Release Notes for Cisco Virtual Media Packager System Release 2.8

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This publication describes the requirements, dependencies, and caveats for the Virtual Media Packager (VMP) System Release 2.8

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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.

- MCE Troubleshooting Diagnostic Tools
- Subtitle Policies
- Support for DVB Bitmap Subtitles
- Support for DRM NAGRA

Refer to the Cisco Virtual Media Packager 2.8 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:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCSB-B200-M3-U</td>
<td>UCS B200 M3 Blade Server w/o CPU, mem, HDD, mL0M/mezz (UPG)</td>
<td>4</td>
</tr>
<tr>
<td>UCS-CPU-E52680B</td>
<td>2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz</td>
<td>2 (Total 40 CPUs)</td>
</tr>
<tr>
<td>UCS-MR-1XO82RY-A</td>
<td>8GB DDR3-1600-MHz RDIMM/PC3-12800/ dual rank/1.35v</td>
<td>16 (Total 128 GB)</td>
</tr>
<tr>
<td>A03-D600GA2</td>
<td>600GB 6Gb SAS 10K RPM SFF HDD/hot plug/ drive sled mounted</td>
<td>2 (1200 GB total disk space available)</td>
</tr>
<tr>
<td>UCSB-MLOM-40G-01</td>
<td>VIC 1240 modular LOM for M3 blade servers</td>
<td>2</td>
</tr>
<tr>
<td>UCSB-HS-01-EP</td>
<td>Heat Sink for UCS B200 M3 server</td>
<td>2</td>
</tr>
</tbody>
</table>

**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
VM System Resources

We recommend the following minimum system resources for VMP VMs:

<table>
<thead>
<tr>
<th>VMP Component</th>
<th>CPUs</th>
<th>RAM</th>
<th>Hard Drive</th>
<th>Network Interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAM</td>
<td>4</td>
<td>16 GB</td>
<td>32 GB</td>
<td>1 Ten 10GEthernet</td>
</tr>
<tr>
<td>CLS Large</td>
<td>12</td>
<td>48GB</td>
<td>256 GB</td>
<td>3 Ten 10GEthernet (only 1 used)</td>
</tr>
<tr>
<td>MCE-Worker</td>
<td>8</td>
<td>32 GB</td>
<td>32 GB</td>
<td>3 Ten 10GEthernet (up to 3 used)</td>
</tr>
<tr>
<td>MPE</td>
<td>8</td>
<td>32GB</td>
<td>32 GB</td>
<td>3 Ten 10GEthernet (up to 3 used)</td>
</tr>
<tr>
<td>AppEngines</td>
<td>8</td>
<td>32GB</td>
<td>32 GB</td>
<td>3 Ten 10GEthernet (up to 3 used)</td>
</tr>
</tbody>
</table>

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 2.8 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.

<table>
<thead>
<tr>
<th>Defect ID</th>
<th>Headline</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCvc63829</td>
<td>Audio bitrate may be wrong at capture stage, preventing playback of the channel</td>
</tr>
<tr>
<td>CSCvc75334</td>
<td>WEBVTT subtitles are not working for HLS</td>
</tr>
<tr>
<td>CSCvc76145</td>
<td>VMR: completed recording playback fails and 502 for all.ts files</td>
</tr>
<tr>
<td>CSCvc77162</td>
<td>HLS VOD playback failed &amp; unable to switch the bitrate, it stops but ts are downloading</td>
</tr>
<tr>
<td>CSCvc80985</td>
<td>audio 404 found in hss live</td>
</tr>
<tr>
<td>CSCvc83421</td>
<td>Slow response for index and Json files coming from COS on older ingested content</td>
</tr>
<tr>
<td>CSCvc11998</td>
<td>vod playing service is interrupted after power off/on the working HaProxy node</td>
</tr>
<tr>
<td>CSCvc54979</td>
<td>vod-ingestion limited to 5 contents per node</td>
</tr>
<tr>
<td>CSCvc51174</td>
<td>On VMP 2.8, version not reflecting correctly in PAM GUI</td>
</tr>
</tbody>
</table>

Related Documentation

VMP Documentation

Refer to the following documents for additional information about VMP:

- Cisco Virtual Media Packager 2.8 User Guide
- Cisco Virtual Media Packager 2.8 API Guide
- Cisco Virtual Media Packager 2.8 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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Obtaining Documentation and Submitting a Service Request