Release Notes for Cisco Virtual Media Packager Release 2.11.0

First Published: December 6, 2017

This publication describes the requirements, dependencies, and caveats for Cisco Virtual Media Packager (VMP) System Release 2.11.0.

Introduction

Cisco Virtual Media Packager (VMP) is a component of Cisco Virtualized Video Processing (V2P), a software solution that provides an open, programmable, scalable, and extensible platform for rapid innovation. V2P supports video processing applications in headends and data centers without being tied to the operational features of their underlying infrastructure.

As a component of V2P, VMP provides the linear and just-in-time packaging functions needed for OTT services such as live streaming, VOD, and cloud DVR (cDVR). VMP uses the latest virtualization and cloud orchestration technology to let 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), PCs, and laptops.

New Features

This VMP release incorporates feature enhancements and resolves certain previously open caveats. For complete feature descriptions, see the *Cisco Virtual Media Packager 2.11.0 User Guide*.

System Requirements

External Servers

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

Cisco UCS

All 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 this VMP release:

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	One 10 Gbps Ethernet
CLS (Large)	12	48 GB	256 GB	Three 10 Gbps Ethernet (only one used)
MCE-Worker	8	32 GB	32 GB	Three 10 Gbps Ethernet (up to three used)
MPE	8	32 GB	32 GB	Three 10 Gbps Ethernet (up to three used)
AppEngines	8	32 GB	32 GB	Three 10 Gbps Ethernet (up to three used)

The log server can be one of three sizes:

■ VMP_LOG_SMALL uses a 32 GB and 64 GB drive (total VMs in VMP system < 10)

■ VMP_LOG_MEDIUM uses a 32 GB and 512 GB drive (total VMs in VMP system < 100)

■ VMP_LOG_LARGE uses a 32 GB and 1 TB 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 may 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 2.11.0 User Guide*.

Updating Publish Templates After Upgrade

VMP 2.11.0 uses a media playback engine (MPE) for VOD playback of Dynamic Adaptive Streaming over HTTP (DASH) formatted content. The MPE supports multiple periods in DASH content, a feature not supported in VMP 2.9.x and earlier VMP releases. As a result, customers with existing VOD DASH content who upgrade from VMP 2.9.x or earlier to VMP 2.11.0 must add a new publish template variant for playback compatibility with the existing VOD DASH content. If this is not done, errors may occur during playback of previously ingested VOD DASH content after upgrading to VMP 2.11.0.

To add the new publish template variant:

1. Log in to the V2PC GUI and, from the navigation menu, choose **Media Workflow Manager > Resources > Templates > Publish Templates**.

2. Choose an existing VOD DASH template and click **Edit** (pencil icon) to open the template for editing.

3. Open the **Package** section of the dialog and click **+** (**Add**) to add a new variant.

   Note: If the template you selected is already used by one or more existing workflows, the message " This Publishing Template is in use in one or more Media Workflows and cannot be modified" now appears. If you see this message, navigate to **Media Workflow Manager > Media Workflows** and stop the related VOD workflows before continuing.

4. Enter the name **fragDASH** as the name of the new variant.

5. Enter or select the following parameters for the new variant in the fields provided:

   – Selective Publish – choose **TRUE** or **FALSE**

   – Enable SMPTE-TT – choose **TRUE** or **FALSE**

   – Enable WEBVTT – choose **TRUE** or **FALSE**

6. Click **OK** to apply the new variant.

7. From the V2PC GUI navigation menu, choose **Media Workflow Manager > Media Workflows**.

8. Select the VOD media workflow and click **Assets** to view the assets for the workflow.

9. Under Publish assets, confirm that the Publish URL now identifies **fragDASH.mpd** as the publish URL.

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.

Open Caveats

Defect ID	Headline
CSCvg10052	mce get unnormal size inflame ts
CSCvf97092	Playback cdvr recording freeze for 2-3sec with cc1/svc1- multi period/channel restart
CSCvf99019	coredump generated on MPE during cdvd playback
CSCvg15665	22137: video freeze occurred for particular cdvr 1 hr content
CSCvg20010	CDVR dash Playback freeze
CSCvg31681	playback stuck when the MCE data-in on/off for more than 10sec
CSCvg31634	MCE generating different segment duration when data-in down for 2-3sec
CSCvg44924	Channels in INIT state for more than 10 minutes after enabling workflow
CSCvg61247	aic upgrade Node app update timeout has to be increased
CSCvg43109	2.11.0-3.3.3-16347: worker version need to change from 2.10 to 2.11 on aic worker status
CSCvf82083	cdvr mfc transitioned error state after V2p upgrade

Resolved Caveats

Defect ID	Headline
CSCvg22907	MCE Peirodid not changing/PTS getting restarted after feed discontinuity
CSCvg68105	KMSProxy Core Dump due to Rewriting HTTP Response
CSCvg28912	mce report 404 for the last ts with the special vod source
CSCvg65984	output incorrect audio codec and unknown lanuage in MCE
CSCvg09603	vod ingest failed for some specific content
CSCvg58900	2.11-22248 : CEA-708 subtitles adaptation missing on the manifest.mpd
CSCvg12578	core dump and 404 when enable packet filter
CSCvg10422	player hit 404 error during vod playbace with content KQED.ts
CSCvg44247	MCE: failed to parse SPS seq_scaling_list
CSCvg21296	vod ezdrm playback failed on 2.11
CSCvg23560	MCE: live capture failed on DVB-bitmap content
CSCvg39481	select one profile's 608/708 subtitle if multi-profiles enable SMPTETT
CSCvf35099	Coredump generated for URL passthrough mode Assertion on cDVR recording
CSCvf43395	404 error during playback of HLS FairPlay recording
CSCvg06176	22108: MPE coredump on Webvtt while payback DASH encrypted url
CSCvg07540	404 for iframes during inprogress/completed CDVR playback
CSCvg14620	[Dash] dash vod multiple profiles playback fail on vmp platform
CSCvg15649	22137: 404 error /segment not ready during HLS CDVR content with 300 clients.
CSCvf59695	MCE mpd file has "-" value for the period supplement places
CSCvg18875	configured pid can not passthrough in DRM FairPlay mode in url passthrough mode in version 2.11
CSCvg24103	22151: Connection refused error on Lookupservice error log
CSCvg27148	MCE: live capture core dump
CSCvg24103	22151: Connection refused error on Lookupservice errorlog

Related Documentation

VMP Documentation

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

- *Cisco Virtual Media Packager 2.11.0 User Guide*

- *Cisco Virtual Media Packager 2.10 API Guide*

- *Open Source Used in VMP 2.11.0*

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.

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.