



Zenoss Service Dynamics RPS 4.2.4 SP802 Release Notes

Zenoss, Inc.

www.zenoss.com

Zenoss Service Dynamics™ Version 4.2.4 SP802 Release Notes

Copyright © 2015 Zenoss, Inc. All rights reserved. Redistribution or duplication of any portion of this document is prohibited without the express written consent of Zenoss, Inc.

Zenoss and the Zenoss logo are trademarks or registered trademarks of Zenoss, Inc. in the United States and other countries. All other trademarks, logos, and service marks are the property of Zenoss or other third parties. Use of these marks is prohibited without the express written consent of Zenoss, Inc. or the third-party owner.

Part Number: 23-082013-4.2-v08

What's New?	1
Resource Manager	1
ZenPacks.....	2
Downloading RPS	3
Installation Notes	3
Before Performing the Upgrade	3
Performing the Upgrade.....	3
Upgrade Scenarios.....	4
Implementation Notes	5
Reporting Problems and Providing Feedback.....	7
Appendix A: Previous RPS Releases	8

What's New?

This version of Service Dynamics offers these new features and improvements. Please read the upgrade section for SP653 with regards to setting up **zenossdbpack** the first time after installation.

Resource Manager

Improvements	
ZEN-17126	SNMPv1 trap being assigned a different Ip during deduplication, without attaching the correct Ip realm.
ZEN-17226	If datapoint name in output does not match a configured datapoint, parser fails silently and user is not alerted to mismatch.
ZEN-17646	Startup performance is slow due to table locks on connection_info.
ZEN-17129	When configured Cycle Time for a Command Data Source, the setting is not always followed.
ZEN-17496	Event Source and Source Information not displayed on Event Details pane.
ZEN-17466	When exporting events, some XML tags are being exported in CVS file.
ZEN-17498	For GOM devices, links are not redirecting to the correct content.
ZEN-17576	Remote daemons over VPN losing connectivity.
ZEN-13944	connection_info table has unbounded growth.
ZEN-17595	zep generates large number of Lucene files.
ZEN-17419	Additional logging to record time spent in zep plugins.
ZEN-17528	Update zep default throttle settings to improve performance.
ZEN-17559	zeneventserver AlreadyClosedException error, event console broken
ZEN-17268	pyyaml is installed to support newer version of zenpacklib.
ZEN-17338	zep spawns a large number of threads.
ZEN-17416/17417	Improved zep performance.

ZEN-16811/ZEN-16812	On the Event View portlet, filtering by count returns no results.
ZEN-16965	<code>zencatalogservice</code> is unresponsive due to <code>AlreadyClosedExceptions</code> .

ZenPacks

This section contains the list of ZenPacks bundled within this RPS.

LDAP Authenticator	3.0.5.5	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.1.2	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.5.2	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.9.1	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices
CheckPointMonitor	2.0.0	http://wiki.zenoss.org/ZenPack:Check_Point_Security_Appliance
CalculatedPerformance	2.0.3	http://wiki.zenoss.org/ZenPack:Calculated_Performance
Enterprise Linux	1.3.9	http://wiki.zenoss.org/ZenPack:Enterprise_Linux

*Denotes updated with this RPS.

Downloading RPS

The latest Resource Manager 4.2.4 ZUP is available from the Zenoss Support Portal:

<https://zenoss.leapfile.net>

Contact your Zenoss representative for more information.

Installation Notes

Before Performing the Upgrade

Zenoss recommends performing the following actions:

1. Install the latest zenoss.toolbox. To install, follow the instructions at <https://support.zenoss.com/hc/en-us/articles/203117595-How-To-Install-And-Use-the-zenoss-toolbox>.
2. Complete the following checks and proceed with the update only if all checks are successful.
 - **zodbscan**
 - logs to \$ZENHOME/log/toolbox/zodbscan.log
 - **zenrelationscan**
 - logs to \$ZENHOME/log/ toolbox/zenrelationscan.log
 - **findposkeyerror**
 - logs to \$ZENHOME/log/ toolbox/findposkeyerror.log
 - **zencatalogscan**
 - logs to \$ZENHOME/log/ toolbox/zencatalogscan.log

where {date} is today's date

If ANY of these scripts return errors contact Zenoss support and hold updating; include in the ticket all four attachments from the scripts, above.

3. If Impact is installed, ensure that the Impact daemons on the Impact server are up and running before applying the RPS update.

Performing the Upgrade

Refer to the *Zenoss Service Dynamics ZenUp Installation and Administration* guide on using ZenUp to perform the upgrade. ZenUp 1.1 is required to perform this upgrade.

Upgrade Scenarios

This section describes any special steps or notes when upgrading to the latest RPS.

Starting ServicePack	Note
Before SP154	<p>Due to ZEN-8693, Lucene indexes need to be rebuilt after installation. Rebuilding the indexes during <code>zeneventserver</code> start may take a long time depending on the size of the database and event processing will be slow until the indexes are rebuilt. To rebuild,</p> <ul style="list-style-type: none">➤ <code>zeneventserver stop;</code>➤ <code>rm -fr /opt/zenoss/var/zeneventserver/index/*;</code>➤ <code>zeneventserver start;</code>
Before SP163	<p>SP163 included enhancements to process monitoring. If you are monitoring processes, devices on which processes are being monitored need to be remodeled after upgrading, and support should be contacted prior to upgrading to review process monitoring best practices</p>
Before SP179	<p>Due to ZEN-9004, Lucene indexes need to be rebuilt after installation. Rebuilding the indexes during <code>zeneventserver</code> start may take a long time depending on the size of the database and event processing will be slow until the indexes are rebuilt. To rebuild,</p> <ul style="list-style-type: none">➤ zeneventserver stop;➤ rm -fr /opt/zenoss/var/zeneventserver/index/*;➤ zeneventserver start;
Before SP367	<p>Due to ZEN-9478, Lucene indexes need to be rebuilt after installation. Rebuilding the indexes during <code>zeneventserver</code> start may take a long time depending on the size of the database and event processing will be slow until the indexes are rebuilt. To rebuild,</p> <ul style="list-style-type: none">➤ zeneventserver stop;➤ rm -fr /opt/zenoss/var/zeneventserver/index/*;➤ zeneventserver start;
SP544	<p>ZenUp 1.1 is required to perform the upgrade. Should ZenUp 1.0 be used, the following error will occur:</p> <ul style="list-style-type: none">➤ zenup install zenoss_resmgr-4.2.4-SP544-zenup11.zup Installing... ERROR: Could not run script: /tmp/zenoss-resmgr-4.2.4_UDao0L/new_zup/check

SP653	<p>With this update, zenossdbpack has been updated to prevent POSKeyErrors being generated during dbpack activities. This change requires the reference tables to be rebuilt, which depending on the size of the environment, could take hours to a day. After installing this RPS, we recommend that you rebuild these tables, without performing a pack by executing the following:</p> <ul style="list-style-type: none"> ➤ zenossdbpack -t <p>Once the tables have been rebuilt, a user can use zenossdbpack as normal.</p> <p>Due to the Lucene 4.7.2 upgrade, Lucene indexes need to be rebuilt after installation. Rebuilding the indexes during zeneventserver start may take a long time depending on the size of the database and event processing will be slow until the indexes are rebuilt. To rebuild,</p> <ul style="list-style-type: none"> ➤ zeneventserver stop; ➤ rm -fr /opt/zenoss/var/zeneventserver/index/*; ➤ zeneventserver start;
SP704	<p>Due to the new Lucene definitions for the improved performance, Lucene indexes need to be rebuilt after installation. To rebuild,</p> <ul style="list-style-type: none"> ➤ zeneventserver stop; ➤ rm -fr /opt/zenoss/var/zeneventserver/index/*; ➤ zeneventserver start;

Implementation Notes

The section describes configuration information related to deliveries within the RPSes.

1. RabbitMQ ZenPack

Zenoss recommends installation of the RabbitMQ ZenPack (version 1.0.7+) for monitoring of the Zenoss RabbitMQ queues, including incoming and outgoing message rates. The ZenPack can be downloaded from <http://wiki.zenoss.org/ZenPack:RabbitMQ>, which also includes instructions on installation and configuration.

2. Enhanced ZEP Logging

ZEP contains new instrumentation and logging to aide in troubleshooting. The following information can now be gathered.

- API methods metrics
- Size of index Queues
- Thread dumps

-
- JVM Data
 - Number of results returned for a given search

This information can be accessed through the browser at:

http://<zenoss_ip>:8084/zeneventserver/metrics

3. Enhanced Zope Logging

New instrumentation has been added to aid in troubleshooting of incidents where Zope is experiencing high-CPU usage. The additional logging records the start/end times and client information of incoming requests to

`${ZENHOME}/log/ZReq.log`. To enable this logging, simply create the file `${ZENHOME}/etc/LOG_ZOPE_REQUESTS`. A client (`zencheckzopes`) has been created to parse the new log file. This script will display requests for whom there is a 'start' trace but no 'end' trace. By default, `zencheckzopes` will show unfinished requests for all Zopes. Optionally, only running Zopes can be reported on by using the `-r` flag. The details of the logging are written to Redis.

4. Messageperworker zeneventd Configuration

SP367 introduced the `messagesperworker` `zeneventd` config setting. This setting determines the number of messages each `zeneventd` worker gets from the ZenRawEvents queue at any given time (default is 1). Change this only if event processing is deemed too slow - in performance tests, it has been shown that setting this value to anything up to 10 did not result in any performance improvements in 424 as it did in 411. Note that increasing this value increases the probability of events being processed out of order. To configure,

- `zeneventd stop`
- uncomment and set `messagesperworker` to a value greater than 1 in `$ZENHOME/etc/zeneventd.conf`
- `zeneventd start`

5. Process Availability Monitoring

SP163 contained significant enhancements to process availability monitoring. These enhancements require new RRD data files, so the historical data for process instances will not be available through the Resource Manager browser interface. However, historical data is not removed from collectors during the RPS installation. For more information about process availability monitoring, refer to chapter 6, Core Monitoring, in the *Zenoss Service Dynamics Resource Management Administration guide, version 102013-4.2-v08*.

6. Column Adding and Reordering

The method for choosing Event Console columns and their order has been changed. These actions can now be performed under "Configure" -> "Adjust Columns". This change was done to improve UI.

7. ZEP Startup Checks

On ZEP startup, the maximum amount of virtual memory (`ulimit -v`) available to the shell and maximum resident set size (`ulimit -m`) are now checked. If either is not set to 'unlimited', ZEP will abort the startup.

8. zenossdbpack New Default for Days Configuration

In order to minimize the probability of POSKeyErrors, **zenossdbpack** has been modified to reduce the chance of corruption; however, these changes will require additional space in zodb and zodb session databases. If you have manually changed **zenossdbpack** or zodbpack, please contact Support before applying this patch.

9. Performing a Reindex

To take advantage of improvements with Lucene 4.7.2, a reindex of the event summary and event archive are required. This index rebuild could take a couple hours depending upon the number of records in the summary and archive tables. To perform the reindex, do the following steps:

- `zeneventserver stop`
- `cd /opt/zenoss/var/zeneventserver/index`
- `rm -rf archive summary`
- `zeneventserver start`

10. Setting Maximum Search Times

With SP653, the Zenoss administrator can now set a maximum search time threshold. If an active search exceeds this threshold, the search will be terminated and the user notified to further refine the search criteria. To configure this maximum time, set the `zep.query.lucene_search_timeout` value (in seconds) within the `zeneventserver.conf` file.

Reporting Problems and Providing Feedback

To contact Zenoss Customer Support, go to the support portal at

<https://support.zenoss.com>

Zenoss welcomes your comments and suggestions to help us improve our product documentation. Please send your comments to:

docs@zenoss.com

Appendix A: Previous RPS Releases

SP763 (February 26, 2015)

Resource Manager

Improvements	
ZEN-10405	Pre-ZenUp checks has the user modify nginx in such away that nginx can start if the listen port is <1024, which prevents zenwebserver start/stop from exiting cleanly.
ZEN-12007	Zenup check fails if lost+found is not owned by Zenoss.
ZEN-16696	When a device or component is locked, the device/component can still be deleted.
ZEN-15933	zensyslog truncates syslogs with messages when a message contains a ":" preceded by a non-space character and then followed by a space.
ZEN-12493	CallHome/zenbackup can fail to gather data due to SSH timeout.
ZEN-13671	zenwinperf shutdown does not stop all worker processes.
ZEN-16543	When a job fails, an associated event is not generated.
ZEN-16219	Event is not logged when modeling a locked device.
ZEN-15611	Collector daemon will stop collecting data for a device and will go in to a task postponement loop
ZEN-13942	Clean up functionality added to the jobs_catalog to prevent unbounded growth.
ZEN-16401	Adding a large amount of notes (16MB) to an event can cause a traceback.
ZEN-14828	Performing a recatalog can slow data collection.
ZEN-16490	With Event Archve backed with Solr, stopping zep results in a NullPointerException.
ZEN-16717	Zep metrics have been updated to include the number of events indexed.
ZEN-16461	When using IE9 in compatibility mode, Event Console filters are lost after a browser refresh.
ZEN-14762	With the zencommand data source is set to "Use SSH", zentestcommand does not login via SSH to the target device.

ZEN-15571	Logging of transform errors does not adhere to log rotation rules.
ZEN-16392	Improved reliability of event indexing when errors occur.
ZEN-16619	During periods of large event spikes, zep runs out of threads and stops processing queues.
ZEN-16428	zenbatchdump does not support custom deviceloaders.
ZEN-16674	When navigating to nodes on network map, a blank page is rendered

ZenPacks

This section contains the list of ZenPacks bundled within this RPS.

LDAP Authenticator*	3.0.5.5	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.1.2	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.5.2	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS*	1.9.1	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices
CheckPointMonitor*	2.0.0	http://wiki.zenoss.org/ZenPack:Check_Point_Security_Appliance
CalculatedPerformance*	2.0.3	http://wiki.zenoss.org/ZenPack:Calculated_Performance
Enterprise Linux	1.3.9	http://wiki.zenoss.org/ZenPack:Enterprise_Linux

SP728 (December 24, 2014)

Resource Manager

Improvements	
ZEN-15074/ ZEN-14938	For the Infrastructure Page and Event Archive Console, progress indicators will be displayed to denote activity such as refreshing.
ZEN-15318	From the web interface, a user cannot add an individual process class to a ZenPack.
ZEN-15330	“ZODB.POSException.ReadConflictError: Got data for OID from future transaction” is logged when performing various operations, thus preventing operations from completing such as zodbscan.
ZEN-14154	zencommand and zenmodeler does not release SSH connections under

	certain conditions.
ZEN-13048	When one of the OS processes goes down (for example: one of the Zenoss daemons like zenactiond), an event is created. When the process goes back up, clear events are not generated.
ZEN-15309	For processes defined with "zAlertOnRestart", the restart event never clears.
ZEN-15311	When a catalog becomes corrupt or encounters a bad index and thereby leading to an UncataloguedObjectException traceback, a manual index rebuild is required instead of system handling this case and automatically rebuild the indexes.
ZEN-15205	After applying the RPS with XSS fixes, html links no longer work in event fields.
	Lucene index definitions have been updated to greatly improve searching performance.

ZenPacks

This section contains the list of ZenPacks bundled within this RPS.

LDAP Authenticator	3.0.5.4	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.1.2	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.5.2	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS*	1.9.1	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices
CheckPointMonitor*	2.0.0	http://wiki.zenoss.org/ZenPack:Check_Point_Security_Appliance
CalculatedPerformance*	2.0.3	http://wiki.zenoss.org/ZenPack:Calculated_Performance

SP704 (November 24, 2014)

Resource Manager

Improvements	
ZEN-15074/ ZEN-14938	For the Infrastructure Page and Event Archive Console, progress indicators will be displayed to denote activity such as refreshing.
ZEN-15318	From the web interface, a user cannot add an individual process class to a

	ZenPack.
ZEN-15330	“ZODB.POSException.ReadConflictError: Got data for OID from future transaction” is logged when performing various operations, thus preventing operations from completing such as zodbscan.
ZEN-14154	zencommand and zenmodeler does not release SSH connections under certain conditions.
ZEN-13048	When one of the OS processes goes down (for example: one of the Zenoss daemons like zenactiond), an event is created. When the process goes back up, clear events are not generated.
ZEN-15309	For processes defined with “zAlertOnRestart”, the restart event never clears.
ZEN-15311	When a catalog becomes corrupt or encounters a bad index and thereby leading to an UncataloguedObjectException traceback, a manual index rebuild is required instead of system handling this case and automatically rebuild the indexes.
ZEN-15205	After applying the RPS with XSS fixes, html links no longer work in event fields.
	Lucene index definitions have been updated to greatly improve searching performance.

ZenPacks

This section contains the list of ZenPacks bundled within this RPS.

LDAP Authenticator	3.0.5.4	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.1.2	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.5.2	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP670 (October 7, 2014)

Resource Manager

Improvements	
ZEN-13909	Graphs now support selecting time for start and end dates.

ZEN-14273	Thresholds using minProcessCount/maxProcessCount no longer function.
ZEN-14051	SNMP down alarm sent when device is already down via zenping.
ZEN-14783	Unable to use the JSON API to update detail fields on events.
ZEN-14187	Performance: Google maps portlet updated to not perform a refresh operation if a refresh is still in progress.
ZEN-14535	ApplyDataMap._applyDataMap() allows modeler plugins to change the "id" property of devices. This is an unsafe operation that modeler plugins should be prevented from performing.
ZEN-13568	Infrastructure Page: User is unable to search/sort by device priority.
ZEN-12790	Device Issues Portlet: The responsiveness of this portlet has been improved.
ZEN-14667	Advanced Search: The performance of advanced searching has been greatly improved thereby leading to a more responsive UI as well as reduced load on ZODB.

ZenPacks

This section contains the list of ZenPacks bundled within this RPS.

LDAP Authenticator	3.0.5.2	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.1.2	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP653 (October 7, 2014)

Resource Manager

Improvements	
ZEN-13985/ZEN-14504	Improved zope logging: zencheckzopes has been updated to log all Zope requests and store data within Redis.
ZEN-14070	Improved zep logging: zep has been updated to provide the number of results returned for each search.
ZEN-14148	Zenoss administrator can now optionally configure the maximum time allowed for a given search. If a search exceeds this threshold, zep will terminate the search and return back a user friendly message to further refine the search criteria.
ZEN-14581	DB performance improvement, a user's session state is only updated if the state has changed.
ZEN-13851/ZEN-14376	zenossdbpack has been updated to prevent POSKeyErrors generated by running dbpack. This update will NOT remove existing POSKeyErrors. NOTE. Please see SP653 notes in the Upgrade section below.
ZEN-10932	Performance improvement when changing device production states.
ZEN-12964	Lucene has been upgraded to 4.7.2. According to Apache, this version of Lucene provides a 10% improvement in overall performance and memory usage. This upgrade will require rebuilding the indexes. See the Upgrade notes section for details.

ZenPacks

This section contains the list of ZenPacks bundled within this RPS.

LDAP Authenticator	3.0.5.2	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.1.2	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP633 (August 29, 2014)

Resource Manager

Improvements	
ZEN-11285	Intermittent network connectivity issues cause numerous flares to display in the UI. UI should attempt a reconnect before reporting connectivity issues.
ZEN-13154	Benign warning conditions are being logged as Errors, thereby leading to confusion as to the state of ZEP
ZEN-13371/ZEN-13534	Graphs now support date ranges.
ZEN-13374	On the Triggers page, modifying a trigger will reset the page to the top of the list.
ZEN-13461	For <code>zencommand</code> , report the time taken for processing devices/datapoints.
ZEN-13671	<code>zenwinperf</code> shutdown does not stop all worker processes.
ZEN-13801	Automatic refresh requests may get queued up when system is under load; thereby leading to increased load. System should not request a refresh if a refresh is still pending.
ZEN-13821	Logging of transform errors does not adhere to log rotation rules.
ZEN-13872	When modifying a Notification schedule, the UI does not get updated after the edit is saved.

ZenPacks

LDAP Authenticator	3.0.5.2	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
--------------------	---------	---

vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.1.2	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP622 (August 14, 2014)

Resource Manager

Improvements	
ZEN-13015	On ZEP startup, the maximum amount of virtual memory available to the shell and maximum resident set size are now checked. If either is not set to 'unlimited', ZEP will abort the startup.
ZEN-13198	When setting a maintenance window, this window is being applied to devices that are in a Decommissioned state.
ZEN-13356	On the Infrastructure Page, the grid will reset back to the top after a refresh has occurred.
ZEN-13022	When adding multiple devices using Windows Server (WMI), zWinUser/zWinPassword is being set instead of zWinRMuser/zWinPassword.
ZEN-13323	During auto-discovery, a device may be transferred to another collector.
ZEN-13392	Under certain error certain conditions, ZEP will report a NullPointerException, thereby losing information on the originating issue.
ZEN-13509	Within the Event Archive Console, the last refreshed time does not get updated when using pagination.
ZEN-13519	zenosldbpack has been updated to enforce a minimum days of 0.5.
ZEN-13237	Enhanced logging/instrumentation for ZEP

ZenPacks

LDAP Authenticator	3.0.5.2	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.0.3	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP602 (July 30, 2014)Resource Manager

Improvements	
ZEN-13046	Within the Infrastructure Page, Device Details now supports Pagination. Default will remain Infinite Scroll.
ZEN-13116	For Event Console and Infrastructure pages, progress indicators will be displayed to denote activity such as refreshing.
ZEN-12716	Addressed issue with ZenPacks being installed out of order.
ZEN-13026	Within the Event Console, performing a second search, that returns a record set smaller than the original, will display a blank page.
ZEN-12997	Within the Event Console, performance of Lucene searching has been improved.
ZEN-11711	Within the Event Console, Copy/Paste functionality is no longer available.
ZEN-13012	Within the Event Console, the initial page load will make duplicate requests.
ZEN-12960	Within Event Console, hyperlinks, within notes, are being displayed as text.
ZEN-13009	ZEP API improved performance when making a call to addNote.
ZEN-12766	ZEP API automatic logging of transitions was removed as this activity may cause database issues if transitions are frequent.
ZEN-13083	For Graphs and Multi-Graph reports, printable version date range does not use the user selected zoom level.
ZEN-13014	For Graphs and Multi-Graph reports, the time within the graph may not match the time listed in the legend.
ZEN-12958	CatalogService updated to use new Lucene setting to improve performance in large environments.

ZenPacks

LDAP Authenticator	3.0.5.2	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.0.3	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS

CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices
--------------	-------	---

SP592 (July 17, 2014)

Resource Manager

Improvements	
ZEN-12761	New ZEP API to programmatically add Notes to a supplied list of events.
ZEN-12626	Infrastructure Page now supports Pagination. Default will remain Infinite Scroll.
ZEN-12766	When suppressing an event, log the transition as a note on the event.
ZEN-12394	When using the Infrastructure view, searching the Device Class column also yields results from the Device column.
ZEN-12600	When selecting a Device Class, the events displayed include results for all Device classes.
ZEN-12733	Improved Zope load balancing.
ZEN-12746	When using Pagination in the Event Console, non-default fields were not displayed.
ZEN-12665	Event notifications are not sent to non-default recipients.
ZEN-12888	Pagination mode refresh unselects current selection.
ZEN-12568	ZenRestore Fails to restore due to incorrect command line option.
ZEN-12841	Updated Lucene configuration to improve memory usage with Event Summary and Event Archive.
ZEN-12879	Enhanced logging/instrumentation for ZEP

ZenPacks

LDAP Authenticator	3.0.5.2	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.0.3	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP574 (June 30, 2014)

Resource Manager

Improvements	
ZEN-12364	UI Jobs page only displays a maximum of 500 jobs
ZEN-11850	Add LDAP Group filter
ZEN-12207	XSS Issues in custom Event details
ZEN-12234	XSS in "Hostnames/IP Addresses" from "Step 2: Specify or Discover Devices to Monitor"
ZEN-12277	XSS in comments in events console
ZEN-12373	Zopes overusing memory and CPU
ZEN-11085	SP464 - Overwriting custom template fails
ZEN-12499	Event Console GUI scrolling behavior is not correct
ZEN-11869	zenoss.snmp.InterfaceMap Doesn't Support 10G interfaces for Servers Polled With SNMP
ZEN-12071	zenoss.cmd.linux.ifconfig relies of dmesg parsing which doesn't always work
ZEN-11222	Event console resets to top of page on refresh

ZenPacks

LDAP Authenticator	3.0.5.2	http://wiki.zenoss.org/ZenPack:LDAP_Authentication
vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.0.3	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP555 (June 11, 2014)

Resource Manager

Improvements	
ZEN-11874	Pasting in large log entries at Event console
ZEN-11456	Need to be able to capture events that fail in transforms

ZEN-11691	Snmp traps with multiple attributes under the same attribute OID are not properly handled
ZEN-11999	Open redirect vulnerability on login
ZEN-11890	Cross-site scripting issue after authentication
ZEN-11977	Run migrate scripts individually on ZUP installs
ZEN-11719	Owners of Administered Objects cannot create sub-locations
ZEN-10556	findposkeyerror has broken easy install entry script
ZEN-9504	Datacenter view not working properly
ZEN-10580	zencatalogscan must print full exceptions and log output to file
ZEN-10567	zencatalogscan should cycle until it fixes all issues
ZEN-11679	zencatalogscan needs an option to only scan a certain catalog
ZEN-10579	zencatalogscan doesn't reindex component catalogs
ZEN-10793	zencatalogscan reindex can fail for dmd.Devices.reIndex()
ZEN-11700	zodbscan is downlevel (missing memory improvements)
ZEN-11241	BigIP devices not modeling serial numbers
ZEN-11883	Missing process monitor cpu graphs in process monitoring
ZEN-10223	Zensyslog truncating messages after new line characters in subject

ZenPacks

vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.0.3	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP544 (May 29, 2014)

Resource Manager

Improvements	
ZEN-11372	Always sort lists in the UI by something sensible

ZEN-11396	Min and Max process set at parent doesn't pass to modeled processes
ZEN-11661	Bad transform error messages completely incorrect
ZEN-11282	Log all ZEP related flares in event.log
ZEN-11622	Zenbackup does not capture mibs
ZEN-11830	Adding a single device through UI produces 2 devices
ZEN-11819	Error installing CSA 424 RPS
ZEN-11786	ZUP Format Changes for ZenUp 1.1
ZEN-11637	Zencommand stops collecting after temporary authentication failure
ZEN-11453	Zenjobs leaks file descriptors
ZEN-11909	Autodiscover is not finding devices
ZEN-11785	ZEP Concurrency Issues
ZEN-11652	ZenPacks.zenoss.CiscoMonitor: Improve combining of L2 and L3 VLAN data

ZenPacks

vSphere	3.0.4	http://wiki.zenoss.org/ZenPack:VMware_vSphere
MicrosoftWindows	2.0.3	http://wiki.zenoss.org/ZenPack:Microsoft_Windows
PythonCollector	1.4.0	http://wiki.zenoss.org/ZenPack:PythonCollector
CiscoUCS	1.8.4	http://wiki.zenoss.org/ZenPack:Cisco_UCS
CiscoMonitor	5.1.8	http://wiki.zenoss.org/ZenPack:Cisco_Devices

SP525 (May 22, 2014)

Resource Manager

Improvements	
ZEN-11366	Infrastructure View Window Size Restriction - Unable to scroll or expand window enough
ZEN-11233	Graphs do not display a consistent time
ZEN-11375	Remote modeling requests via zentrap can flood ZenHub
ZEN-11368	SNMP v3 Trap support
ZEN-11517	Enforce that filters are passed to some operations in zep facade

ZEN-11565	Make the use of infinite grids for events configurable
ZEN-11573	Snmpwalk from run commands should not show zproperties
ZEN-11385	Permissions on the Portlets are being reset automatically
ZEN-11013	Number of event flaps is reset after flap event is sent
ZEN-1162	Device components are not shown
ZEN-9767	With live searching off the checkbox-filters on the event console no longer work
ZEN-11378	Zenactiond uses popen when sending pages instead of using twisted to spawn processes
ZEN-11398	OSProcess count threshold not evaluated on down processes via zencommand
ZEN-11614	Event Rate logging

SP497 (April 30, 2014)

Resource Manager

Improvements	
ZEN-11160	Gear button behavior doesn't match user permissions
ZEN-11185	Watchlist portlet not properly allowing view of events.
ZEN-11132	Drag and Drop Permissions for Administered Objects
ZEN-10458	Error reindexing when customers add custom roles to zope
ZEN-11362	Event detail page is not displaying at all on IE9
ZEN-11096	NMAP to PING collector setting change
ZEN-11123	Multiple runzope processes running at 100% CPU
ZEN-11251	Flush Memcached after rebuilding catalogs
ZEN-11226	Network Map page doesn't load without internet access

SP488 (April 18, 2014)

Resource Manager

Improvements	
ZEN-11236	Unable to delete dynamic service or organizer in Impact
ZEN-10653	Owners of administered object cannot create sub-groups
ZEN-11076	Manager privileges for /CiscoUCS administered object doesn't allow adding UCS Domain
ZEN-11016	Cisco Nexus
ZEN-11106	OSprocess sequence changes randomly

SP470 (April 10, 2014)

Resource Manager

Improvements	
ZEN-11038	Remove Automatic Refresh rates from Archive
ZEN-11039	Zenactiond completely stops
ZEN-11040	Archive queries in event system cause excessive CPU load

SP464 (April 3, 2014)

Resource Manager

Improvements	
ZEN-10432	RPS SP405 causes event properties to be displayed as blue text instead of black
ZEN-10554	SP405 causes Devices link under device class details to be partially cut off
ZEN-10534	race-condition in zencatalog
ZEN-10181	Refreshing result in Components filter works in FF only
ZEN-10542	vSphere Zenpack version 3.0.2
ZEN-10529	zencatalog run will not terminate if bad relationships are in the database
ZEN-10779	Unable to process large numbers of events over time
ZEN-10886	Flapping events have no context information
ZEN-10631	Any user with at least one administered object can view events for all

	devices
ZEN-10773	Expose Info adapter properties via TALES (empowers analytics enhancement)
ZEN-10625	Event console refresh too slow
ZEN-10770	Event rainbows do not honour user/device permissions
ZEN-10968	Can not add devices to Impact service
ZEN-10798	Regression in the way that Production States are honored by event notification

SP445 (March 21, 2014)

Resource Manager

Improvements	
ZEN-10435	Zencatalogservice traces "rolled back an active transaction" when a connection is closed
ZEN-10331	Long flares are cut off from view
ZEN-9957	Google Maps Stuck at Geocoding
ZEN-10307	Processes are not shown in IE9
ZEN-10546	Events
ZEN-10306	Add components doesn't work in IE9
ZEN-10301	Infrastructure page performance issue - query on organizers
ZEN-9266	RPS unit tests should complete without error
ZEN-10539	User permissions are not taken into account after restoring defaults in the devdetail grid
ZEN-10640	TypeError: 'set' object is not subscriptable flare message after install SP430 RPS 424
ZEN-10635	Set' object is not subscriptable error on Devices page
ZEN-10058	Portlet Scalability issue
ZEN-10609	Zep call to retrieve severities must be done in batches
ZEN-10429	Unable to close, ack, reopen, or unack events when "NOT" (!!) filters are in effect

ZEN-10494	Closing events clears the owner field
ZEN-10473	Unable to expand left menu pane far enough
ZEN-10371	Impact Service email notifications no longer work with impact chain following upgrade
ZEN-10551	Internal exception processing event: StopIteration()
ZEN-9674	ZUP install check should confirm ZenDS is running proper perms
ZEN-10322	Significant performance degradation in CiscoUCS 1.8.2

SP409 (March 4, 2014)

Resource Manager

Improvements	
ZEN-10290	Filter row on any FilterGridPanel does not render after some types of operations
ZEN-10345	Event count is not refreshing

SP405 (February 26, 2014)

Resource Manager

Improvements	
ZEN-10147	Session cookies don't have the secure flag set when using SSL
ZEN-9887	Event console filters and headers don't stay lined up while navigating via the tab key
ZEN-10166	Unable to edit process class organizer names
ZEN-9894	Unable to view last lines of short running command run on device via UI
ZEN-10098	Stale pids not removed when collecting via zenprocess
ZEN-9999	Trigger filter matches against component ID instead of component title
ZEN-10238	Event console headers shift after filtering
ZEN-9819	Unreadable text in dialog boxes
ZEN-9519	Browser freeze during auto-refresh in event console

ZEN-9927	Zencommand-monitored processes reporting 3 process down events per process
ZEN-10260	Trap and syslog filtering at collector level
ZEN-10267	Costly mac address-related migration removed from RPS
ZEN-9801	Undesired event console filter movement when scrolling with no results

SP383 (February 7, 2014)

Resource Manager

Improvements	
ZEN-9370	ZenCatalog not picking up zoddb options
ZEN-9763	Flares with sticky option behave incorrectly
ZEN-9874	Missing internationalization wrappers around components
ZEN-9049	Zenwinperf generates events that do not clear when workers die during wmi queries
ZEN-9811	Zenbatchload no longer updates existing devices (general zbl improvements)
ZEN-9970	Events, Infrastructure, Reports pages are blank and show javascript error in IE
ZEN-9394	Multi-Graph Reports - Cannot delete collection items
ZEN-9891	Poor performance when moving columns in the event console
ZEN-9937	Commands button has no content in IE
ZEN-9976	Firefox browser freezes during Events auto-refresh
ZEN-9736	Event console renders and scrolls slowly

SP367 (January 23, 2014)

Resource Manager

Improvements	
ZEN-9682	Jobs key not removed during 4.1.1 to 4.2.4 upgrade
ZEN-9728	Getting large number of "Error running parser..." events

ZEN-9678	iostat command parsing issue in AutoTune ZenPack
ZEN-8955	Should improve pre-install checks in ZUPs
ZEN-9779	Saved links for event console don't work
ZEN-7445	Unable to search efficiently by component name (regression)
ZEN-9518	Upgrading 4.1.1 RPS r78281 to 4.2.4 RPS SP200+ breaks zencatalogservice
ZEN-9621	vCloudVMLink() function breaking zLinks functionality.
ZEN-9709	Event class filter is not working as expected
ZEN-9478	Lucene's null detail value conflicts with detail's values
ZEN-9673	Make messagesperworker configurable to increase zeneventd performance

SP336 (January 8, 2014)

Resource Manager

Improvements	
ZEN-7678	CiscoMonitor: VDCs component panel on Nexus 7000 devices is empty
ZEN-9155	Zentune heartbeat registers with hostname instead of collector name
ZEN-9514	non-percona event_summary table optimized multiple times within specified interval
ZEN-9472	ZenVMware: Multiple threshold events for VM after vMotion
ZEN-9439	enterprise restore does not recognize remote zends
ZEN-9449	Backing up zenoss does not work seamlessly with MySQL Enterprise Backup
ZEN-9475	Device modeling doesn't use SNMPv3 properties
ZEN-9490	HTML Emails do not appear to work in 4.2.4 (worked in 4.2.3)
ZEN-9555	Upgrades don't log zenpack upgrade information into the install.log file
ZEN-8449	Catalog macaddress info (original fix was incomplete)
ZEN-9301	zeneventserver fails to archive if an event in event_summary is already in event_archive

ZEN-9462	Event Console: Null filters in pick lists do not work correctly when null value not selected
ZEN-8922	send-event/log INFO/WARN for event_summary table optimization elapsed time

SP214 (December 18, 2013)

Resource Manager

Improvements	
ZEN-9416	Exclusion filters and null filters do not work for some event details
ZEN-9421	HPUX: cpu_itanium modeling plugin generates an error when modeling on PA-RISC systems
ZEN-9181	Changes to templates should not cause hub invalidation floods
ZEN-9186	Invalidation for device deletion go to all collectors (not relevant)
ZEN-9416	Exclusion filters and null filters do not work for some event details

SP206 (December 11, 2013)

Resource Manager

Improvements	
ZEN-9357	SP200 fails to install correctly if schema_version tables are missing
ZEN-9402	Fix issue with database table creation logic

SP200 (December 5, 2013)

Resource Manager

Improvements	
ZEN-9130	HPUX ZenPack cannot handle mounts with decimals
ZEN-9285	Dc-Admin hangs when root is using challenge-response authentication
ZEN-9234	Event console filter management does not display properly on first use
ZEN-8913	Improve logging and data point capture of ApplyDataMap processing

ZEN-8926	Implement support for detecting and killing long-running ZenDS transactions
ZEN-9193	Application of zup not always notifying the user that Zenoss will need to be stopped
ZEN-7869	Add a --clean option to zencatalog
ZEN-9170	Verify that zep and the catalog service are up before installing new zenpacks on zup updates
ZEN-9153	Maintenance windows fail to process during zodbpack
ZEN-9277	Blank overview page appears on device details

SP179 (November 21, 2013)

Resource Manager

Improvements	
ZEN-9004	Unable to perform string searches in summary for event columns
ZEN-8544	Enable the ability to search a range of dates in the events console
ZEN-9115	Tracebacks found after SP174 when deleting interfaces
ZEN-8793	zenbatchdumper doesn't dump comments
ZEN-8868	Snmpv3Error: packet dropped (OID: .1.3.6.1.2.1.1.1.0)

SP174 (November 13, 2013)

Resource Manager

Improvements	
ZEN-8879	zenwinperf workers do not always pick up config changes
ZEN-8947	Impact installation causes tracebacks on the Zenoss master 4.2.5.0.1 using build 191
ZEN-8297	Event tagged incorrectly under certain circumstances when using ip realms
ZEN-8830	SQL Synthetic Transaction Failing Sends Clear Instead of Configured Severity
ZEN-8449	Create an index on MacAddress for the global catalog

ZEN-8858	Zenbackup should default to a configuration file
ZEN-8833	Zencommand monitoring clears regardless of outcome
ZEN-8750	Fixing several XSS security vulnerabilities
ZEN-8735	https for google maps
ZEN-8115	Multiple zeneventd workers in a distributed environment can cause events to be processed out of order
ZEN-7679	UCS - Traps and events associated with secondary interfaces on UCS chassis are not linked to device
ZEN-8901	Event processing broken in core (packaging issue)
ZEN-8745	RPS Installation fails to copy ZENOSS-MIB.txt

SP163 (October 23, 2013)

Resource Manager

Improvements	
ZEN-8844	Fetching process list causes zenoss stops working (device in a remote collector)
ZEN-8537	ZEP router not compatible with Rabbit MQ 3.1.1
ZEN-8801	Zenhub traceback after installing RPS SP160
ZEN-8787	Process graphs are not being populated - datapoint collection
ZEN-8755	upgrades and new installs of 4.2.4 RPS build 156 fail
ZEN-8730	Process Monitoring Improvements

SP154 (October 15, 2013)

Resource Manager

Improvements	
ZEN-8651	Event flapping Configuration Properties display static int rather than list of severities
ZEN-8693	Unable to filter by Nulls in zep
ZEN-8369	actions.py SNMPTrapAction _sendTrap fields do not match ZENOSS-

	MIB.text
ZEN-8418	Event console filter management does not correctly update the filter fields
ZEN-8674	CiscoMonitor zenpack transform.py process() function remodels devices too often
ZEN-7678	CiscoMonitor: VDCs component panel on Nexus 7000 devices is empty
ZEN-8570	zenping ping-backend config setting has no effect
ZEN-8520	lock files in /opt/zenoss/log
ZEN-8122	zencatalogservice should continue reindex when restarted
ZEN-8048	zencatalog should use multiprocessing to recatalog more quickly
ZEN-8116	Zenoss shows VM id instead of VM name in Events console
ZEN-8559	zenhub invalidation workers require x-match any flags to work with rabbit 3.1.0
ZEN-8530	Event detail page broken (raw HTML)
ZEN-8430	Cannot change graph order within Infrastructure/Device/Graph UI
ZEN-8423	Write daemon failed runs and missed runs to an RRD
ZEN-7925	Infrastructure page
ZEN-7865	zeneventd daemon does not always write to newest log after rolling over
ZEN-8589	Mechanism to deliver external eggs in ZUP needed
ZEN-8573	ZenJMX Cycle Interval Not Honored in RRD Step Setting
ZEN-8537	ZEP router not compatible with Rabbit MQ 3.1.1
ZEN-8522	Google Maps sub locations from portlet no longer available
ZEN-8534	zenbackup fails during some zencatalogservice processing
ZEN-8513	4.2.4 RPS ZUP should check for GA RPM install/upgrade failure

SP124c (September 27, 2013)

Resource Manager

Improvements	
ZEN-8498	Item description is not displayed correctly

ZEN-8418	Event console filter management does not correctly update the filter fields
ZEN-7719	Refactor of zup to only run zenmigrate when necessary
ZEN-8376	CSS + CSRF Security Vulnerabilites
ZEN-8125	Trigger conditions are hard-coded in the JS
ZEN-8349	4.2.x RPS ZUP should build javascript
ZEN-8308	Add a /App/Zenoss event class
ZEN-8312	Zenoss UI is not displayed properly on IE9 after install RPS 424 Build 100

SP108 (September 20, 2013)

Resource Manager

Improvements	
ZEN-8312	fixed regression from ZEN-8095: Zenoss UI is not displayed properly on IE9
ZEN-8313	fixed regression from ZEN-7953: zenhub does not start
ZEN-8127	Add 'zep.query.clause_limit' param to zeneventserver conf to allow for large zeneventserver operations
ZEN-8126	Unable to unsuppress events directly
ZEN-7953	Daemons should use socket options for keep alive on PB and ZenDS/MySQL connections
ZEN-8025	Cyrillic characters in utf8 messages received by zensyslog from EvtSys (Windows 2k8r2) are missing.
ZEN-8207	zencatalogservice stops responding due to running out of file descriptors
ZEN-8051	4.2.x RPS ZUP zenmigrate should not need individual import statements
ZEN-8095	Port Process Count Monitoring to 4.2.4 RPS
ZEN-8169	DynamicView calls ZEP for events for each node in the subgraph