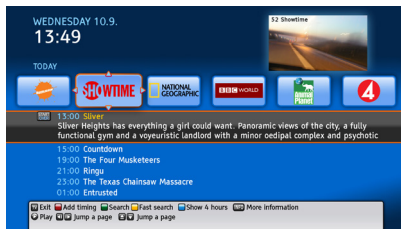# TELESTE BROADCAST MANAGER 64-BIT

EPG & PSI/SI Generator

TELESTE

Teleste Broadcast Manager 64-bit

Teleste Broadcast Manager is a complete PSI/SI, Electronic Program Guide (EPG) and Bootload management server. With Broadcast Manager you can manage all service, multiplex and network related configurations and deliver EPG information and set-top box software updates.

Program guide with service information from Broadcast Manager

Powerful performance

The 64-bit Broadcast Manager comes with improved performance, capacity and reliability. With the latest technology you can be sure your server is secure and all the potential of the hardware is utilized. The 64-bit environment provides more memory space allowing the users to have e.g. more EIT data. The improved background processes bring more features and tolerance for possible errors in the input streams.

Skip routine work with automated processes

You can eliminate routine work with Teleste Broadcast Manager by automating the network configuration and updating processes. The quality of the network output is improved and there will be no unexpected complications in the services.

Flexibility for your needs

Teleste Broadcast Manager consists of EPG, Network and Bootload modules, which are all used for different PSI/SI management tasks. Broadcast Manager is fully DVB-C, DVB-T/T2 and DVB-S/S2 compliant, fulfilling all the requirements set by the standards. By default, it can serve various network types and their combinations.

Management window of EPG information

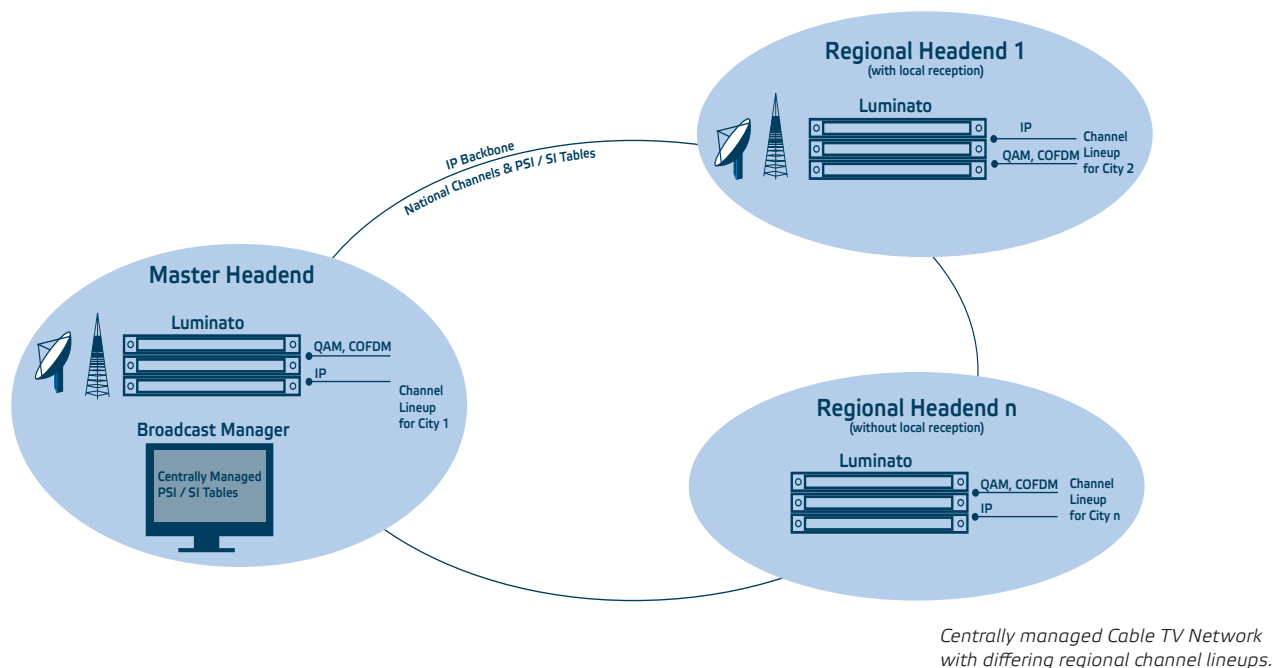## Easy integration to various network architectures

One Broadcast Manager server can handle tens of multiplexes and hundreds of services in various types of networks. It can utilize input from IP and is DVB-C, DVB-T and DVB-S compliant, allowing the operator to enjoy high adaptability and easy integration. Broadcast Manager adapts to almost any network architecture, including small and large head-ends, based on central or regional broadcasting and whether the system is IP-only, hybrid DVB + IP, or DVB-only.

Versatile EPG functionalities

The schedule information for EPG can be taken directly from an incoming satellite, cable or terrestrial DVB stream, fetched regularly and automatically from an external EPG data suppliers' server or imported from a file in various different formats. The EPG content is gathered automatically in a database and sent to multiplexers. The system can send the EPG information even if the real-time source is not working, enabling subscribers to use their EPGs and PVRs at all times.

The operator can easily change any information in the EPG database: add or change genre and parental ratings, add descriptions and re-schedule information in case of delays. You can also save broadcasting bandwidth by removing irrelevant information (descriptors, languages), by shortening the schedule or by organizing the schedules to a barker channel.

Centrally managed Cable TV Network with differing regional channel lineups.

Ease of usage with a graphical user interface

An easy-to-use graphical web user interface allows remote configuration and maintenance. The Wizard view guides by setting parameters for an entire network with multiplexes and services, while leaving all the values well accessible for the user. In addition to Wizard view, the alternative Table view provides means to modify, import and export tables in a traditional way showing the table hierarchy.

Robust operations for uninterrupted service

Broadcast Managers can be linked to each other hierarchically in order to ensure reliable service delivery. This is crucial, especially in case of limited backbone connection between main and regional headends. In such case, all Broadcast Managers receive and ingest content locally, but Broadcast Manager running on a main headend provides configuration information to regional Broadcast Managers. This makes maintenance much easier and, more importantly, ensures uninterrupted service.

Updating set-top boxes made easy

Set-top box software updates (Bootloads) can be broadcasted with Broadcast Manager. Set-top box manufacturers publish new software releases on a regular basis and it is important to have the software updated in order to guarantee high quality service.
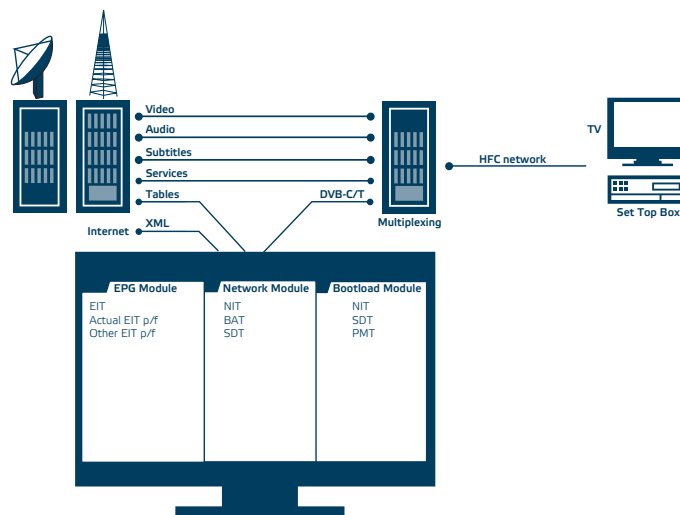
Broadcast Manager can update set-top boxes from all possible manufacturers. It is capable of managing hundreds of simultaneous updates, which can all be scheduled individually and have different versions for different network segments.

Versions

There are two versions of Broadcast Manager for different needs: Broadcast Manager Unlimited and Broadcast Manager Basic. As the name says, the Broadcast Manager Unlimited can be used to control unlimited number of networks, making it ideal e.g. for a customer operating several networks. The Broadcast Manager Basic is for operating up to 3 networks, so it is suitable for one operator having for example 2 real networks and one test network.

Broadcast Manager key features

- HD and SD support in MPEG4 and MPEG2
- DVB-C, DVB-T/T2 and DVB-S/S2 compliant
- EPG information from various sources and formats
- IP support
- Automatic dynamic service update
- Dynamic Conditional Access System control
- Easy-to-use web-based user interface
- Wizard and Table view
- Bitrate management for optimal bandwidth usage
- Support for almost any language
- Independent of multiplexer vendor
- Adjustable table generation intervals
- Adjustable automatic system backup
- All-in-one server hardware

Teleste Broadcast Manager input/output interfaces

Parameter	Value	Note
Network		
Elements	Broadcast Manager Unlimited - unlimited networks / Broadcast Manager Basic - up to 3 networks	
Sub-headends	up to 20 sub-headends -	Broadcast Manager Unlimited only
Table edit capabilities		
Network information table (NIT)	Yes	As specified in ETS 300 468
Program Association table (PAT)	Yes	As specified in ETS 300 468
Program Management Table (PMT)	Yes	As specified in ETS 300 468
Bouquet Association Table (BAT)	Yes	As specified in ETS 300 468
Service Description Table (SDT)	Yes	As specified in ETS 300 468
Event Information Table (EITp/f,schedule)	Yes	As specified in ETS 300 468
Table editing capacity		
Storage	up to 250 GB	
Input/Output	up to 500 streams	Up to 50 EIT service Ids per PID
	Note: Exact capacity depends on the details of the services. More information in a separate document available on request.	
EPG information		
Import/Export formats	DVB,XMLTV, XML,XLS, text, proprietary	via converter
EPG importing system	PPV,NVOD systems	optional
Bootloading capacity		
Supported bootload types	TS Streams	
Simultaneous streams	up to 100 different streams	
Redundancy		
1+1 redundancy	Yes	active with passive backup
Input/Output Interfaces		
IP	4 / 8 ports	1000Base-T, Full Duplex
ASI		ASI output with Luminato ASI out module & Broadcast Manager
Management Interfaces		
Web interface	HTTPS	HTML 4.01, Javascript 1.5
Management and monitoring		
SNMP	v1/v2c, MIB-II, Host Resources MIB, traps	
Remote access	HTTP	
Self diagnostics	Automatic HW diagnostic software driven when device is restarted	
Hardware		
Form	Rack 1U	Up to 42 units per standard 19" rack
Supply voltage	230 VAC / 50 Hz	

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