VOD

Compunicate Interactive Service Platform and Solution

As an extensive products manufacturer and solution provider in Digital TV head—end market, according to triple play, high definition interaction, "use" TV ideas, Compunicate focuses on building the interactive TV solutions which integrate standardized, open, expansible and flexible features.
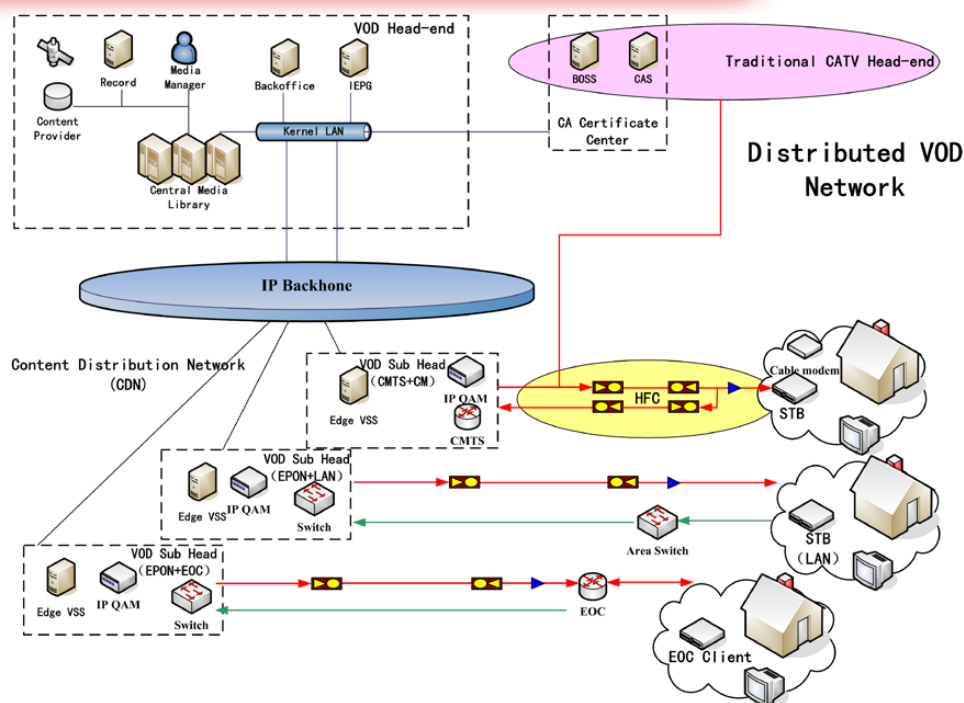
Compunicate Interactive Service Platform carries on the technical advantages of CTI's VOD system and strictly abides the standard system to create the application module and build the unified solutions consistently. The product line of the system equipment covers from program collection and encoding, program management, content protection, webpage design, video on demand and billing system, which enable the operators to arrange the profit on demand service efficiently, rapidly, economically and flexibly. The modular function components provide a more convenient way to expand your system.

Compunicate VOD Solution Features

- The system can simultaneously support 100,000 users' on demand request
- Back office system to provide solutions for session management and module resources arrangement
- Completely customize VOD user interface
- Sever output support dynamic load balance, resources can be under control online and real time
- Apply to multiple compression formats, such as MPEG—2, H.264 and AVS, and HD/SD program materials
- Modular platform has clear workflow and can save system resources
- Support the application of VOD, time—shifted TV replay (TSoC), nPVR and so on.
- Targeted advertisement can be inserted into the start position or end position of VOD session requested by users
- Multi—user online on demand, user billing management, user status tracking and other functions
- Support dynamic allocation and management of broadcasting resources, compatible with mainstream NGOD/ IPTV/ ISA/ DOCSIS interface specification
- Support RTSP and SSP protocol to control subsystem, which has good openness and remarkable compatibility.
- Developed by our R&D team with over ten years experience in digital video on demand business of operators. The independence of research and develop can guarantee the update according to custom requirement.

The Main Application Module of Compunicate VOD Solution

- Video on demand (VOD)
- High definition TV on demand (HDTV on Demand)
- Cloud basis personal TV record (nPVR)
- Time-shifted television (TSoC)
- Program replay
- Targeted AD insertion
- Music Karaoke on demand
- IPTV

The Module Component of Compunicate VOD Solutions

Task Management System
Manage the system content, streaming media resource and database resource; Control the setup and release of session and the broadcasting life circle; Allot and manage broadcasting resources, encryption resources, web resources and edge resources.

IEPG Navigation
Generate custom portal of operators, individual navigation program list, identify and check the users.

Video Streaming Server
One server supports 4 GbE ports for load balance streaming and 640 concurrent steams in maximum. The system can be flexibly expanded with server cluster and disk array. The video streaming server module support the dual mode, dual strategy of forward, backward, pause and other PVR operations for demanded programs without limit of speed. There are several locations in the VOD session to insert targeted advertisements for maximum value.

Time-shifted Record & Playback Module
Digital recording platform is designed for complicated network environment which can record and transcode streams according to EPG information, and has priority of services. Without manual recording and cutting operation, the system can provide reliable and stable replay services and comprehensive interactive experience for users, including time-shifted TV (TSoC), program replay and cloud personal record function (nPVR).

Subscriber Management System
Unified management of user information, product information, orders information, local charges etc. Provide customizable interface to integrate with BOSS of operators.

Asset Management System
Manage the storage of the content assets and metadata definitions. Standard assets publish method and several content migration methods including local, share, FTP, real time stream etc. Guarantee the content to be distributed to the corresponding node efficiently and stably, in order to provide the broadcasting service on time.