Zenoss Resource Manager Release Notes

Release 6.1.1

Zenoss, Inc.

www.zenoss.com

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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:

Date	Release
27 February 2018	6.1.1
09 January 2018	6.1.0
18 December 2017	6.0.1
07 November 2017 (controlled availability)	6.0.0
25 September 2017	5.3.2
31 August 2017	5.3.1
17 August 2017	5.3.0

Tested operating environments

The Resource Manager application is deployed in and managed by Control Center. The operating environments of Resource Manager are the Control Center environments that are tested with a given release. The following sections identify the tested operating environments of Resource Manager and Control Center.

Resource Manager, Control Center, and operating systems

The following table identifies the tested combinations of Resource Manager, Control Center, and operating system releases.

Resource Manager release	Control Center	
	Minimum release	Host OS
6.0.1, 6.1.0, 6.1.1**	1.5.0	RHEL/CentOS 7.2, 7.3, or 7.4 (64-bit)
5.3.0, 5.3.1, 5.3.2, 5.3.3	1.3.0, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.4.0, 1.4.1	RHEL/CentOS 7.1, 7.2, or 7.3 (64-bit)
5.2.0, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.6*	1.2.0, 1.2.1, 1.2.2, 1.2.3, 1.3.0, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.4.0, 1.4.1	RHEL/CentOS 7.1, 7.2, or 7.3 (64-bit)
5.1.9, 5.1.10	1.1.9, 1.2.0	RHEL/CentOS 7.1 or 7.2 (64-bit)
5.1.8	1.1.5, 1.1.6, 1.1.7. 1.1.8, 1.1.9	RHEL/CentOS 7.1 or 7.2 (64-bit)
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)	(none)	(none)
5.1.4, 5.1.5	1.1.5, 1.1.6, 1.1.7	RHEL/CentOS 7.1 or 7.2 (64-bit)

** Version 6.0.0 - controlled availability
* Version 5.2.5 - withdrawn

Resource Manager release	Control Center	
	Minimum release	Host OS
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)

Hypervisors

Hypervisor	Versions
VMware vSphere	5.0, 5.1, 5.5, 6.0, 6.5
Microsoft Hyper-V	Version 2.0 with Windows Server 2008 R2 SP1
	Version 3.0 with Windows Server 2012 and 2012 R2

Public cloud platforms

Amazon Web Services (AWS) is fully tested.

Microsoft Azure has been tested only for collector pools. Creating a full Control Center deployment to operate Resource Manager has NOT been tested on Microsoft Azure.

Supported clients and browsers

The following table identifies the supported combinations of client operating systems and web browsers.

Client OS	Supported browsers
Windows 7, 10	Internet Explorer 11*
	Firefox 56 and later
	Chrome 61 and later
macOS 10.12.3, 10.13	Firefox 56 and later
	Chrome 61 and later
Ubuntu 14.04 LTS	Firefox 56 and later
	Chrome 61 and later

* Enterprise mode only; compatibility mode is not tested.

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Considerations and workarounds

New download site

Downloads for Resource Manager customers are now available on *delivery.zenoss.com*. Leapfile is no longer used.

Excessive zeneventd memory usage

An issue with self-monitoring causes excessive memory usage on the `zeneventd` service. To work around the issue, configure `crontab` of the root user on the Control Center master host to restart `zeneventd` every midnight. For example, to `sudo crontab -l` add the following entry:

```
0 0 * * * /usr/bin/serviced service restart zeneventd >/dev/null 2>&1
```

Compatibility with Zenoss Service Impact

This version of Resource Manager is compatible with Zenoss Service Impact version 5.2.3 or later.

Load time for component graphs

Load time might exceed 10 seconds for more than 200 component graphs when you have activated the **All on same graph** check box.

NFS client 4.1 is not supported

A file locking defect might exist in NFS 4.1 with RHEL/CentOS 7.4, which could cause zeneventserver to crash and other DFS-related problems. For more information, refer to topic "Configuring NFS 4.0" in the Control Center installation guide or upgrade guide, or knowledge base article *Potential Issues Running With RHEL 7.4 Or CentOS 7.4*.

CentralQuery maximum memory allocation pool

(ZEN-15907) 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.

Upgrade considerations

- The upgrade process might reinstall an older version of the Catalog Service ZenPack. To avoid this issue, manually remove older versions of the Catalog Service ZenPack .egg file from the ZenPack backups directory.
- (ZEN-28375) Beginning with Resource Manager 6.1.0, for counter/derive (rate) data points, the calculated rate value is stored instead of raw counters. The rate is calculated at the collector daemon as it collects data. If a graph (or API) request for a derive of counter data point spans the upgrade data, the system automatically queries the data correctly. However, slight anomalies might occur in the data that is captured immediately before and after an upgrade from Resource Manager 6.0.1 or earlier.
- (ZEN-29100) No data is collected for the ZenossRM device after an upgrade if the localhost collector is moved off the master host. If you have moved the localhost collector off the Control Center master host, to enable data collection, set properties for the `ZenossRM` device as follows:

  1. Navigate to the `ZenossRM` device overview page and select **Configuration Properties**.
  2. Set the following zProperties:

     - `zRMMonCCHost` - Enter the IP address of the Control Center master host.
     - `zRMMonCCUser` - Enter the name of the `ccuser` account, which is the default account for gaining access to the Control Center browser interface.
     - `zRMMonCCPassword` - Enter the password of the `ccuser` account.

New features

There are no new features in this release of Resource Manager.

Fixed issues

Table 1: Release 6.1.1 fixed issues

ID	Description
ZEN-29244	When a predictive threshold was assigned to a graph, then the time range was changed, the graph did not update to the new time range.
ZEN-29337	ZenPack dependencies were not installed in the correct order during an upgrade.
ZEN-29338	After an upgrade, RMMonitor did not contain application data usage.
ZEN-29383	RMMonitor did not trigger an event when it could not collect data.
ZEN-29388	RMMonitor graphs for region servers were blank.
ZEN-29410	Under-allocated memcached caused logouts.
ZEN-29412	OVA image installs had the --insecure-registry option improperly defined in /etc/sysconfig/docker.
ZEN-29434	During an upgrade, an invalid message was issued stating that a catalog rebuild was required.

ID	Description
ZEN-29435	OpenTSDB reader/writer maximum heap size was not set based on the memory commitment in the service definition.
ZEN-29437	Uninstalling some ZenPacks (Nutanix, EMC.base, Microsoft.Windows) caused `/status` to be deleted from the event list.
ZEN-29440	Values in CPU graphs for RMMonitor were incorrectly labeled as percent.
ZEN-29448	During an upgrade, ZenPack installations took a long time.
ZEN-29458	During an upgrade, migration scripts ran more than once.
ZEN-29462	A refresh of the event tree caused the device details panel to close and the devices tree panel to be displayed.
ZEN-29463	Setting the color value in a data point definition for a multigraph chart does not alter the color of the lines.
ZEN-29464	Multigraph property `Has Summary` was removed from the browser interface.
ZEN-29465	Multigraph gear icon was removed from expanded view of the browser interface.
ZEN-29466	The upgrade process did not automatically re-install ZenPacks that were built with a “dev” version number.
ZEN-29468	Multigraph property `Logarithmic Scale` was removed from the browser interface.
ZEN-29472	Multigraph property `Width` was removed from the browser interface.
ZEN-29473	Multigraph of size 100x500 was displayed at 500x500.
ZEN-29478	Multigraph sidebar position reset after a page refresh.
ZEN-29486	Multigraph graph property `Line Width` was removed from the browser interface.
ZEN-29487	Multigraph graph property `Limit` was removed from the browser interface.
ZEN-29488	Dragging-and-dropping devices into a multi-tiered organizational group caused the tree view to close after each addition.
ZEN-29489	Changing the width of the browser window changed the graph to an unreadable size.
ZEN-29494	During an upgrade, ZenPacks without prefix ZenPacks.zenoss were installed in the wrong order.
ZEN-29495	Event classes `/Status/Ping/Lag` and `/Status/ZEP` were missing for RMMonitor.
ZEN-29497	During an upgrade, if a traceback or race condition occurs at a certain time, the catalog service failed but the upgrade continued. If the AWS 4.0.0 ZenPack was installed, the upgrade failed.

Known issues

Table 2: Release 6.1.1 known issues

ID	Description	Status
ZEN-26802	OS model link in Device Detail page points to wrong manufacturer entry	Open
ZEN-27499	Error message regarding dropped Events displayed during Resource Manager upgrade.	Open
ZEN-28138	`objectGUID` is not available to be selected in Login Name Attribute combo box in LDAP configuration options.	Open
ZEN-28519	Error is displayed when a correct date/time is entered in the Date Range field.	Open
ZEN-28716	On Events page, the **Show only actionable events** check box is not displayed for the `ZenOperator` role.	Open
ZEN-28725	On the Dashboard page, a `ZenManager` can see a dashboard even though that user is part of a group with a restriction.	Open
ZEN-28956	Cisco UCS reports organizer is hidden when using `ZenOperator` role.	Open
ZEN-29100	No data collected for the RM device after an upgrade if the localhost collector is moved off of the master host. For more information, see *Considerations and workarounds* on page 5.	Open
ZEN-29109	Disable Transforms report is not working.	Open
ZEN-29120	Error flare messages appear intermittently on the **Advanced > Control Center** subtab.	Open
ZEN-29612	ZenPacks created manually with `zenpack --create` cause Distribution Not Found messages during a product upgrade.	Open
ZEN-29686	Excessive memory usage on the `zeneventd` service. For more information, see *Considerations and workarounds* on page 5.	

ZenPacks

This section lists ZenPacks that are automatically installed, those that are packaged but not installed, and those that are obsolete and should be uninstalled. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

Installed ZenPacks

This release of Resource Manager installs the following ZenPacks at the current version listed in the table.

Table 3: Release 6.1.1 installed ZenPacks

ZenPack	Current version	Previous version
ZenPacks.zenoss.AWS	4.0.1	4.0.0
ZenPacks.zenoss.AdvancedSearch	2.0.0	Same
ZenPacks.zenoss.AixMonitor	2.2.3	Same

ZenPack	Current version	Previous version
ZenPacks.zenoss.ApacheMonitor	2.1.4	Same
ZenPacks.zenoss.AuditLog	1.4.1	Same
ZenPacks.zenoss.CalculatedPerformance	2.5.0	Same
ZenPacks.zenoss.CiscoMonitor	5.8.1	Same
ZenPacks.zenoss.CiscoUCS	2.6.2	Same
ZenPacks.zenoss.ComponentGroups	1.6.0	1.5.0
ZenPacks.zenoss.ControlCenter	1.5.3	Same
ZenPacks.zenoss.Dashboard	1.2.8	1.2.7
ZenPacks.zenoss.Dell.PowerEdge	2.0.4	Same
ZenPacks.zenoss.Diagram	1.3.1	Same
ZenPacks.zenoss.DigMonitor	1.1.1	1.1.0
ZenPacks.zenoss.DistributedCollector	3.1.6	Same
ZenPacks.zenoss.DnsMonitor	3.0.0	2.1.0
ZenPacks.zenoss.Docker	2.0.2	Same
ZenPacks.zenoss.DurationThreshold	2.0.4	Same
ZenPacks.zenoss.DynamicView	1.5.0	Same
ZenPacks.zenoss.EMC.base	2.0.0	1.2.1
ZenPacks.zenoss.EnterpriseCollector	1.8.0	Same
ZenPacks.zenoss.EnterpriseReports	2.5.0	Same
ZenPacks.zenoss.EnterpriseSecurity	1.2.0	Same
ZenPacks.zenoss.EnterpriseSkin	3.3.4	Same
ZenPacks.zenoss.FtpMonitor	1.1.1	1.1.0
ZenPacks.zenoss.HP.Proliant	3.3.1	3.3.0
ZenPacks.zenoss.HttpMonitor	2.1.1	2.1.0
ZenPacks.zenoss.IBM.Power	1.1.2	Same
ZenPacks.zenoss.InstalledTemplatesReport	1.1.1	Same
ZenPacks.zenoss.JuniperMonitor	2.1.1	Same
ZenPacks.zenoss.LDAPAuthenticator	3.3.1	Same
ZenPacks.zenoss.LDAPMonitor	1.4.2	1.4.1
ZenPacks.zenoss.Licensing	0.2.0	Same
ZenPacks.zenoss.LinuxMonitor	2.2.7	2.2.6
ZenPacks.zenoss.Microsoft.Azure	1.3.0	Same
ZenPacks.zenoss.Microsoft.Windows	2.8.3	2.8.1
ZenPacks.zenoss.MySqlMonitor	3.1.0	3.0.9

ZenPack	Current version	Previous version
ZenPacks.zenoss.NetAppMonitor	3.6.0	Same
ZenPacks.zenoss.NtpMonitor	2.2.3	2.2.2
ZenPacks.zenoss.PredictiveThreshold	1.2.2	Same
ZenPacks.zenoss.PropertyMonitor	1.1.1	Same
ZenPacks.zenoss.PythonCollector	1.10.1	Same
ZenPacks.zenoss.RMMonitor	1.0.4	1.0.2
ZenPacks.zenoss.SolarisMonitor	2.5.1	2.5.0
ZenPacks.zenoss.StorageBase	1.4.3	Same
ZenPacks.zenoss.SupportBundle	1.1.2	Same
ZenPacks.zenoss.vSphere	3.6.3	Same
ZenPacks.zenoss.WBEM	2.0.0	1.0.3
ZenPacks.zenoss.WSMAN	1.0.1	Same
ZenPacks.zenoss.ZenDeviceACL	2.3.0	Same
ZenPacks.zenoss.ZenJMX	3.12.1	Same
ZenPacks.zenoss.ZenMail	5.1.0	Same
ZenPacks.zenoss.ZenOperatorRole	2.2.0	Same
ZenPacks.zenoss.ZenPackLib	2.0.9	2.0.7
ZenPacks.zenoss.ZenSQLTx	2.7.1	2.7.0
ZenPacks.zenoss.ZenWebTx	3.0.2	3.0.1

Packaged ZenPacks

The following ZenPacks are packaged with Resource Manager, but not automatically installed:

- ZenPacks.zenoss.BigIpMonitor
- ZenPacks.zenoss.BrocadeMonitor
- ZenPacks.zenoss.Ceph
- ZenPacks.zenoss.CheckPointMonitor
- ZenPacks.zenoss.CiscoAPIC
- ZenPacks.zenoss.DatabaseMonitor
- ZenPacks.zenoss.DB2
- ZenPacks.zenoss.HpuxMonitor
- ZenPacks.zenoss.JBossMonitor
- ZenPacks.zenoss.Memcached
- ZenPacks.zenoss.Microsoft.Exchange
- ZenPacks.zenoss.Microsoft.Lync
- ZenPacks.zenoss.Microsoft.MSMQ
- ZenPacks.zenoss.NetScaler
- ZenPacks.zenoss.NetScreenMonitor
- ZenPacks.zenoss.NSX
- ZenPacks.zenoss.OpenStack

- ZenPacks.zenoss.OpenStackInfrastructure
- ZenPacks.zenoss.OpenvSwitch
- ZenPacks.zenoss.PostgreSQL
- ZenPacks.zenoss.RabbitMQ
- ZenPacks.zenoss.TomcatMonitor
- ZenPacks.zenoss.XenServer

Obsolete ZenPacks

ZenPacks.zenoss.ZenMailTX is obsolete. If this ZenPack is installed at your site, uninstall it.

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Considerations and workarounds

New download site

Downloads for Resource Manager customers are now available on *delivery.zenoss.com*. Leapfile is no longer used.

Excessive zeneventd memory usage

An issue with self-monitoring causes excessive memory usage on the `zeneventd` service. To work around the issue, configure `crontab` of the root user on the Control Center master host to restart `zeneventd` every midnight. For example, to `sudo crontab -l` add the following entry:

```
0 0 * * * /usr/bin/serviced service restart zeneventd >/dev/null 2>&1
```

Compatibility with Zenoss Service Impact

This version of Resource Manager is compatible with Zenoss Service Impact version 5.2.3 or later.

Load time for component graphs

Load time might exceed 10 seconds for more than 200 component graphs when you have activated the **All on same graph** check box.

NFS client 4.1 is not supported

A file locking defect might exist in NFS 4.1 with RHEL/CentOS 7.4, which could cause zeneventserver to crash and other DFS-related problems. For more information, refer to topic "Configuring NFS 4.0" in the Control Center installation guide or upgrade guide, or knowledge base article *Potential Issues Running With RHEL 7.4 Or CentOS 7.4*.

CentralQuery maximum memory allocation pool

(ZEN-15907) 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.

Upgrade considerations

- (ZPS-2660) When ZenPackLib 2.0.7 or 2.0.8 is installed, the upgrade to Resource Manager will fail if you uninstall the Nutanix, Microsoft.Windows, or EMC.base ZenPacks before or during the upgrade. This problem will be addressed in the next maintenance releases of ZenPackLib and Resource Manager. Zenoss advises customers to delay uninstalling any of these ZenPacks until after the fix is available and you have upgraded to the fixed release.
- (ZEN-29337) When Nutanix ZenPack (ZenPacks.zenoss.Nutanix) version 1.0.1 is installed, a known problem with management of ZenPack dependencies during upgrade will cause the upgrade to fail. In addition, uninstalling the Nutanix ZenPack might cause the upgrade to fail. This problem will be addressed in the next maintenance release of Resource Manager. Zenoss advises customers who are using the Nutanix ZenPack version 1.0.1 to wait for the new release.
- (ZEN-29338 / ZEN-29340) Due to a missing migration script, storage statistics do not properly populate on the ZenossRM device overview page for Zenoss self-monitoring. This problem will be addressed in an upcoming release of Resource Manager. Alternatively, to obtain the migration script, see knowledge base article *Known Issue ZEN-29338: Upgrades From 5.X To 6.X Miss Some Self-Monitoring Metrics*.
- Do not attempt to upgrade systems on which DEV ZenPacks have been installed; the upgrade will fail. This limitation will be addressed in an upcoming release of Resource Manager. In the meantime, to upgrade, uninstall DEV ZenPacks, perform the upgrade, and then reinstall the DEV ZenPacks.
- (ZEN-28375) In earlier releases of Resource Manager, counter/derive (rate) data points were saved using their raw counters. Beginning with this release, the calculated rate value is stored. The rate is calculated at the collector daemon as it collects data. If a graph (or API) request for a derive of counter data point spans the upgrade data, the system automatically queries the data correctly. However, slight anomalies might occur in the data that is captured immediately before and after the upgrade.
- (ZEN-29100) No data is collected for the ZenossRM device after an upgrade if the localhost collector is moved off the master host. If you have moved the localhost collector off the Control Center master host, to enable data collection, set properties for the `ZenossRM` device as follows:

  1. Navigate to the `ZenossRM` device overview page and select **Configuration Properties**.
  2. Set the following zProperties:

     - `zRMMonCCHost` - Enter the IP address of the Control Center master host.
     - `zRMMonCCUser` - Enter the name of the `ccuser` account, which is the default account for gaining access to the Control Center browser interface.
     - `zRMMonCCPassword` - Enter the password of the `ccuser` account.

New features

This release of Resource Manager provides the following new features.

Events for blocked transforms

When a transform fails a specified number of times in a row, the transform is blocked and the system creates an event. The default number of failures is 10, which is set with the `zEventMaxTransformFails` configuration property. You can now disable event transform blocking globally or per event class by changing the property value to 0.

Component graph enhancements

In component graphs, you can now choose auto-refresh and specify a date range. The advanced user interface configuration field `Number of Graph Columns` now controls the number of graph columns shown on the device overview page. The default value is Auto, which means that the number of columns increases as the browser's width increases. Other values for the number of columns are 1, 2, and 3.

Managing user settings

When you use Zenoss as a Service (Zaas), ZenManager and Manager roles can now manage users (**Advanced** > **Users**), but do not have access to other advanced settings. Previously, this feature was available for on-premises installations only.

Global control of polling interval

A new configuration property, `zCommandCycleInterval`, controls the interval at which data is gathered for graphs for all command data sources. The default value is 300 seconds.

Fixed issues

Table 4: Release 6.1.0 fixed issues

ID	Description
ZEN-26444	Maintenance windows do not recover from a production state that is below 300.
ZEN-27179	Logged archive/index failures give no indication of how to resolve.
ZEN-27600	Ping data source not respecting cycle time
ZEN-27995	Limit RabbitMQ to one instance. Multiple instances cause service problems.
ZEN-28116	Component group maintenance windows do not work properly.
ZEN-28299	Blank data sources should be treated as invalid or a missed collection.
ZEN-28370	The connection is not re-established during a build tables operation and the operation fails.
ZEN-28597	ZenHUB logging messages contain passwords.
ZEN-28721	MultiRealm ZenPack does not uninstall cleanly.
ZEN-28783	On multi-graph reports, setting type to Stacked Area results in no data available.
ZEN-28787	Graph with long legend is unusable.
ZEN-28793	Control Center health check events do not include the name of the failed health check.
ZEN-28797	Device Overridden Objects page displays zWinRMPassword values.
ZEN-28817	Datapoint alias IDs should not have any trailing whitespaces nor have a length that exceeds 31 characters. Otherwise, a warning will be issued.
ZEN-28949	Files can be uploaded to dmd without authentication using a PUT HTTP call.
ZEN-28965	Control Center device and Thinpool Metadata Usage graph values do not match.
ZEN-28969	Creation of a custom variable should not required a value.
ZEN-28979	Production state portlet does not show the custom state name.

ID	Description
ZEN-29060	Metric publishing can print tracebacks.

Known issues

Table 5: Release 6.1.0 known issues

ID	Description	Status
ZEN-26802	OS model link in Device Detail page points to wrong manufacturer entry	Open
ZEN-27499	Error message regarding dropped Events displayed during Resource Manager upgrade.	Open
ZEN-28138	`objectGUID` is not available to be selected in Login Name Attribute combo box in LDAP configuration options.	Open
ZEN-28519	Error is displayed when a correct date/time is entered in the Date Range field.	Open
ZEN-28716	On Events page, the **Show only actionable events** check box is not displayed for the `ZenOperator` role.	Open
ZEN-28725	On the Dashboard page, a `ZenManager` can see a dashboard even though that user is part of a group with a restriction.	Open
ZEN-28817	Datapoint alias IDs should not have any trailing whitespaces nor have a length that exceeds 31 characters. Otherwise, a warning will be issued.	Fixed
ZEN-28956	Cisco UCS reports organizer is hidden when using `ZenOperator` role.	Open
ZEN-28971	Missing **Projected High Disk** threshold for Storage Pools component for EMC VNX.	Open
ZEN-29100	No data collected for the RM device after an upgrade if the localhost collector is moved off of the master host. See *Considerations and workarounds* on page 19 for detailed instructions.	Open
ZEN-29109	Disable Transforms report is not working.	Open
ZEN-29120	Error flare messages appear intermittently on the **Advanced > Control Center** subtab.	Open

ZenPacks

This section lists ZenPacks that are automatically installed, those that are packaged but not installed, and those that are obsolete and should be uninstalled. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

Installed ZenPacks

This release of Resource Manager installs the following ZenPacks at the current version listed in the table.

Table 6: Release 6.1.0 installed ZenPacks

ZenPack	Current version	Previous version
ZenPacks.zenoss.AWS	3.0.3	Same
ZenPacks.zenoss.AdvancedSearch	2.0.0	Same
ZenPacks.zenoss.AixMonitor	2.2.3	Same
ZenPacks.zenoss.ApacheMonitor	2.1.4	Same
ZenPacks.zenoss.AuditLog	1.4.1	Same
ZenPacks.zenoss.CalculatedPerformance	2.5.0	Same
ZenPacks.zenoss.CiscoMonitor	5.8.1	Same
ZenPacks.zenoss.CiscoUCS	2.6.2	Same
ZenPacks.zenoss.ComponentGroups	1.6.0	1.5.0
ZenPacks.zenoss.ControlCenter	1.5.3	Same
ZenPacks.zenoss.Dashboard	1.2.8	1.2.7
ZenPacks.zenoss.Dell.PowerEdge	2.0.4	Same
ZenPacks.zenoss.Diagram	1.3.1	Same
ZenPacks.zenoss.DigMonitor	1.1.1	1.1.0
ZenPacks.zenoss.DistributedCollector	3.1.6	Same
ZenPacks.zenoss.DnsMonitor	3.0.0	2.1.0
ZenPacks.zenoss.Docker	2.0.2	Same
ZenPacks.zenoss.DurationThreshold	2.0.4	Same
ZenPacks.zenoss.DynamicView	1.5.0	Same
ZenPacks.zenoss.EMC.base	1.2.1	Same
ZenPacks.zenoss.EnterpriseCollector	1.8.0	Same
ZenPacks.zenoss.EnterpriseReports	2.5.0	Same
ZenPacks.zenoss.EnterpriseSecurity	1.2.0	Same
ZenPacks.zenoss.EnterpriseSkin	3.3.4	Same
ZenPacks.zenoss.FtpMonitor	1.1.1	1.1.0
ZenPacks.zenoss.HP.Proliant	3.3.1	3.3.0
ZenPacks.zenoss.HttpMonitor	2.1.1	2.1.0
ZenPacks.zenoss.IBM.Power	1.1.2	Same
ZenPacks.zenoss.InstalledTemplatesReport	1.1.1	Same
ZenPacks.zenoss.JuniperMonitor	2.1.1	Same
ZenPacks.zenoss.LDAPAuthenticator	3.3.1	Same
ZenPacks.zenoss.LDAPMonitor	1.4.2	1.4.1

ZenPack	Current version	Previous version
ZenPacks.zenoss.Licensing	0.2.0	Same
ZenPacks.zenoss.LinuxMonitor	2.2.7	2.2.6
ZenPacks.zenoss.Microsoft.Azure	1.3.0	Same
ZenPacks.zenoss.Microsoft.HyperV	1.4.0	n/a
ZenPacks.zenoss.Microsoft.Windows	2.8.1	Same
ZenPacks.zenoss.MySqlMonitor	3.0.9	Same
ZenPacks.zenoss.NetAppMonitor	3.6.0	Same
ZenPacks.zenoss.NtpMonitor	2.2.3	2.2.2
ZenPacks.zenoss.PredictiveThreshold	1.2.2	Same
ZenPacks.zenoss.PropertyMonitor	1.1.1	Same
ZenPacks.zenoss.PythonCollector	1.10.1	Same
ZenPacks.zenoss.RMMonitor	1.0.2	Same
ZenPacks.zenoss.SolarisMonitor	2.5.0	Same
ZenPacks.zenoss.StorageBase	1.4.3	Same
ZenPacks.zenoss.SupportBundle	1.1.2	Same
ZenPacks.zenoss.vSphere	3.6.3	Same
ZenPacks.zenoss.WBEM	1.0.3	Same
ZenPacks.zenoss.WSMAN	1.0.1	Same
ZenPacks.zenoss.ZenDeviceACL	2.3.0	Same
ZenPacks.zenoss.ZenJMX	3.12.1	Same
ZenPacks.zenoss.ZenMail	5.1.0	Same
ZenPacks.zenoss.ZenOperatorRole	2.2.0	Same
ZenPacks.zenoss.ZenPackLib	2.0.7	Same
ZenPacks.zenoss.ZenSQLTx	2.7.1	2.7.0
ZenPacks.zenoss.ZenWebTx	3.0.2	3.0.1

Packaged ZenPacks

The following ZenPacks are packaged with Resource Manager, but not automatically installed:

- ZenPacks.zenoss.BigIpMonitor
- ZenPacks.zenoss.BrocadeMonitor
- ZenPacks.zenoss.Ceph
- ZenPacks.zenoss.CheckPointMonitor
- ZenPacks.zenoss.CiscoAPIC
- ZenPacks.zenoss.DatabaseMonitor
- ZenPacks.zenoss.DB2
- ZenPacks.zenoss.HpuxMonitor

- ZenPacks.zenoss.JBossMonitor
- ZenPacks.zenoss.Layer2
- ZenPacks.zenoss.Memcached
- ZenPacks.zenoss.Microsoft.Exchange
- ZenPacks.zenoss.Microsoft.Lync
- ZenPacks.zenoss.Microsoft.MSMQ
- ZenPacks.zenoss.NetScaler
- ZenPacks.zenoss.NetScreenMonitor
- ZenPacks.zenoss.NSX
- ZenPacks.zenoss.OpenStack
- ZenPacks.zenoss.OpenStackInfrastructure
- ZenPacks.zenoss.OpenvSwitch
- ZenPacks.zenoss.PostgreSQL
- ZenPacks.zenoss.RabbitMQ
- ZenPacks.zenoss.TomcatMonitor
- ZenPacks.zenoss.XenServer

Obsolete ZenPacks

ZenPacks.zenoss.ZenMailTX is obsolete. If this ZenPack is installed at your site, uninstall it.

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Considerations and workarounds

New download site

Beginning on 1 December, 2017, downloads for Resource Manager customers are available on *delivery.zenoss.com* only. Leapfile is no longer used.

Excessive zeneventd memory usage

An issue with self-monitoring causes excessive memory usage on the `zeneventd` service. To work around the issue, configure `crontab` of the root user on the Control Center master host to restart `zeneventd` every midnight. For example, to `sudo crontab -l` add the following entry:

```
0 0 * * * /usr/bin/serviced service restart zeneventd >/dev/null 2>&1
```

Compatibility with Zenoss Service Impact

This version of Resource Manager is compatible with Zenoss Service Impact version 5.2.2 or later.

Layer2 ZenPack

The Layer2 ZenPack (ZenPacks.zenoss.Layer2) is resource intensive. If you do not intend to use it, Zenoss recommends uninstalling it.

NFS client 4.1 is not supported

A file locking defect might exist in NFS 4.1 with RHEL/CentOS 7.4, which could cause zeneventserver to crash and other DFS-related problems. For more information, refer to topic "Configuring NFS 4.0" in the Control Center installation guide or upgrade guide, or knowledge base article *Potential Issues Running With RHEL 7.4 Or CentOS 7.4*.

CentralQuery maximum memory allocation pool

(ZEN-15907) 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.

Upgrade considerations

- (ZEN-29337) When Nutanix ZenPack (ZenPacks.zenoss.Nutanix) version 1.0.1 is installed, a known problem with management of ZenPack dependencies during upgrade will cause the upgrade to fail. This problem will be addressed in the next maintenance release of Resource Manager. Zenoss advises customers who are using the Nutanix ZenPack version 1.0.1 to wait for the new release.
- Do not attempt to upgrade systems on which DEV ZenPacks have been installed; the upgrade will fail. This limitation will be addressed in an upcoming release of Resource Manager. In the meantime, to upgrade, uninstall DEV ZenPacks, perform the upgrade, and then reinstall the DEV ZenPacks.
- (ZEN-29100) No data is collected for the ZenossRM device after an upgrade if the localhost collector is moved off the master host. If you have moved the localhost collector off the Control Center master host, to enable data collection, set properties for the `ZenossRM` device as follows:

  1. Navigate to the `ZenossRM` device overview page and select **Configuration Properties**.
  2. Set the following zProperties:

     - `zRMMonCCHost` - Enter the IP address of the Control Center master host.
     - `zRMMonCCUser` - Enter the name of the `ccuser` account, which is the default account for gaining access to the Control Center browser interface.
     - `zRMMonCCPassword` - Enter the password of the `ccuser` account.

New features

There are no new features in this release of Resource Manager.

Fixed issues

Table 7: Release 6.0.1 fixed issues

ID	Description
ZEN-29052	Some migrate scripts do not run during a 5.3 to 6.0.0 upgrade.
ZEN-29056	Exception blocks some 5.x to 6.0.0 upgrades.
ZEN-29067	`RMMonitor` ZenPack does not install properly during a 5.x to 6.0.0 upgrade.
ZEN-29070	Under certain scenarios, writing metrics can print tracebacks.

Known issues

Table 8: Release 6.0.1 known issues

ID	Description	Status
ZEN-26802	OS model link in Device Detail page points to wrong manufacturer entry.	Open
ZEN-27499	Error message regarding dropped events displayed during upgrade.	Open

ID	Description	Status
ZEN-28138	`objectGUID` is not available to be selected in Login Name Attribute combo box in LDAP configuration options.	Open
ZEN-28519	Error is displayed when a correct date/time is entered in the Date Range field.	Open
ZEN-28716	On Events page, the **Show only actionable events** check box is not displayed for the `ZenOperator` role.	Open
ZEN-28725	On the Dashboard page, a `ZenManager` can see a dashboard even though that user is part of a group with a restriction.	Open
ZEN-28900	When adding a device that is already modeled, the job log shows a failure even though the device seemed to model correctly.	Open
ZEN-28956	Cisco UCS reports organizer is hidden when using `ZenOperator` role.	Open
ZEN-28965	Control Center device and Thinpool Metadata Usage graph values do not match.	Open
ZEN-28969	Creating custom variables should not require a value.	Open
ZEN-28971	Missing **Projected High Disk** threshold for Storage Pools component for EMC VNX.	Open
ZEN-28979	Production State portlet does not show custom state name.	Open
ZEN-29100	No data is collected for the device after an upgrade if the localhost collector is moved off the master host. See *Considerations and workarounds* on page 19 for detailed instructions.	Open
ZEN-29109	Disable Transforms report is not working.	Open
ZEN-29120	Error flare messages appear intermittently on the **Advanced > Control Center** tab.	Open

ZenPacks

This section lists ZenPacks that are automatically installed and those that are packaged but not installed. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

Installed ZenPacks

This release of Resource Manager installs the following ZenPacks at the current version listed in the table.

Table 9: Release 6.0.1 installed ZenPacks

ZenPack	Current version	Previous version
ZenPacks.zenoss.AWS	3.0.3	Same
ZenPacks.zenoss.AdvancedSearch	2.0.0	Same
ZenPacks.zenoss.AixMonitor	2.2.3	Same
ZenPacks.zenoss.ApacheMonitor	2.1.4	Same
ZenPacks.zenoss.AuditLog	1.4.1	Same
ZenPacks.zenoss.CalculatedPerformance	2.5.0	Same

ZenPack	Current version	Previous version
ZenPacks.zenoss.CiscoMonitor	5.8.1	Same
ZenPacks.zenoss.CiscoUCS	2.6.2	Same
ZenPacks.zenoss.ComponentGroups	1.5.0	Same
ZenPacks.zenoss.ControlCenter	1.5.3	Same
ZenPacks.zenoss.Dashboard	1.2.7	Same
ZenPacks.zenoss.Dell.PowerEdge	2.0.4	Same
ZenPacks.zenoss.Diagram	1.3.1	Same
ZenPacks.zenoss.DigMonitor	1.1.0	Same
ZenPacks.zenoss.DistributedCollector	3.1.6	Same
ZenPacks.zenoss.DnsMonitor	2.1.0	Same
ZenPacks.zenoss.Docker	2.0.2	Same
ZenPacks.zenoss.DurationThreshold	2.0.4	Same
ZenPacks.zenoss.DynamicView	1.5.0	Same
ZenPacks.zenoss.EMC.base	1.2.1	Same
ZenPacks.zenoss.EnterpriseCollector	1.8.0	Same
ZenPacks.zenoss.EnterpriseReports	2.5.0	Same
ZenPacks.zenoss.EnterpriseSecurity	1.2.0	Same
ZenPacks.zenoss.EnterpriseSkin	3.3.4	Same
ZenPacks.zenoss.FtpMonitor	1.1.0	Same
ZenPacks.zenoss.HP.Proliant	3.3.0	Same
ZenPacks.zenoss.HttpMonitor	2.1.0	Same
ZenPacks.zenoss.IBM.Power	1.1.2	Same
ZenPacks.zenoss.InstalledTemplatesReport	1.1.1	Same
ZenPacks.zenoss.JuniperMonitor	2.1.1	Same
ZenPacks.zenoss.LDAPAuthenticator	3.3.1	Same
ZenPacks.zenoss.LDAPMonitor	1.4.1	Same
ZenPacks.zenoss.Layer2	1.3.5	Same
ZenPacks.zenoss.Licensing	0.2.0	Same
ZenPacks.zenoss.LinuxMonitor	2.2.6	Same
ZenPacks.zenoss.Microsoft.Azure	1.3.0	Same
ZenPacks.zenoss.Microsoft.Windows	2.8.1	Same
ZenPacks.zenoss.MySqlMonitor	3.0.9	Same
ZenPacks.zenoss.NetAppMonitor	3.6.0	Same
ZenPacks.zenoss.NtpMonitor	2.2.2	Same

ZenPack	Current version	Previous version
ZenPacks.zenoss.PredictiveThreshold	1.2.2	Same
ZenPacks.zenoss.PropertyMonitor	1.1.1	Same
ZenPacks.zenoss.PythonCollector	1.10.1	Same
ZenPacks.zenoss.RMMonitor	1.0.2	1.0.1
ZenPacks.zenoss.SolarisMonitor	2.5.0	Same
ZenPacks.zenoss.StorageBase	1.4.3	Same
ZenPacks.zenoss.SupportBundle	1.1.2	Same
ZenPacks.zenoss.vSphere	3.6.3	Same
ZenPacks.zenoss.WBEM	1.0.3	Same
ZenPacks.zenoss.WSMAN	1.0.1	Same
ZenPacks.zenoss.ZenDeviceACL	2.3.0	Same
ZenPacks.zenoss.ZenJMX	3.12.1	Same
ZenPacks.zenoss.ZenMail	5.1.0	Same
ZenPacks.zenoss.ZenOperatorRole	2.2.0	Same
ZenPacks.zenoss.ZenPackLib	2.0.7	Same
ZenPacks.zenoss.ZenSQLTx	2.7.0	Same
ZenPacks.zenoss.ZenWebTx	3.0.1	Same

Packaged ZenPacks

The following ZenPacks are packaged with Resource Manager, but not automatically installed:

- ZenPacks.zenoss.BigIpMonitor
- ZenPacks.zenoss.BrocadeMonitor
- ZenPacks.zenoss.Ceph
- ZenPacks.zenoss.CheckPointMonitor
- ZenPacks.zenoss.CiscoAPIC
- ZenPacks.zenoss.DatabaseMonitor
- ZenPacks.zenoss.DB2
- ZenPacks.zenoss.HpuxMonitor
- ZenPacks.zenoss.JBossMonitor
- ZenPacks.zenoss.Memcached
- ZenPacks.zenoss.Microsoft.Exchange
- ZenPacks.zenoss.Microsoft.Lync
- ZenPacks.zenoss.Microsoft.MSMQ
- ZenPacks.zenoss.NetScaler
- ZenPacks.zenoss.NetScreenMonitor
- ZenPacks.zenoss.NSX
- ZenPacks.zenoss.OpenStack
- ZenPacks.zenoss.OpenStackInfrastructure
- ZenPacks.zenoss.OpenvSwitch

- ZenPacks.zenoss.PostgreSQL
- ZenPacks.zenoss.RabbitMQ
- ZenPacks.zenoss.TomcatMonitor
- ZenPacks.zenoss.XenServer

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Considerations and workarounds

Excessive zeneventd memory usage

An issue with self-monitoring causes excessive memory usage on the `zeneventd` service. To work around the issue, configure `crontab` of the root user on the Control Center master host to restart `zeneventd` every midnight. For example, to `sudo crontab -l` add the following entry:

```
0 0 * * * /usr/bin/serviced service restart zeneventd >/dev/null 2>&1
```

Maintenance windows now process devices in batches of 200

(ZEN-28886) The `zenactiond.conf` file now has a setting for batches to process devices for maintenance windows in groups of 200. Previously, batching was not enabled. To change the default batching, edit the following line in the `zenactiond.conf` file in Control Center:

```
maintenance-window-batch-size 200
```

All timestamps now use local time zone

(ZEN-28883) Previous releases used a mixture of timestamps throughout Resource Manager (UTC and local time zone). For ease and consistency, all timestamps now use the local time zone.

Removing support for Internet Explorer 10

(ZEN-27386) Starting with Resource Manager 6.0.0, Internet Explorer 10 is no longer a supported browser.

Compatibility with Zenoss Service Impact

This version of Resource Manager is compatible with Zenoss Service Impact version 5.2.2 or later. If you use Zenoss Service Impact and upgrade to or install Resource Manager 6.0.0, you must also upgrade to or install Zenoss Service Impact 5.2.2 or later.

NFS client 4.1 is not supported

A file locking defect might exist in NFS 4.1 with RHEL/CentOS 7.4, which could cause zeneventserver to crash and other DFS-related problems. For more information, refer to topic "Configuring NFS 4.0" in the Control Center installation guide or upgrade guide, or knowledge base article *Potential Issues Running With RHEL 7.4 Or CentOS 7.4*.

CentralQuery maximum memory allocation pool

(ZEN-15907) 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.

Loading MIBs change

(ZEN-27107, ZEN-27323) Beginning with version 5.3.0, Resource Manager prevents duplicate OID values in the database, regardless of the MIB module in which the OID exists. When loading a MIB, Resource Manager compares OID values with data from the source (`zenmib` input file, ZenPack `objects.xml` file, or browser interface), and takes the following action:

- If the OID exists in the same MIB module, it overwrites the OID with data from the source.
- If the OID exists in a different MIB module, it deletes the OID, and then creates the OID as defined in the source.
- If the OID does not exist, it creates the OID as defined in the source.

Upgrade considerations

- With the implementation of Solr indexing, during an upgrade, two migrations automatically run; the Solr index is built, and the production state migrates to Solr. This process might take several hours, depending on the size of your system.
- If you are using the following ZenPacks, you must manually update them after upgrading to Resource Manager 6.0.0:
  - `ZenPacks.zenoss.PortalIntegration`
  - `ZenPacks.zenoss.MultiRealmIP`
  - `ZenPacks.zenoss.DeviceSearch`

New features

This release of Resource Manager provides the following new features.

Self-monitoring capability

Resource Manager provides self-monitoring capabilities. A visual pipeline-based status page in the browser interface shows an overview of the monitored Resource Manager instance, including key metrics for nodes in the metric collection, event generation, and modeling processes.

Use data to troubleshoot performance issues with Resource Manager components and proactively manage performance. For example, data can help you determine when a component or service in the system is overloaded. Before issues occur, optimize system performance by adding more instances, more memory, more CPU, or adjusting configuration settings.

You can add custom events and custom thresholds, and edit shipped thresholds for components that have them.

Note Shipped threshold values are subject to change in future releases. If you edit a value, your change will be overwritten by future updates.

For more information see the "Monitoring Resource Manager health and performance" chapter in the *Zenoss Resource Manager Administration Guide*.

Solr model catalog

Currently several catalogs are used to perform efficient searches across the zodb object graph. Unfortunately, information in these catalogs is not stored efficiently and in some cases is duplicated. The new Model Catalog is a central catalog for model data that uses Apache Solr as an indexing backend and which will reduce zodb load and mitigate the duplication of indexed data. The following catalogs are being moved to Solr:

- global_catalog
- componentSearch
- ipSearch
- deviceSearch
- layer2_catalog
- layer3_catalog

The deprecated catalogs have been replaced by adapters that mimic the legacy catalogs' interfaces and use Model Catalog under the hood, so that current ZenPacks should function without any changes. However, there could be cases where ZenPacks use the legacy catalogs in a way the adapters do not support. In such cases, either the adapter or the ZenPack would need to be modified.

Graph enhancements

There have been many improvements to the graphing functionality including the ability to configure a default time range and number of columns, and clicking within a graph to zoom in and re-center the graph. For more information, see the *Zenoss Resource Manager Administration Guide*.

Expanded logging and improved management of audit logs

Audit logging has been expanded to include Control Center configuration and service changes. This audit log can be found at `/var/log/serviced/serviced-audit.log`. There have also been improvements in the ability to configure the retention period for audit logs to be different than that of other logs.

Preserving metrics when reidentifying a device

When reidentifying a device, existing performance data will be lost unless that data is reassociated with the new device ID. There is now an option available to either reassociate existing performance data or to delete existing performance data and starting fresh with the new device ID.

Note Reassociating existing performance data could take some time, during which no metrics will be collected or graphed for this device.

Clustering of collector Redis

This enhancement increases the efficiency of multi-host collectors by ensuring that cached collector configurations are effectively used between collector Redis restarts. The number of collector Redis instances must be equal to the number of collector hosts in the pool, and the host pool DFS access must be turned off.

Fixed issues

Table 10: Release 6.0.0 fixed issues

ID	Description
ZEN-486	When adding datapoints, the log message is not displaying the name.
ZEN-10840	Event mapping creation is not audited.
ZEN-20597	Standalone graph controls do not function properly.
ZEN-20986	HTML Email notifications have random spaces in the formatted output.
ZEN-21465	The **Stacked** check box on the **Graph Point Definition** screen has no effect on the graph.
ZEN-21657	Cannot add Manufacturer to ZenPack.
ZEN-23067	Timestamps are not saved on Event View links.
ZEN-23675	Control Center ZenPack should show Control Center version information.
ZEN-23874	`zenmodeler` collage setting not working.
ZEN-24221	Invalid time on performance data.
ZEN-24306	Error when evaluating min/max threshold.
ZEN-24700	Unable to access Role Manager.
ZEN-25648	ZenPack install is not logged in `audit.log`.
ZEN-25946	Control Center does not warn when attempting to run multiple `zeneventserver`.
ZEN-26529	Event Details sections are expanded by default.
ZEN-26493	Notifications are not sent to manual email subscribers.
ZEN-26519	Thin pool metadata usage component graph is empty.
ZEN-26600	Large multi-graph reports cannot open in new tab due to long URLs.
ZEN-26668	Results are not shown on search page.
ZEN-26675	Appliances do not allow the root user to login.
ZEN-26742	ZenPack export and download results in error.
ZEN-26776	Central Query should send a more informative error message when encountering an error during RPN parsing.
ZEN-26850	`zenping` not resetting its missed runs on config refresh.
ZEN-26891	Special characters in **Infrastructure** > **Devices** view can cause flares.
ZEN-26925	Graph auto scaling does not accept small and non-integer values (1 and -1 are the minimum boundary).
ZEN-26926	Event class mapping navigation issues.
ZEN-26943	Event bookmarks should specify the columns as well as the filters.
ZEN-26944	`zenmodeler` logging `'Scan time'` of modeling immediately after modeling starts.

ID	Description
ZEN-26953	`audit.log` does not log changes to the **Infrastructure** > **Manufacturers** page.
ZEN-26981	Event View dashboard portlet does not retain specified columns and/or filters.
ZEN-26996	Modifications to `/etc/hosts` on appliances are overwritten upon reboot.
ZEN-27047	Devices are not added as Component Group.
ZEN-27104	`IPv6ServiceMap` plugin models services that are localhost only.
ZEN-27174	Cannot create two Custom properties.
ZEN-27213	Metrics property of `zenmodeler` not consistent between fresh and upgraded systems.
ZEN-27299	HBase/Regionserver StartLevel values need adjustment.
ZEN-27510	Time format setting should be applied consistently.
ZEN-27542	Device config caching in redis does not work properly for multi-host collector pools.
ZEN-27565	Manual runs of collector daemons against a device fail to find configs.
ZEN-27678	Component Groups throw a flare when saving dynamic services.
ZEN-27736	Ping status does not included suppressed events.
ZEN-27743	Advanced Search cannot find devices in solr.
ZEN-27767	`stateChange` field in .csv export is in epoch time, which is inconsistent with other fields.
ZEN-27777	Invalid TALES expressions cause notifications to fail.
ZEN-27833	Unexpected data in output from `ping` user command.
ZEN-27883	Duplicate task exceptions cause `_updateDeviceConfigs` to silently fail.
ZEN-27924	Solr max heap size should be configurable.
ZEN-27937	Cisco UCS devices not batch loading correctly with `zenbatchload`.
ZEN-27990	`ThresholdNotifier` does not work in zenhub.
ZEN-27993	`zendebug` service starts automatically on an upgraded system.
ZEN-28199	Control Center self monitoring uses wrong initial URL.
ZEN-28219	Flare message displayed when removing a hub.
ZEN-28274	Datastore sort by allocation is random.
ZEN-28306	RM monitor device does not check for duplicate device adds.
ZEN-28478	OpenTSDB fails after upgrade from pre-5.1.1 systems.
ZEN-28540	Several fields incorrectly accept autofill.
ZEN-28629	Memory leak in daemons due to logging in twisted 15.2.0+.
ZEN-28636	Attribute error when open graph containing `ValueChanged` threshold type.
ZEN-28664	Zenhub can get in a state where some workers die and never get restarted.

ID	Description
ZEN-28693	`zenmail` fails to parse hostname from an email address.
ZEN-28709	Upgrade OpenSSL in our containers.
ZEN-28817	Datapoint alias IDs should not have any trailing whitespaces nor have a length that exceeds 31 characters. Otherwise, a warning will be issued.

Known issues

Table 11: Release 6.0.0 known issues

ID	Description	Status
ZEN-26802	OS model link in Device Detail page points to wrong manufacturer entry	Open
ZEN-27499	Error message regarding dropped Events displayed during Resource Manager upgrade.	Open
ZEN-28138	`objectGUID` is not available to be selected in Login Name Attribute combo box in LDAP configuration options.	Open
ZEN-28519	Error is displayed when a correct date/time is entered in the Date Range field.	Open
ZEN-28716	On Events page, the **Show only actionable events** check box is not displayed for the `ZenOperator` role.	Open
ZEN-28725	On the Dashboard page, a `ZenManager` can see a dashboard even though that user is part of a group with a restriction.	Open
ZEN-28900	When adding a device that is already modeled, the job log shows a failure even though the device seemed to model correctly.	Open
ZEN-28956	Cisco UCS reports organizer is hidden when using `ZenOperator` role.	Open
ZEN-28969	Custom variables creation should not require a value.	Open
ZEN-28971	Missing **Projected High Disk** threshold for Storage Pools component for EMC VNX.	Open
ZEN-28979	Production State portlet not showing custom state name.	Open

ZenPacks

This release of Resource Manager installs the following ZenPacks at the current version listed in the following table. For more information about ZenPacks, see the http://www.zenoss.com/product/zenpacks.

Table 12: Release 6.0.0

ZenPack	Current version	Previous version
ZenPacks.zenoss.AWS	3.0.3	New in 6.0.0
ZenPacks.zenoss.AdvancedSearch	2.0.0	1.2.1
ZenPacks.zenoss.AixMonitor	2.2.3	Same
ZenPacks.zenoss.ApacheMonitor	2.1.4	Same

ZenPack	Current version	Previous version
ZenPacks.zenoss.AuditLog	1.4.1	Same
ZenPacks.zenoss.CalculatedPerformance	2.5.0	2.4.1
ZenPacks.zenoss.CiscoMonitor	5.8.1	5.8.0
ZenPacks.zenoss.CiscoUCS	2.6.2	2.6.1
ZenPacks.zenoss.ComponentGroups	1.5.0	1.4.0
ZenPacks.zenoss.ControlCenter	1.5.3	1.5.2
ZenPacks.zenoss.Dashboard	1.2.7	Same
ZenPacks.zenoss.Dell.PowerEdge	2.0.4	New in 6.0.0
ZenPacks.zenoss.Diagram	1.3.1	Same
ZenPacks.zenoss.DigMonitor	1.1.0	Same
ZenPacks.zenoss.DistributedCollector	3.1.6	Same
ZenPacks.zenoss.DnsMonitor	2.1.0	Same
ZenPacks.zenoss.Docker	2.0.2	New in 6.0.0
ZenPacks.zenoss.DurationThreshold	2.0.4	New in 6.0.0
ZenPacks.zenoss.DynamicView	1.5.0	Same
ZenPacks.zenoss.EMC.base	1.2.1	New in 6.0.0
ZenPacks.zenoss.EnterpriseCollector	1.8.0	1.7.4
ZenPacks.zenoss.EnterpriseReports	2.5.0	2.4.1
ZenPacks.zenoss.EnterpriseSecurity	1.2.0	Same
ZenPacks.zenoss.EnterpriseSkin	3.3.4	Same
ZenPacks.zenoss.FtpMonitor	1.1.0	Same
ZenPacks.zenoss.HP.Proliant	3.3.0	New in 6.0.0
ZenPacks.zenoss.HttpMonitor	2.1.0	Same
ZenPacks.zenoss.IBM.Power	1.1.2	New in 6.0.0
ZenPacks.zenoss.InstalledTemplatesReport	1.1.1	New in 6.0.0
ZenPacks.zenoss.JuniperMonitor	2.1.1	Same
ZenPacks.zenoss.LDAPAuthenticator	3.3.1	Same
ZenPacks.zenoss.LDAPMonitor	1.4.1	Same
ZenPacks.zenoss.Layer2	1.3.5	New in 6.0.0
ZenPacks.zenoss.Licensing	0.2.0	Same
ZenPacks.zenoss.LinuxMonitor	2.2.6	Same
ZenPacks.zenoss.Microsoft.Azure	1.3.0	New in 6.0.0
ZenPacks.zenoss.Microsoft.Windows	2.8.1	2.7.8
ZenPacks.zenoss.MySqlMonitor	3.0.9	Same

ZenPack	Current version	Previous version
ZenPacks.zenoss.NetAppMonitor	3.6.0	3.5.0
ZenPacks.zenoss.NtpMonitor	2.2.2	Same
ZenPacks.zenoss.PredictiveThreshold	1.2.2	Same
ZenPacks.zenoss.PropertyMonitor	1.1.1	Same
ZenPacks.zenoss.PythonCollector	1.10.1	Same
ZenPacks.zenoss.RMMonitor	1.0.1	New in 6.0.0
ZenPacks.zenoss.SolarisMonitor	2.5.0	Same
ZenPacks.zenoss.StorageBase	1.4.3	Same
ZenPacks.zenoss.SupportBundle	1.1.2	Same
ZenPacks.zenoss.vSphere	3.6.3	Same
ZenPacks.zenoss.WBEM	1.0.3	Same
ZenPacks.zenoss.WSMAN	1.0.1	New in 6.0.0
ZenPacks.zenoss.ZenDeviceACL	2.3.0	2.2.0
ZenPacks.zenoss.ZenJMX	3.12.1	Same
ZenPacks.zenoss.ZenMail	5.1.0	Same
ZenPacks.zenoss.ZenOperatorRole	2.2.0	2.1.0
ZenPacks.zenoss.ZenPackLib	2.0.7	2.0.6
ZenPacks.zenoss.ZenSQLTx	2.7.0	2.6.5
ZenPacks.zenoss.ZenWebTx	3.0.1	Same

In addition, the following ZenPacks are packaged with Resource Manager, but not automatically installed:

- ZenPacks.zenoss.BigIpMonitor
- ZenPacks.zenoss.BrocadeMonitor
- ZenPacks.zenoss.Ceph
- ZenPacks.zenoss.CheckPointMonitor
- ZenPacks.zenoss.CiscoAPIC
- ZenPacks.zenoss.DatabaseMonitor
- ZenPacks.zenoss.DB2
- ZenPacks.zenoss.HpuxMonitor
- ZenPacks.zenoss.JBossMonitor
- ZenPacks.zenoss.Memcached
- ZenPacks.zenoss.Microsoft.Exchange
- ZenPacks.zenoss.Microsoft.Lync
- ZenPacks.zenoss.Microsoft.MSMQ
- ZenPacks.zenoss.NetScaler
- ZenPacks.zenoss.NetScreenMonitor
- ZenPacks.zenoss.NSX
- ZenPacks.zenoss.OpenStack
- ZenPacks.zenoss.OpenStackInfrastructure
- ZenPacks.zenoss.OpenvSwitch

- ZenPacks.zenoss.PostgreSQL
- ZenPacks.zenoss.RabbitMQ
- ZenPacks.zenoss.TomcatMonitor
- ZenPacks.zenoss.XenServer

Errata and documentation A

This section includes the following information:

- Release-specific documentation errata, if any
- Descriptions of additional documentation

Additional information

The Resource Manager distribution includes PDF versions of the following documents:

- *Zenoss Resource Manager Planning Guide*
- *Zenoss Resource Manager Configuration Guide*
- *Zenoss Resource Manager Administration Guide*

The Control Center release includes an HTML version of its documentation.

The documentation included in a release is synchronized 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 also updated.

Documentation feedback

Zenoss welcomes your comments and suggestions regarding our documentation. To share your comments, please send an email to `docs@zenoss.com`. In the email, include the document title and part number. The part number appears at the end of the list of trademarks, at the front of PDF versions of a document.