Sentinel RMS SDK v10.3

RELEASE NOTES FOR LINUX (32-BIT AND 64-BIT)

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Product Description

Sentinel RMS is a software licensing SDK for your applications. It increases revenue by authorizing the use of your applications and offers a variety of licensing schemes to boost your product sales. It also provides tools that system administrators can use to track and manage licenses in a network.

Sentinel Cloud Licensing (SCL) Add-on for RMS, combined with the license enforcement features of Sentinel RMS and the entitlement management features of Sentinel EMS; makes a complete solution that provides the benefits of cloud licensing to applications deployed on-premises or hosted online. Usage collection and reporting is the most-significant advantage obtained with cloud-basedlicensing.

About This Document

This document contains details about the new features, enhancements, and installation of v10.3 Sentinel RMS. The last major release was Sentinel RMS v10.2.

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What's New in this Release

This section lists the changes included in the Sentinel RMS v10.3 release.

Expanded LSERVOPTS Input Length

Increased the maximum supported length to set the LSERVOPTS environment variable to configure the License Manager.

On Linux, LSERVOPTS can now accept input strings up to 2000 characters.

Supported Proxy in the Sentinel RMS Revocation Tool

The Sentinel RMS Revocation Tool, used for revoking licenses in on-premises mode, now supports proxy, enabling secure communication and improved network access for license revocation.

Network Communication Improvements

The licensing libraries now use a more robust system call to communicate with the License Manager, enabling support for licensed applications that use a larger number of file descriptors.

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Issues Fixed in this Release

The following issues have been corrected in this release.

Service Request	Issue Description
SM-165528	Lservnt crashed when a refresh call was made for expired keys during usage rollover in lservsta.
SM-158502	Memory leak occurred when clearing zombie processes.
SM-162955	Cancel and resume lease issue observed with 64-bit licensing libraries.
SM-165251	Lservnt crashed when adding short-numeric multi-featured overlapped licenses.
SM-165027	The licensing APIs failed with SNTL_NO_NETWORK or SNTL_NORESOURCES.

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System Requirements

The following table provides the minimum hardware and software requirements for using Sentinel RMS.

Hardware Requirements	Software Requirements
Processors: > x86 processors for 32-bit > x86-64 processors for 64-bit	**Operating Systems:** > Red Hat Enterprise Linux (RHEL) 8.x > Red Hat Enterprise Linux (RHEL) 9.x > Red Hat Enterprise Linux (RHEL) 10.x[1] > SUSE Linux Enterprise Server (SLES) 15.x > Debian Linux 11.x > Debian Linux 12.x > Ubuntu 20.04 (LTS) > Ubuntu 22.04 (LTS) > Ubuntu 24.04 (LTS) > OpenSUSELeap 15.x
Hard Disk (Minimum) As per the operating systems' specification.	**GCC and Glibc:** > **GCC (32-bit):** 4.8.5 20150623 > **GCC (64-bit)**: 4.8.5 20150623 > **Glibc (32-bit and 64-bit)**: 2.17 **NOTE** Starting 10.2, the recommended versions of GCC and Glibc are same for both the license generation and all other libraries (included in the Sentinel RMS SDK).
RAM Requirement As per the operating systems' specification.	**Java Development Kit (JDK):** Java 8 (minimum supported version) **Web Browser (for viewing HTML Helps):** > Mozilla Firefox > Google Chrome > Microsoft Edge **PDF File Viewer (for viewing PDF documents):** Adobe Acrobat

[1] Only 64-bit (x86-64) Sentinel RMS binaries are supported.

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Installation Information

This section contains important information related to the installation of Sentinel RMS v10.3.

Before installing the Sentinel RMS SDK, you must have the following:

> **Administrator Privileges**: Administrator privileges are required to successfully install all the components.

> **Sentinel RMS SDK Serial Number**: A valid serial number. The installer prompts you to enter the serial number provided to you.

Installation Instructions

1. The software is packed in a .tar archive. Extract files from the archive as follows:

```
tar -xvf RMSSDKxx.x.x.xxLinux.tar
```

2. Change the directory where the installation script *INSTALL.sh* exists (slm_xx.x.x_linux_combo_cdrom directory). Afterward, type *sh INSTALL.sh* to start the installation.
3. Accept the license agreement to proceed with the installation.
4. Enter the path of the installation directory.

> **NOTE** It is recommended NOT to install two non-Windows SDKs in the same directory.

5. You will be required to specify the Sentinel RMS SDK serial number. This serial number is contained in the Sentinel Order Credentials email and is unique for each vendor.

> **NOTE** Sentinel RMS is self-contained in the installation directory. To uninstall, remove the directory. Do stop the Sentinel RMS License Manager before uninstalling.

Installing Sentinel UNIX Driver (SUD)

Sentinel UNIX Driver (SUD) needs to be installed for making use of the hardware keys (for CID-based locking and license generation). To install SUD on your system:

> **NOTE** The RMS License Manager included with this release supports version 7.5.6 of the Sentinel UNIX Driver.

1. Extract the SUD installer from its compressed tar image placed at *<installdir>/redistributable/licenseManager/SUDInstaller tar.gz* location by giving the following command:

```
tar -xvzf SUDInstaller.tar.gz
```

2. Change directory to SUDInstaller.
3. To install SUD USB driver on RPM-based operating systems:
   - Change directory to usb.

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- Run command rpm -i --force sntl-sud-7.5.6-0.i386.rpm to install the driver.

4. To install SUD USB driver on Debian-based operating systems :
   - Change directory to usb.
   - Run command dpkg -i --force-architecture sntl-sud_7.5.6-0_i386.deb to install the driver.

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Installed Directories

The following directories and files are installed.

Directory or File	Description
development	Contains all the RMS libraries, header files, and source code for licensing and customization purpose.
manuals	Documentation for the Sentinel RMS SDK.
redistributable	The utilities and files for your customers, including the Sentinel RMS License Manager.
samples	Contains sample programs for demonstrating the use of various RMS features and APIs.
vendorTools	Contains the lsver and vusage utilities. **NOTE** The license generator is no longer included with the SDK. A download link is provided to you using email. If not, contact Technical Support for obtaining it.
install.rbo	Contains information about Sentinel RMS SDK version and serial number.
ReleaseNotes.pdf	This file.
legacy	**This directory contains the persistence management libraries (for persistence initialization and cleaning) and associated files that were present before version 9.8 of Sentinel RMS. Starting from version 9.8, persistence management libraries based on the Unified API have been introduced. However, as the Unified API does not support custom persistence devices (CPDs), the legacy files within this directory are necessary if a software vendor intends to implement CPD-based persistence.**

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Sentinel RMS Documentation Resources

The following are the major documentation resources for the product. The latest documentation resources are also listed here:

Sentinel Software and Services Solutions Guide

This guide provides the complete overview of the Software Monetization solution. You can use this guide to prepare a comprehensive monetization strategy prior to integrating licensing technology with your software and business processes.

> To view the online version of the latest document, click here.

Sentinel RMS Developer Guide

This guide contains the complete product overview, the necessary information for licensing and distributing the applications. Useful for developers planning and implementing licensing.

> To view the online version of the latest document, click here.

Sentinel RMS API Reference Guide

This guide contains details about all the API functions, including the licensing library, persistence management, and so on. Useful for developers integrating the API functions in the code.

> To view the online version of the latest document, click here.

Sentinel RMS System Administrator Guide

This guide contains details about using the system administration and License Manager configuration options. Useful for the System Administrator of the end user (on the customer site). To access, use the following ways:

> The HTML version installed on the system can be accessed using the Doc Access Page (.htm) in the Manuals directory.

> To view the online version of the latest document, click here.

Sentinel Cloud Licensing (SCL) Add-on Installation and Configuration Guide

This guide describes the procedure for installing and configuring SCP for Cloud-Served Lease and On-premises deployment modes, respectively. This is applicable to Windows, Linux, Mac, Android, and Linux ARM operating systems. Additionally, it describes the components included in the SCP package for serving Cloud-Connected deployments.

> To view the online version of the latest document, click here.

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