NAYAtel

IPTV Solution

Overview:

Nayatel's IPTV solution enables service providers to roll out IPTV services instantly without installing STB at customer's end. The tested and proven solution empowers operators to seamlessly integrate Live TV channels, Video-On-Demand (VOD) content along with Over-the-Top (OTT) Internet content and deliver unparalleled customer viewing experience, with or without adding a STB at customer's end. Smart TV app for Android TVs can be easily distributed through Google Play Store and content and billing can be managed using friendly Nayatel IPTV middleware. The solution consists of IPTV middleware servers, 4K Android set top boxes (optional), HD streaming over PC and mobile devices, HD Video on Demand servers, satellite channel receiving setup, solid state video streaming servers, easy to use middleware server for content/billing management and most advanced HLS, RTSP with multi-cast support streaming protocols. The solution works with standard hardware provided by third party vendors.
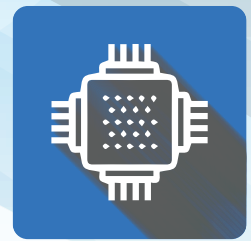
Features:

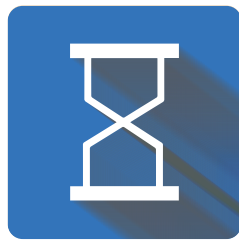**Android TV App**

Secure user and STB Authentication

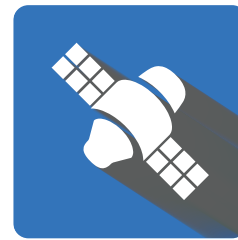**Smart Set-Top-Box with Android OS**

Quad-core 64-bit ARM® Cortex™-A53 (STB)

Integrated VOD and LIVE TV Web Portal and Mobile Apps

Integrated Adaptive Bitrate, Supports HLS, RTSP and MPEG-dash (web)

Supports HD TV channels with Unicast or Multicast Streaming

Easy to use Content Management and Billing application

User-friendly TV, Web and Mobile Interface.

Integrated SAN solution for unlimited data storage

Powerful Streaming Server with seemless load balancing. Supports upto 500 concurrent HD sessions.

IP based satellite receivers and transcoders .

Integration with third-party billing applications

Supports Unlimited IPTV subscribers
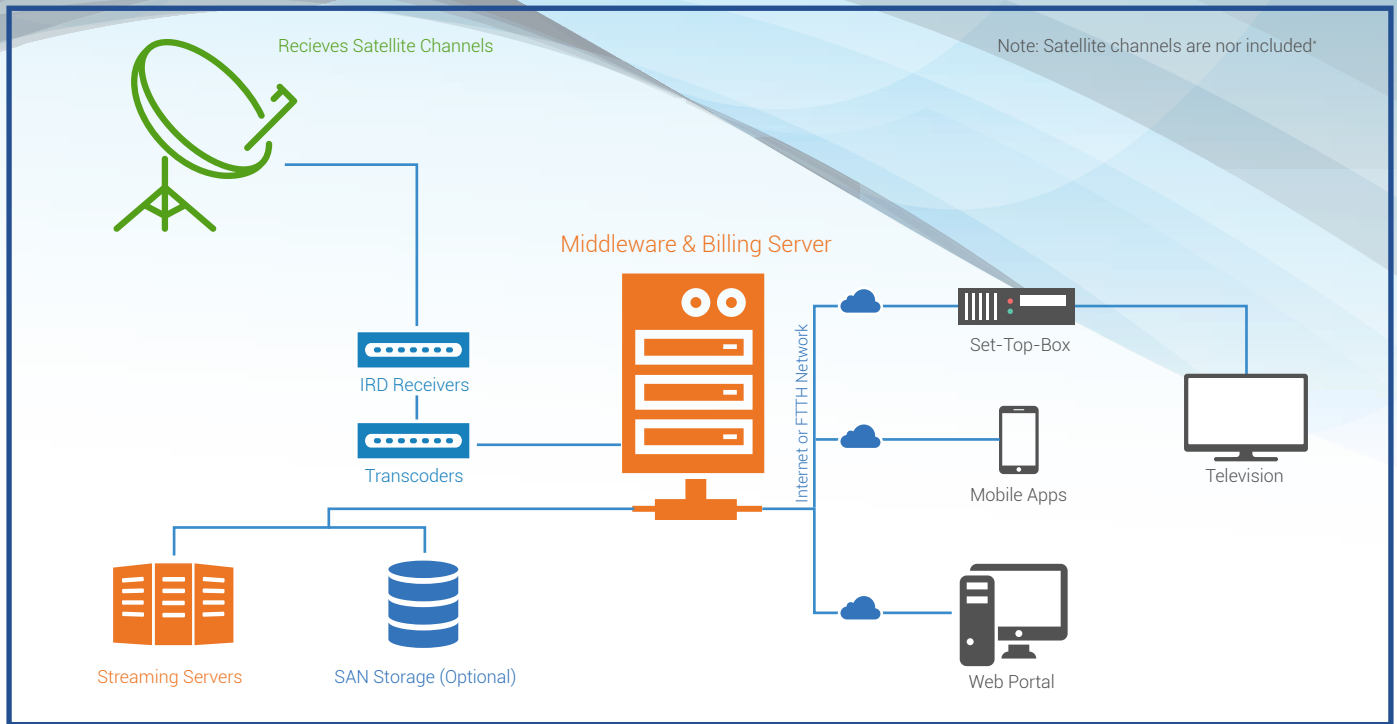
Parental Control

High efficiency video coding.

Fast VOD loading and Channel Switching

Advanced Usage statistics reports

Timeshift on Live TV Channels

Recieves Satellite Channels

Note: Satellite channels are nor included*

Middleware & Billing Server

IRD Receivers

Transcoders

Internet or FTTH Network

Set-Top-Box

Mobile Apps

Television

Streaming Servers

SAN Storage (Optional)

Web Portal

Specification:

1. Middleware & Billing Server

An IPTV Middleware system is the most important element of an IPTV headend. It connects all IPTV services with IP set-top boxes, smart phones, and PCs. Nayatel's IPTV Middleware provides graphical user interface (GUI) to manage content such as TV channels, EPG (coming soon), Video on demand, Subscribers details, billing details, plans and packages details. Unlike other Middleware solutions in the market, our Middleware system is based on 100% open source technology which makes it reliable as well as easily extendable according to your future needs.

Following are the salient features of Nayatel Middleware System.

- Easy to use web based content management system (CMS) to manage channels and Video on Demand (VOD) content.
- Manages content by categories/genres
- Manages users, plans, subscriptions, and billing from integrated CMS.
- Allows integration of 3rd party billing application with Nayatel IPTV Middleware with the help of API or web service.
- Allows multiple administrators and moderators to manage content and other middleware modules.
- Assures complete security of data with Nayatel Firewall and end to end encryption.

2. Transcoders

Transcoding is as important as other elements of successful IPTV services. We suggest transcoders according to your requirements to ensure smooth IPTV streaming.

The Unified Platform

A modular device design to cater your decoding, transcoding and IP encoding needs. 1-RU device that can have 6 cards as per requirement of each customer hence saving the hassle of multi-platform transcoding and decoding equipment.

3. Streaming Servers

Our solution is integrated with the most efficient media delivery streaming server in the market. It can transmux, stream and re-stream following formats and protocols

- HLS, MPEG-DASH, RTMP, RTSP, MPEG-TS.
- VOD has MP4 for HLS VOD, MPEG-DASH, progressive download and more.
- H.264 and H.265 for HLS and MPEG-DASH.
- Everything is handled with low resource usage and high performance. It is available for x64, ARM and POWER8 via Linux, Windows, MacOS and RaspberryPi along with load balancing feature

4. Set-Top-Box

Keeping your customer's satisfaction and peace of mind in view, we have chosen premium Set-Top Boxes equipped with powerful Amlogic chipset that guarantees high performance while processing intensive applications. It supports video formats in FullHD, UltraHD and 4K. It is powered with Android and bundled with complete entertainment pack such as smart apps, games and smart content sharing.

5. Mobile Apps

Mobile TV usage is increasing with the rapid growth of 3G, 4G and LTE technologies. According to the Harvard Business Review, the growing adoption of smartphones allowed users to watch as much mobile video in three days of the 2010 Winter Olympics as they watched throughout the entire 2008 Summer Olympics.

With Nayatel's IPTV Solution, your customers will be able to use interactive and user friendly VOD and Live TV mobile apps on cross-platforms such as Android and iOS handheld devices. Apps can be customized with your own branding which includes, logo, color skins, etc.

6. Web Portal

Nayatel IPTV Solution is bundled with responsive web portal for video on demand content and Live TV steaming.

- HTML 5 based responsive cross device and browser friendly interface.
- HTML 5 player with support of HLS, RTSP and MPEG-dash streaming.
- Compatible with Google Chromecast.
- Easy publishing system for channels and VOD content.
- W3C compliance standards.
- Integrated with IPTV Billing and Middleware Server.
- Pay per view and monthly subscription support.
- Customized WordPress solution with 100% open source script.