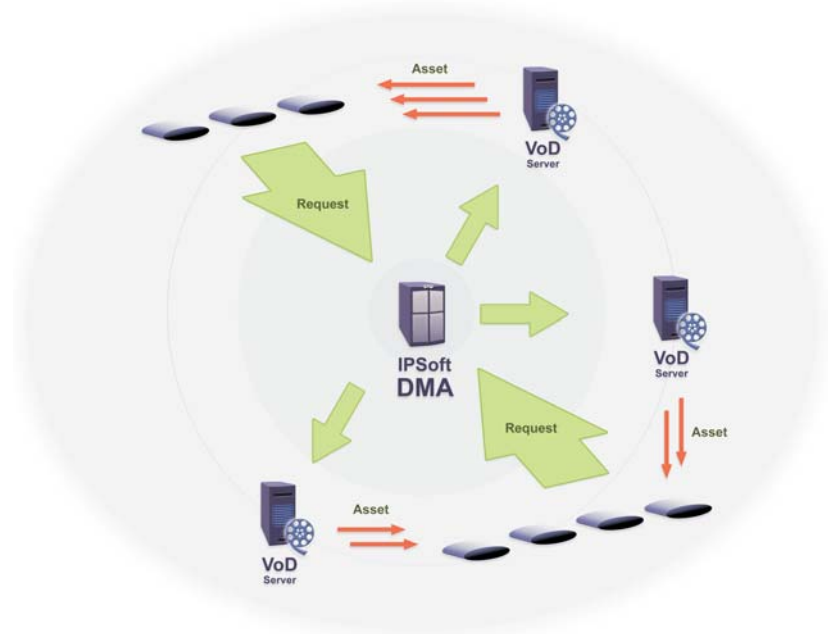


Large operators and content-providers are investing a lot of money in networks and local operators acquisition. This activity encourages distributed network infrastructure development. Operators need to find new intellectual tools to manage resource, content and services distribution.

IPSoft Distributed Media Architect (DMA) – media content distribution management system is designed to be a unique tool to provide flexibility and redundancy of such an important IPTV service as Video on Demand (VoD). Netris web-application enables to optimize networks and reduce number of VoD servers.

How it works?

IPSoft DMA proxies and redirects RTSP requests in IP-network. Subscriber's STB applies to IPSoft DMA server, which in its turn redirects or proxies the request to the nearest available video server. After it an asset is referred directly from VoD server to STB. DMA server keeps connection with every VoD server in the network and reacts immediately on a server failing.



IPSoft DMA Benefits

High Level of System Fault Tolerance

Every Network VoD server has an IPSoft DMA agent so central DMA server always has actual information on the state and loading of VoD servers. During a movie watching a subscriber doesn't notice a server failure because the stream will be immediately recovered from the nearest available server. For a subscriber it will be as a second movie pause on the TV screen.

Scalability

IPSoft DMA provides reliability with any number of video servers.

Multibrand System

Application is designed to be an integration link which understands RTSP dialects of any video server. It enables to combine different VoD server brands according to operator interests.

Part of IPSoft End-to-End Solution

IPSoft iVision and IPSoft Mediation Platform are proven IPTV solution components which enable to broad DMA functionality and raise system reliability.

Intellectual Content Distribution

IPSoft DMA runs content distribution from central VoD server to local servers according to movies popularity.

Integration

Web-application can be easily integrated with system components including any middleware.

Cost Reducing

As IPSoft DMA enables to optimize number of VoD servers and use different brands. It can reduce investments in network and equipment.

Key Features:

- Proxing and redirecting STB requests;
- Variety of settings to connect STB and VoD server: IP-address, mask, group of IP-addresses;
- Central management of all processes;
- Statistics collection and storage. IPSoft iVision provides information on content popularity;
- Content rotation from central video server to local servers depending on movies popularity;
- Multicast content distribution from from central video server to local servers;
- Asset availability checking.

Architecture

IPSoft DMA is divided into DMA Core and DMA agent. DMA Core server (cluster for redundancy) manages the processes. DMA agents are launched on the local video servers. DMA agents understand different RTSP dialects and are responsible for content distribution on local servers.

Software and hardware requirements

Hardware:

Processor: Intel Pentium 4 2GHz ;
RAM memory: up to 512 MB;
Network adapter 1 Gbit/s.

Software:

JAVA-applications support;
Java Virtual Machine

Netris Product Portfolio:

IPSoft iVision IPTV Middleware
IPSoft iVision Hosted Edition
IPSoft Mediation Platform
IPSoft DMA
IPSoft Order Management System
IPSoft Debt Collection



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