



Release Notes for Cisco Virtual Media Packager System Release 2.9.2

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This publication describes the requirements, dependencies, and caveats for the Virtual Media Packager (VMP) System Release 2.9.2.

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Introduction

Cisco Virtual Media Packager (VMP) is an application component of the Cisco Virtualized Video Processing (V2P) solution. V2P provides an open, programmable, scalable, and extensible platform for rapid innovation. It allows you to support video processing applications in your headend and data centers without being tied to the operational features of the underlying infrastructure.

VMP provides linear and just-in-time packaging capabilities required by OTT services such as live streaming, VOD, and cloud DVR. It uses the latest virtualization and cloud orchestration technology. VMP lets you elastically instantiate and scale critical media functions independently for deployment flexibility. You can prepare and originate media for distribution to the latest HTTP ABR streaming clients on mobile devices, set-top boxes (STBs), and PCs or laptops.

New Features

This release of VMP incorporates feature enhancements, open and resolved caveats.

Refer to the *Cisco Virtual Media Packager User Guide - Software Version 2.9* for complete feature descriptions.

System Requirements

External Servers

Configuring external DNS, NTP servers is mandatory for all VMP components (MCE, AppEngines, CLS and MPE).

Cisco UCS

All of the VMP components run on top of VMware on Cisco Unified Computing System (UCS) B200 M3 Blade Servers. For information about running the VMP components on other types of servers, contact your Cisco representative.

System Requirements

The following table shows the minimum UCS hardware requirements for the VMP:

Part Number	Description	Quantity
UCSB-B200-M3-U	UCS B200 M3 Blade Server w/o CPU, mem, HDD, mLOM/mezz (UPG)	4
UCS-CPU-E52680B	2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz	2 (Total 40 CPUs)
UCS-MR-1X082RY-A	8GB DDR3-1600-MHz RDIMM/PC3-12800/ dual rank/1.35v	16 (Total 128 GB)
A03-D600GA2	600GB 6Gb SAS 10K RPM SFF HDD/hot plug/ drive sled mounted	2 (1200 GB total disk space available)
UCSB-MLOM-40G-01	VIC 1240 modular LOM for M3 blade servers	2
UCSB-HS-01-EP	Heat Sink for UCS B200 M3 server	2

VMware, vCenter, vSphere

VMP support for VMs requires the following virtualization software programs and releases:

- VMware ESXi hypervisor version 6.0, Update 3, build 5050593 or later
- VMware vCenter version 6.0 or later
- VMware vSphere version 6.0 or later

VM System Resources

We recommend the following minimum system resources for VMP VMs:

VMP Component	CPUs	RAM	Hard Drive	Network Interfaces
PAM	4	16 GB	32 GB	1 Ten 10GEthernet
CLS Large	12	48GB	256 GB	3 Ten 10GEthernet (only 1 used)
MCE-Worker	8	32 GB	32 GB	3 Ten 10GEthernet (up to 3 used)
MPE	8	32GB	32 GB	3 Ten 10GEthernet (up to 3 used)
AppEngines	8	32GB	32 GB	3 Ten 10GEthernet (up to 3 used)

The log server can be one of three sizes:

- VMP_LOG_SMALL uses a 32GB and 64 GB drive (total VMs in VMP system < 10)
- VMP_LOG_MEDIUM uses a 32GB and 512 GB drive (total VMs in VMP system < 100)
- VMP_LOG_LARGE uses a 32GB and 1TB drive (total VMs in VMP system < 200)

Installing VMP

These recommended minimum system resource numbers are based on the following assumptions:

- Hyper-threading is enabled in the ESXi compute nodes.
- There is no virtual CPU oversubscription. That is, the recommended number of virtual CPUs is the same as the number of actual physical cores.

These numbers include VMware overhead. You might need to adjust these numbers, based on your specific deployment.

VMP Service Manager GUI Requirements

The VMP Service Manager GUI can run on the following operating systems and browsers:

- Windows Internet Explorer 9 (IE9) or later for Windows 7
- Mozilla Firefox 20 or later for Windows 7
- Google Chrome 30.x for Windows 7
- Apple Safari 7.x for Windows 7 or MAC OS Version 10.9 or later

The VMP Service Manager GUI requires a display resolution of 1600 x 900 or better.

Installing VMP

For information about installing the VMP software and deploying the VMs, see the *Cisco Virtual Media Packager User Guide - Software Version 2.9*.

Caveats

Caveats

This section provides a list of open and resolved caveats for this release. This list is not intended to be comprehensive. If you have questions about a particular defect, contact your account representative.

Note: Defects are identified by a case tracking number (Defect ID) and a headline that briefly identifies the case. The headlines in this section are presented exactly as they appear in the issue tracking system.

Resolved Caveats

MCE Related

Defect ID	Headline
CSCvg16753	kms proxy timeout cause streaming http-504
CSCvf70785	Deletion of VOD assets with more than 10000 COS objects results in orphan objects
CSCvd97596	Haproxy will loose vip when network recovers,
CSCvf26522	fix kmsproxy error when redis connect failed,
CSCve79119	fix a no audio issue on video_seg case , cherry-pick r21771 from big_sur branch
CSCvf85374	fix ERROR in normal startup process in vodSessionController
CSCvf66773	CDVR :404 error for i-frame request during recording
CSCvf73904	storageSizeBytes is missing in VMP 2.8
CSCvf53182	Exception error on MCE while adding/removing channels on the workflow.
CSCvf62329	vodSessionControllercaught an exception during handle error
CSCvf59695	MCE mpd file has - value for the period supplement places
CSCvf52470	[ID3]mpe failed to get segment ts in VOD case with ATT Nielsen id3
CSCvf48968	MCE core dumps at AEG
CSCvf48579	2.10.21953- I-frames/CC adaptation set are not updating on the manifest.mpd/MPD
CSCvf49093	fix four ERROR in normal startup process in liveSessionController
CSCvf40128	HLS/DASH playback fails when I-Frames disabled for ATS channel
CSCve65797	Failed to playback vod/live content with stream chan15-0900000.ts
CSCve96575	Fix for TTML and i-Frame flags in case the flags are undefined
CSCve96575	Profile level enable/disable configuration for TTML and i-Frame generation
CSCve58600	webvtt lags 1~2 seconds behind video for HLS-VOD using custom content
CSCve68216	in live/vmr case, using tsplay to cast video source, the video and subtitle is not sync

Caveats

MPE Related

Defect ID	Headline
CSCvf99796	DASH Content-Type not set correctly
CSCvf54970	HSS TTML duration not inline with manifest file
CSCvf18456	Fairplay_cdv_r_url_passthru - restore ode_server specific changes.
CSCvf24351	Delay while generating manifest for cDVR content with 5 hours duration content
CSCvf24352	mpe lastDiscontinuityTime_EXT type doesnot match as before
CSCvf21111	bitmovin cannot playback live stram
CSCvf18456	cdvr playback for FairPlay doesn't work for url pass-thru mode (common copy)
CSCvf15421	presentationTime leads live stuck
CSCvd48696	found 404 issue with iframe ts when playback no subtitles content
CSCvf07504	records.config is not upgraded after VMP bundle upgrading
CSCve90520	VMP2.9.1 longevity test VOD/Live streaming http-504

Open Caveats

Defect ID	Headline
CSCve89663	AC3 playback with fairplayVGC is not working
CSCve97192	Subtitle is not working for cdvr clear/fairplay recording
CSCvd69857	CInletDFXPManager: Static Analyzer Error - Logic error Branch condition evaluates to a garbage value
CSCve52059	[it is ATT special from title] For AT&T streams, HLS VOD Webvtt and Dash VOD TTML/SMPTE-TT subtitle formats display incorrectly
CSCve84839	asrajend No alarm, event trigger or anything in the logs to indicate an MCE was unavailable or failing on MPE
CSCve86154	VMR simulator shows inconsistent response behavior for TS segment pulls from MCE
CSCvf38560	[may should be U] 404 in mce due to time drift for 6 segment duration in publishing template
CSCvf52934	Unassign 8 channel's not support with 12 profiles per mce
CSCvf53406	mce return 403 when setting mce instance0 to maintenance
CSCvf96719	MCE - 404 response seen for I-frames under load testing scenario
CSCvf98473	Video profile bitrate is not same as previous one after channel restart
CSCvg18848	[may should be U] KMSProxy timeout during 2.9.2 longevity test
CSCvg31655	Channels distribution in MCEs are not proper
CSCvg44247	fix SPS parsing scaling_list
CSCvf88219	Recording getting freezes after channel restart
CSCvg24642	max_bitrate from PMT if present will be used as TS bitrate instead of the estimated one
CSCvg00582	SKY POC multiple audio representation when there should be only one

Related Documentation

VMP Documentation

Refer to the following documents for additional information about VMP:

- *Cisco Virtual Media Packager User Guide - Software Version 2.9*
- *Cisco Virtual Media Packager Release 2.9 API Guide*
- *Open Source Used in VMP 2.9.0*

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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