



Red Hat Enterprise Linux

5

5.10 Release Notes

Release Notes for Red Hat Enterprise Linux 5.10
Edition 10

Red Hat Engineering Content
Services

Red Hat Enterprise Linux 5 5.10 Release Notes

Release Notes for Red Hat Enterprise Linux 5.10 Edition 10

Red Hat Engineering Content Services

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Abstract

Red Hat Enterprise Linux minor releases are an aggregation of individual enhancement, security and bug fix errata. The Red Hat Enterprise Linux 5.10 Release Notes document the major changes made to the Red Hat Enterprise Linux 5 operating system and its accompanying applications for this minor release. Detailed notes on all changes in this minor release are available in the Technical Notes.

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Preface

The Release Notes provide high level coverage of the improvements and additions that have been implemented in Red Hat Enterprise Linux 5.10. For detailed documentation on all changes to Red Hat Enterprise Linux for the 5.10 update, refer to the [Technical Notes](#).

Chapter 1. Kernel

New `panic_on_io_nmi` Kernel Option

The Red Hat Enterprise Linux 5.10 kernel includes a new `panic_on_io_nmi` option (configured via the `/proc/sys/kernel/panic_on_io_nmi` file). This option allows users to press the hardware or virtual Non Maskable Interrupt (NMI) button, which acts as an I/O error and triggers a crash where otherwise no crash would occur. This can be used in cases when the system is unresponsive and does not accept any commands.

Added kABI Symbols

The following kABI symbols have been added to the kernel shipped with Red Hat Enterprise Linux 5.10:

- ✦ `unregister_lro_netdev`
- ✦ `register_lro_netdev`
- ✦ `libfc`
- ✦ `libfcoe`

These symbols allow Large Receive Offload to be disabled by the kernel stack.

Chapter 2. Device Drivers

2.1. Storage Drivers

- ✦ The **cciss** driver has been updated to the latest version, which adds support for Gen8 Snap IVB-EP servers with the new HP P430i 12GB Smart Array controller.

2.2. Miscellaneous drivers

- ✦ The **ALSA HDA** audio driver has been updated to support Creative Recon3D audio cards.

Chapter 3. Subscription Management

Updated Subscription Manager

Red Hat Subscription Manager has been updated to the latest version, which includes the following notable enhancements:

- When used against Subscription Asset Manager, Subscription Manager now prompts the user for the Organization if it is required to complete registration.
- Subscription Manager now displays the number of subscriptions a user is attaching to a specific machine in the **System Registration** dialog.
- The Subscription Manager GUI now shows the Organization ID in the **System Facts** dialog.
- The Red Hat Certificate Tool (**rct**) now supports tab completion of its primary modules.
- Subscription Manager now sets the **ui_repo_id_vars** setting with all variables in a given content set. The **ui_repo_id_vars** setting is used to display Yum variables, which are used in the **baseurl**, **name**, and other fields of a Yum repository file.
- Subscription Manager can now be configured to not upload package profile data by setting the **report_package_profile = 0** setting in the **/etc/rhsm/rhsm.conf** file.

Enhanced Entitlements Reporting

Red Hat Satellite now integrates with Subscription Asset Manager to provide a rich Enhanced Entitlements Reporting interface that maps your purchased products to systems registered within Satellite. The Red Hat Customer Portal now provides subscription manifests for Satellite 5-registered systems, which are imported into Subscription Asset Manager to provide the new reporting features. This manifest file contains information about the subscriptions available in the Satellite 5 entitlement certificate.

Subscription Asset Manager 1.3

Red Hat Subscription Asset Manager is an on-premise subscription management application. It moves the administration of subscriptions and systems away from the Customer Portal and into the local infrastructure. Along with Red Hat Enterprise Linux 5.10, a new 1.3 version of Subscription Asset Manager is now available. For more information, refer to the *Red Hat Subscription Asset Manager 1.3 Release Notes* located at https://access.redhat.com/site/documentation/Red_Hat_Subscription_Asset_Manager/.

Red Hat Support Tool

Red Hat Enterprise Linux 5.10 includes a new package, *redhat-support-tool*, which provides the Red Hat Support Tool. This tool facilitates console-based access to Red Hat's subscriber services and gives Red Hat subscribers more venues for accessing both the content and services available to them as Red Hat customers. Further, it enables our customers to integrate and automate their helpdesk services with our subscription services. The capabilities of this package include:

- Knowledge Base article and solution viewing from the console (formatted as man pages).
- Viewing, creating, modifying, and commenting on customer cases from the console.
- Attachment uploading directly to a customer case or to <ftp://dropbox.redhat.com/> from the console.
- Full proxy support (that is, FTP and HTTP proxies).

- ✦ Easy listing and downloading of attachments to customer cases from the console.
- ✦ Knowledge Base searching on query terms, log messages, and other parameters, and viewing search results in a selectable list.
- ✦ Easy uploading of log files, text files, and other sources to the Shadowman automatic problem determination engine for diagnosis.
- ✦ Various other support-related commands.

For more information about the Red Hat Support Tool, refer to the installed documentation in the `/usr/share/doc/redhat-support-tool-version/` directory or the following Knowledge Base article: <https://access.redhat.com/site/articles/445443>.

Chapter 4. Security

Updated OpenSCAP

Red Hat Enterprise Linux 5.10 includes an updated version of the Security Content Automation Protocol (SCAP) configuration scanner, OpenSCAP. The new version provides important bug fixes and an authenticated scanner that implements the SCAP 1.2 specification.

Chapter 5. File System

Full Support for fsfreeze

The **fsfreeze** command, provided by the *util-linux* package, is now fully supported in Red Hat Enterprise Linux 5.10. **fsfreeze** suspends and resumes access to a file system. **fsfreeze** is intended to be used to temporarily suspend file system activity, allowing a consistent snapshot to be created. For more information, refer to the **fsfreeze(8)** man page.

Chapter 6. General Updates

MySQL 5.1 and MySQL 5.5

Red Hat Enterprise Linux 5.10 provides updated versions, specifically versions 5.1 and 5.5, of the MySQL packages as software collections. In order to migrate from MySQL 5.0 to 5.5, you must first update to MySQL 5.1. Note that the MySQL 5.1 packages are not supported and are provided only for the purposes of migration to MySQL 5.5. You should not use MySQL 5.1 on any of your production systems. For more information on the migration from MySQL 5.0 to MySQL 5.5, refer to chapter *Migrating from MySQL 5.0 to MySQL 5.5* in the *Red Hat Enterprise Linux 5 Deployment Guide* at

https://access.redhat.com/site/documentation/Red_Hat_Enterprise_Linux/.

As a result of this update, Red Hat will not issue any more security advisories for the MySQL 5.0 packages (*mysql-5.0.** and related packages). Security advisories will be provided only for MySQL 5.5.

New *gcc-libraries* Package

A new *gcc-libraries* package, which includes the **libitm** library and a new **libatomic** library, is now included in Red Hat Enterprise Linux 5.10. In Red Hat Enterprise Linux 5.9, *libitm* was a separate package that included the **libitm** library. The *libitm* package is now deprecated and replaced by the *gcc-libraries* package.

Appendix A. Revision History

Revision 1.0-0.7.400	2013-10-31	Rüdiger Landmann
Rebuild with publican 4.0.0		
Revision 1.0-0.7	Tue Oct 01 2013	Eliška Slobodová
Release of the Red Hat Enterprise Linux 5.10 Release Notes		
Revision 1.0-0.0	Tue July 16 2013	Martin Prpič
Release of the Red Hat Enterprise Linux 5.10 Beta Release Notes		