

# Sentinel RMS SDK v9.7.2

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

**Release Version: v9.7.2**

**Document Number: 007-000677-001, Revision B**

**Release Date: November, 2020**

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## Product Description

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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-connected licensing to applications deployed on-premises 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 v9.7.2 Sentinel RMS.

## What's New in this Release

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This section lists down the new features included in Sentinel RMS v9.7.2 release.

### Sentinel Cloud Plug-in (SCP) Configuration Using APIs

You can now configure SCP using the client-side APIs in the standalone lease deployments. Prior to this release, only the SCP configuration file could be used for configuring SCP. Now, you can integrate SCP configuration APIs into your licensed application and allow SCP configuration by the customers directly.

For details about this feature, refer to the topic "Configuring Sentinel Cloud Plug-in (SCP)" in the [Sentinel RMS Developer Guide](#).

### Terminate User Session (TUS) Functionality Enhanced for All Administrator Accounts

All Administrator users can now perform the TUS actions on the License Manager host machine. Earlier, only the administrator who started the License Manager could terminate users using the TUS functionality.

## Documentation-Related Information

### PDF Format of the API Reference Guide Removed from the SDK

From v9.7.2 onward, the Sentinel RMS SDK does not contain the PDF format of the API Reference Guide. Use the [online API Reference Guide](#) for up-to-date and web browser-based documentation.

## Issues Fixed in this Release

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The following issues have been corrected in this release.

Internal Tracking ID	Description
SM-79769	Unable to create lservrlf in directory that has a hash tag.
SM-84166	Memory leak when initializing license with wireless network turned off.
SM-80421	Ethernet enumeration is enhanced to fetch all the available Ethernet addresses calculated globally. Now there is no hard coded upper limit. This is useful for fetching machine fingerprint or verifying license locking.
SM-75734	Ethernet enumeration was not working as expected when multiple Ethernet cards are inserted into the system. The state of the RMS leader License Manager should be active; whereas it is shown as inactive.
SM-83074	For standalone deployments, Sentinel Cloud Plug-in (SCP) is enhanced to delete existing licenses before renewing the lease.
SM-75595	Trace logs generated for RMS v9.6.2 had missing information related to some APIs.

# System Requirements

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

## Build Environment Recommendations

Hardware Requirements	Software Requirements
<b>Processors:</b> <ul style="list-style-type: none"><li>&gt; x86 processors (32-bit)</li><li>&gt; x86-64 processors (64-bit)</li></ul>	<b>Operating Systems:</b> <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; Debian Linux 9.x</li><li>&gt; Debian Linux 10.x</li><li>&gt; Ubuntu Linux 16.04</li><li>&gt; Ubuntu Linux 18.04</li><li>&gt; Ubuntu Linux 20.04</li></ul>
<b>Hard Disk (Minimum)</b> 1.5 GB of free hard disk space	<b>GCC:</b> <ul style="list-style-type: none"><li>&gt; <b>32-bit:</b><ul style="list-style-type: none"><li>• <b>Soft Float:</b> arm-linux-gnueabi-gcc-4.7</li><li>• <b>Hard Float:</b> arm-linux-gnueabi-gcc-4.7</li></ul></li><li>&gt; <b>64-bit:</b> aarch64-linux-gnu-gcc-4.8</li></ul>
<b>RAM (Minimum)</b> <ul style="list-style-type: none"><li>&gt; 4 GB capacity for:<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux (RHEL) 8.x</li></ul></li><li>&gt; 2 GB capacity for:<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux (RHEL) 7.x</li><li>• Ubuntu Linux 16.04</li><li>• Ubuntu Linux 18.04</li><li>• Ubuntu Linux 20.04</li><li>• Debian Linux 10.x</li></ul></li><li>&gt; 512 MB capacity for:<ul style="list-style-type: none"><li>• Debian Linux 9.x</li></ul></li></ul>	<b>Java Development Kit (JDK):</b> Java SE 8  <b>Web Browser (for viewing HTML5 Documents):</b> <ul style="list-style-type: none"><li>&gt; Mozilla Firefox</li><li>&gt; Google Chrome</li></ul> <b>PDF File Viewer (for viewing PDF documents):</b> Adobe Acrobat 4.0 (or later)

## Deployment Environment Recommendations

Hardware Requirements	Software Requirements
<b>Processor:</b> ARM	<b>Operating System:</b> Linux
<b>Architecture:</b> <ul style="list-style-type: none"><li>&gt; ARMv7-A (32-bit Soft Float)</li><li>&gt; ARMv7-A (32-bit Hard Float)</li><li>&gt; ARMv8-A (64-bit)</li></ul>	<b>Java Runtime:</b> Java Runtime Environment version 1.8

# Installation Information

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This section contains important information related to the installation of Sentinel RMS v9.7.2.

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 RMSSDK9.7.2.xxxxLinuxArm.tar
```

2. Change the directory where the installation script *INSTALL.sh* exists (*slm\_0972\_linux\_arm\_cdrom* directory).
3. Type *sh INSTALL.sh* to start the installation.
4. Accept the license agreement to proceed with the installation.
5. Enter the path of the installation directory.
6. You will be required to specify the Sentinel RMS SDK serial number. This serial number is contained in the Sentinel Order Credentials 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.

## Installed Directories

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The following directories and 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>redistributable</b>	The utilities and files for your customers, including the Sentinel RMS License Manager.
<b>samples</b>	Contains the sample programs for demonstrating the use of various RMS features and API functions.
<b>vendorTools</b>	Contains the utilities and files for your use.
<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. The latest documentation resources are also listed [here](#):

## Sentinel EMS and Sentinel RMS Solution 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 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](#).

## 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 access, use the following ways:

- > 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, 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 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](#).



# 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, go to: <https://cpl.thalesgroup.com/software-monetization/contact-us>

## Support

To obtain assistance in using Sentinel products (<https://cpl.thalesgroup.com/software-monetization/all-products>), feel free to contact our Thales 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>

## Downloads

You can download installers and other updated components from: <https://cpl.thalesgroup.com/software-monetization/sentinel-drivers>