aws elemental

# RELEASE NOTES

## AWS ELEMENTAL CONDUCTOR LIVE 3, VERSION 3.17 GA

AWS Elemental
1320 SW Broadway
Portland, Oregon, 97201

+1 503 222 3212
www.elemental.com

Copyright © 2020 AWS Elemental. All rights reserved.

# Contents

Introduction ..... 4

Types of Releases ..... 6

Software Upgrades ..... 7

Open Source Software Acknowledgements ..... 7

Conductor Live Release Notes 3.17.6 GA ..... 8
- Resolved Issues ..... 8
- Known Issues ..... 8

Conductor Live Release Notes 3.17.5 GA ..... 9
- Resolved Issues ..... 9
- Known Issues ..... 9

Conductor Live Release Notes 3.17.4 GA ..... 10
- Resolved Issues ..... 10
- Known Issues ..... 10

Conductor Live Release Notes 3.17.3 GA ..... 11
- Essential Notes ..... 11
- New Features ..... 12
- Resolved Issues ..... 12
- Known Issues ..... 13

 © 2020 AWS Elemental. All rights reserved. 

# INTRODUCTION

AWS Elemental Conductor Live 3 is a management system for controlling AWS Elemental Live and AWS Elemental Statmux.

These release notes describe features and known issues for AWS Elemental Conductor Live version 3.17.x.

Version 3.17.x of AWS Elemental Conductor Live is compatible with AWS Elemental Live 2.17.x and AWS Elemental Statmux 2.17.x and above. You must upgrade your AWS Elemental Live and AWS Elemental Statmux nodes to the 2.17.x release in order to control them in a cluster using for AWS Elemental Conductor Live 3 version 3.17.x.

AWS Elemental Conductor Live version 3.17.x communicates to the nodes in the cluster via the 2.17.x APIs.

## Node-based Redundancy

- AWS Elemental Conductor Live 3 provides redundancy for AWS Elemental Live and AWS Elemental Statmux node (worker node) redundancy. Worker nodes (AWS Elemental Live and AWS Elemental Statmux) controlled by AWS Elemental Conductor Live 3 can be set up so that if one node fails, a backup node takes over the activity of the failed node. A backup node is a passive reserve licensed worker node.
- AWS Elemental Conductor Live 3 provides Conductor node redundancy: the cluster can be set up with one primary and one backup Conductor node, so that if the primary were to fail, the backup would take over management of the worker nodes. Conductor node failure and failover have no impact on work currently in progress on the worker nodes.

## Profiles and Parameters

- AWS Elemental Conductor Live 3 requires profiles to create channels.
- AWS Elemental Conductor Live 3 profiles support variables in the form of “channel parameters”. This feature allows profiles to be very flexible: where appropriate, the value of a field can be set to a profile parameter, instead of a hard value. When the profile is used to create the channel, profile parameter values are defined by the operator. This is commonly used for input source and destination values.
- AWS Elemental Conductor Live 3 profile fields with blue treatment support channel parameters. Profile validation requires an operator to define validation values for the user configured profile parameters in order to save the profiles. The validation values are not used when creating a channel with the profile. The operator must specify values for the user configured channel parameters.
- A complete list of profile fields that support channel parameters is located in the AWS Elemental user community at https://community.elemental.com/docs/DOC-2840.
- Once profiles are created, they cannot be modified. Instead, a profile can be duplicated and modified, then saved with a new name.

## Channel Tasks – Bulk Actions

- AWS Elemental Conductor Live 3 supports the ability to start, stop or delete several channels at the same time, and to change the profile of several channels at the same time.

## MPTS Management

- AWS Elemental Conductor Live 3 provides MPTS creation and channel participation via the AWS Elemental Conductor Live 3 interface.
- The MPTS created by AWS Elemental Conductor Live 3 can reside on an AWS Elemental Live or an AWS Elemental Statmux node.

 © 2020 AWS Elemental. All rights reserved. 

## Status Management

- Alerts and messages that occur on worker nodes are sent to AWS Elemental Conductor Live 3 and displayed in the interface.
- AWS Elemental Conductor Live 3 can be configured to send a notification to an email address or web callback URL when an alert occurs.
- Operators can provide operational notes from the Status notifications page.


© 2020 AWS Elemental. All rights reserved.

# TYPES OF RELEASES

AWS Elemental Conductor Live 3 appliances currently offer monthly builds designated either General Release Major (GA), GA Maintenance, or Limited Release (LA).

## GA Major Builds

The Conductor Live 3 "Major Feature Release" GA builds:

- Are released several times a year and are intended for all standard workflows.
- Are available for download from the Elemental User Community by any customer with an active support agreement
- May be installed on new Conductor Live 3 appliances which ship from the factory.
- Are production ready builds that receive the spectrum of software support entitlements from the AWS Elemental Support team.

## GA Maintenance Builds

The Conductor Live 3 "Maintenance" GA builds follow GA builds and contain only fixes to issues.

## LA Builds

The Conductor Live 3 LA "Feature Release" builds:

- Are intended to deliver new features quickly to early adopter customers.
- Are only available for download from the Elemental User Community by pre-authorized customers with an active support agreement
- Are production ready builds that receive the spectrum of software support entitlements from the AWS Elemental Support team for a limited period of time.
- LA builds must be updated to GA builds within two GA release cycles after the LA build, or within eight (8) months, whichever is shorter.

 © 2020 AWS Elemental. All rights reserved. 

# SOFTWARE UPGRADES

You can find the currently installed version of AWS Elemental Live software at the bottom of the user interface or by typing the following at the command line:

```
cat /opt/elemental_se/versions.txt
```

Note that some features may be available only in certain models of AWS Elemental Live. For example, HEVC encoding is available only on licensed encoders.

# OPEN SOURCE SOFTWARE ACKNOWLEDGEMENTS

This version of AWS Elemental Conductor Live 3 does not include any new open source libraries. For general information about open source libraries in these products:

1. Go to the Conductor Live 3 web interface.
2. From the main menu, choose Support > Legal.
3. Scroll to the bottom of the page and click the Third Party Licenses link.


© 2020 AWS Elemental. All rights reserved.

# CONDUCTOR LIVE RELEASE NOTES 3.17.6 GA

## Resolved Issues

There are no resolved issues in this version.

Also see the resolved issues on page 12.

## Known Issues

There are no resolved issues in this version.

Also see the known issues on page 13.

 © 2020 AWS Elemental. All rights reserved. 

# CONDUCTOR LIVE RELEASE NOTES 3.17.5 GA

## Resolved Issues

There are no resolved issues in this version.

Also see the resolved issues on page 12.

## Known Issues

SC-4085: Cluster: Cl3 - Removed Live failed cluster node from UI present in serf members

Also see the known issues on page 13.

 © 2020 AWS Elemental. All rights reserved. 

# CONDUCTOR LIVE RELEASE NOTES 3.17.4 GA

## Resolved Issues

There are no resolved issues in this version.

Also see the resolved issues on page 12.

## Known Issues

There are no new known issues in this version.

Also see the known issues on page 13.

 © 2020 AWS Elemental. All rights reserved. 

# CONDUCTOR LIVE RELEASE NOTES 3.17.3 GA

## Essential Notes

### Version Numbering

The version numbers for Conductor Live 3 have been adjusted to align with the number used in AWS Elemental Live.

Now, the second and third octets align between the two products. So AWS Elemental Conductor Live 3 version 3.17.**3** is the version that corresponds to AWS Elemental Live version 2.17.**3**.

The versions of Conductor Live 3 that directly precede version 3.15.3 LA are in the "3.7.x" family.

### Version 3.17.x Does Not Install on Group 2 Hardware

You cannot install version 3.15.2 and later of AWS Elemental Conductor Live on "group 2" hardware. For a list of SKUs in group 2, see https://community.elemental.com/docs/DOC-4042.

### Changes to the Operating system

#### CentOS and RHEL 7.5 Support

AWS Conductor Live 3.17.x LA operates on CentOS and RHEL 7.5. It cannot be installed on CentOS 6.9.

You must perform a kickstart to migrate from CentOS and RHEL 6.9 to CentOS and RHEL 7.5. The kickstart will preserve AWS Conductor Live application data. This preserved data includes channel and presets.

#### CentOS and RHEL 7.5 Kickstart Does not Preserve Bond and VLAN Network Configurations

Network bond and VLAN configurations created in CentOS and RHEL 6.9 will be deleted during the kickstart to CentOS and RHEL 7.5. You must create this advanced network configurations from the Linux CLI following the kickstart. For information see:

- Creating a Network Bond in Centos 7 via CLI to create a bond from the Linux CLI.
- How can I create a VLAN interface in CentOS 7? to create a VLAN from the Linux CLI.

#### Linux system administration

You can now manage network configuration, firewall and network mount points from the Linux CLI. This functionality allows you to use DevOps tools to administer a cluster of appliances.

#### Network Bond and VLAN Must Be Created from the Linux CLI

You must create advanced network configurations from the Linux CLI. For information see:

- Creating a Network Bond in Centos 7 via CLI to create a bond from the Linux CLI.
- How can I create a VLAN interface in CentOS 7? to create a VLAN from the Linux CLI.

 © 2020 AWS Elemental. All rights reserved. 

### Network Mount Points Can Be Created from the Linux CLI

You can perform network mount from the Linux CLI.

### Downgrade to Live 2.14.x Requires a Kickstart

CentOS and RHEL 7.5 cannot be used as the operating system for AWS Conductor Live 2.14.x or below.

If you want to return to AWS Conductor Live 2.14.4 or below, you must perform a kickstart using the AWS Elemental version 3.4 kickstart to return to the CentOS and RHEL 6.9.

# New Features

## New Channel Task: Change Node Assignment

AWS Elemental Conductor Live offers a new channel task. Operators can now change the worker node assignment for a stopped channel. This operation can be performed as a bulk operation to change stopped channels en-masse.

# Resolved Issues

| Key | Topic | Description |
|---|---|---|
| SC-3935 | High availability | Previously, it might happen that the secondary Conductor node in an AWS Elemental Conductor Live cluster set up for HA (high availability) does not display network settings in the web interface. This issue has been resolved; the settings now appear. |
| SC-4039 | High availability | It is possible to inadvertently disable HA (high availability) when configuring a bond in a Conductor Live HA cluster. One of the symptoms that you have introduced this problem is that the web interface acts as if HA is enabled, but the green "'Enable" button is enabled (instead of the red "Disable" button), indicating that HA is not in fact enabled.<br>Changes have been made in the configuration process to prevent you being able to set up in this way. |
| SC-4040 | High availability | Previously, it could happen that enabling HA (high availability) in AWS Elemental Conductor Live 3 caused continual keepalived errors. This issue has been resolved. |
| SC-4032 | Network | Previously, you could not add or remove NTP servers using the web interface. This issue has now been resolved. |

 © 2020 AWS Elemental. All rights reserved. 

# Known Issues

| Key | Topic | Description |
|---|---|---|
| SC-3938 | Alerts for disk usage | AWS Elemental Conductor Live offers an alert notification when reaching 80% disk usage. There is no disk full alert when usage reaches 90%. |
| SC-2967 | Failover | The configure script does not function on an AWS Elemental Conductor Live node that has become a Leader after failover in a redundancy group. |
| SC-3219 | Failover | An input source is not returned to the prepared state following a worker node failover. |
| SC-3318 | Failover | Performing a worker node failover using “initiate failover” functionality does not guarantee the prevention of multicast output collision |
| SC-3444 | Failover | It is recommended that you test AWS Elemental Conductor Live failover by power cycling the current cluster leader. We do not recommend that you perform a management network disconnect for failover testing. Leadership will return to the original AWS Elemental Conductor Live system following the recovery of a management network disconnect. |
| SC-3937 | Firewall | All ports listed on the firewall page are opened when enabling the firewall. |
| SC-3435 | Firewall rules | The web interface does not prevent firewall rules that overlap. |
| SC-3092 | Installer, upgrade, downgrade | An issue has been uncovered that prevents a cluster simultaneously operating pooled licensing and node locked licensing. |
| SC-3307 | MPTS | The AWS Elemental Conductor Live web interface does not prevent an operator from modifying the "Enable Controller Only" checkbox while a MPTS is running. Operators must stop a running MPTS before modifying this setting. |
| SC-3461 | MPTS | The AWS Elemental Conductor Live web interface allows a channel with the Statmux rate control mode to be selected for addition to a MPTS more than once. This UI presentation is misleading; if you select a channel more than once, it appears as a duplicate, but it will only be included in the MPTS once. |
| SC-3462 | MPTS | A channel operating CBR rate control mode cannot be added to a single MPTS more than once from the web interface without performing a save after each channel addition. Operators must perform a save operation after each CBR channel addition to an MPTS. |
| SC-3648 | MPTS | An MPTS created before the Conductor Live 3.4.0 release will result in a 500 error when loading the MPTS tab in the 3.4.0 web interface. The MPTS will need to be deleted and recreated from the web interface.<br>This issue does not affect MPTS created when using Conductor Live 3.4.0 or above. |
| SC-3565 | Profiles | A profile with source input video selector filter enable set to disable will result in a 500 error when duplicating and uploading via the web interface. Uploading the profile via the API is the current workaround. |
| SC-3436 | REST API | The REST API does not return alerts in their chronological order when viewed by their "Last_at" field. |

 © 2020 AWS Elemental. All rights reserved. 

| Key | Topic | Description |
|---|---|---|
| SC-3464 | REST API | The API does not prevent adding a channel operating Statmux rate control mode to the same MPTS more than once. |
| SC-3256 | Schedule | The AWS Elemental Conductor Live web interface channel schedule calendar view does not accurately represent a channel that is scheduled to operate for more than 24 hours. This web interface representation does not prevent the operation of the scheduled channel. |
| SC-3317 | SDI input | A channel using a SDI router input and started without a specified input will result in a 500 error. |
| SC-3935 | Web interface | The secondary AWS Elemental Conductor Live operating in a high availability cluster does not display network settings in the web interface. |


© 2020 AWS Elemental. All rights reserved.