



# Sentinel RMS SDK v9.6.0

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

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# Product Description

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Sentinel RMS is a software licensing SDK for your application(s). It increases revenue by authorizing the use of your application(s) 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-connected licensing to applications deployed on the customer's network or hosted online. Usage collection and reporting is the most significant advantage obtained with cloud-connected licensing.

## About This Document

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This document contains details about the new features, enhancements, and installation of v9.6.0 of Sentinel RMS. The last major release was Sentinel RMS v9.5.0.

## What's New in this Release

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This section lists down the new features included in Sentinel RMS v9.6.0 release.

### Termination of Active User Sessions

In this release, the Sentinel RMS License Manager administration library has been introduced.

This library provides a set of APIs that are used to terminate active sessions for a particular user and host. Termination is performed by the end user admin by logging on (either physically or remotely) to the machine where the License Manager is installed.

For more information, refer to the [Sentinel RMS Developer's Guide](#) and [Sentinel RMS API Reference Guide](#).

### Sentinel Cloud Licensing Version 5.1

Sentinel RMS v9.6.0 supports Sentinel Cloud Licensing (SCL) v5.1.

### Enhanced Time Tampering Mechanism

In Sentinel RMS v9.6 the time tampering mechanism has been enhanced for non-Windows operating systems. For more information, refer to the [Sentinel RMS Developer's Guide](#).

### Extending Support for *install.rbo* File

The **install.rbo** file is available after installing Sentinel RMS v9.6 on your machine. Previously, this file was available only on Windows. To access this file, navigate to `<Install_Dir>/SentinelRMSSDK/9.6.0.0/`



**NOTE** For more information regarding the contents of this file, refer to the [Installed Directories](#) section in this document.

## Issues Fixed in this Release

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The following issues have been corrected in this release.


Internal Tracking ID	Issue Description
<b>SM-49682</b>	Unable to load SLM_HYSYS_Runtime license (from license configuration file) onto the License Manager. Checksum collision causing problem during initialization of distribution criteria table.
<b>SM-40831</b>	Error received while trying to retrieve information using lsmon and lspool utilities for redundant License Managers.
<b>SM-54809</b>	Fix End User License Agreement (EULA) for Sentinel RMS 9.5 (library and version usage).
<b>SM-39615</b>	Number of licenses on the License Manager keeps increasing after each refresh.
<b>SM-54311</b>	Upgrade Mini XML version from 1.1 to 3.0: Remove references to LGPL in EULA.
<b>SM-57423</b>	The memory leak issue with the VLSverifyRevocationTicketExt API has been fixed.
<b>SM-57725</b>	Error code 210011 is returned when a commuter authorization is checked without specifying feature and version in the Unified API.
<b>SM-34894</b>	Revocation ticket generation (using API) fails when the permission ticket is generated using more than one license.
<b>SM-60971</b>	VLS_CALLING_ERROR (status code 11) is received when VLSgetAndInstallCommuterCode is called using the challenge data of maximum size (30 characters).
<b>SM-62337</b>	Error 210133 is returned when either the application runs for a long time or there are long breaks between queries.
<b>SM-61970</b>	Daylight Saving Time is not considered while comparing cancel lease time stamp and lease birth time.
<b>SM-55959</b>	All references of ReportDB.mdb removed from the Sentinel RMS System Administrator's Guide.
<b>SM-18779</b>	All APIs except LSUpdate fail when the primary leader server in the redundant server pool goes down.
<b>SM-59511</b>	Unable to fetch license using syncLicenseJobInfo API; however success message is returned.
<b>SM-60967</b>	Scheduler shutdown signal is not reset when sntl_scp_clean API is called.
<b>SM-62338</b>	For Java interface, error 200004 is returned when sntl_lease_demo API is called to fetch lease from cloud.

Internal Tracking ID	Issue Description
<b>SM-61884</b>	Wrong error code is returned by sntl_licensing_get_info API when lease is in suspended state.
<b>SM-55476</b>	Move node registration with Yellow Page Server (YPS) to a separate thread to allow licensing transactions.
<b>SM-64788</b>	File descriptor leak while fetching UUID in some cases.

# System Requirements

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

Hardware Requirements	Software Requirements
<p><b>Processors:</b></p> <ul style="list-style-type: none"><li>&gt; x86 processors for 32-bit</li><li>&gt; x86-64 processors for 64-bit</li></ul>	<p><b>Operating Systems:</b></p> <ul style="list-style-type: none"><li>&gt; Red Hat Enterprise Linux (RHEL) 7.x</li><li>&gt; Red Hat Enterprise Linux (RHEL) 8.x</li><li>&gt; SUSE Linux Enterprise Server (SLES)12.x</li><li>&gt; SUSE Linux Enterprise Server (SLES) 15.x</li><li>&gt; Debian Linux 9.x</li><li>&gt; Debian Linux 10.x</li><li>&gt; Ubuntu Linux 16.x (LTS)</li><li>&gt; Ubuntu Linux 18.x (LTS)</li><li>&gt; Ubuntu Linux 19.x</li><li>&gt; OpenSUSE Leap 42.x</li><li>&gt; OpenSUSE Leap 15.x</li></ul>
<p><b>Hard Disk (Minimum)</b></p> <p>500 MB of free hard disk space is required.</p>	<p><b>GCC and Glibc:</b></p> <ul style="list-style-type: none"><li>&gt; <b>GCC (32-bit):</b> 4.4.7</li><li>&gt; <b>GCC (64-bit):</b> 4.4.7</li><li>&gt; <b>Glibc (32-bit and 64-bit):</b> 2.12</li></ul> <div data-bbox="863 1052 1432 1226"><p> <b>NOTE</b> For Licgen, the GCC and Glibc versions (applicable for both 32-bit and 64-bit OSes) are 4.8.4 and 2.19 respectively.</p></div>

## Hardware Requirements

### RAM (Minimum)

Operating System	Minimum Capacity
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Red Hat Enterprise Linux (RHEL) 7.x	2 GB
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Red Hat Enterprise Linux (RHEL) 8.x	2 GB
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SUSE Linux Enterprise Server (SLES) 12.x	1 GB
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SUSE Linux Enterprise Server (SLES) 15.x	1 GB
--	------

Debian Linux 9.x	512 MB
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Debian Linux 10.x	512 MB
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Ubuntu Linux 16.x (LTS)	2 GB
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Ubuntu Linux 18.x (LTS)	2 GB
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Ubuntu Linux 19.x	2 GB
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OpenSUSE Leap 42.x	2 GB
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OpenSUSE Leap 15.x	2 GB
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## Software Requirements

### Java Development Kit (JDK):

Java SE 7, Java SE 8

### Web Browser (for viewing HTML Helps):

- > Mozilla Firefox
- > Google Chrome

### PDF File Viewer (for viewing PDF documents):

Adobe Acrobat

# Installation Information

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This section contains important information related to the installation of Sentinel RMS SDK v9.6.0.

Before installing the Sentinel RMS SDK, ensure that you have the following:

- > Administrator Privileges: You must have administrator privileges to successfully install all the components.
- > Sentinel RMS SDK Serial Number: You require a valid serial number provided by Gemalto. 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 RMSSDK9.6.0.0028Linux.tar
```

2. Change the directory where the installation script *INSTALL.sh* exists (*slm\_0960\_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.
5. You will be required to specify the Sentinel RMS SDK serial number. This serial number is contained in the Gemalto Sentinel Order Credential e-mail 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.
  - 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.

## Installed Directories

The following directories/files are installed:

Directory or File	Description
<b>development</b>	Contains all the RMS libraries, header files, and source code for licensing and customization purpose.
<b>manuals</b>	Documentation for the Sentinel RMS SDK.
<b>samples</b>	Examples that illustrate the various features of Sentinel RMS. The include files, which provide the prototypes for various Sentinel RMS library functions.
<b>vendorTools</b>	Contains the utilities and files for your use. <div data-bbox="597 638 1433 779"> <b>NOTE</b> The license generator is no longer included with the SDK. A download link is provided to you using e-mail. If not, contact <a href="#">Technical Support</a> for obtaining it.</div>
<b>redistributable</b>	The utilities and files for your customers, including the Sentinel RMS License Manager.
<b>install.rbo</b>	Contains information about Sentinel RMS SDK version and serial number.
<b>ReleaseNotes.pdf</b>	This file.



# Sentinel RMS Documentation Resources

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The following are the major documentation resources for the product.

## Sentinel RMS SDK Solution Guide

This guide provides the complete overview of Gemalto's 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 SDK Developer's 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 access, use the following ways:

> To view the online version of the latest document, [click here](#).

## Sentinel RMS SDK API Reference Guide

This guide contains details about all the API functions, including the licensing library, system initialization, and so on. Useful for developers integrating the API functions in the code. To access, use the following ways:

> To view the online version of the latest document, [click here](#).

## Sentinel RMS SDK System Administrator's 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](#).

## License Generation API Reference Guide

This guide contains details about the License Generation API functions. To access, use the following ways:

> To view the online version of the latest document, [click here](#).

## SCP (Sentinel Cloud Plug-in) Installation and Configuration Guide

This guide describes the installation and configuration procedure for SCP used for cloud-served lease deployments. This is applicable for Windows, Linux, and MAC 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](#).

# Support Contacts

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You can contact us using any of the following options:

## Business Contacts

To find the nearest office or distributor, use the following URL:

<https://supportportal.thalesgroup.com/contact-us-sm/>

## Technical Support

To obtain assistance in using Gemalto Sentinel Products, feel free to contact our technical support team:

- > Customer Support Portal (Preferred)
  - <https://supportportal.thalesgroup.com/csm?id=sentinel>
- > Support Essentials (Contact details, support plans, and policies):
  - [https://supportportal.thalesgroup.com/csm?id=support\\_essentials](https://supportportal.thalesgroup.com/csm?id=support_essentials)
- > For Issues Related to Using the Portal:
  - [portal.support.DIS@thalesgroup.com](mailto:portal.support.DIS@thalesgroup.com)
- > Phone:
  - AMER: 800-545-6608 (US toll free)
  - International: +1-410-931-7520
  - EMEA / APAC: <https://supportportal.thalesgroup.com/csm?id=sentinel>
- > E-mail (only if having issue submitting the technical issue via portal)  
[technical.support@gemalto.com](mailto:technical.support@gemalto.com)

## Downloads

You may want to explore updated installers and other components here:

<https://sentinelcustomer.gemalto.com/sentineldownloads/>