

Sentinel RMS SDK v9.7.0

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

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Product Description

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

This document contains details about the new features, enhancements, and installation of v9.7.0 of Sentinel RMS.

What's New in this Release

This section lists down the new features included in Sentinel RMS v9.7.0 release.

New Operating System for Sentinel RMS SDK

From Sentinel RMS v9.7 onwards, support for the Linux ARM operating system is added.

Redundancy and IPv6 configurations are not supported.

To view the list of supported RMS SDK components for Linux ARM, refer to [Platforms, Libraries, and Compilers](#).

New Operating System for SCL Add-on for RMS

From Sentinel RMS v9.7 onwards, support for the Linux ARM operating system is added for users of SCL Add-on.

NOTE It is important to note that only standalone mode is supported here.

Tracking Usage in Isolated Networks

Sentinel RMS v9.7 is enhanced to extend support for tracking usage in isolated environments. This is applicable for standalone and network licenses for the On-premises Deployment Mode.

Following are some of the key points and changes made for enabling this feature:

- > This feature is available for users of SCL (Sentinel Cloud Licensing) Add-on for RMS only.
- > This feature works only with license version 21.
- > The SCP service has to be configured to run in `offline_updated` mode for using this feature.

- > The `usageInfo` query for the `sntl_licensing_get_info` API is introduced.
- > The `readyUsageForUpload` action for the `sntl_licensing_transfer` API is introduced.
- > Existing sample `sntl_tool` for C, Java, and .NET interface is updated to include:
 - New option for obtaining usage path information.
 - New option for completing ready usage for upload operation.
- > A new sample for C, `sntl_process_ack` is provided for deleting usage data on the source machine.
- > For usage persistence cleaning using cleaning library, new options are added.
- > This feature is available with SCL version 5.2.

New License Version

In Sentinel RMS v9.7, license version 21 is introduced to support usage generation for isolated networks.

New Mode Introduced for Sentinel Cloud Plug-in (SCP) Service

Under this enhancement, the following changes are made:

- > The `offline_uploaded` mode is introduced for the SCP service. This mode is used for processing usage data (for isolated networks) on the proxy machine.
- > The `offline_uploaded` mode supports Windows and Linux only.

NOTE The SCP service is available with the Sentinel Cloud Licensing (SCL) Add-on package.

SCL Add-on for RMS Version 5.2

Sentinel RMS v9.7 supports Sentinel Cloud Licensing (SCL) Add-on v5.2.

Enhancement in Vendor Usage Data Behavior for SCL Add-on for RMS

Vendor usage data attribute set for an API (`login_attr/refresh_attr/logout_attr`) will not impact any later API calls. For more information, refer to [Sentinel RMS API Reference Guide](#).

Documentation Related Information

New Document Title for SCP Guide

The *Sentinel Cloud Plug-in (SCP) Installation and Configuration Guide* is renamed to *Sentinel Cloud Licensing (SCL) Add-on Installation and Configuration Guide*.

Reference Documents

The following documents are updated to provide information related to usage in isolated environments.

- > [Sentinel EMS and Sentinel RMS Solution Guide](#)

- > [Sentinel Cloud Licensing \(SCL\) Add-on Installation and Configuration Guide](#)
- > [Sentinel RMS Developer Guide](#)
- > [Sentinel RMS API Reference Guide](#)
- > [Sentinel RMS System Administration Guide](#)

System Requirements

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

Build Environment Recommendations

Hardware Requirements	Software Requirements
Processors: <ul style="list-style-type: none">> x86 processors (32-bit)> x86-64 processors (64-bit)	Operating Systems: <ul style="list-style-type: none">> Red Hat Enterprise Linux (RHEL) 7.x> Red Hat Enterprise Linux (RHEL) 8.x> Debian Linux 9.x> Debian Linux 10.x> Ubuntu Linux 16.04> Ubuntu Linux 18.04> Ubuntu Linux 20.04
Hard Disk (Minimum) 150 MB of free hard disk space	GCC: <ul style="list-style-type: none">> 32-bit:<ul style="list-style-type: none">• Soft Float: arm-linux-gnueabi-gcc-4.7• Hard Float: arm-linux-gnueabi-gcc-4.7> 64-bit: aarch64-linux-gnu-gcc-4.8
RAM (Minimum) <ul style="list-style-type: none">> 4 GB capacity for:<ul style="list-style-type: none">• Red Hat Enterprise Linux (RHEL) 8.x> 2 GB capacity for:<ul style="list-style-type: none">• Red Hat Enterprise Linux (RHEL) 7.x• Ubuntu Linux 16.04• Ubuntu Linux 18.04• Ubuntu Linux 20.04• Debian Linux 10.x> 512 MB capacity for:<ul style="list-style-type: none">• Debian Linux 9.x	Java Development Kit (JDK): Java SE 8 Web Browser (for viewing HTML5 Documents): <ul style="list-style-type: none">> Mozilla Firefox> Google Chrome PDF File Viewer (for viewing PDF documents): Adobe Acrobat 4.0 (or later)

Deployment Environment Recommendations

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

Installation Information

This section contains important information related to the installation of Sentinel RMS v9.7.0.

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 RMSSDK9.7.0.xxxxLinuxArm.tar
```

2. Change the directory where the installation script *INSTALL.sh* exists (*slm_0970_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

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 the sample programs for demonstrating the use of various RMS features and API functions.
vendorTools	Contains the utilities and files for your use.
install.rbo	Contains information about Sentinel RMS SDK version and serial number.
ReleaseNotes.pdf	This file.

Sentinel RMS Documentation Resources

The following are the major documentation resources for the product.

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](#).

License Generation 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](#).

Support Contacts

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/sentinel-drivers>), 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

> For Issues Related to Using the Portal:

- 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>