

LETVIS® MON - DATA & VOICE RECORDING, ARCHIVING, REPLAY SYSTEM

MLV3213
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LETVIS® MON system is intended for the creating of time-synchronised records, the archiving of recorded files and their retrieval for time-synchronised replay or data reduction without interrupting the recording process. LETVIS® MON is to be used for critical applications where the data and signals recorded are replayed with precision time synchronization. Such applications are those employed in Air Traffic Management systems, Air Defence systems and others.

Inputs to be recorded:

- audio signals
- video signals
- data distributed within LAN/WAN under IP protocol
- data from serial asynchronous and synchronous lines
- outputs from analogue or digital radar systems
- output signals from other sensors with analogue or digital output (record of temperature, movement of persons,...)

Main features:

LETVIS® MON is designed as a system of independent processes of recording, archiving, replaying and monitoring the state of input sources and processes mutually communicating through TCP/IP protocol. Thanks to its high modularity, not only simple systems where all the processes are running on a single computer but also complex systems where individual processes or their combinations are running on RAID based multi-processor servers while the monitoring is running on terminal stations, can be created.

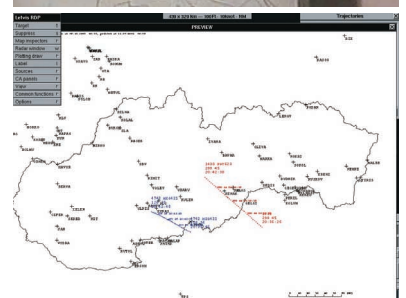
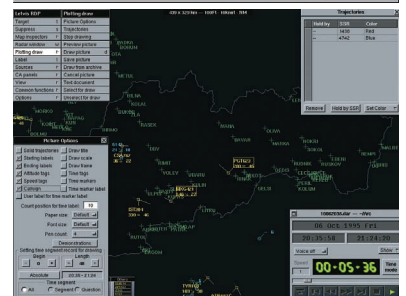
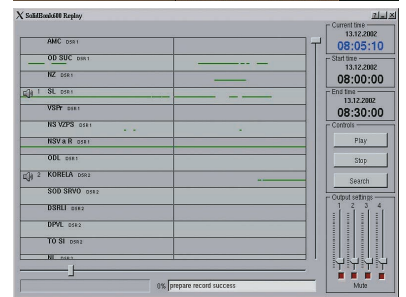
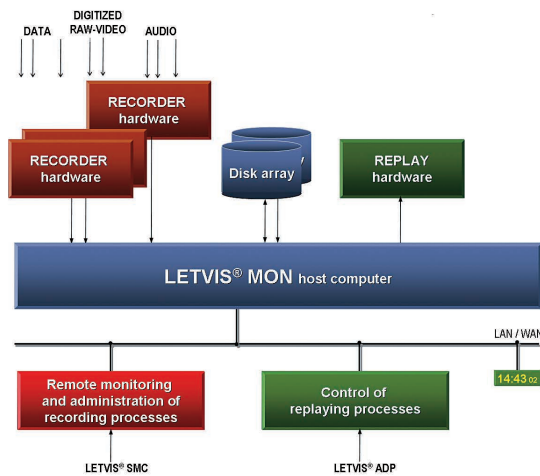
This conception enables:

- creation of records of input sources and their combinations
- easy modification or extension of the system depending on the input load, or type and quantity of signals to be processed
- records archiving on high-capacity RAID storage media, or external media of CDRW, DVD type

Benefits of system modularity, open architecture and use of advanced technologies:

- ✓ Favourable price-to-performance ratio
- ✓ Meeting specific customer's requirements
- ✓ Ease of the system growth
- ✓ Build-up of multi-platform systems using the SUN™ Solaris™ or Linux OS based workstations for basic processes of recording & replay, and Windows™ OS environment for replay control and monitoring
- ✓ Optional HW platform (Intel® or Sun™ SPARC™ based)
- ✓ Low life cycle costs

Principal scheme:



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RECORDING UNIT of audio and ISDN signals

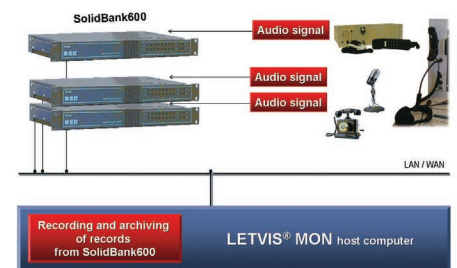
SolidBank600-4/8M unit serves for recording of audio and ISDN signals in the LETVIS[®] MON system. The unit is composed of an autonomous processor, HDD and Ethernet 802.3 10BaseT interface with TCP/IP I/O protocol. SolidBank600-4/8M carries out the A/D conversion and recording of audio inputs with or without HW compression, as well as the recording of ISDN lines. In case of the HW compression of input signals, a high degree protection against modification of the recorded data is provided for.

System capacity:

- limited only by the HW capacity and its performance
- up to 8 units (64 audio channels) per one LETVIS[®] MON server via LAN (if required for radar data recording)

Basic specifications:

- Number of channels per unit
8 audio channels, or
4 ISDN lines (PRI, BRI)
- Frequency range
300 - 3400 Hz
- S/N ratio
> 45dB
- Sampling frequency
8kHz
- Record capacity
250 hours, non-compressed
1000 hours, compressed
- Power supply
24V DC
- Case
19" rack, 1U height

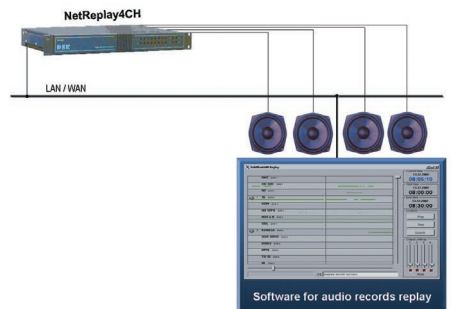


REPLAY UNIT of audio and ISDN signals

NetReplay4CH unit serves for multi-channel replay of audio records in the LETVIS[®] MON system. The unit is composed of an autonomous processor and Ethernet 802.3 10BaseT interface with TCP/IP I/O protocol. NetReplay4CH receives the TCP/IP packets with audio record, provides the HW based decompression (in case of compressed audio records) and their D/A conversion.

Basic specifications:

- No. of audio channels simultaneously replayed
up to 4
- Audio replay, options
4 split outputs, or
1 combined output
- Frequency range
300 - 3400 Hz
- Power supply
24V DC
- Case
19" rack, 1U height



LETVIS[®] ADP - Workstation of ATM data and audio replay

LETVIS[®] ADP workstation is intended for synchronised replay of recorded radar and audio signals within the ATM applications. Both the NetPlayer4CH replay process and data replay process (running on recording LETVIS[®] MON server) are controlled by LETVIS[®] ADP through LAN, using TCP/IP protocol. Since the records are read directly from local HDD, there is no need of copying the data via LAN. All data recorded, such as radar data, aeronautical data, operator actions, etc. can be replayed by LETVIS[®] MON and subsequently displayed on LETVIS[®] ADP screen. LETVIS[®] ADP simultaneously controls a time-synchronized audio replay on NetPlayer4CH.

Basic capabilities:

- Easy and fast record retrieval
- Selection of time period to be replayed
- Selection of data and audio channels to be replayed
- Fast forward/rewind control, speed control, pausing and re-starting, etc. for events analysis
- Data reduction for graphical/tabular presentation on the screen or in printed form

