

Zenoss Resource Manager Release Notes

Release 5.1.7

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 Zenoss Resource Manager (Resource Manager).

For information about Control Center, refer to the Control Center Release Notes.

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

Release
5.1.7
5.1.6
5.1.5
5.1.4
5.1.3
5.1.2
5.1.1



Supported operating environments

The following topic describes the supported operating environments for installing and using Control Center and Resource Manager:

- Supported compatibility matrix and host operating systems
- Supported hypervisors
- Supported public cloud platforms
- Supported client operating systems and browsers

Table 1: Supported compatibility matrix and host operating systems

Resource Manager	Control Center	Supported host OS
5.1.7	1.1.5, 1.1.6, 1.1.7, 1.1.8	RHEL/CentOS 7.1 or 7.2 (64-bit)
5.1.6 - Internal Release Only		
5.1.5	1.1.5, 1.1.6, 1.1.7	RHEL/CentOS 7.1 or 7.2 (64-bit)
5.1.4	1.1.5, 1.1.6, 1.1.7	RHEL/CentOS 7.1 or 7.2 (64-bit)
5.1.3	1.1.2, 1.1.3, 1.1.5	RHEL/CentOS 7.1 or 7.2 (64-bit)
5.1.2	1.1.2, 1.1.3	RHEL/CentOS 7.1 or 7.2 (64-bit)
5.1.1	1.1.1, 1.1.2	RHEL/CentOS 7.1 or 7.2 (64-bit)

Table 2: Supported hypervisors

Hypervisor	Version
VMware vSphere	5.0, 5.1, 5.5, 6.0
Microsoft Hyper-V	 Version 2.0 with Windows Server 2008 R2 SP1 Version 3.0 with Windows Server 2012 and 2012 R2

Table 3: Supported public cloud platforms

Public cloud platform	Notes
Amazon Web Services (AWS)	
Microsoft Azure	Only for collectors; deploying Resource Manager and Control Center on this cloud platform is NOT supported.

Table 4: Supported client operating systems and browsers

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

Client OS	Supported Browsers
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,	Firefox 30 and above
CentOS 6.5	Chrome 37 and above

Note

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

Resource Manager 5.1.7

There are no new features in this release.

Fixed issues

Table 5: Release 5.1.7

ID	Description
ZEN-22769	Monitoring does not work after restarting Linux devices.
ZEN-23374	RHEL/CentOS 7 connections fail with SSH timeout when zSshConcurrentSessions is set to more than 1.
ZEN-23392	Support for OpenSSH 7.0 (1.7)+ targets.
ZEN-23446	zenmodeler finds devices in a case-insensitive way.
ZEN-23544	ZenPack install can create duplicate mappings.
ZEN-23612	Device Chart portlet does not render properly.
ZEN-23774	Session cookies are created without HTTPOnly flag set.
ZEN-23867	The zproxy_answering healthcheck can give false positives.
ZEN-24108	Disabled boolean fields are difficult to read in component details.
ZEN-24173	Deep linking does not work when configured with paginated views.
ZEN-24235	Multigraph reports display the datapoint name as the graph name.
ZEN-24271	When attempting to export some traps to CSV, the export completes but cannot be read in any viewer due to the number of columns exceeding the limits of the viewer.
ZEN-24274	Having community/custom ZenPacks can break an upgrade.
ZEN-24291	When upgrading, the migration script generates an invalid zproxy-nginx.conf.
ZEN-24298	Graph shows "No data available" after 20 minutes.
ZEN-24331	While modeling large vSphere environments, where a single datastore was connected to thousands of VMs, zenhub would consume a large quantity of CPU for 10+ seconds for each new VM indexed.
ZEN-24395	HBase region server logs are not captured in Logstash.

ID	Description
ZEN-24454	After locking a dashboard, updates continue to occur.
ZEN-24461	Flare message KeyError: 'uid' displayed after editing the dashboard.
ZEN-24644	If OpenTSDB tables are deleted, they will never get recreated in an upgraded environment.
ZEN-24666	Under certain conditions, zencommand will not reestablish connection after a connection is lost.
ZEN-24708	Some graphs, like throughput, always show zeros if data being gathered is 64-bit.



Resource Manager 5.1.6

This was an internal release only.

Resource Manager 5.1.5

There are no new features in this release.

Fixed issues

Table 6: Fixed issues in Resource Manager 5.1.5

ID	Description
ZEN-5940	ZenOperator role allows you to access production state, but it does not allow the user to save changes.
ZEN-22175	The Zenmodeler service does not publish metrics into Control Center.
ZEN-22732	Cisco interfaces without ifindex entries cause modeling to fail.
ZEN-22889	Zenossdbpack tries to pack zodb_session, which is no longer valid.
ZEN-22958	If the database passwords for mariadb-events/model are updated, several healthchecks will fail permanently despite the system working correctly.
ZEN-23033	User with no global role can see devices on the dashboard.
ZEN-23086	Resource Manager instances that have been upgraded from version 5.0.x will not have tags on the image names in their service definitions. This causes shell and run commands to force a pull of the image, which will retrieve every tag from the registry; therefore, on an upgraded system, starting a shell or run command is slower than in a clean install.
ZEN-23150	Update SMTP setup page to reference email notifications.
ZEN-23446	Zenmodeler searches for devices in a case-insensitive manner.
ZEN-23456	Upgrade to PythonCollector 1.8.1.
ZEN-23465	Disable zproxy_answering healthcheck since this healthcheck can display false positives.
ZEN-23545	Zenhub main process consumes 100% CPU if workers are busy.
ZEN-23733	Deleting the default dashboard may lead to every user getting a white screen.
ZEN-23745	With the MultiRealm ZenPack installed, sending an even through the UI fails to link the device context to the event.
ZEN-23755	XSS vulnerability in Discover Networks through the Community string.

ID	Description
ZEN-23806	Resource Manager MetricConsumer is leaking session objects (memory/heap)
ZEN-23807	Resource Manager CentralQuery is leaking session objects (memory/heap)
ZEN-23841	Enabling predictive thresholds on a lot of metrics causes zauth to crash.
ZEN-23843	Zenhub logs to zauth too frequently.
ZEN-23847	Users are unable to open and view the File System Monitoring template.
ZEN-23872	zauth is overloaded and becomes unresponsive if too many central queries and metric consumers are running.
ZEN-23992	The All Monitored Components report causes high CPU and memory usage.
ZEN-24038	Upgrade LinuxMonitor to 2.0.2
ZEN-24059	Event Console is not displaying events.
ZEN-24074	Restart CentralQuery automatically if an OutOfMemory error is encountered.
ZEN-24095	Increase the number of concurrent memcached connections before throttling requests.

Resource Manager 5.1.4

New features

serviced volume status command

This release introduces a new serviced volume status command that provides detailed information on the volume located at /opt/serviced/var/volumes. You can get metrics on the thin pool as well as application data on the filesystem usage, virtual device size, unallocated space, and pool space allocated to virtual devices and snapshots.

■ Public endpoints

Another feature available is the ability to create public endpoints for access to the Resource Manager web server. See the *Zenoss Resource Manager Configuration Guide* for instructions on creating port public endpoints and virtual host public endpoints.

Fixed issues

Table 7: Release 5.1.4

ID	Description
ZEN-19709	Device status is unknown under / Ping
ZEN-21533	Impossible to set an alternate manageIp for IpServices components
ZEN-21835	Notification traps always sent as v2
ZEN-22955	Usability issue with Test Datasource timeout
ZEN-22960	Add an ID to identify the instance when using multiple hub instances
ZEN-22961	Datasource Test against a device always tests localhost
ZEN-23021	Creating a port endpoint and disabling https in zope breaks graphs
ZEN-23084	Zenossdbpack needs further optimization since it dies with OOM error in large environments
ZEN-23208	Zope health checks give false impression of instability
ZEN-23298	LDAP authenticator doesn't support group to multiple roles
ZEN-23302	ZEP Warning - Failed processing message

ID	Description
ZEN-23352	Import of triggers from version 4.2.4 to 5.1.2 is not working
ZEN-23402	Control Center page displays a flare when Control Center is on a non-443 port
ZEN-23457	Possible XSS vulnerability in UI code
ZEN-23487	Global Operations Manager not compatible with content-type strict verification changes
ZEN-23584	Update to LinuxMonitor 2.x
ZEN-23643	ISO installation fails
ZEN-23669	Improve storage monitoring in Control Center ZenPack
ZEN-23692	After upgrading to version 5.1.4, Control Center device is not available
ZEN-23699	Service Impact
ZEN-23740	Changed values in zeneventserver configuration not honored in version 5.0.9
ZEN-23758	Make the component grid page size configurable
ZEN-23759	Marshalling device components makes a ZEP call per component

Notes and workarounds

CentOS kernel defect affects volume status feature

Due to an issue in the CentOS kernel (https://bugzilla.redhat.com/show_bug.cgi?id=1286500), the serviced volume status feature that was introduced in Control Center 1.1.6 has been changed to not report storage.device.allocated and storage.snapshot.allocated. When the CentOS kernel 3.10.0-366.el7 is released, the full functionality of this feature will be restored.

CentOS 7.2 has fixed a defect that prevents fstrim from working (ZEN-23525)

There was a defect in CentOS 7.2 that prevented fstrim from working. In kernel version 3.10.0-327 or higher, fstrim now works. Ensure that your system is running this kernel version or higher. To check the kernel version, as the root user, execute the following command: uname -r

If you need to update your kernel, execute yum -y update or yum -y update kernel

Resource Manager 5.1.3

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There are no new features in this release.

Fixed issues

Table 8: Release 5.1.3

ID	Description	
ZEN-14671	ValueChange threshold alerts on a change from None to 0	
ZEN-21545	Cannot get device state to change from Unknown	
ZEN-22795	Commands run against a device via the UI are run on master, not on the collector host	
ZEN-22869	Service definitions have versions in the startup and other paths	
ZEN-22902	Appliances need no utility	
ZEN-22943	zendisc changes the production state of existing devices	
ZEN-22952	A user with restricted access is unable to bulk-close events	
ZEN-22953	zCommandPassword text box on the Add Device dialog allows autocomplete	
ZEN-22954	After bulk-adding hosts, Resource Manager will not add any further jobs	
ZEN-22963	UPTIME python regular express is not matching on SUSE/Novell Linux uptime string	
ZEN-23033	User with no global role can see devices in the dashboard that should be restricted	
ZEN-23054	zenossdbpack is not automatically run anymore	
ZEN-23088	Opentsdb image is not changed during upgrade	
ZEN-23199	Central query becomes unresponsive with too many connections	
ZEN-23221	snmpwalk user command does not pass in correct SNMP v3 arguments	
ZEN-23223	Pausing RabbitMQ may not be working properly	
ZEN-23247	Upgrade scripts contain the wrong image tag reference	
ZEN-23284	Beaker cookies should be secure after upgrade from version 5.1.2	

Notes and workarounds

Upgrade procedures

To upgrade to this release, first upgrade Control Center, and then upgrade Resource Manager. The procedures are in separate parts of the *Zenoss Resource Manager Upgrade Guide*.

Resource Manager 5.1.2

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There are no new features in this release.

Fixed issues

Table 9: Release 5.1.2

ID	Description
ZEN-18100	Cross-site scripting from exposed helper methods
ZEN-19004	zminion stuck waiting for response for zminion-return
ZEN-19240	Ensure that SSL certificates use SHA-256
ZEN-19573	Remote collector zentrap stops processing traps properly if Resource Manager is restarted.
ZEN-21716	zeneventd cannot access zep/zeneventserver directly for transforms
ZEN-22160	Incorrect SNMP v3 parameters cause traceback when modeling
ZEN-22239	User cannot create a maintenance window despite having ZenManager privileges
ZEN-22248	LDAP flare appears when use has no Manager DN or password
ZEN-22289	User with ZenManager role is unable to modify notification subscribers
ZEN-22429	Hpux ZenPack needs to be at version 2.0.0 by default
ZEN-22437	Unable to assign a dashboard to a local user group
ZEN-22792	zenbatchdump fails on deployments that have distributed collectors
ZEN-22981	TTL for OpenTSDB is not being set to 90 days by default

Resource Manager 5.1.1

New features

Control Center storage

The storage underlying Control Center has changed from btrfs to DeviceMapper. Migration to DeviceMapper is required as part of the upgrade process, and migration tools are provided. Follow the instructions in the Zenoss Resource Manager Upgrade Guide when migrating from Control Center 1.0.x to Control Center 1.1.x.

Supported upgrade paths

• Migration to Control Center 1.1.x is supported from Control Center 1.0.6 or later. If you are currently running an earlier version of Control Center, it is recommended that you migrate first to Control Center 1.0.9 or Control Center 1.0.10. Similarly, migration to Resource Manager 5.1.3 is supported from Resource Manager 5.0.6 or later. If you are currently running an earlier version of Resource Manager, it is recommended that you first upgrade to Resource Manager 5.0.6.

Control Center backup enhancements

 Control Center will now briefly pause services to snapshot them, then return the system to a fully functional state while performing the backup in the background. This means that services can be deleted or altered while the backup continues.

Single-Host to Multi-Host migration enhancements

Migrating from a single-host to multi-host install now requires only that the new host(s) be configured and
added to the Resource Pool in the Control Center master UI. Configuration changes and other steps formerly
required in earlier Control Center releases are no longer necessary.

Serviced storage tool

A new tool (serviced-storage) is provided to greatly streamline working with Control Center storage, including support for tasks such as creating volumes, creating and resizing thin pools, initializing DeviceMapper and converting from btrfs to DeviceMapper. Installation and Upgrade instructions make use of the serviced-storage tool, please consult the Zenoss Resource Manager Installation Guide and Zenoss Resource Manager Upgrade Guide for details.

Snapshot tagging

Serviced snapshots can now be tagged with a name. Important to note is that the Time To Live (TTL) does not
apply to tagged snapshots, meaning they will not be deleted according to the TTL schedule.

Clustered Zookeeper

Multi-host systems can utilize a Zookeeper cluster for improved performance and reliability.

Public endpoints by port number

 Public Endpoints can be vhosts, accessible by host name, or ports, accessible by ip:port or hostname:port. Specifying by port number removes the need to update DNS entries or /etc/hosts files.

Zenoss inspector

 A new script is available to simplify gathering of Control Center logs and configurations, when needed for support cases.

SNMP trap filtering

zentrap supports SNMP trap filtering. For details on the filter definition, see the /opt/zenoss/etc/zentrap.filter.conf file in the zentrap service definition. For details on how to enable this feature, see the KB article How to setup a filter for SNMP Traps at the collector level (zentrap) in version 5.1.x.

Capacity planning

- Capacity utilization graphs and views display projected utilization for 30, 60, and 90 Days.
- Capacity Reports and new or existing graphs can now display a trendline.
- Capacity utilization is now available for VSphere.
- Reports can be filtered by ports, port channel, chassis, IO modules, and transaction type.

Dependency View

Dependency View provides a list of dependents and dependencies for the selected device or component.

Usability improvements

- For ease of management, Component groups let you organize like components from different devices.
- Graphs can be resized or opened in a new window.

Removal of Ubuntu support

Ubuntu is no longer a supported platform for Resource Manager 5.1.1 or higher.

Updated command for ZenPack installation

The command for installing a ZenPack has changed from previous versions. The command to install a ZenPack is now: serviced service run zope zenpack-manager install <ZenPack>.



Fixed issues

Table 10: Release 5.1.1

ID	Description	
ZEN-3892	Resource Manager does not attempt to retry the sending of email notifications if those notifications fail to send the first time	
ZEN-8209	Unable to unset zProperties that are selected from a drop-down at the root level	
ZEN-14768	Attempting to navigate to nodes on the Network Map results in blank screens	
ZEN-17140	The Device Class filter in the Event console is broken	
ZEN-17362	Event Class transforms missing formatting on event class and mapping pages	
ZEN-17479	RabbitMQ prefetch count is not honored in Global Operations Manager 5.x	
ZEN-17587	Upgrading Resource Manager does not update the version displayed in Control Center	
ZEN-17735	Some tooltips prevent the user from clicking the link for which the tooltip is displayed	
ZEN-17836	The Network Topology report is not working	
ZEN-17983	The Device Details screen is broken if the user's profile is configured for certain time zones.	
ZEN-18095	Some stack traces shown on Resource Manager error pages contain internal URLs and other sensitive information	
ZEN-18839	MultiRealmIP ZenPack causes device overview screens to have javascript errors	
ZEN-19011	Some graphs fail to render if the user's computer is set to certain time zones	
ZEN-19658	The Query Rate graph is missing for the Central Query service in the Control Center console inside Resource Manager	
ZEN-19664	Control Center is not modeled correctly in Service Impact	
ZEN-19869	InvocationTargetException in MetricConsumer, requiring a restart of the MetricConsumer service	
ZEN-19956	MultiGraph reports are not working	
ZEN-20071	Zookeeper transaction logs are not being automatically rotated	
ZEN-20103	Control Center health checks for Redis are timing out	
ZEN-20108	SNPP does not work in Resource Manager 5.0.x	
ZEN-20159	The Production State and Priority Option menus are not sorted correctly	
ZEN-20278	Zookeeper transaction logs are not cleaned up automatically	
ZEN-20291	Standalone graph links cannot be generated for graphs with many series	
ZEN-20374	MetricShipper logs missing information necessary for troubleshooting	
ZEN-20415	Logs from "zminion" processes are not captured in Control Center	
ZEN-20494	Central Query logs unknown metric errors too frequently	
ZEN-20499	SNMP device statuses for Linux servers no longer use the /Status/Ping event class	
ZEN-20563	Unable to specify ESX-provided eventClassKeys in mapping	

ID	Description
ZEN-20596	Using the Open in new tab button on any graph causes an error flare message in the newly opened tab
ZEN-20640	Zenmail does not work
ZEN-20752	Zenbatchload does not install properly on additional collectors
ZEN-20834	When adding a collector in the the Control Center section of Resource Manager, the Resource Pool drop-down shows an error
ZEN-20838	The volume of INFO log messages is too high and causes unnecessary I/O load
ZEN-20903	Global Operations Manager does not appear correctly in the Resource Manager application inside Control Center
ZEN-21061	When using dc-admin, creating a collector with an underscore in the collector's name returns an error
ZEN-21087	Zenmail is failing on Resource Manager 5.0.x
ZEN-21097	Users logged in with the ZenUser role have access to features they shouldn't have
ZEN-21101	Poor Resource Manager UI performance when logged-in user is part of a large LDAP group
ZEN-21104	Zenpacks reveal sensitive password information in some URLs
ZEN-21134	Performance issue when loading LDAP settings page
ZEN-21141	ZenPop3 is missing as a service in Control Center
ZEN-21143	The Datasource Test button does not use SNMP v3 settings if they are present
ZEN-21245	Device does not come out of maintenance if the effective maintenance window's start date is changed
ZEN-21302	Users with the ZenManager role cannot create triggers or notifications
ZEN-21322	With the MultiRealm zenpack installed, maintenance window events are not linked to devices
ZEN-21392	Data collection with ZenJMX is silently failing, raising no events
ZEN-21546	Deploying multiple collectors in the Control Center tab in Resource Manager causes the Resource Manager UI to crash
ZEN-21727	Maintenance sindows use the UTC time zone instead of the time zone set in the user's profile
ZEN-21746	Using the dc-admin utility to delete collectors does not remove the corresponding services in Control Center
ZEN-21893	Users are unable to use the same data points twice on the same graph
ZEN-21916	Tracebacks related to RRDDataSource seen in zenhub log when performing collection
ZEN-21955	MultiGraph reports show incorrect data
ZEN-21956	Min/Max thresholds do not graph properly when both the minimum and maximum thresholds are set
ZEN-22012	CiscoUCS ZenPack takes a long time to upgrade
ZEN-22023	Delta values for threshold evaluation are incorrectly calculated for COUNTER and DERIVE datapoints
ZEN-22029	The ZProxy service logs every connection, unnecessarily filling up Control Center logs



ID	Description
ZEN-22079	Multigraph reports are incorrectly showing the same data for different devices and components

Known issues

Table 11: Release 5.1.1

ID	Description	Status
ZEN-20776	MIBs added via UI have no details	Open
ZEN-21517	User can add an IP service with a duplicate name	Open
ZEN-21731	Event page may not automatically refresh when a new event is manually added	Open
ZEN-21769	After adding a new IP Service, the details page for the new service is empty.	Open
ZEN-21790	Removing a process class from an organizer does not update the number of processes shown for the organizer	Open
ZEN-21824	Network map portlet does not honor selected network	Open
ZEN-21833	High Load trendline is incorrect on Load Avg graph for /Server/Linux	Open
ZEN-21865	Manually changing a device's production state does not update the page until the next refresh	Open
ZEN-21934	Removing an expanded report organizer that contains a child report organizer will result in a UI warning message	Open
ZEN-21935	Dragging a report organizer into another, unexpanded, report organizer will cause the organizer tree in the UI to go blank until the page is refreshed.	Open
ZEN-21957	Several RRD graphpoint types appear in the product but will not render on graphs	Open
ZEN-21971	LDAP searches using custom search parameters do not return correct results	Open
ZEN-21986	User cannot log in using objectGUID	Open
ZEN-22008	Zenpacks list is not displayed when you try to add a custom Organizer user command to a ZenPack	Open
ZEN-22021	Production state does not appear to get set to Maintenance when maintenance window is set for a device class	Open
ZEN-22028	ZenUser may be able to access pages that should be restricted to that user	Open
ZEN-22031	IPv6 devices cannot be added via the Infrastructure page because the Submit button does not enable	Open
ZEN-22063	When migrating to Resource Manager 5.1.1, a message appears indicating that UpdateZopeThreadsCount has been changed to 1, when in fact it has been reverted to the default (4).	Open
ZEN-22156	Dashboards cannot be assigned to a local user group	Open
ZEN-22171	Manually modeling a device may result in INFO messages that erroneously indicate modeling has failed	Open
ZEN-22215	Using Internet Explorer 11, attempting to filter a Report via the Search box may result in the report being exported rather than filtered	Open

ID	Description	Status
ZEN-22235	Exporting a Software Inventory report does not generate a complete .csv file	Open
ZEN-22243	Reader/Writer fail health checks after upgrading to Resource Manager 5.1.1	Open

Notes and workarounds

Updated command for ZenPack installation (ZEN-22297)

The command for installing a ZenPack has changed from previous versions. The command to install a ZenPack is now:

serviced service run zope zenpack-manager install <ZenPack>



Limitations, errata, and documentation



This section includes the following information:

- Known limitations of Resource Manager
- Release-specific documentation errata, if any
- Descriptions of additional documentation

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 Configuration 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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