

## DIGITAL TELEVISION

# IPTV Metadata Server

### Generation and delivery of SD&S and BCG metadata

IRT's IPTV Metadata Server provides all necessary metadata information to run IPTV services compatible to the DVB-IP standard (ETSI-TS 102034 v.1.3.1), or to another IPTV specification based on aforementioned standard (e.g. Open IPTV Forum). It delivers all required Service Discovery and Selection (SD&S) records and EPG data for Broadcast Content Guides (BCG, ETSI-TS 102539 v.1.1.1) via both delivery mechanisms, http and multicast.

Direct input of static SD&S information is supported via web-based user interface, external data sources can be integrated at request. EPG/BCG data is generated either from DVB-SI out of conventional DVB tuner cards (DVB-S/C/T) or IP interfaces, or from externally provided metadata (TV-Anytime or other formats).

The IPTV Metadata Server is ideally suited to integrate with IRT's DVB Playout Server to provide a

IPTV server system for both video and audio streaming with metadata support.

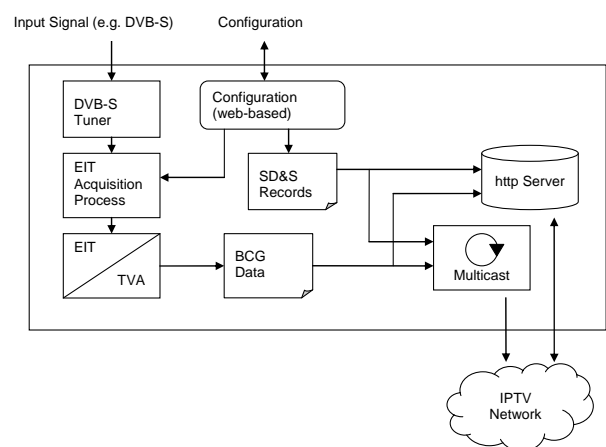


Fig. 1: Workflow schema of IRT's IPTV Metadata Server

## Key features

- Provides all necessary metadata to run IPTV services compatible to the DVB-IP standard (ETSI-TS 102034 v. 1.3.1), or to another IPTV specification based on aforementioned standard
- Includes required Service Discovery and Selection (SD&S) records and EPG data for Broadcast Content Guides (BCG)
- Automatic backup-solution (optional)
- Runs as a stand-alone system
- Integration into your own system on request
- Features of the stand-alone system:
  - supports direct input of static SD&S information via web-based graphical user interface
  - generates BCG data from conventional DVB tuner interfaces (DVB-S/C/T) and from IP-interfaces
- Features of the integrated system:
  - Import-support of
    - TV-Anytime EPG data from external sources, and
    - external data sources for SD&S information (XML preferred) on request
- Supports both delivery mechanisms via unicast (http) and multicast (DVBSTP)

- Provided SD&S Records:
  - Service Provider Discovery Record
  - Broadcast Discovery Record
  - Package Discovery Record
  - BCG Discovery Record
  - Planned: Logical Channel Numbers, Application Signalling, FEC Signalling
- Provided BCG Data:
  - Schedule
  - ProgramInformation
  - GroupInformation


## Technical data

### Platform (sample configuration)

- 19"-server, 1 height unit (Fujitsu-Siemens Primergy, or comparable server)
- Ports: 2 x Ethernet 1000Base-T, 1 x VGA, 2 x USB 2.0, 2 x PS/2 for mouse and keyboard, and 1 x connector for DVB input signal
- RAM:  $\geq$  2GB
- HD: SATA

### Software

- Operating system: Windows Server 2003
- Software updates: Via FTP or direct access (e.g. remote desktop connection, VNC server)



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