



Zenoss Resource Manager Release Notes

Release 5.0.4

Zenoss, Inc.

www.zenoss.com

Zenoss Resource Manager Release Notes

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About this document

Zenoss Resource Manager Release Notes contains important information about minor and micro releases of the following products:

- Zenoss Control Center (Control Center)
- Zenoss Resource Manager (Resource Manager)

Scope

This document provides information about the following releases of Control Center and Resource Manager:

Date	Control Center	Resource Manager
13 July 2015	1.0.4	5.0.4
27 May 2015	1.0.3	5.0.3
22 May 2015 (Updated Notes and workarounds)	1.0.2	5.0.2
20 April 2015	1.0.2	5.0.2
03 April 2015	1.0.1	5.0.1
24 February 2015	1.0.0	5.0.0

Supported clients and browsers

The client operating systems and web browser combinations supported in this release.

- All browsers must have Adobe® Flash® Player 11 installed, or a more recent version.
- Compatibility mode is not supported in Internet Explorer.

Client OS	Supported Browsers
Windows 7 and 8.1	Internet Explorer 11 (enterprise mode is supported)
	Internet Explorer 10
	Firefox 30 and above
	Chrome 30 and above
Windows Server 2012 R2	Firefox 30
	Chrome 36
Macintosh OS/X 10.9	Firefox 30 and above
	Chrome 36 and above
Ubuntu 14.04 LTS	Firefox 30 and above
	Chrome 37 and above
Red Hat Enterprise Linux 6.5, CentOS 6.5	Firefox 30 and above
	Chrome 37 and above

Feature changes

Features 1.0.4 / 5.0.4

- A new document is available, the *Zenoss Resource Manager Upgrade Guide*. The *Zenoss Resource Manager Installation Guide* no longer contains upgrade information.
- Control Center now requires that Docker use the `devicemapper` storage driver for its images, which are stored at `/var/lib/docker`. Previously, the `trfs` storage driver was required on RHEL and CentOS systems, and the `aufs` storage driver was required on Ubuntu systems.

In addition, Control Center now requires a separate file system for `/var/lib/docker`. Previously, a separate file system was not required on Ubuntu systems.

For more information about the changes, refer to the *Zenoss Resource Manager Upgrade Guide* and the *Zenoss Resource Manager Installation Guide*.

Features 1.0.3 / 5.0.3

- No new features, only fixed issues in this release.

Features 1.0.2 / 5.0.2

- Updated vSphere ZenPack to version 3.1.1.

Features 1.0.1 / 5.0.1

- An option to clone an existing service has been added to the `serviced` command. For more information, log in to the Control Center master host as user with `serviced` privileges and enter `serviced service clone --help` at the command line.
- To enable performance tuning of event processing, the MariaDB instance has been split into two separate instances; one for the Zen Object database (ZODB) and the other for the Zenoss Events Processor database (ZEP). In the previous release, MariaDB was a single instance supporting both ZODB and ZEP.
- Product-specific upgrade scripts, which automate the backend upgrade tasks, are included in the new product images. For more information, refer to the *Zenoss Resource Manager Installation Guide*.

Features 1.0.0 / 5.0.0

- Resource Manager is now installed and managed from the Zenoss Control Center. The Control Center is built upon Docker, an open-source platform that uses virtual containers to simplify the packaging, installation and management of applications. Control Center provides both a web-based user interface and the `serviced` command line option. For more information, see the Zenoss Control Center help.
- Zenoss daemons now run within individual, virtual Docker containers. Containers are light-weight operating environments that contain everything required for an application to run.
- Zenoss daemons can now run on any host in a Resource Pool. They are no longer anchored to a specific host.
- Performance metrics are now stored in OpenTSDB and HBase instead of RRD Files.
- Log files are now collected by Logstash and stored in an Elasticsearch database for improved viewing and searching.
- OpenJDK replaces Oracle JRE.
- Backup and restore is now performed across the entire application. In previous versions, backups could only be run on the master server or a specific collector.
- Graphs are now dynamically rendered using JavaScript library (NVD3.js).

Fixed issues

Fixed 1.0.4 / 5.0.4

ID	Description
CC-876	ElasticSearch creates an address vulnerability.
CC-884	Control Center not working correctly with a non-default port number.
CC-945	Clicking the View log link for a service instance displays <code>Internal Server Error: unexpected EOF</code> .
CC-984	Control Center allows access to command consoles, such as Zookeeper, ElasticSearch, OpenTSDB, and so on.
CC-994	HMaster service fails to start on Ubuntu kernels 3.13.0-53-generic and 3.16.0-38-generic
CC-998	<code>serviced</code> CLI now supports a healthcheck command that reports on the health of <code>serviced</code> itself, so that a deployment of Control Center masters in a High Availability cluster can monitor the health of <code>serviced</code> and trigger a failover if it stops responding.
CC-1013	<code>/var/lib/docker</code> is consumed by a large a Hbase master log.
CC-1014	Container logs filled up <code>/var/lib/docker</code> .
CC-1035	Include <code>serviced</code> maintenance scripts in the product install package.
CC-1040	Internal process logged unnecessary messages.
CC-1042	Improved log rotation to minimize disk space usage.
CC-1052	Disabling <code>btrfs balance</code> as it potentially causes high load on the system.
CC-1060	New <code>serviced-container-usage</code> utility doesn't work with <code>devicemapper</code> .
ZEN-16692	When the <code>zencommand</code> data source is set to "Use SSH", <code>zentestcommand</code> does not login via SSH to the target device.
ZEN-16752	On the Infrastructure page, an Export button has been added to the Device list view, so that devices listed in a specific device Class, Group, or Location, as shown on the user interface, can be exported to a comma separate value (CSV) file.
ZEN-16855, ZEN-18055, ZEN-17778	Added native support for modeling and monitoring on CentOS7.
ZEN-17174	The <code>zenmib run file</code> command does not map current directory.
ZEN-17516, ZEN-18179	When evaluating a trigger defined with a custom event detail, an exception is raised resulting in the trigger failing to process.
ZEN-17725, ZEN-17763	The <code>zencatalogservice</code> command is unresponsive because the <code>IndexReader</code> did not catch a closed exception, and therefore did not launch a new instance..
ZEN-17777	Deep linking does not work when node names contain periods.
ZEN-17781	The configured Cycle Time for a Command Data Source is not always followed.
ZEN-17898	Only the first 20 lines of saved <code>%transforms</code> were displayed in the Transform editor.
ZEN-17964	After changing the default password, an Admin could continue to log in using the default password.

ID	Description
ZEN-17972	Multiple zooms on a graph lead to "No Data Available" message.
ZEN-18143	When adding a device, several zProperty values were not correctly inherited.
ZEN-18295	After an upgrade from 5.0.1 to 5.0.2, the Zenoss Application version continued to display 5.0.1 in Control Center.
ZEN-18378	SSH Linux devices with multiple ethernet IP addresses caused a modeling error.
ZEN-18409	Reduce the amount of HBase logging.
ZEN-18410	nginx access logs can grow without limit.
ZEN-18413	The Metric Consumer is logging unnecessary messages.
ZEN-18417	Improved log rotation to minimize disk space usage.
ZEN-18555	The CiscoStatus threshold does not generate events if component status is Down.
ZEN-18561	ZenPack export doesn't export monitoring templates in nested device classes.

Fixed 1.0.3 / 5.0.3

ID	Description
CC-897, CC-954, CC-955	Cannot purge Logstash entries older than 14 days. This issue causes Logstash logs to consume an excessive amount of disk space. Logstash files growing without bound leading to volumes running out of diskspace.
CC-904	serviced fails to start NFS Server (nfs-server-service) on RHEL/CentOS 7.0.
CC-938	serviced fails to start services on remote hosts running RHEL 7.1.
CC-966	serviced script service paths should be case insensitive.
CC-972	Package does not contain the original build number in package metadata.
CC-973	serviced version is not displayed on agents after an upgrade is performed.
ZEN-15034	On Google map dashboard, navigation for device event may show events for devices not available under selected location.
ZEN-16379	Interface Volume graph is not loading data for columns: In Vol, In Vol/day, Out Vol, Out Vol/day .
ZEN-16815	Impact portlet is unavailable.
ZEN-17189	Under User Interface settings, an Admin user can now disable auto refresh for job notifications by setting Job Notification Refresh Interval to 0.
ZEN-17403	SNMP agent down events are not detected during device modeling.
ZEN-17657	The dmd version is not being set after an upgrade.
ZEN-17672	Added logging for in flight metrics to metricshipper to help troubleshoot the datapoint pipeline.
ZEN-17748	When a notification has been configured with a repeat interval, the notifications do not stop once the event has been acknowledged.
ZEN-17749	No metric value in logs for metric consumer.
ZEN-17753	Remote daemons over VPN losing connectivity.

ID	Description
ZEN-17754	SNMPv1 trap is assigned a different IP address during deduplication, without attaching the correct IP realm.
ZEN-17755	zencommand JSON parser fails silently when a datapoint name in the output does not match a configured datapoint.
ZEN-17757	Event Source and Source Information not displayed on Event Details pane. This is a Resource Manager change in support of Global Operations Manager (GOM).)
ZEN-17758	Zen Event Processor (zep) generates large number of Lucene files.
ZEN-17759	Zen Events Processor (zep) logging has been updated to include time spent in post-indexing plugins.
ZEN-17760	Update Zen Events Processor (zep) default throttle settings to improve performance.
ZEN-17765	Zen Event Processor (zep) spawns a large number of threads.
ZEN-17766	Unable to sort by count within the Event Console.
ZEN-17767	Event properties are not displayed in the UI when double-clicking on an event.
ZEN-17772	ZenPack install fails to add all device classes if the same name is used within the same hierarchy.
ZEN-17773	Auto-refresh of jobs occurs when read-only Zenuser is logged in.
ZEN-17775	Export button on Infrastructure page does not take selected organizer class into account.
ZEN-17779	Cannot update a boolean zProperty to false using the updateDevice function.
ZEN-17780	Problem exporting IP to comma separated value (CSV) through Export All on a custom report.
ZEN-17782	Sorting by Sort Column and Sort Sense not working on a custom device report.

Fixed 1.0.2 / 5.0.2

ID	Description
CC-902	Support for RHEL 7.1/CentOS 7.1.
CC-918	Control Center graphics do not display.
ZEN-17442	Improved zenosdbpack to support performance enhancements in vSphere ZenPack 3.1.1.

Fixed 1.0.1 / 5.0.1

ID	Description
CC-883	serviced attach and action do not support case-insensitive matching.
CC-888	Cannot edit a service if EDITOR is referencing a script.
ZEN-15206	A 'Clear filter' option has been added to the Infrastructure page.
ZEN-16394	Improved reliability of event indexing when errors occur.
ZEN-16492	With Event Archive backed with Solr, stopping zep results in a NullPointerException.
ZEN-16639	When using zencommand, the count for OSProcess are higher than expected.

ID	Description
ZEN-16640	When MultiRealm Zenpack is installed, event transform to change device does not change the rest of the device context.
ZEN-16642	Reports fail to load with error regarding insufficient privileges.
ZEN-16664	When a job fails, an associated event is not generated.
ZEN-16666	Events not logging when notification enabled for blocking updates to a device.
ZEN-16693	Collector daemon will stop collecting data for a device and will go into a task postponement loop.
ZEN-16694	Device or component, which is locked from deletion, can be deleted.
ZEN-16698	Toggling zMonitor under the Windows Services class does not toggle monitor attribute on services components. This happens in cases when the property is toggled directly on the Service Class, and also when a Service Class is moved in to a new Service Organizer and inherits a different value from it.
ZEN-16707	Logging of transform errors does not adhere to log rotation rules.
ZEN-16719	Zep metrics have been updated to include the number of events indexed.
ZEN-16750	With Event Archive backed with Solr, exporting of events results in no data.
ZEN-16751	NOT filters not working for the archive console.
ZEN-16753	zensyslog truncates syslogs with messages when a message contains a colon character (:) preceded by a non-space character and then followed by a space.
ZEN-16755	Adding a large amount of notes (16MB) to an event can cause a traceback.
ZEN-16832	The connection_info table can grow without bounds.
ZEN-16939	Zenpack with a custom service definition, with variables in command string, fail to start.

Known issues

Known 1.0.4 / 5.0.4

There are no new known issues for this release.

Known 1.0.3 / 5.0.3

There are no new known issues for this release.

Known 1.0.2 / 5.0.2

ID	Description	Status
CC-612	Unable to send traps to <code>zentrap</code> from the Control Center master host. For more information, see Accessing services via assigned IPs (CC-612) on page 11.	Open
CC-954	Cannot purge Logstash entries older than 14 days. This issue causes Logstash logs to consume an excessive amount of disk space.	Fixed (1.0.3)
ZEN-17758	The <code>zeneventserver</code> is not removing Lucene files, which causes the Lucene files to grow indefinitely. This is a known issue for Resource Manager v4.2.x and v5.0.x.	Fixed (5.0.3)

Known 1.0.0 / 5.0.0

ID	Description	Status
ZEN-6010	Users assigned the ZenOperator role are unable to save Production state changes. For more information, see Allowing ZenOperator users to manage Production state changes (ZEN-6010) on page 11.	Open
ZEN-13766	When OpenTSDB or Hbase is unavailable, the process that consumes the queue of incoming metrics is unable to handle all of the metrics, and some are dropped.	Open
ZEN-16644	After a catastrophic crash, <code>zeneventserver</code> may be unable to start because the Lucene index is corrupted. For more information, see Recovering a corrupted Lucene index (ZEN-16644) on page 11.	Open
CC-596	In multi-host deployments, Control Center and Resource Manager services do not automatically restart when the NFS daemon on the master host is stopped and restarted. To recover, restart all services manually.	Open
CC-692	During long-running backups or restores, the ZooKeeper service may time out. To recover it, enter <code>docker stop serviccd-isvcs_zookeeper</code> . Control Center restarts the ZooKeeper service.	Open
CC-768	If the partition in which Control Center internal services store data runs out of space, the ZooKeeper database can become corrupted. The symptom is services report stopping indefinitely. For more information, see Recovering a corrupted ZooKeeper database (CC-768) on page 12.	Open

Notes and workarounds

Notes 1.0.4 / 5.0.4

(Optional) Optimizing log file disk space consumption

This release fixes several disk space consumption issues related to log files. However, you can further optimize the amount of space log files consume by updating the existing Consumer and Query service configuration files.

- 1 Log in to the Control Center.
- 2 In the **Applications** table, click `Zenossresmgr5`.
- 3 On the **Applications** page, click `CentralQuery`.
- 4 Under **Configuration Files**, select `/opt/zenoss/etc/central-query/configuration.yaml`, then click **Edit**.
- 5 Locate the `http` stanza and add the following lines using proper indentation:

```
requestLog:
  console:
    enabled: false
```

- 6 Save the file.
- 7 Select `/opt/zenoss/etc/central-query-query_supervisor.conf`, and click **Edit**.
- 8 Change `stdout_logfile_backups` to 2.
- 9 Save the file.
- 10 Click **Restart** to restart `CentralQuery`.

Notes 1.0.2 / 5.0.2

Accessing services via assigned IPs (CC-612)

By default, Resource Manager services with assigned IP addresses (for example, `zentrap`) are given the IP address of the Control Center master host. Currently, the `iptables` implementation of assigned IP networking does not examine packets on the loopback interface. As a result, tests like sending a trap to `zentrap` while logged in to the Control Center master host do not succeed, unless the test is performed inside a Docker container. Alternatively, tests may be performed from a host other than the Control Center master host.

Notes 1.0.0 / 5.0.0

Allowing ZenOperator users to manage Production state changes (ZEN-6010)

Users with the ZenOperator role are unable to control the Production status of managed objects in the device details screen (Infrastructure > Device > *Device-Name*). To allow a user to manage these objects, add the ZenManager role to the user's profile. For information on how to modify user roles, refer to Chapter 14, "Managing Users," in the *Zenoss Resource Manager Administration Guide*.

Recovering a corrupted Lucene index (ZEN-16644)

One of the symptoms of unrecoverable errors is errors such as the following in the `zeneventserver.log` file.

```
java.io.EOFException: read past EOF: MMapIndexInput (path="/opt/zenoss/var/zeneventserver/index/summary/segments_xlh")
```

To recover, follow these steps.

- 1 Log in to the master host as a user with `serviced` CLI privileges.
- 2 Determine the value of the `SERVICED_VARPATH` variable.

```
grep SERVICED_VARPATH /etc/default/serviced
```

- 3 Change directory.

```
cd SERVICED_VARPATH/volumes/Volume-Number/zeneventserver/index
```

- 4 Verify the current working directory.

```
pwd
```

- 5 Delete the current directory contents.

```
rm -rf ./*
```

- 6 Restart the `zeneventserver` service.

Recovering a corrupted ZooKeeper database (CC-768)

Follow these steps to restart Control Center and Resource Manager.

- 1 Log in to the master host as a user with `serviced` CLI privileges.
- 2 Determine the value of the `SERVICED_VARPATH` variable.

```
grep SERVICED_VARPATH /etc/default/serviced
```

- 3 Delete the `zookeeper` directory.

```
rm -rf SERVICED_VARPATH/isvcs/zookeeper
```

- 4 Start Control Center.

Limitations

The size of the CentralQuery maximum memory allocation pool is set by the *RAMCommitment* variable in the CentralQuery service definition. The default value is 1024MB. Do not change the value to anything less than 1024MB. (ZEN-15907).

Additional information

Beginning with release 5.0.0, all Resource Manager distributions include PDF versions of the following documents:

- Zenoss Resource Manager Installation Guide
- Zenoss Resource Manager Upgrade Guide
- Zenoss Resource Manager Administration Guide

Likewise, all releases of Control Center include an HTML version of its documentation.

The documentation included in a release is in synch with the release. That is, instead of inserting errata into release notes, document errors are corrected, and the corrected documents are included in the upgrade or patch release. Similarly, when a feature change or addition is included in an upgrade or patch release, the documentation is updated, too.

Documentation feedback

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