



Release Notes for Cisco Virtual Media Packager System Release 2.7

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Note: The Media Origination System (MOS) is now named Virtual Media Packager (VMP). Besides feature enhancements and new features introduced in this release, the VMP system functionality and applications remain the same.

This publication describes the requirements, dependencies, and caveats for the Virtual Media Packager (VMP) System Release 2.7

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Introduction

Media origination is a critical function for the delivery of advanced revenue-generating media services to consumers. The Cisco Virtual Media Packager (VMP) provides media ingest, recording, storage and playback functions across Live, VOD and TSTV applications used for multi-screen consumption. The VMP works with other external components, such as encoders, transcoders, control applications, and end-client applications, to form the end-to-end media service ecosystem.

Features

This release of VMP incorporates enhancements to existing features including the Media Playback Engine (MPE) and Media Capture Engine (MCE). The following new features are available in this release.

- Apple HLS v 7 Start/Offset - Specify a start/delay time for VOD and Live playback
- Support for Common DASH Encryption- Two new KMS types -BUYDRM & EZDRM

Refer to the Cisco Virtual Media Packager 2.7 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 2.7 User Guide*.

Caveats

This section provides a list of open 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
CSCva10392	ngmpe hss got 404 from mce in asset redundancy, one mce in maintenance
CSCuw61645	Deploy app engine without hostname will cause redis failed
CSCva48753	EL: KMS proxy stops fetching key after every 7 - 10 days
CSCva66349	cdvr hss/hls playback have many 404/504s
CSCuy03813	openstack NIC drive has 256 vS VMware 4096
CSCuz74617	404/504 errors on HLS live with 50 channels/250 clients with cos storage
CSCva78948	HAProxy VIP assigned to a non-HAproxy AppEngine node as well
CSCva79051	Some old mce_aic processes are still running on PAM
CSCuz82844	Encrypted playback fails when the controller leader reboot
CSCva05938	Transaction logs on IPVS and HA Proxy nodes
CSCva98403	Some LookupServices still have old auth-token after COS updated it
CSCva17017	AWM crashed when workflow was disabled during channels in pending state
CSCvb03075	VOD playback fails with 404 error .ts file + stress
CSCva95828	Mongo cannot be initialized after upgrade with ISO image
CSCva83070	The loopback IP on a MCE not assigned correctly
CSCva30960	The serviceapi query got incomplete content of body from PAM sometime
CSCva47479	mce did not take token when running vod + cos (3.5)
CSCva89722	Failed to create variant for publish template with larger start time

Related Documentation

VMP Documentation

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

- [Cisco Virtual Media Packager 2.7 User Guide](#)
- [Cisco Virtual Media Packager 2.7 API Guide](#)
- [Cisco Virtual Media Packager 2.7 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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