**EPG SERVER**

**EPG VS DVB STANDARD**

- **Reliable and Expandable**

The Electronic Program Guide Server (EPG Server) for the DVB Standard is a server capable of producing and generating all the necessary content to deliver the Electronic Program Guide, DVB-SI Tables and Teletext subtitles through its ASI or IP output. In order to achieve this goal, it is important to have a reliable, expandable and reasonably priced system. In this sense, VideoSwitch has developed an ideal cost-effective solution.

**HARDWARE AND SOFTWARE SOLUTIONS FOR DIGITAL TV**

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**MAIN FEATURES**

- EPG and SI (Service Information) Tables generation for DVB-C, DVB-T, DVB-S/S2 standards
- Configurable output bit rate
- System for STB software updating with schedule
- ASI and IP outputs: TCP, UDP, Unicast and Multicast
- Automatic reading of scheduled program data with configurable times
- Critical error message via email
- User-friendly and simple user interface
- Manual editing of the local channel program guide
- Configurable number of days
- Centralization capacity
- License rental (monthly payment) with minimum initial investment
- Teletext subtitles for the hearing impaired

[www.VideoSwitch.tv](http://www.VideoSwitch.tv)
### TECHNICAL FEATURES

- Tables and Descriptors Generator based on Service Information in DVB standards.
- It creates and generates dynamic and static tables in compliance with ETSI EN 300 468 y ETSI TR 101 211 specifications.
- Generation of tables for multiple transports on a unique DVB-ASI or IP output interface by means of pre-configurable PID mapping for each table and transport.
- It generates the NIT (Network Information Table), BAT (Bouquet Association Table), SDT (Service Description Table), EIT (Event Information Table), TDT (Time & Date Table), and TOT (Time Offset Table) with their respective descriptors.
- It generates EIT-P/F (Present/Following) tables, as well as EIT-S (Schedule) tables, both for the actual transport (Actual), and for other transports (Other).
- Possibility of configuring which tables to generate, as well as controlling the repetition rate of each one independently, thus accomplishing a better bandwidth use.
- Flexible configuration of the range of days in which the EPG is generated, starting at 1 to 7 days and, optionally, up to a maximum of 64 days.
- Possibility of configuring the maximum number of characters to be included in the text fields of EIT tables in a dynamic way, thus enabling the adjustment of the generated data volume, and also for adapting it to the memory requirements of Set-Top Boxes.
- Import EPG of scheduled program data as XML files and other formats (optional) through multiple access devices (e.g.: LAN, FTP, DVD, USB, etc.).

### FUNCTIONS

**Characteristics**
- Compatible with DVB SI Standards (ETSI EN 300 468, ETSI TR 101 211).
- Generate EIT-Present/Following and EIT-Schedule Tables.
- Additionally can generate NIT, BAT, SDT, TDT, TOT Tables, OTA/SSU Stream, and other user-defined descriptors, as well as Teletext subtitling services for DVB cable channels.

**Inputs**
- XML files coming from the network (LAN, FTP) or from external devices (DVD, USB).

**Outputs**
- Interface: DVB-ASI (dual) / IP (UDP/TCP).
- Connectors: BNC, 75 Ohms / RJ45.
- Bit Rate Max.: 100 Mbps (UDP) / 20 Mbps (TCP).

**Platform Proposed Server**
- Dell Power Edge Server (1U rack)
- IP-ASI Converter for bitrate management, status monitoring and automatic redundancy.
- Configuration of programming import filters, which can detect overlappings and discontinuities of the events imported for each service.
- Client/Server Architecture, with a centralized Database, and optionally, one or multiple remote editing terminals.
- Possibility of generating the EPG for more than one network, with the use of multiple instances, enabling the independent configuration of their parameters.
- STB Software updates (OTA) compliant with DVB SSU (System Software Update) standard, ETSI TS 102 006, configurable by date & time.
- It can manage multiple Teletext Clients for the insertion of Closed Caption type subtitling services on DVB cable channels.
- 1:1 Redundant server option with automatic switching and error messages via email.
- User management and user action log.
- Dynamic and intuitive graphic interface.
- Scalable and configurable.
- Support virtualized environments.