



Release Notes for Cisco Media Origination System Release 2.3.8

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This publication describes the requirements, dependencies, and caveats for the Cisco Media Origination System (MOS) Release 2.3.8.

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Introduction

Media origination is a critical function for the delivery of advanced revenue-generating media services to consumers. The Cisco Media Origination System (MOS) provides critical functions required to capture, store and originate media for multi-screen consumption. The MOS primarily provides the enabling functions in the media data plane. The MOS 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

Release 2.3.8 of the MOS provides PAM feature enhancements and a list of resolved defects. The pamWatch feature is a background health monitoring process that checks the overall health of each local PAM node. The mosDiag utility is a command line utility that provides several targeted diagnostics for critical subsystems within the PAM. This section briefly highlights the features. For full descriptions, see the *Cisco Media Origination System Release 2.3.8 User Guide*.

System Requirements

Feature	Description
pamWatch	<p>The pamWatch feature is a background health monitoring process that checks the overall health of each local PAM node by invoking the mosDiag utility. The following systems are monitored:</p> <ul style="list-style-type: none"> ■ DNS Server Connectivity ■ PAM Process Health ■ Zookeeper cluster health ■ Mongo database health ■ RabbitMQ messaging service health ■ Disk space utilization
mosDiag	Command Line Utility that provides targeted diagnostics for critical subsystems within the PAM.

MOS Beta Features

The following feature is under consideration for future MOS releases.

- SNMP Trap Notifications

System Requirements

External Servers

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

Cisco UCS

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

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

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

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

System Requirements

- 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 MOS VMs:

MOS Component	CPUs	RAM	Hard Drive	Network Interfaces
PAM	4	8 GB	48 GB	1 Ten 10GEthernet
CLS Large	12	48GB	256 GB	3 Ten 10GEthernet (only 1 used)
MCE-Worker	8	32 GB	64 GB	3 Ten 10GEthernet (up to 3 used)
MPE-Controller	8	8 GB	48 GB	4 Ten 10GEthernet (only 1 used)
MPE-TC	8	8 GB	48 GB	4 Ten 10GEthernet (up to 2 used)
MPE-Worker	8	28 GB	64 GB	4 Ten 10GEthernet (up to 3 used)
AppEngines	8	32GB	64GB	3 Ten 10GEthernet (up to 3 used)

The log server can be one of three sizes:

- MOS_LOG_SMALL uses a 32GB and 64 GB drive (total VMs in MOS system < 10)
- MOS_LOG_MEDIUM uses a 32GB and 512 GB drive (total VMs in MOS system < 100)
- MOS_LOG_LARGE uses a 32GB and 1TB drive (total VMs in MOS 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.

MOS Service Manager GUI Requirements

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

Installing MOS

Installing MOS

For information about installing the MOS software and deploying the VMs, see the *Cisco Media Origination System Release 2.3.8 User Guide*.

Caveats

Open 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
CSCUs97552	During 75 Live Channel capture, MCE blade (4VM) goes to high CPU usage

Resolved Caveats

This section provides a list of resolved caveats for this release.

Defect ID	Headline
CSCUv55747	Not able to see services(UMS) on Chrome
CSCUw30487	Channel fails during blackout transitions at NC+ setup
CSCUw30361	CableVision: audio SIDX queue size not equal to audio PID queue
CSCUv20417	During long cDVR captures with COS CIFAssetLoader process gets stuck
CSCUw03621	assetloader core dump
CSCUu82126	Asset loader failed to write received data to disk for cdvr
CSCUw32855	Channel failures seen during blackout due to profiles being out-of-sync
CSCUw30361	CableVision: audio SIDX queue size not equal to audio PID queue
CSCUw30584	Seeing audio glitch on playing back VOD content
CSCUw38911	Failed playing back HLS for Live -> NFS
CSCUw38146	UDS path is limited to 108
CSCUw56917	Need to remove the condition check for asset path in AWM
CSCUw58640	Adjust the frequency&threshold of the check for profile pts out of sync
CSCUw57049	HSS playback of VOD content at customer site stutters frequently
CSCUw56947	Wrong error notification for VOD ingest with source file not exist
CSCUw44851	Content not cleaned after vodSessionController is stopped from a hang
CSCUw44685	cDVR capture session controller hanging
CSCUw68031	Need to rollover and compression zookeeper.out on PAM
CSCUw88417	TC relocation enhancement
CSCUw94945	Subtitle issues with VOD content

Caveats

Defect ID	Headline
CSCuw98531	Need to remove unnecessary messages sent to system log on PAM
CSCuw66376	Need to enable compression of system log file(/var/log/messages)
CSCuw98261	Ordering the bitrate manifests with lowest in the top in main manifest
CSCux02401	6 sec video seg auto seen under 10-sec segment duration configuration
CSCux00887	Logging issues with running both rsyslogd and syslog-ng
CSCuw92746	pam-installedVm and pam-vmLoadBalancer exited
CSCux00312	US 15991 - Continue with Video only Stream when there is no audio
CSCuw80558	Sometimes UMS unable to be enabled after disabling it
CSCux13887	MOS diagnostic utility
CSCux14025	mos diag improvements
CSCux13847	PAM Event/Alarm Logging Enhancements
CSCuw70355	ingesting asset name CC_TEST makes delete assets CC_TEST_XXXX
CSCux15660	Improve PAM event logging
CSCuu66604	PAM Node Library gets out of sync with DocStore
CSCuu24870	Enabling and disabling UMS and some nodes remain in use
CSCuu16394	vmLoadBalancer process crash
CSCuu16408	pam-docserver crash
CSCuw82414	CSCux40711Need to rollover and archive NGINX logs on MCE
CSCux02547	The " clear" alarm should be removed from Mongo DB
CSCux14037	Stale VGC key package was generated and caused TS segments not encrypted
CSCux20746	Failed to send token change notification from sal to Mce
CSCux09899	Power off the PAM will cause the LIVE/VOD assets disappeared
CSCux39438	Power off the PAM will cause the LIVE/VOD assets disappeared
CSCux48814	The pam_dns queue is missing after ZK got disconnected on PAMs
CSCux53035	rabbitMqWatch in FATAL state after network went down and then up
CSCux52809	cdvr capture failed
CSCux48887	MCE corefiles are not generated
CSCux52414	VOD capture CaptureApp does not start
CSCux21074	Downloading CC fragments failed on MCE nodes
CSCux57943	mosDiag.py tool failed on checking alarm
CSCux67224	cdvr inprogress playback failed on 2.3.8-cisco-mos-duncans.17288
CSCux69358	Can't playback after that stopping named service during disable UMS
CSCux65807	cDVR in-progress playback was stuck in Redis
CSCux02573	MOS alarm shouldn't be raised for a bad VOD ingest request
CSCux67274	The previous liveCaptureController for channel35 got stuck

Related Documentation

Defect ID	Headline
CSCuv88439	docserver_app.log needs time stamps for each message line
CSCux84488	Profile Ordering in Manifest
CSCux92294	AssetLoader hang and caused Redis connection overload
CSCuv82943	404 errors on downloading segments of some VOD profiles with data loss
CSCux89144	Heartbeat between both HAproxy doesn't work properly
CSCut25889	VIP of IPVS went to SCE node
CSCux48563	Discontinuity marker missing in video_seg_auto and video_seg_1
CSCuy00227	liveCaptureApp crashes with MCE-2.3-17467

Related Documentation

MOS Documentation

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

- *Cisco Media Origination System Release 2.3.8 User Guide*
- *Cisco Media Origination System Release 2.3.3 API Guide*

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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