

MULTIPROBE

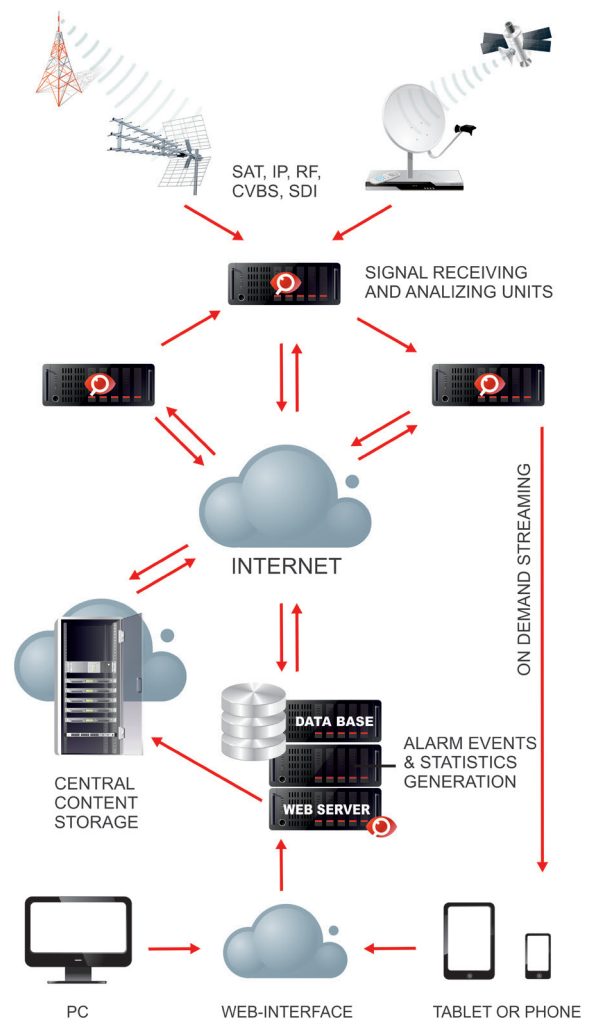
QUALITY CONTROL OF TV AND RADIO BROADCAST

Software and hardware solution for the quality control of TV and radio broadcast and for the delivery of content. It allows to control the whole transmission network of TV and radio broadcast – from studio to the end-user, providing a real-time statistics of content delivery quality in broadcasting, satellite, cable, IPTV and OTT networks.

The solution is based on the client-server technology and consists of set of allocated specialized hardware and software analyzer units (each with its set of modules), placed in the quality control points of TV broadcasting, and of centralized system of data collection and aggregation. All system management and work with the system is accomplished remotely through the Internet. The system has the ability of aggregated data collection from all the points of installation of hardware analyzer units. Simultaneously, the system MultiProbe and its separate units can be integrated in already existing related systems of statistics gathering under the protocol SNMP.

MAIN FEATURES AND ADVANTAGES:

- The possibility of creating the allocated, easily extended network of broadcasting quality control.
- 24/7 automatized instrumental broadcasting quality control.
- Selected audio-visual control of TV and radio broadcasting in remote points.
- Controlled stream recording, review of "broadcasting" and records through the Internet.
- 24/7 automated control of accuracy of regional AD insertion.
- 24/7 automated control of compliance of TV and radio broadcasting content with legal requirements.
- Reduce personnel expenses – full automation of monitoring, control and reporting procedures.



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MultiProbe consists of several programming modules that can operate whether jointly, actively complementing one another, or absolutely independently of each other, that allows customer to use only the features that he really needs.

MULTIPROBE ANALYSER

Module that is in charge of the instrumental control of TV and radio broadcasting parameters, which allows tracing the whole signal transmission network from studio to any remote point. Module operates with any input interfaces and types of signals as well as integrates with external receiving and measurement equipment for further characteristics. Provides instrumental analysis of AV signals and quality of digital signals of DVB-T/T2/C/S/S2 standarts, control of streaming and network QoS parameters (ETSI TR 101-290, IP statistics, meta data, EPG, subtitles, teletext and AD insertion marks), quality control of viewer perception QoE (loss of image and sound, blocking effect, frozen video and black fields, no sound, clipping of sound etc.)

MULTIPROBE VIEWER

Besides the instrumental control, for users it is essential that system provides the possibility of selected audio-visual assessment of TV and radio broadcasting quality. This module exactly resolves this problem. The system users have the opportunity of remote review and listening of both multiscreen image (the content of displayed TV and radio channels is selected on a random basis from the list of channels, available for control) and any single controlled channel on full screen. The video transmission from remote analyzer units is carried out in HLS/MPEG DASH formats.

MULTIPROBE RECORD

It is flexible integrated solution for controlled recording of TV and radio broadcasting with the functions of management and content search. It allows to record the signals from various sources and automatically connects the records with different metadata, received from EPG, teletext and subtitles or entered by user. The system allows effectively encode unzipped AV information and transcode transport streams MPEG TS using H.264 compression algorithms. All parameters of recording for each channel can be configured individually.

Several recording modes are supported:

- Ongoing 24/7 cyclic recording mode;
- Cyclic recording according to schedule or rules;
- Automatic cyclic recording of alarm events tripping.

Module MultiProbe Record is fully integrated with other modules of MultiProbe system, which means that user can instantly go to the archive from any other module referring on any event in the past, and to review this video segment. Simple export of selected video segments from the archive to the working places of users with the opportunity of transcoding to any necessary video format, highlights reel of determined length and flashing of additional information.

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