

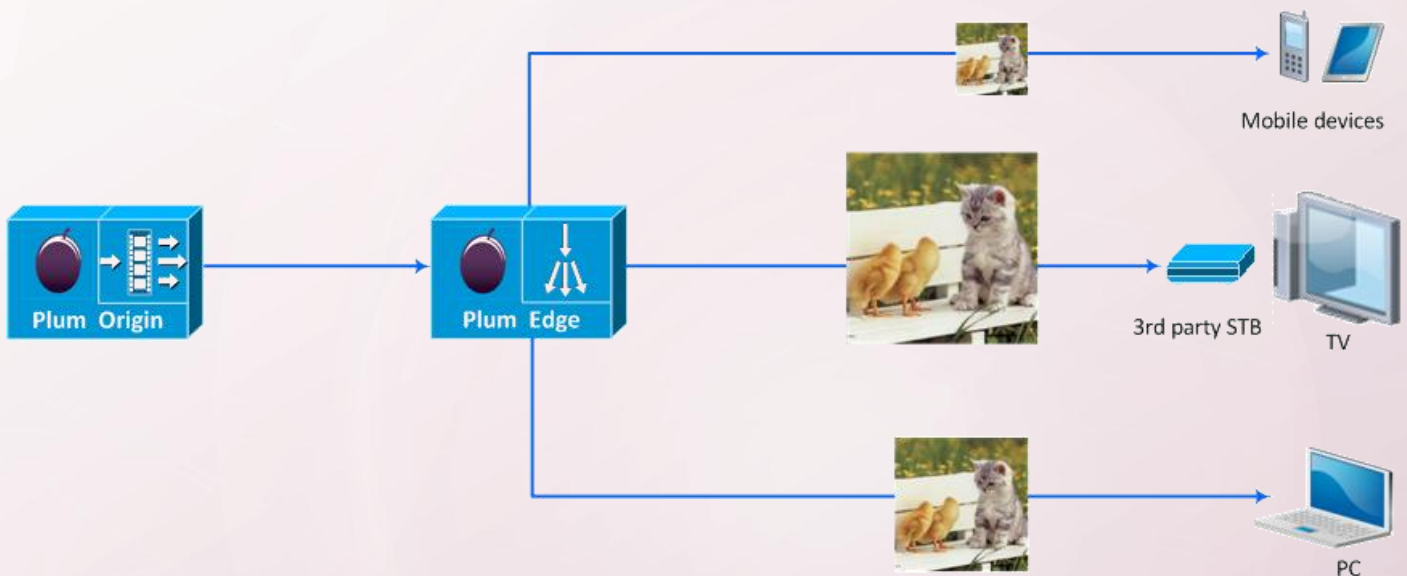


PLUM

Edge server

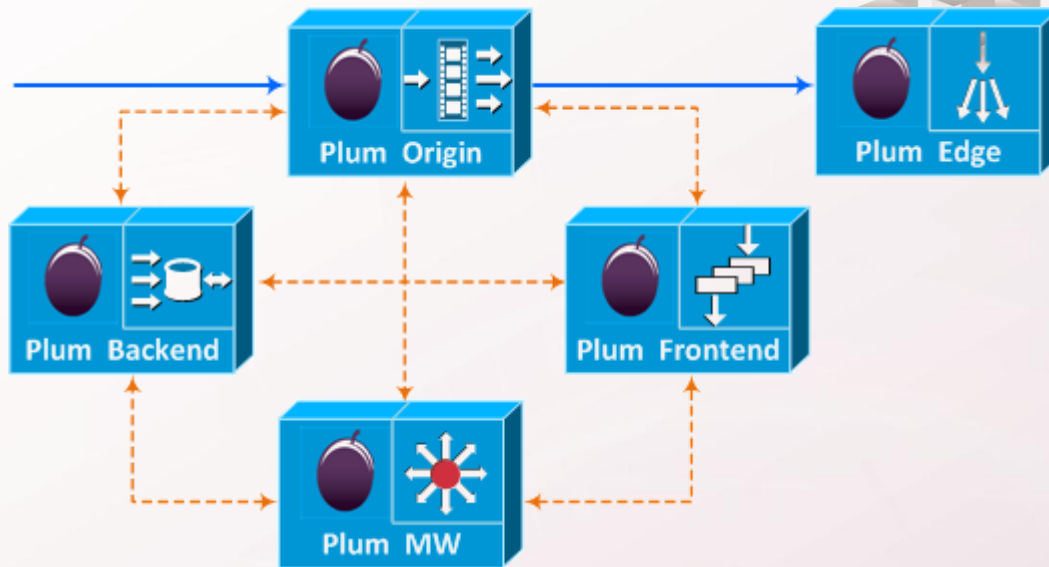
Plum Edge server is a streamer of newest generation. Using ABR, a technique for streaming of multimedia content, Plum Edge is delivering content to STB, desktop and laptop (MAC, Windows) devices, mobile and tablet devices (iOS, Android). The streamer has very simple and intuitive web interface where all the settings by administrator are done.

Scalability for Plum Edge server is achieved simply by adding another device, also an extra device can be used as a redundancy depending on operators preferences. The multiple streamers can also be used for load-balancing.





Plum Edge as part of Plum OTT solution:



Basic functionality of Plum Edge server is streaming of content to end users. When user sends request for content, that request is sent directly to the Origin server which then assigns one Edge server to the user and sends the user his IP address. Streaming of live, Timeshift, Catchup TV and PVR content is going through Edge server to the end users.

Plum Middleware (+Frontend, +Backend), Origin server and Edge server are one whole, but Transcoder can be a third party solution.

Supported protocols

Supported file formats for streaming of VoD:

Input	Output
FLV (Flash Video)	Prefix: flv: Extension: .flv
MP4 (QuickTime container)	Prefix: mp4: Extension: .mp4, .f4v, .mov, .m4a, .m4v, .mp4a, .mp4v, .3gp, .3g2
MP3	Prefix: mp3: Extension: .mp3
	Prefix: ismv: / isma: Extension: .ismv / .isma

Supported streaming protocols and clients:

Protocol	Clients
Adobe Flash® RTMP/HDS	Flash player Adobe® AIR® RTMP-compatible player HDS-compatible player
Apple® HLS	iPhone®, iPod®, iPad® (iOS 3.0 +) QuickTime® player (10.0 +) Safari® (4.0 + na Mac OS X version 10.6) Roku® streaming devices Other HLS-compatible players
MPEG-DASH	DASH-HEVC/265 DASH-AVC/264 DASH-WebM/VP9
Microsoft® Smooth Streaming	Silverlight® 3 + Other Smooth Streaming-compatible players
RTSP/RTP	Quicktime player Other RTSP/RTP-compatible players VideoLAN VLC media player 3GPP-compatible mobile devices STB
MPEG-TS	IPTV STB Multicast on any Silverlight-enabled desktop

Supported input protocols and codecs:

Protocol	Codecs
Adobe RTMP	Video: H.264 On2 VP6 Sorenson Spark® Screen Video v1 & v2 Audio: AAC AAC-LC HE-AAC+ v1 & v2 MP3 Nellymoser Asao Speex
RTSP/RTP	Video: H.264 VP9 VP8 Audio: AAC AAC-LC HE-AAC+ v1 & v2 MP3 Speex Opus Vorbis
MPEG-TS	Video: H.265 H.264 VP9 VP8 Audio: AAC AAC-LC HE-AAC+ v1 & v2 MP3 AC-3 (Dolby® Digital) E-AC-3 (Dolby Digital Plus) Opus Vorbis
ICY (SHOUTcast/Icecast)	Audio: AAC AAC-LC HE-AAC+ v1 & v2 MP3

Supported output protocols and codecs:

Protocol	Codecs
Adobe HDS	Video: H.264 On2 VP6 (only live streaming) Sorenson Spark® (only live streaming) Screen Video v1 & v2 (only live streaming) Audio: AAC AAC-LC HE-AAC+ v1 & v2 MP3 Nellymoser Asao (only live streaming) Speex (only live streaming)
Adobe RTMP	Video: H.264 On2 VP6 Sorenson Spark® Screen Video v1 & v2 Audio: AAC AAC-LC HE-AAC+ v1 & v2 MP3 Nellymoser Asao Speex
Apple HLS	Video: H.264 Audio: AAC AAC-LC HE-AAC v1 Dolby Digital 5.1 Surround Sound (AC-3) Dolby Digital Plus (Enhanced AC-3) MP3
Microsoft Smooth Streaming	Video: H.264 Audio: AAC AAC-LC HE-AAC v1 i v2 MP3
MPEG-DASH	Video: H.264 Audio: AAC AAC-LC HE-AAC v1 i v2 Dolby Digital 5.1 Surround Sound (AC-3) Dolby Digital Plus (Enhanced AC-3)
RTSP/RTP	Video: H.264 MPEG-2 TS Audio: AAC MP3