



Release Notes for Cisco Media Origination System Release 2.6

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This publication describes the requirements, dependencies, and caveats for the Cisco Media Origination System (MOS) Release 2.6

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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

This release of MOS supports the following features:

- **Event Signaling and Management (ESAM) Template** - This release supports Ad-insertion using the ESAM template for VOD HLS.
- **HEVC Support** - This release supports ingest and recording of content with the H.265 video codec (HEVC) for HLS publish format and VG DRM.
- **Profile Ordering**- This feature supports profile ordering based on the specified rank number in the publish template.

System Requirements

External Servers

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

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:

- 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 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

For information about installing the MOS software and deploying the VMs, see the *Cisco Media Origination System Release 2.6 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
CSCuz35256	Need to tune log-server disk space for logging on MOS/Openstack
CSCuy12775	Too many publish templates fail to send work-flow information to ngmpe
CSCuy85678	HAProxy restarted if there is change on the CEP UMS and causing 404
CSCuz02123	quicktime can't play a live channel but vlc can
CSCuz02275	mongoDB failed to initialize

Related Documentation

MOS Documentation

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

- *Cisco Media Origination System Release 2.6 User Guide*
- *Cisco Media Origination System Release 2.6 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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