

## **Electronic Program Guide (EPG)**

TL Electronic Program Guide (EPG) system complies with DVB standard and the national standard draft on SI information, providing EPG value-added service based on the cable TV network. The system takes network and database as cores, supporting network multi-subscriber editing. EPG adopts several segmentations of automatic configured SI (Service Information) which are used in digital TV receiver, according to the definition in MPEG-2 and DVB: SDT (Service Description Table), NIT (Network Information Table) and EIT (Event Information). Extract the program list and parameters from these segmentations, and send to digital TV subscriber for display. It is a tool which makes the subscriber receive and choose digital TV programs easily.

Trough TL EPG system, it is convenient for cable TV staff to edit and broadcast EPG information and arrange one week program information, which include all channels, starting and ending time of program, program description, encryption or non-encryption, charge modes, etc. EPG receiving software platform at the receiving end will finish EPG information reception, after receiving, analyzing and processing the system service information (SI). Subscriber can scan the program guide of a period, and switch to their favorite program. They can also search favorite program from electronic program list by date, program types and other information.

TL EPG system head-end is composed by three parts: Cable TV broadcasting program planning system (Schedule Editor), program information storage and management system (Schedule Administrator), and electronic program guide broadcasting system (Schedule Player). Separation of program making and broadcasting is an important part of modern cable TV network head-end production. It has relatively separated production and broadcast, while adopt database support of enterprise customer/server mode can improve the efficiency of program producing and editing. Broadcast system extracts the required data from database automatically, and process. The producing staff just needs to store this data information into database. The structure diagram of electronic program guide head-end system is as follows:

### EPG Composition Block Diagram

