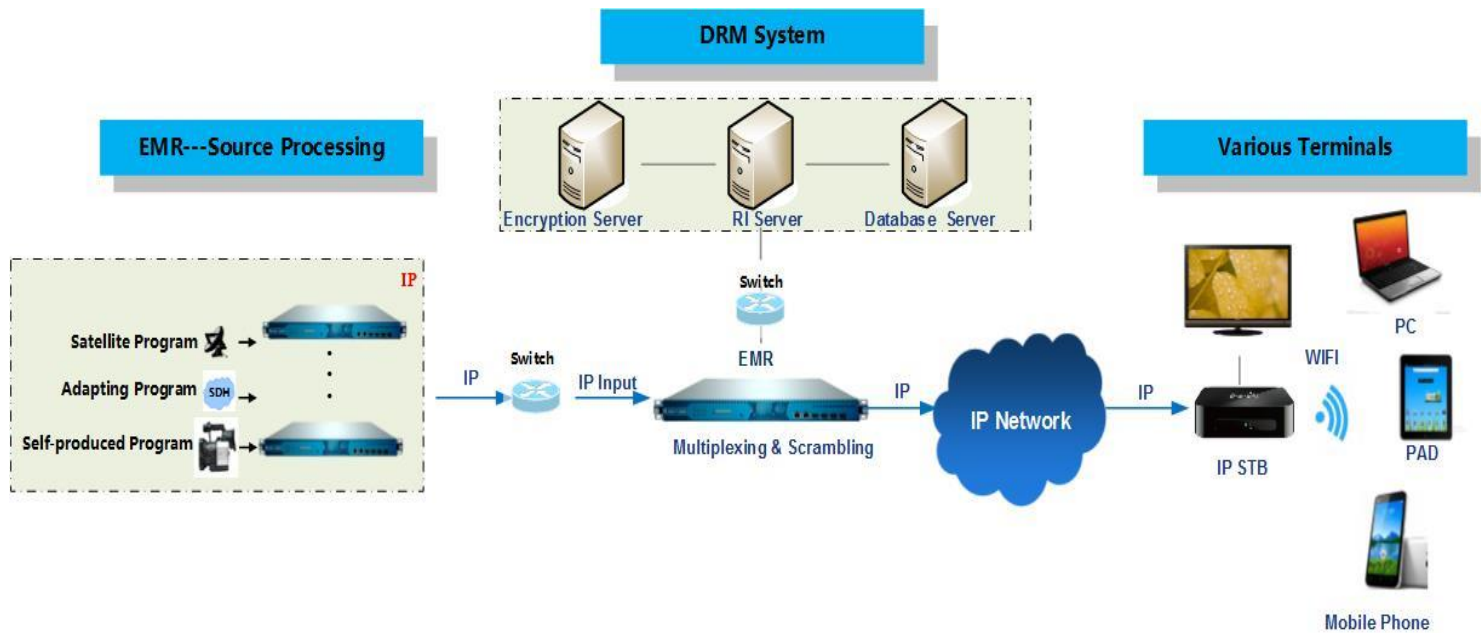


DRM Solution For Broadcast IPTV



Sumavision DRM is an innovative media security TV program control system developed by Sumavision company, which can provide efficient and flexible security using control for various types (e.g. file, real time stream) of multimedia resource (e.g. video, audio, picture), in different types of network TV (e.g. IPTV, network TV, bi-directional cable TV, mobile TV), thus can protect the interests of copyright holders (e.g. authors, content provider, business operators).

This Solution is designed particularly for broadcasting programs of IPTV. As the programs are distributed by multicasting, they can be received by terminal IP STB directly, as well as sharing to other mobile terminals, meanwhile the bandwidth can be saved to a large extent.

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Features:

- The whole solution can be provided by **Sumavision**, including both hardware and software
- **Customized for IPTV terminals:** broadcasting programs can be received by IP STBs directly after scrambling
- **High processing capability:** support at least 1,000,000 terminal users per system
- **Brilliant flexibility for authorization:** per view, per time, per time interval
- **Fantastic content sharing experience:** with intelligent domain sharing features, massive contents can be shared by various types of terminals, entertainment will not be limited by location or time any more.
- **Easy integration:** the system can provide external interface based on Web Service, which makes it easier to integrate with SMS/BOSS
- **Super security:** the system can provide excellent identity authentication mechanism and encryption transmit mechanism, all data transmitted in un-secure network are high intensity encrypted and all secret keys are protected

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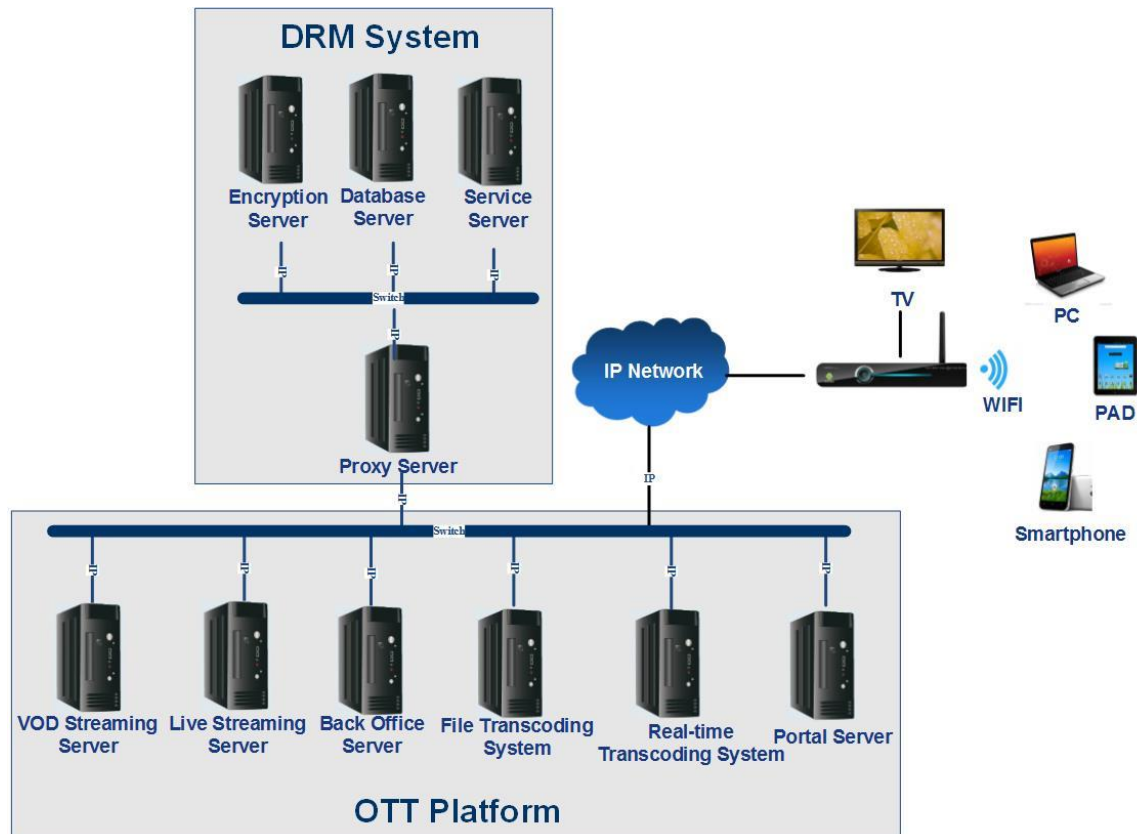
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Sumavision OTT+DRM Solution



The ability to access any content at any time from any device has become a universal requirement from consumers. Sumavision's OTT+DRM system is a high security, innovative platform which helps to enhance operators' core competence and bring wonderful user experience by enabling quickly deploy a multiscreen system and protect all valuable content simultaneously.

Sumavision's OTT+DRM system securely enables TV content delivery across today's multiple terminals, from hybrid and OTT STBs to open devices including PCs, tablets and smartphones, aiming to offer end-users seamless viewing experience.

The OTT platform includes live and file transcoding system, live and VOD streaming system, back office system (CMS, OSS, AAA, CPM) as well as portal.

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For the transcoding system, various video and audio formats are supported, including MPEG-2, H.264, H.263, MPEG-4, WMV, AAC-LC, HE-AAC, AC3, MP1/MP2/MP3, DTS, etc. For the streaming system, different protocols are supported, including HLS, HDS, RTMP, MSS, RTSP etc.

In order to control content consumption and distribution, all transcoded live and VOD programs are encrypted by DRM system. When the program is ordered, license center will deliver corresponding key to legal end-users to decrypt the program.

DRM system includes service server, encryption server, database server and proxy server. It adopts industry leading CSA and AES-128 algorithm for content encryption. Besides, as part of its enhanced security mechanism, live program's secret key refreshes every 10 seconds, each VOD program has unique key and all secret keys are protected by PKI system.

OTT Features

- Multi-terminal Support: smartphone, PAD, STB, PC
- Video Service: live broadcasting, VOD, time-shift, back reviewing, offline viewing, EPG, program recommendation, etc.
- Personalized Feature: collection, play history, ranking list, search, broadcast reminding, cloud synchronization, etc.
- Interactive Feature: mobile remote controller, input keyboard, voice control, photo pushing, twitter sharing, etc.

DRM Features

- Program level encryption (live broadcasting, VOD), support multi-terminals
- Support single device/ domain authorization management
- Support flexible authorization modes, including pay per time, pay per view, and pay per month; support free preview, pre-authorization
- Compatible with international standard Marlin, OMA and support China DRM

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