



# Release Notes for Cisco Virtual Media Packager System Release 2.9.0

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This publication describes the requirements, dependencies, and caveats for the Virtual Media Packager (VMP) System Release 2.9.0

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## Introduction

The Cisco Virtual Media Packager (VMP) is an application component of Cisco's Virtualized Video Processing (V2P) solution. The 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.

The Cisco Virtual Media Packager (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. The 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 PC's/laptops.

## New Features

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

- AAC-HEv2
- Closed Caption/Subtitles
- DASH Playready and Widevine DRM
- FairPlay DRM
- Manifest Renaming
- PID Pass-Through

## System Requirements

- Dynamic Configuration.
- Configurable Segment Duration for cDVR

Refer to the Cisco Virtual Media Packager 2.9.0 User Guide 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.

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 5.1 or later, running on the server
- VMware vCenter version 5.1 or later
- VMware vSphere version 5.1 or later

## System Requirements

**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)

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 Release 2.9.0 User Guide*.

## 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.

Defect ID	Headline
CSCv85023	Recording behavior is unexpected when incoming MCE interface is partly blocked during the recording
CSCv85034	Recording behavior is unexpected when 30% packet loss is introduced on Incoming MCE interface
CSCvd85044	Recording behavior unexpected when latency is introduced the latency on the incoming MCE Interface
CSCvd85052	Recording behavior unexpected when latency is introduced on the outgoing MCE Interface
CSCve15267	CE nodes are not failing over when only access to live streams is lost
CSCve35362	The curl request taking time to be handled by the CE which has been rebooted
CSCve48140	MCE node crashed due to page fault error with out of memory
CSCvd91905	MCE shows status as capturing forever when feed from vdcn is failed
CSCve05459	Not all logs are using the standard UTC as a timestamp.
CSCve09580	Cannot play HLS no audio EBP live on quicktime

## Related Documentation

### VMP Documentation

Refer to the following documents for additional information about *VMP*:

- *Cisco Virtual Media Packager 2.9.0 User Guide*
- *Cisco Virtual Media Packager 2.9.0 API Guide*
- *Cisco Virtual Media Packager 2.9.0 Open Source*

## 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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