

Stack Manager

Mediant Cloud Edition (CE) SBC

Mediant Virtual Edition (VE) SBC

Table of Contents

1	Introduction.....	7
2	Stack Manager Versions	9
2.1	Version 2.0.9	9
2.2	Version 2.0.8	9
2.3	Version 2.0.7	9
2.4	Version 2.0.6	10
2.5	Version 2.0.5	10
2.6	Version 2.0.4	10
2.7	Version 2.0.3	10
2.8	Version 2.0.2	11
2.9	Version 2.0.1	12
2.10	Version 2.0.0	12
2.11	Version 1.9.9	12
2.12	Version 1.9.8	12
2.13	Version 1.9.7	12
2.14	Version 1.9.6	13
2.15	Version 1.9.5	13
2.16	Version 1.9.4	13
2.17	Version 1.9.3	13
2.18	Version 1.9.2	14
2.19	Version 1.9.1	14
2.20	Version 1.9.0	14

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Throughout this manual, unless otherwise specified, the term *device* refers to the AudioCodes products.

Related Documentation

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Stack Manager for Mediant VE-CE SBC User's Manual

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1 Introduction

This document describes the new features and bug fixes of Stack Manager per software version.



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2 Stack Manager Versions

This chapter describes the new features and bug fixes per Stack Manager software version.

2.1 Version 2.0.9

■ New Features:

- Improved error handling during stack creation - if components are created but Stack Manager fails to communicate with them, stack enters 'no-connection' state from which it can be healed
- Improved transition between CentOS 6 and CentOS 8 images for Mediant CE on Azure
- Combo-box for IAM Role element in Web interface's stack creation dialog

■ Fixed Bugs:

- Fixed display of instance type in Web interface
- Fixed parsing of 'resource_group' Advanced Config parameter for Mediant CE on Azure

2.2 Version 2.0.8

■ New Features:

- Support for CentOS 8 images for Mediant VE and CE on Azure
- Transition between CentOS 6 and CentOS 8 images for Mediant CE on Azure via 'modify' / 'update' commands
- Automatically accept Marketplace agreement during Mediant VE and CE deployment on Azure
- Improved 'rebuild' operation for Mediant CE on Azure - strive to preserve local IP addresses of rebuild components
- Improved Mediant CE on AWS creation / resize - if AWS fails to create MC instance due to intermittent datacenter failure, retry creation 3 more times
- Placement group used for Mediant VE on AWS
- 'diag_account = rg/name' Advanced Config parameter added for Mediant CE on Azure that enables use of existing storage account for diagnostics

2.3 Version 2.0.7

■ New Features:

- Improved 'Create new stack' user interface
- Improved security groups configuration for Mediant CE on Azure
- Improved 'update' operation for Mediant CE on Azure
- Improved 'upgrade' operation for all Mediant CE and Voice.AI Gateway applications so that it falls back to non-hitless upgrade if hitless upgrade is not supported
- 'reconfigure' operation added for Voice.AI Gateway application that regenerates configuration of SBC components without rebuilding them
- Transfer support to Voice.AI Gateway application
- Active alarms mechanism added for Voice.AI Gateway application. The following alarms are implemented:
 - ◆ fe-rest-api alarm: raised when Stack Manager can't read status of frontend

- SBC via REST API
 - ◆ fe-X-down alarm: raised when one of the frontend SBCs is down
 - ◆ center-down alarm: raised when data center is down
 - ◆ center-rest-api alarm: raised when Stack Manager can't connect to data center via REST API (to read status of session managers)
 - ◆ sbc-X-down alarm: raised when one of the worker SBCs is down
 - ◆ sbc-X-rest-api alarm: raised when Stack Manager can't read status of worker SBC via REST API
 - ◆ sm-X-down alarm: raised when one of the worker Session Managers is down
 - ◆ sm-X-missing alarm: raised when worker Session Manager is missing in data center REST API response
- Public IPs configuration added to 'Voice.AI Gateway (All In One)' application
- **Fixed Bugs:**
 - **Save** button turned on in SBC Web interface after new stack deployment
 - Fixed 'rebuild' operation for Voice.AI Gateway application so that it generates new configuration for SBC components
 - Fixed 'heal' operation for Voice.AI Gateway application so that it stops worker instances running by mistake

2.4 Version 2.0.6

- **Fixed Bugs:**
 - 'update' command fixed for Mediant CE on Google Cloud

2.5 Version 2.0.5

- **New Features:**
 - 'floating_ip = enable' advanced config parameter added for trial support of Load Balancer in Floating IP mode for Mediant CE on Azure
- **Fixed Bugs:**
 - Rebuild of signaling component fixed for Mediant CE on Azure

2.6 Version 2.0.4

- **New Features:**
 - Support for Additional 1 and 2 subnets for Mediant CE and VE on Google Cloud (due to GCP limitations, interfaces connected to these subnets may have only private IP addresses)
 - Allow modification of network configuration parameters for Mediant CE on Google Cloud
 - Implemented 'rebuild' operation for Mediant CE on Google Cloud
 - Improved 'rebuild' operation for Mediant CE on AWS and Azure
 - Improved 'update' operation for Mediant CE on AWS, Azure and Google Cloud
 - Improved 'heal' operation for Mediant CE on AWS, Azure and Google Cloud
 - Blacklist IPs after multiple failed login attempts
 - HTTP security headers added

2.7 Version 2.0.3

- **Fixed Bugs:** Fixed broken deployments in Google Cloud

2.8 Version 2.0.2

■ New Features:

- Active alarms mechanism added for Mediant VE and CE stacks:
 - ◆ Alarms are displayed in Mediant VE/CE Detailed Status screen and in **show** command
 - ◆ Stacks screen displays brief Alarms summary
 - ◆ Alarms raise/clear is recorded in Activity Log
 - ◆ To prevent false alarms, most alarms are raised only after the problem persists for 5 minutes
 - ◆ Following alarms are implemented:
 - rest-api alarm is raised when Stack Manager can't read status of Mediant VE/CE via REST API
 - mc-status alarm is raised when Stack Manager can't read status of Mediant CE's Media Components via REST API
 - mc-X-down alarm is raised when Media Component mc-X is not in-service (alarm description provides detailed mc state)
 - mc-X-missing alarm is raised when Media Component mc-X is missing from Mediant CE's configuration and Stack Manager can't fix it
 - sc-X-down alarm is raised when Signaling Component sc-X is down

- Allow modification of network configuration parameters for Mediant CE on Azure

- New syntax for **public_ips** and **additional_ips** parameters - use subnet name (main/additional1/additional2) instead of interface name (ethX), or 'all' to specify all interfaces. For example:

```
sc_public_ips = main,additional1
mc_additional_ips = additional1:2
```

- Parameters **oam_subnet_id**, **signaling1_subnet_id**, **signaling2_subnet_id**, **media1_subnet_id** and **media2_subnet_id** have been replaced by new parameters: **main_subnet_id**, **additional1_subnet_id** and **additional2_subnet_id**. To specify different additional subnets for Signaling and Media Components use the following syntax: `additional1_subnet_id = <sc_subnet_id>,<mc_subnet_id>`
- Advanced Config parameters added to Mediant CE Detailed Status screen and Modify dialog
- New 'comments' parameter for Mediant CE, which accepts free textual description (e.g. who uses the stack)
- Resource group existence is now checked prior to deployment on Azure
- Improved 'heal' operation on AWS when both Signaling Components are rebuilt
- Improved 'update' operation for Mediant CE when Media Component instance or profile changed
- 'spot_instances = enable' advanced configuration parameter added for Azure (for test environments)
- Fixed 'update' operation for Mediant CE stacks on AWS created by earlier stack_mgr versions
- Improved error handling
- Support for the Voice.AI Gateway (All In One) application added (for internal use only)

2.9 Version 2.0.1

■ New Features:

- 'Create stack' dialog in Web interface now provides the 'Public IPs' drop-down list, allowing the user to choose which subnets/interfaces have public IPs and which not, without manually typing any Additional Config parameters.
- Multiple IP addresses can now be configured on the same network interface, and additional private IP addresses on the same interface. (Supported on AWS, Azure and Google; Mediant CE and VE)

■ Fixed Bugs:

- 'heal' and 'rebuild' operations when both signaling components need to be rebuilt
- 'heal' operation when all components need to be rebuilt.

2.10 Version 2.0.0

■ New Features:

- New Azure Python SDK
- 'rebuild' operation improved for Mediant CE application
- Zones element removed from Mediant CE create dialog on Azure
- Support for --ids parameter to 'scale-out' operation
- scale in/out --ids parameter added to Web interface
- Protection from concurrent operations improved
- Display of stack in 'error' state improved
- 'stopped' state improved to detect VMs stopped outside Stack Manager
- Operation result added to Activity Log

■ Fixed Bugs:

- auto_scale/auto_heal log file rotation.

2.11 Version 1.9.9

■ Fixed Bugs:

- Fixed bugs introduced in Version 1.9.8.

2.12 Version 1.9.8

■ New Features:

- Components status display improved.

■ Fixed Bugs:

- Compatibility with azure v5.0.0 meta-package deprecation.

2.13 Version 1.9.7

■ New Features:

- Removed support for China / German Azure clouds because Mediant VE/CE offers are not available in these countries.

2.14 Version 1.9.6

- **New Features:**
 - Prevent Media Components reboot on Mediant CE creation.
 - Support for US Government / China / German Azure clouds.
- **Fixed Bugs:**
 - Modify of mc_instance_type - Media Components are rebuilt with correct PPS settings.
 - syslog_server update for Voice.AI Gateway application.

2.15 Version 1.9.5

- **New Features:**
 - Modification allowed of sc_instance_type/mc_instance_type.
 - Modification allowed of mc_profile.
 - Indication added for modify parameters that require update.
 - Performance of status display improved.

2.16 Version 1.9.4

- **New Features:**
 - 'upgrade' operation added for Mediant CE application.
 - Components status display improved.
 - Failure handling during heal operation improved.
- **Fixed Bugs:**
 - syslog_server update for Voice.AI Gateway application.

2.17 Version 1.9.3

- **New Features:**
 - Heal improved for deleted Signaling / Media Components in AWS.
 - New 'rebuild' operation for Mediant CE rebuilds stack components by deleting and re-creating the corresponding VMs. Names of components to be rebuilt must be specified as comma-separated list, e.g. 'sc-2,mc-1'. All Signaling / Media Components may be rebuilt by specifying 'sc' or 'mc' correspondingly.
Note: Even though 'rebuild' operation preserves IP addresses and components' configuration, it invalidates the license on rebuilt Signaling Components. Therefore, it's recommended to rebuild them one-by-one and apply the new license after each iteration.
 - Initial implementation of /acmng APIs for future integration with OVOC.

2.18 Version 1.9.2

- **New Features:**
 - Failure handling improved during Mediant CE auto-scale and resize.
 - Support for Voice.AI Gateway components status.
- **Fixed Bugs:**
 - Multiple stability fixes for Voice.AI Gateway application.

2.19 Version 1.9.1

- **Fixed Bugs:**
 - Update after min_mc_num adjustment.

2.20 Version 1.9.0

- **New Features:**
 - Heal added for deleted Signaling Components / Media Components in AWS.
 - Heal improved for deleted Media Components in Azure.
 - HTTP server logs re-designed.
 - Activity log added.
 - Auto-scale logic for scale-in operation improved.
- **Fixed Bugs:**
 - Azure SDK <https://github.com/Azure/azure-sdk-for-python/issues/9763>.

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