Avaya Aura® Media Server (AAMS) Release Notes

Release 8.0.2 SP1

Issue 1.1

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Change history

Issue	Date	Description
1.0	October 28, 2019	Release of AAMS 8.0.2 Service Pack 1
1.1	December 13, 2019	Fix typo for incorrect minimum upgrade version for release 8.0.0.

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Introduction

This document provides late-breaking information to supplement Avaya Aura® Media Server software and documentation. For updated documentation, product support notices, and service pack information, go to the Avaya Support site at https://support.avaya.com.

The Avaya Aura® Media Server delivers advanced multimedia processing features to a broad range of products and applications. Utilizing the latest open standards for media control and media processing, the highly scalable software-based solution deploys on standard server hardware. It is comprised of the following components:

- Media Server Software
- System Layer (appliance only).

What's new

What's new in 8.0.2

The following table lists enhancements in this release.

Enhancement	Description
AMS-6841	FIPS support for WebRTC media sessions.
AMS-6840	FIPS support for Web Collaboration.
AMS-7317	WebRTC media added DTLSv1.2 support with preferred ciphers: TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
AMS-6857	Update AAMS appliance to use Red Hat 7.6 and include latest security updates.
AMS-6828	Multi-Shared video composite mode.
AMS-6843	Force customer account password change on initial login.
AMS-7633	Enable root account when deploying with SDM.
WCS-2314	Web collaboration support for server certificate revocation check using OCSP or CRL.

Contacting support

Contact support checklist

If you are having trouble with *Avaya Aura® Media Server*, you should:

1. Retry the action. Carefully follow the instructions in written or online documentation.
2. Check the documentation that came with your software for maintenance or software-related problems.
3. Note the sequence of events that led to the problem and the exact messages displayed. Have the Avaya documentation available.

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If you continue to have a problem, contact Avaya Technical Support:

1. Log in to the Avaya Technical Support Web site https://support.avaya.com.
2. Contact Avaya Technical Support at one of the telephone numbers in the Support Directory listings on the Avaya support Web site.

Avaya Global Services Escalation Management provides the means to escalate urgent service issues. For more information, see the Escalation Contacts listings on the Avaya Support site.

Contact support tasks

You may be asked to email one or more files to Technical Support for analysis of your application and its environment.

- Media Server log capture with trace logs included
- Network packet capture on the Media Server
- Screen shots for Element Manager issues
- Debug log (ams_debug.log) for SMGR Media Server element issues

Avaya Aura® Media Server

Software Compatibility

Prior to upgrading AAMS software you must review the Avaya compatibility matrix of the controlling application (i.e. CM) to ensure that the controlling application has been tested and is compatible with AAMS.

Supported 8.0.2 Upgrade Paths

Prior to upgrading to AAMS 8.0.2 your prior installation must meet the following minimum software revisions for the media server software:

Release	***Minimum Supported***
7.8.0	7.8.0.240 or higher
8.0.0	8.0.0.142 or higher
8.0.1	8.0.1.121 or higher

Installation

8.0.2 New Installation File List (Virtual Appliance Only)

Download ID	**Filename**	**Notes**
MSR000000119	MediaServer_8.0.2.43_A7_2019.07.17_OVF10.ova ***NOTE after deploying the OVA you MUST install the mandatory updates listed in the section titled "8.0.2 Required Updates and Hotfixes (Appliance Only)".***	AAMS virtual appliance (OVA) for new deployments. ***Ensure you install the latest system layer and media server updates.***

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8.0.2 New Installation File List (Physical Appliance Only)

Download ID	Filename	Notes
MSR000000118	MediaServer_8.0.2.43_A7_2019.07.17.iso ***NOTE after installing the appliance you MUST install the mandatory updates listed in the section titled "8.0.2 Required Updates and Hotfixes (Appliance Only)".***	AAMS physical appliance installer and recovery disk for new appliance deployments. ***Ensure you install the latest system layer and media server updates.***

8.0.2 New Installation File List (Customer Supplied Hardware and OS Only)

Download ID	Filename	Notes
MSR000000120	MediaServer_8.0.2.61_2019.09.16.bin	AAMS software only installer (PVI) for new deployments where customer is supplying the hardware and Linux OS.

8.0.2 Required Updates and Hotfixes (Appliance Only)

Find patch information at https://support.avaya.com.

Download ID	Patch	Notes
MSR000000121	8.0.2.61	AAMS update for Media Server software that needs to be applied to all 8.0.x appliance deployments.
MSR000000122	8.0.0.20	AAMS update for System Layer software that needs to be applied to all 8.0.x appliance deployments.

8.0.2 Required Updates and Hotfixes (Customer Supplied Hardware and OS Only)

Find patch information at https://support.avaya.com.

Download ID	Patch	Notes
MSR000000120	8.0.2.61	AAMS software only installer (PVI) for new deployments where customer is supplying the hardware and Linux OS.

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8.0.2 Patch File list (Appliance Only)

Filename	File size	Version
MediaServer_Update_8.0.2.61_2019.09.16.iso	880,351,232	8.0.2.61
MediaServer_System_Update_8.0.0.20_2019.09.16.iso	1,037,611,008	8.0.0.20

8.0.2 Patch File list (Customer Supplied Hardware and OS Only)

Filename	File size	Version
MediaServer_8.0.2.61_2019.09.16.bin	879,971,545	8.0.2.61

Speculative Execution Vulnerabilities (Spectre, Meltdown, and L1TF) Patches

In order to help mitigate the Speculative Execution Vulnerabilities, the processor manufacturers and operating system developers provide software patches to their products. These are patches to the processors, hypervisors, and operating systems that the Avaya solutions utilize (they are not patches applied to the Avaya developed components of the solutions).

Once these patches are received by Avaya, they are tested with the applicable Avaya solutions to characterize any impact on the performance of the Avaya solutions. The objective of the testing is to reaffirm product/solution functionality and to observe the performance of the Avaya solutions in conjunction with the patches using typical operating parameters.

Avaya is reliant on our suppliers to validate the effectiveness of their respective Speculative Execution Vulnerability patches.

The customer should be aware that implementing these patches may result in performance degradation and that results may vary to some degree for each deployment. The customer is responsible for implementing the patches, and for the results obtained from such patches.

Spectre and Meltdown Patches and Capacity Impacts

Spectre and Meltdown patches have been applied to the operating system of the AAMS 8.0.0 appliance. In addition to the AAMS patches the following updates are required:

Platform	***Minimum version for patches***
Dell R630	BIOS version 2.7.1
Dell R230	BIOS version 2.4.3
Dell R220	BIOS version 1.10.2
HP DL360 G9	BIOS version 2.56
Avaya Aura® Appliance Virtualization	7.1.3.0.0.04

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VMWare	Refer to https://kb.vmware.com/s/article/52245

Spectre and Meltdown patches may have performance degradation for the following deployments:

- Virtual Appliance Profile 3, 4, 5 and 6
- Physical Appliances (Dell R220, Dell R230, HP DL360 G9 and Del R630)
- Software only installs on customer supplied OS and hardware

In AAMS 7.8 SP8 a new report called traffic summary was introduced and is accessible using the AAMS Element Manager located under Home » System Status » Monitoring » Reports » Traffic Summary. This feature provides summary statistics for session usage, Load Factor and CPU over the previous 4 weeks for the local media server. It may be used to help determine if your deployment will be impacted by the Spectre/Meltdown performance degradation.

Review the traffic summary for these deployment types to determine if the peak CPU or Load Factor exceeds 70%, or the average consistently exceeds 50%. If it does you should add additional media servers to the network to compensate for the Spectre/Meltdown performance degradation.

The traffic report is also available in so older releases by requesting a QFE from Avaya.

Release and Build	***QFE***
7.7 FP1 SP3 (7.7.0.398)	QFE-EMLite-7.7.0.398-0001-lnx.zip
7.8 SP6 (7.8.0.355)	QFE-EMLite-7.8.0.355-0001-lnx.zip
7.8 SP7 (7.8.0.384)	QFE-EMLite-7.8.0.384-0001-lnx.zip

L1TF Patches

L1TF patches have been applied to the operating system of the AAMS 8.0.0 SP2 appliance. In addition to the AAMS patches the following updates are required:

Platform	***Minimum version for patches***
Dell R630	BIOS version 2.8.0
Dell R230	BIOS version 2.5,0
Dell R220	BIOS version 1.10.3
HP DL360 G9	BIOS version 2.60
Avaya Aura® Appliance Virtualization	8.0.2.0.0.01

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VMWare	https://blogs.vmware.com/security/2018/08/l1tf.html

Backing up the software

For appliance installations, refer to procedures documented in *Deploying and Updating Avaya Aura® Media Server Appliance* on the Avaya Support site at: https://downloads.avaya.com/css/P8/documents/101050431.

For Customer Supplied Hardware and OS installations, refer to procedures documented in *Implementing and Administering Avaya Aura® Media Server* on the Avaya Support site at: https://downloads.avaya.com/css/P8/documents/101050441.

Release 7.8 to 8.0.2 Upgrade Considerations

Before you upgrade from Release 7.8 to 8.0.2 the following should be considered:

- Element Manager OS Authentication has been removed. Please refer to the section "Element Manager OS Authentication Removed" for more details.
- When upgrading an 1+1 HA cluster or N+1 load sharing cluster the primary server must be upgraded first. This is due to the OS Authentication being removed. Until the primary server is upgrade you will not be able to login to EM since the default admin password needs to be changed and it may only be changed on the primary server.
- Customer supplied hardware and Operating System needs to be upgraded to Red Hat 7.x prior to doing the upgrade

8.0.0 SP4 or Higher Upgrade Considerations

Before you upgrade to release 8.0.0 SP4 (or higher) the following should be considered:

- Once you upgrade to 8.0.0 SP4 or later you can't restore a configuration backup from an earlier 8.0.0 release due to internal change with Element Manager configuration change. Please ensure you take a current backup after the upgrade completes.

Enhanced Access Security Gateway (EASG)

EASG provides a secure method for Avaya services personnel to access the Avaya Aura® MS remotely and onsite. Access is under the control of the customer and can be enabled or disabled at any time. EASG must be enabled for Avaya Services to perform tasks necessary for the ongoing support, management and optimization of the solution. EASG is also required to enable remote proactive support tools such as Avaya Expert Systems® and Avaya Healthcheck.

On the AAMS appliance EASG is disabled by default so customers that are deploying a new 8.0.0 appliance for the first time are encouraged to enable EASG, which can be done by issuing the following command after upgrading.

```
EASGManage –enableEASG
```

Element Manager OS Authentication Removed

Support for OS authentication has been removed in AAMS 8.0.0 and Element Manager accounts are managed by AAMS by default. For new deploys you will need to login with the default user name and password using the following procedure:

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1. In a web browser, type the following URL https://serverAddress:8443/em where serverAddress is the address of the primary Avaya Aura® MS. (i.e. https://10.60.86.209:8443/em). ***NOTE initial login and password change will only work on the primary server. If this is a 1+1 HA cluster use the Management IP address and not the service IP address.***
2. Sign in to Element Manager by using the user name admin and specify the password Admin123$.
3. Element Manager will then prompt you to change the password for the Admin user.

If you are upgrading from 7.8 you will need to login to the emergency login https://serverAddress:8443/emlogin with user name admin and password Admin123$.

When upgrading an 1+1 HA cluster or N+1 load sharing cluster the primary server must be upgraded before you can login to EM emergency login for the first time. Until the primary server is upgrade you will not be able to login to EM since the default admin password needs to be changed on the primary only.

Installing the release

For appliance installations, refer to procedures documented in *Deploying and Updating Avaya Aura® Media Server Appliance* on the Avaya Support site at: *https://downloads.avaya.com/css/P8/documents/101033404*.

For Customer Supplied Hardware and OS installations, refer to procedures documented in *Installing and Updating Avaya Aura® Media Server Application on Customer Supplied Hardware and OS* on the Avaya Support at: *https://downloads.avaya.com/css/P8/documents/101033406*.

When upgrading an 8.0.2 appliance the following procedure should be used:

- Backup the system
- Upload both system layer and media sever updates
- Place system in pending lock (one node at a time)
- Click “Install Updates” in Element Manager to initiate update install
- Once installation complete place system in an unlocked state

Troubleshooting the installation

For appliance installations, refer to procedures documented in *Deploying and Updating Avaya Aura® Media Server Appliance* on the Avaya Support site at: https://downloads.avaya.com/css/P8/documents/101050431.

For non-appliance installations, refer to procedures documented in *Installing and Updating Avaya Aura® Media Server Application on Customer Supplied Hardware and OS* on the Avaya Support site at: https://downloads.avaya.com/css/P8/documents/101050445.

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Restoring software to previous version

For appliance installations refer to procedures documented in *Deploying and Updating Avaya Aura® Media Server Appliance* on the Avaya Support site at: https://downloads.avaya.com/css/P8/documents/101050431.

For non-appliance installs refer to procedures documented in Implementing and Administering Avaya Aura® Media Server on the Avaya Support site: https://downloads.avaya.com/css/P8/documents/101050441.

Functionality not supported

N/A

Fixes

Fixes in System Layer for 8.0.2 GA (8.0.0.18)

The following table lists the fixes in this release.

ID	Minimum conditions	Description
AMS-6891	All appliance deployments.	Mount /dev/shm with noexec option.
AMS-6857	All appliance deployments.	Update to RHEL 7.6.
AMS-6837	All appliance deployments.	Update packages to address outstanding security advisories RHSA-2019:0710 - https://access.redhat.com/errata/RHSA-2019:0710 python-2.7.5-77.el7_6.x86_64 python-libs-2.7.5-77.el7_6.x86_64 https://access.redhat.com/security/cve/CVE-2019-9636 RHSA-2019:0818 - https://access.redhat.com/errata/RHSA-2019:0818 kernel-3.10.0-957.12.1.el7.x86_64 https://access.redhat.com/security/cve/CVE-2019-6974 https://access.redhat.com/security/cve/CVE-2019-7221 RHSA-2019:1168 - https://access.redhat.com/errata/RHSA-2019:1168 kernel-3.10.0-957.12.2.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-12126 https://access.redhat.com/security/cve/CVE-2018-12127

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ID	Minimum conditions	Description
		https://access.redhat.com/security/cve/CVE-2018-12130 https://access.redhat.com/security/cve/CVE-2019-11091 RHSA-2019:1228 - https://access.redhat.com/errata/RHSA-2019:1228 wget-1.14-18.el7_6.1.x86_64 https://access.redhat.com/security/cve/CVE-2019-5953 RHSA-2019:1294 - https://access.redhat.com/errata/RHSA-2019:1294 bind-license-32:9.9.4-74.el7_6.1.noarch bind-utils-32:9.9.4-74.el7_6.1.x86_64 bind-32:9.9.4-74.el7_6.1.x86_64 bind-libs-32:9.9.4-74.el7_6.1.x86_64 https://access.redhat.com/security/cve/CVE-2018-5743 RHSA-2019:1481 - https://access.redhat.com/errata/RHSA-2019:1481 kernel-3.10.0-957.21.3.el7.x86_64 https://access.redhat.com/security/cve/CVE-2019-11477 https://access.redhat.com/security/cve/CVE-2019-11478 https://access.redhat.com/security/cve/CVE-2019-11479 RHSA-2019:1587 - https://access.redhat.com/errata/RHSA-2019:1587 python-2.7.5-80.el7_6.x86_64 python-libs-2.7.5-80.el7_6.x86_64 https://access.redhat.com/security/cve/CVE-2019-10160 RHSA-2019:1619 - https://access.redhat.com/errata/RHSA-2019:1619 vim-minimal-2:7.4.160-6.el7_6.x86_64 https://access.redhat.com/security/cve/CVE-2019-12735

Fixes in Media Server for 8.0.2 GA (8.0.2.56)

The following table lists the fixes in this release.

ID	Minimum conditions	Description

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ID	Minimum conditions	Description
AMS-7339	All video Composite AAMS servers.	Audio and video out of sync and VCMP crashes due memory leak.
AMS-7312	All deployments enrolled with SMGR.	Failure occurs during non-primary server enrollment and EM enters an enrollment loop where it imports a new SMGR signed certificate into AAMS key store ever 3 minutes. Eventually EM runs out of memory and will not be accessible.
AMS-7296	All video deployments.	VidMP crashes when a video stream is removed from a session.
AMS-7317	All WebRTC deployments.	WebRTC Media added DTLSv1.2 support with preferred ciphers: TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 and TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256.
AMS-7274	All deployments.	Certificate import/export fails if certificate password contains an XML reserved character.
AMS-7275	All WebRTC deployments.	WebRTC sessions lose audio and video due to FNTMP crashing when releasing session under traffic
AMS-7237	Deployments with EM cluster status failures.	EM cluster status fails when TLS version is TLSv1 or TLSv1.1.
AMS-7270	All deployments.	After upgrading from 7.8.x/8.0.x to 8.0.2 AAMS is out of service since DB is not running.
AMS-7256	All video deployments	Video block and unblock operation is not working.
AMS-7001	All video deployments.	VidMP crashes under traffic due to memory leak related to invalid video stream with repeated RTP timestamps and sequence numbers.
AMS-7189	All video composite AAMS servers.	Flicking of participants in composite video.
AMS-7185	All video deployments.	VidMP crashes when blocking video.
AMS-7168	All video composite AAMS servers.	Flicking of participants in composite video.
AMS-7169	All WebRTC deployments using Chrome browser.	Chrome WebRTC internals reported negative cumulative packet loss.
AMS-7123	All deployments.	OpenJDK security update 8u212b04.
AMS-6961	All 1+1 HA deployments.	Validate the backup server remote address for the MCHB protocol on the primary to avoid rogue connections. Added high-availability backup connection alarm and rogue connection attempt event log.
AMS-6960	Virtual appliance	Add logic to detect corrupted /proc/cpuinfo file.

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ID	Minimum conditions	Description
AMS-7095	All video composite AAMS servers.	No video when long delay for media arrival after session setup.
AMS-6984	Deployments using secure FTP transfer of backup.	Backup secure FTP fails due to unsupported encryption algorithm requested by SFTP server.
AMS-6999	WebRTC deployments using static port configuration.	FNTMP enters a port manager infinite loop during startup and will not process new WebRTC sessions.
AMS-6987	All WebRTC deployments.	ICE aggressive nomination causing one-way media.
AMS-6968	All video deployments.	No receive video when making an audio/video call without a camera.
AMS-6830	All deployments.	MariaDB (10.3.15) and connector upgrade.
AMS-6841	All WebRTC deployments.	FIPS support for WebRTC media sessions.
AMS-6759	All deployments.	TLS handshake fails due to incorrect certificate chain order.
AMS-6821	All deployments.	Multiple log capture download clicks result in an incomplete log capture archive.
AMS-6826	All cluster (1+1 HA or N+1) deployments.	Configuration replication can be set on each AAMS server in a cluster.
AMS-6794	All deployments enrolled with SMGR.	Update SMGR FQDN constraint to allow numbers in top-level domain.
AMS-6893	All deployments.	Tomcat (9.0.13) upgrade.
AMS-3996	All deployments.	IPP upgrade.
AMS-6803	All video deployments.	VidMP crash on video de-escalation to audio-only when session not joined to conference.
AMS-6773	All deployments.	OpenSSL security update (1.0.2r).
WCS-2539	All web collaboration deployments.	Add audit to terminate web collaboration sessions that are around longer than 24 hours.

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Fixes in System Layer for 8.0.2 GA (8.0.0.19) – New Appliance deployments Only

The following table lists the fixes in this release.

ID	Minimum conditions	Description
AMS-6843	New appliance deployments (8.0.2.43 A7 or higher)	Force customer account password change on initial login.
AMS-7633	New virtual appliance deployments (8.0.2.43 A7 or higher)	Enable root account activation when deployed via SDM.
AMS-7458	New appliance deployments (8.0.2.43 A7 or higher)	Accept spaces between entries for NTP and DNS on OVA deploy

Fixes in System Layer for 8.0.2 SP1 (8.0.0.20)

The following table lists the fixes in this release.

ID	Minimum conditions	Description
AMS-7449	All appliance deployments	Update RPMs to address: RHSA-2019:1873 - https://access.redhat.com/errata/RHSA-2019:1873 kernel-3.10.0-957.27.2.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-16871 https://access.redhat.com/security/cve/CVE-2018-16884 https://access.redhat.com/security/cve/CVE-2019-11085 https://access.redhat.com/security/cve/CVE-2019-11811
AMS-7445	All appliance deployments	Update RPMs to address: RHSA-2019:1880 - https://access.redhat.com/errata/RHSA-2019:1880 libcurl-7.29.0-51.el7_6.3.x86_64 curl-7.29.0-51.el7_6.3.x86_64 https://access.redhat.com/security/cve/CVE-2018-14618
AMS-7448	All appliance deployments	Update RPMs to address: RHSA-2019:2029 - https://access.redhat.com/errata/RHSA-2019:2029

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ID	Minimum conditions	Description
		kernel-3.10.0-1062.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-10853 https://access.redhat.com/security/cve/CVE-2018-13053 https://access.redhat.com/security/cve/CVE-2018-13093 https://access.redhat.com/security/cve/CVE-2018-13094 https://access.redhat.com/security/cve/CVE-2018-13095 https://access.redhat.com/security/cve/CVE-2018-14625 https://access.redhat.com/security/cve/CVE-2018-14734 https://access.redhat.com/security/cve/CVE-2018-15594 https://access.redhat.com/security/cve/CVE-2018-16658 https://access.redhat.com/security/cve/CVE-2018-16885 https://access.redhat.com/security/cve/CVE-2018-18281 https://access.redhat.com/security/cve/CVE-2018-7755 https://access.redhat.com/security/cve/CVE-2018-8087 https://access.redhat.com/security/cve/CVE-2018-9363 https://access.redhat.com/security/cve/CVE-2018-9516 https://access.redhat.com/security/cve/CVE-2018-9517 https://access.redhat.com/security/cve/CVE-2019-11599 https://access.redhat.com/security/cve/CVE-2019-11810 https://access.redhat.com/security/cve/CVE-2019-11833 https://access.redhat.com/security/cve/CVE-2019-3459 https://access.redhat.com/security/cve/CVE-2019-3460 https://access.redhat.com/security/cve/CVE-2019-3882 https://access.redhat.com/security/cve/CVE-2019-3900 https://access.redhat.com/security/cve/CVE-2019-5489 https://access.redhat.com/security/cve/CVE-2019-7222
AMS-7444	All appliance deployments	Update RPMs to address: RHSA-2019:2077 - https://access.redhat.com/errata/RHSA-2019:2077 ntp-4.2.6p5-29.el7.x86_64 ntpdate-4.2.6p5-29.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-12327
AMS-7446	All appliance deployments	Update RPMs to address:

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ID	Minimum conditions	Description
		RHSA-2019:2079 - https://access.redhat.com/errata/RHSA-2019:2079 libX11-common-1.6.7-2.el7.noarch libX11-1.6.7-2.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-14598 https://access.redhat.com/security/cve/CVE-2018-14599 https://access.redhat.com/security/cve/CVE-2018-14600 https://access.redhat.com/security/cve/CVE-2018-15853 https://access.redhat.com/security/cve/CVE-2018-15854 https://access.redhat.com/security/cve/CVE-2018-15855 https://access.redhat.com/security/cve/CVE-2018-15856 https://access.redhat.com/security/cve/CVE-2018-15857 https://access.redhat.com/security/cve/CVE-2018-15859 https://access.redhat.com/security/cve/CVE-2018-15861 https://access.redhat.com/security/cve/CVE-2018-15862 https://access.redhat.com/security/cve/CVE-2018-15863 https://access.redhat.com/security/cve/CVE-2018-15864
AMS-7442	All appliance deployments	Update RPMs to address: RHSA-2019:2091 - https://access.redhat.com/errata/RHSA-2019:2091 systemd-sysv-219-67.el7.x86_64 systemd-libs-219-67.el7.x86_64 systemd-219-67.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-15686 https://access.redhat.com/security/cve/CVE-2018-16866 https://access.redhat.com/security/cve/CVE-2018-16888
AMS-7447	All appliance deployments	Update RPMs to address: RHSA-2019:2197 - https://access.redhat.com/errata/RHSA-2019:2197 elfutils-libelf-0.176-2.el7.x86_64 elfutils-default-yama-scope-0.176-2.el7.noarch elfutils-libs-0.176-2.el7.x86_64 elfutils-0.176-2.el7.x86_64

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ID	Minimum conditions	Description
		https://access.redhat.com/security/cve/CVE-2018-16062 https://access.redhat.com/security/cve/CVE-2018-16402 https://access.redhat.com/security/cve/CVE-2018-16403 https://access.redhat.com/security/cve/CVE-2018-18310 https://access.redhat.com/security/cve/CVE-2018-18520 https://access.redhat.com/security/cve/CVE-2018-18521 https://access.redhat.com/security/cve/CVE-2019-7149 https://access.redhat.com/security/cve/CVE-2019-7150 https://access.redhat.com/security/cve/CVE-2019-7664 https://access.redhat.com/security/cve/CVE-2019-7665
AMS-7482	All appliance deployments	Update RPMs to address: RHSA-2019:2571 - https://access.redhat.com/errata/RHSA-2019:2571 pango-1.42.4-4.el7_7.x86_64 https://access.redhat.com/security/cve/CVE-2019-1010238
AMS-7481	All appliance deployments	Update RPMs to address: RHSA-2019:2600 - https://access.redhat.com/errata/RHSA-2019:2600 kernel-3.10.0-1062.1.1.el7.x86_64 https://access.redhat.com/security/cve/CVE-2019-1125 https://access.redhat.com/security/cve/CVE-2019-9500
N/A	All appliance deployments	Other security updates: RHSA-2019:1884 - https://access.redhat.com/errata/RHSA-2019:1884 libssh2-1.4.3-12.el7_6.3.x86_64 https://access.redhat.com/security/cve/CVE-2019-3862 RHSA-2019:2030 - https://access.redhat.com/errata/RHSA-2019:2030 python-libs-2.7.5-86.el7.x86_64 python-2.7.5-86.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-14647 https://access.redhat.com/security/cve/CVE-2019-5010 https://access.redhat.com/security/cve/CVE-2019-9740

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ID	Minimum conditions	Description
		https://access.redhat.com/security/cve/CVE-2019-9947 https://access.redhat.com/security/cve/CVE-2019-9948 RHSA-2019:2033 - https://access.redhat.com/errata/RHSA-2019:2033 patch-2.7.1-11.el7.x86_64 https://access.redhat.com/security/cve/CVE-2016-10713 https://access.redhat.com/security/cve/CVE-2018-6952 RHSA-2019:2047 - https://access.redhat.com/errata/RHSA-2019:2047 libcgroup-0.41-21.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-14348 RHSA-2019:2049 - https://access.redhat.com/errata/RHSA-2019:2049 libmspack-0.5-0.7.alpha.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-18584 https://access.redhat.com/security/cve/CVE-2018-18585 RHSA-2019:2057 - https://access.redhat.com/errata/RHSA-2019:2057 bind-32:9.11.4-9.P2.el7.x86_64 bind-libs-32:9.11.4-9.P2.el7.x86_64 bind-utils-32:9.11.4-9.P2.el7.x86_64 bind-license-32:9.11.4-9.P2.el7.noarch https://access.redhat.com/security/cve/CVE-2018-5741 RHSA-2019:2075 - https://access.redhat.com/errata/RHSA-2019:2075 binutils-2.27-41.base.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-1000876 https://access.redhat.com/security/cve/CVE-2018-12641 https://access.redhat.com/security/cve/CVE-2018-12697 RHSA-2019:2110 - https://access.redhat.com/errata/RHSA-2019:2110 rsyslog-gnutls-8.24.0-38.el7.x86_64 rsyslog-8.24.0-38.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-16881

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ID	Minimum conditions	Description
		RHSA-2019:2118 - https://access.redhat.com/errata/RHSA-2019:2118 glibc-2.17-292.el7.x86_64 glibc-common-2.17-292.el7.x86_64 https://access.redhat.com/security/cve/CVE-2016-10739 RHSA-2019:2136 - https://access.redhat.com/errata/RHSA-2019:2136 libssh2-1.8.0-3.el7.x86_64 https://access.redhat.com/security/cve/CVE-2019-3858 https://access.redhat.com/security/cve/CVE-2019-3861 RHSA-2019:2143 - https://access.redhat.com/errata/RHSA-2019:2143 openssh-server-7.4p1-21.el7.x86_64 openssh-7.4p1-21.el7.x86_64 openssh-clients-7.4p1-21.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-15473 RHSA-2019:2159 - https://access.redhat.com/errata/RHSA-2019:2159 unzip-6.0-20.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-18384 RHSA-2019:2169 - https://access.redhat.com/errata/RHSA-2019:2169 iwl4965-firmware-228.61.2.24-72.el7.noarch iwl6050-firmware-41.28.5.1-72.el7.noarch linux-firmware-20190429-72.gitddde598.el7.noarch iwl6000g2a-firmware-17.168.5.3-72.el7.noarch iwl6000-firmware-9.221.4.1-72.el7.noarch iwl100-firmware-39.31.5.1-72.el7.noarch iwl5150-firmware-8.24.2.2-72.el7.noarch iwl5000-firmware-8.83.5.1_1-72.el7.noarch iwl1000-firmware-1:39.31.5.1-72.el7.noarch iwl3945-firmware-15.32.2.9-72.el7.noarch https://access.redhat.com/security/cve/CVE-2018-5383

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ID	Minimum conditions	Description
		RHSA-2019:2181 - https://access.redhat.com/errata/RHSA-2019:2181 libcurl-7.29.0-54.el7.x86_64 curl-7.29.0-54.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-16842 RHSA-2019:2189 - https://access.redhat.com/errata/RHSA-2019:2189 procps-ng-3.3.10-26.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-1122 RHSA-2019:2237 - https://access.redhat.com/errata/RHSA-2019:2237 nss-3.44.0-4.el7.x86_64 nss-util-3.44.0-3.el7.x86_64 nss-tools-3.44.0-4.el7.x86_64 nss-softokn-freebl-3.44.0-5.el7.x86_64 nspr-4.21.0-1.el7.x86_64 nss-sysinit-3.44.0-4.el7.x86_64 nss-softokn-3.44.0-5.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-0495 https://access.redhat.com/security/cve/CVE-2018-12404 RHSA-2019:2304 - https://access.redhat.com/errata/RHSA-2019:2304 openssl-libs-1:1.0.2k-19.el7.x86_64 openssl-1:1.0.2k-19.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-0734 https://access.redhat.com/security/cve/CVE-2019-1559 RHSA-2019:2327 - https://access.redhat.com/errata/RHSA-2019:2327 mariadb-libs-1:5.5.64-1.el7.x86_64 https://access.redhat.com/security/cve/CVE-2018-3058 https://access.redhat.com/security/cve/CVE-2018-3063 https://access.redhat.com/security/cve/CVE-2018-3066 https://access.redhat.com/security/cve/CVE-2018-3081 https://access.redhat.com/security/cve/CVE-2018-3282 https://access.redhat.com/security/cve/CVE-2019-2503

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ID	Minimum conditions	Description
		https://access.redhat.com/security/cve/CVE-2019-2529 https://access.redhat.com/security/cve/CVE-2019-2614 https://access.redhat.com/security/cve/CVE-2019-2627 RHEA-2019:2354 - https://access.redhat.com/errata/RHEA-2019:2354 tzdata-2019b-1.el7.noarch.rpm https://bugzilla.redhat.com/show_bug.cgi?id=1728735 FEDORA-EPEL-2019-204f810692 https://bodhi.fedoraproject.org/updates/FEDORA-EPEL-2019-204f810692 clamav-0.101.3-1.el7.x86_64.rpm clamav-data-0.101.3-1.el7.noarch.rpm clamav-filesystem-0.101.3-1.el7.noarch.rpm clamav-lib-0.101.3-1.el7.x86_64.rpm clamav-update-0.101.3-1.el7.x86_64.rpm FEDORA-EPEL-2019-ae72f875d9 https://bodhi.fedoraproject.org/updates/FEDORA-EPEL-2019-ae72f875d9 clamav-0.101.4-1.el7.x86_64.rpm clamav-data-0.101.4-1.el7.noarch.rpm clamav-filesystem-0.101.4-1.el7.noarch.rpm clamav-lib-0.101.4-1.el7.x86_64.rpm clamav-update-0.101.4-1.el7.x86_64.rpm https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-12900 https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-12625

Fixes in Media Server for 8.0.2 SP1 (8.0.2.61)

The following table lists the fixes in this release.

ID	Minimum conditions	Description
AMS-7382	All CM deployments	Add Load Factor header to all outbound SIP INVITEs.
AMS-7388	All deployments	Fix to display empty content groups in EM Media Management Provisioning

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ID	Minimum conditions	Description
AMS-7366	All deployments with 1+1 HA or N+1 cluster.	Allow password change after login on non-primary media server.
AMS-7343	All video deployments	Frozen video during mid-call operation in Multi-shared conference.

Known issues and workarounds

Known issues and workarounds

The following table lists the known issues, symptoms, and workarounds in this release.

ID	Minimum conditions	Visible symptoms	Workaround
AMS-5318	Using latest Firefox, Chrome or Microsoft Edge browser.	Element Manager Session Detail Record Browser (located under Home » Tools » Session Detail Record Browser) doesn't work for Chrome, Firefox and Microsoft Edge since these browsers do not support Silverlight.	Use IE 11, older Firefox prior to 52, or older Chrome prior to 45.

Languages supported

List the languages supported in this release.

- *English*

Documentation errata

Document number	Title	Description
N/A		

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