TELESTE

Product Specification / Teleste MyCast

IPTV Service System

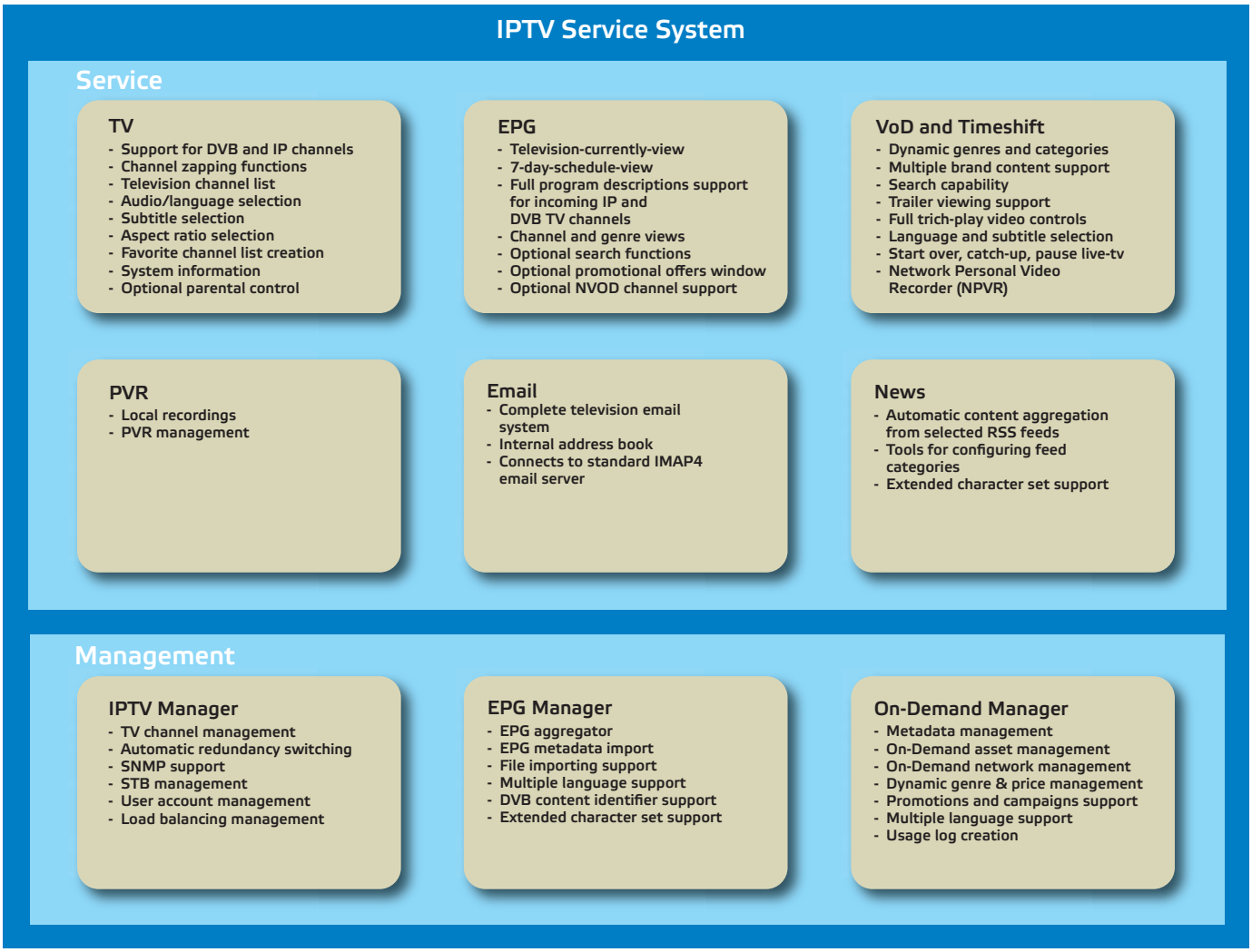
IPTV Service System

Teleste My Cast is a solution for managing and distributing TV channels and services in broadband networks. It is an end-to-end solution for creating new IPTV services from the scratch or for enhancing existing ones. It enables fast time-to-market, integration with existing solutions, turn-key services that improve customer loyalty and flexible content creation with standard web authoring tools.

Teleste MyCast supports DVB and IPTV solutions as well as hybrid DVB + IPTV, where TV channels can be broadcasted via DVB, while VOD and interactive content are provided via IP connection. The solution is designed to work seamlessly with almost any hardware system configuration. This makes it ideal for operators who are expanding to IPTV services. It enables the creation of wide variety of on-demand, enhanced TV, entertainment, information and communication services. Teleste MyCast has intuitive user interface and it integrates services with head-end equipment, subscriber management, billing and any other systems through open and well documented API's.

Block diagram of the IPTV Service System. The solution has modular architecture and more services can be added later on.

Teleste MyCast can be divided to end-user services and management tools. The solution has modular architecture and more services can be added later on as the system grows by utilizing advanced API's. Service applications consist of end-user services provided to subscribers and management applications for operators with full control over the services management.

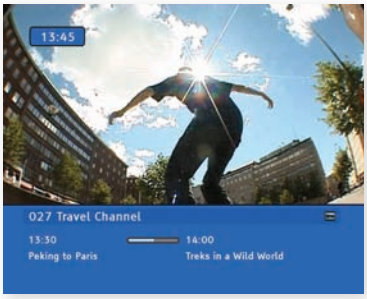


Television

TV application provides regular advanced TV features. The application presents channel name together with program information and lists all available channels, from which the desired TV channel can be selected quickly. TV channels can be distributed to set-top-boxes via IP or DVB connection or by using hybrid DVB + IP solution.

The Main Menu lists all the available services in a intuitive list which is easy to navigate. The services, menu structure and its look-and-feel can be modified with the Menu Manager tool. Settings enable users to select audio tracks and subtitles in the programs, change aspect ratios, menu language, favorite channel lists and parental control configurations.

The channel Info shows channel number and name, program title and duration time.



Channel Info view

Electronic Program Guide

The Electronic Program Guide provides information of television programs weeks ahead. The programs can be listed by channel and genre with support for seven days or longer EPG information. The service works automatically as the program information is based on EIT tables from incoming DVB networks. Program information can also optionally be imported from Excel, XML or text files.

EPG Module gathers automatically all the information to a database, re-creates the tables to match the multiplexing settings and sends them to the multiplexers. The system can send EPG information even if the real-time source is not working, enabling the subscribers to use their EPG's and PVR's at all times.

The classic and advanced EPG shows program shedule from several channels.

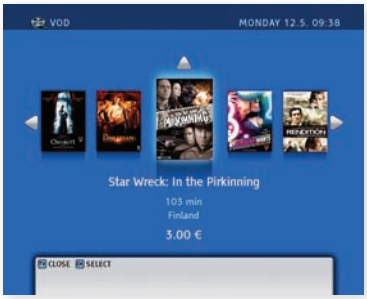
Electronic Program Guide

Video-on-Demand and PVR

Video-on-Demand enables operators to offer premium content to their subscribers with pay-per-view, monthly subscriptions or other business models. The VoD content and metadata is inserted to the management interface while the application creates and presents the VoD portal to the user, connects to subscriber management and billing systems for the payment and controls the video servers for the video delivery. All leading video servers can be integrated to the service. The service has an open API to subscriber management systems or it can be integrated to existing systems.

PVR brings full local recording functions and PVR management interface to end-user with IPTV set-top-box having a local hard drive.

The VoD view shows description of the movie and lets the user to order it.



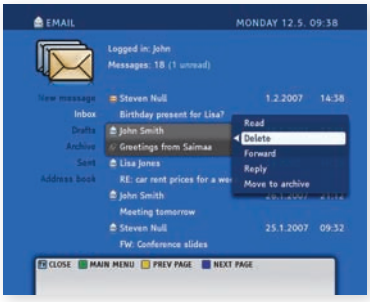
Video-on-Demand

E-mail and News

E-mail application is a complete e-mail system in television, which allows end-user to easily send and receive e-mail messages. The user interface is specially designed for television screen and is an ideal solution for people with no prior e-mail account or experience in e-mail services. The service can be connected to operator's IMAP4 mail server.

News application provides end-user with e.g. news, weather and other information automatically. It reads the RSS feeds from the Internet and display the content on TV screen.

The E-mail application include also a image viewer to view attached photos and images.



E-mail application

Technical specifications

Parameter	Specification	Note
Content		
Markup Language	HTML 4.01, XHTML 1.0, XML 1.0	
Cascading Style Sheets	CSS1, CSS2, CSS3 (partly)	
Document Object Model	DOM1, DOM2, DOM3 (partly)	
Images	GIF, JPG, PNG and Animated GIF	
Javascript	JavaScript 1.5, JavaScript extensions for enhanced TV	
Streaming video	MPEG-2, MPEG-4 (H.264) and VC-1	
Audio	MPEG (Layer 1,2,3), PCM, AC3	
Rich Media	Macromedia Flash	Optional
TV formats	4:3 and 16:9 formats	PAL-B, NTSC-M
Supported set-top boxes		
Motorola / Kreatel	1500, 1700 and 1900 series	
Amino	AmiNET 1x0	
Other manufacturers	Motorola, SA, Thomson, etc.	On request
Subscriber authentication & management		
Authentication	IP and MAC address, Unique serial number, CA card, pin-code, passwords	
Subscriber management systems	Dataprism Vision or any other subscriber management system	
Supported protocols	XML-RPC, RADIUS, LDAP, SOAP	
Conditional Access Systems	Conax or any other CAS system	
Digital Rights Management	Conax or any other DRM system	

Parameter	Specification	Note
Electronic Program Guide		
Incoming EIT handling capacity	200 multiplexes	1000 channels
Program information source	PSI/SI, XML, XLS and text files	EIT p/f and schedule, BAT tables
Video	no video, 1/4 screen and 1/16 screen	
Program search	date, genre, channel, search words	
Channel change inside the guide	Supported	
Management and monitoring		
SNMP	v1/v2c, MIB-II, Host Resources MIB, traps	
Statistics	users, channel viewing, service usage, server load	
Remote access	telnet, ssh	
Self diagnostics	Automatic HW diagnostic when device is restarted	
Alerting	Alert Standard Format 2.0	
Network		
Addressing	IPv4	IPv6 ready
Protocols	TCP, UDP, RTSP, IGMP, ICMP, HTTP	
Connection implementation	SSL (ver. 3.0, 64 and 128 bits), VPN, Simulcrypt, PKI, Macrovision 7.01	
Servers		
Form	Rack 1U or 2U / 28" deep	Up to 42 units per standard 19" rack
Supply voltage	230 VAC / 50 Hz	

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