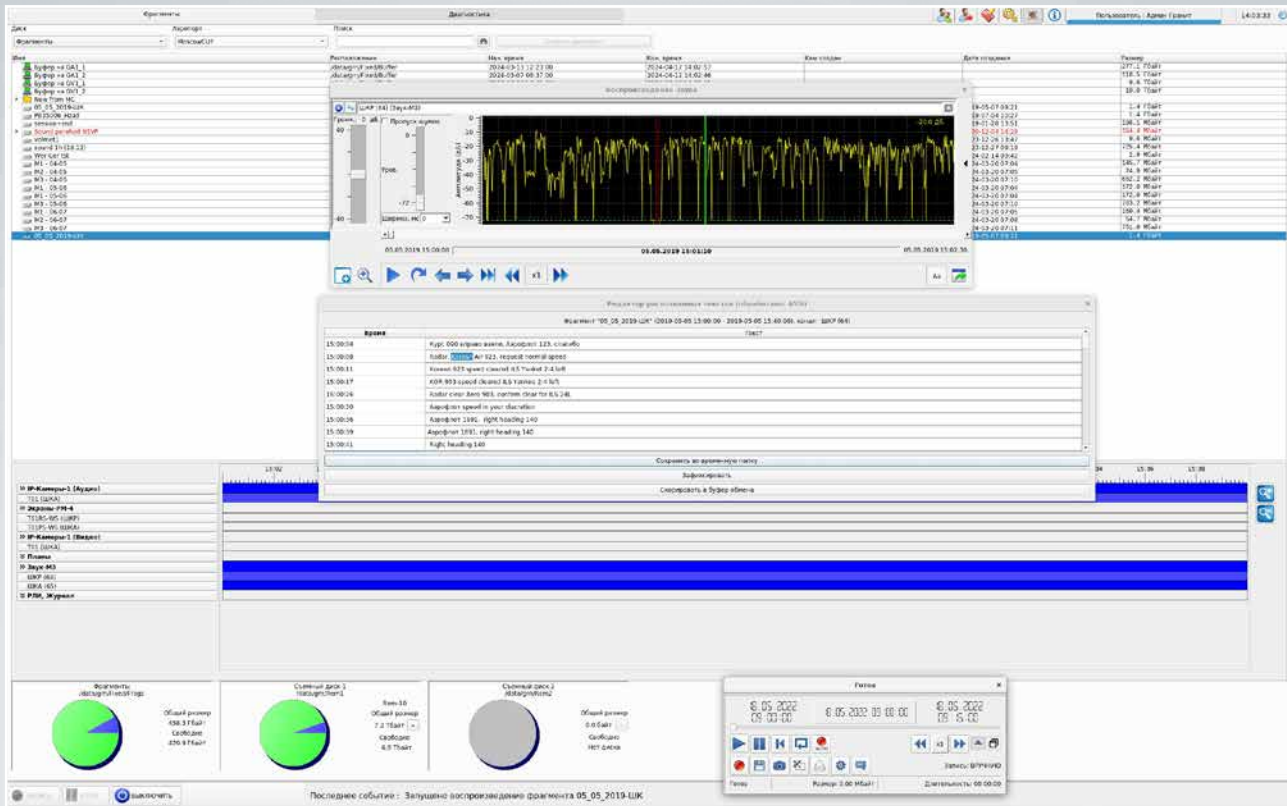


FUNCTIONALITIES

- Recording for various information:
 - voice on digital and analog communication channels
 - VoIP
 - surveillance data (PSR, SSR, MLAT, ADS)
 - position
 - ATM system: FPLs, weather, console operations, conflict and potential conflict logs, other logs, technical control and monitoring, etc.), and other events
 - IP video cameras
 - workstation screens
- Voice recognition to generate extracts (in two languages)
- Statistical data of audio channels operation
- Playback without assembling
- 100% backup for hardware with simultaneous recording to both sets
- Data storage during checking period (at least 30 days) at removable carrier or internal storage device
- Capture and export of the fragments for specified period to external media
- Data export to standard audio and video formats (WAV, AVI, etc.)



GRANIT



STRUCTURE

Recording hardware including:

- Data and voice recording modules (100% backup)
- The modules for recording workstation screenshots
- The modules for data recording from IP cameras

Playback hardware:

- Decoding workstation
- Technical control and monitoring system
- Remote recording control workstation
- Remote signaling panel

IP video cameras

Availability and number of recording modules and various workstations depend on supply package based on volume and contents of the data to be registered.

The system architecture enables any scale of the system to be arranged depending on the tasks, from small (up to 8 voice channels) to large-scale projects (1000 and more data streams of various types).

