

Sentinel RMS SDK 10.1

RELEASE NOTES FOR MAC (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.

About This Document

This document contains details about the new features, enhancements, and installation of 10.1 Sentinel RMS. The last major release was Sentinel RMS v10.0.

What's New in this Release

This section lists the changes included in the Sentinel RMS 10.1 release.

Sentinel RMS Lease-Related Improvements

- > Lease renewal frequency and entitlement update detection controls are now decoupled allowing need-based and autonomous functioning of each mechanism.
- > A new set of options is available in [Sentinel EMS Administration Console](#) to detect various types of entitlement updates automatically. These options give you more control over when updates are triggered and detected by the Sentinel EMS back end and Sentinel Cloud Plug-in (SCP) clients.
- > The default lease renewal settings now enable you to control the number of activations more effectively. For more details, refer to the [SCL Add-on Installation and Configuration Guide](#).

Sentinel RMS Cloud Licensing for SaaS Applications

Sentinel RMS cloud licensing can now be integrated more effectively with your SaaS applications in trusted environments. You can now use OAuth 2.0 Client Credentials to authorize RMS Cloud License Manager REST API.

Swagger Support for RMS Cloud License Manager REST API

The RMS Cloud License Manager REST API is now integrated in the Sentinel EMS API Reference. This allows you to better experience, test, and implement licensing calls for the Connected (Cloud LM) deployment mode.

These APIs are included for SaaS applications only.

Issues Fixed in this Release

The following issues have been corrected in this release:

Tracking ID (Service Request / Internal ID)	Issue Description
SM-120822 / SM-124075	GetInfo API showed unexpected behavior after manual sync and lservrc growing with duplicate entries.
SM-132956 / SM-134720	VLSgetClientInfo end time did not change when commuter extended.
SM-132465 / SM-132539	VLScleanExpiredCommuterCode caused heap corruption in 32-bit processes.
SM-130747 / SM-132508	Leased licenses file added the same license with different death time every time on sync lease.
SM-126099	Redundant license was not synced to the follower License Managers when added to the leader using the VLSaddFeature API.
SM-124690 / SM-125083	Error for network lease isolated License Manager.
SM-123982 / SM-124075 and SM-132638	SCP-integrated libraries did not remove previous lease activations in lservrc.
SM-119937	Client information duplicated for a commuted token.
SM-118640 / SM-119166	Client information disappeared from the license node.
SM-118285 / SM-109228	Aggregated license usable beyond the end date at server.
SM-117330 / SM-117638	Address CVEs found in third-party libraries used by Sentinel RMS.
SM-114813 / SM-124059	The license server crashed in a redundant license server-configured environment.

System Requirements

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

Intel-based System

Hardware Requirements	Software Requirements
Processor: Intel x86	Operating Systems: > macOS 10.14 Mojave
Processor: Intel x86_64	Operating Systems: > macOS 10.15 Catalina > macOS 11.2 Big Sur > macOS 12.2 Monterey > macOS 13.0 Ventura
Hard Disk Space: As per the operating systems' specification.	Compilers: Apple LLVM version 7.0.2 (clang-700.1.81)
RAM Requirement: As per the operating systems' specification.	Java Development Kit (JDK): > Java SE 8 (minimum supported version)

Apple Silicon-based System

Hardware Requirements	Software Requirements
Processor: ARM64	Operating Systems: > macOS 11.2 Big Sur > macOS 12.2 Monterey > macOS 13.0 Ventura
Hard Disk Space: As per the operating systems' specification.	Compilers: Apple clang version 12.0.0 (clang-1200.0.32.29)
RAM Requirement: As per the operating systems' specification.	Java Development Kit (JDK): > Java SE 17 (minimum supported version)

NOTE The macOS 64-bit binaries are now universal binaries and support both ARM 64 and Intel 64 applications.

Installation Information

This section contains important information related to the installation of Sentinel RMS 10.1.

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 .zip archive that contains notarized binaries. Extract files from the archive as follows:

```
$unzip -a RMSSDKxx.x.xxx.xxxxMac.zip
```

2. Navigate to 'slm_xx.x.x_mac_combo_cdrom' directory, then 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 RMS SDKs in the same directory.

5. You will be required to specify the RMS SDK serial number. This serial number is contained in the Sentinel RMS Order Credentials email and is unique for each vendor.
6. You will be required to choose whether you want to allow the License Manager to start automatically on system reboot. If you allow this configuration, you will be required to reboot. However, if you do not allow this configuration, you will need to manually start the License Manager (from the `/redistributable/licenseManager` directory) each time you reboot the system.

The Sentinel RMS SDK provides notarized binaries, however, for the following components re-notarization is required.

- > [Shared Libraries for Mac](#)
- > [Utilities for Mac](#)

For more information about Sentinel RMS Support for Mac Notarization, refer to the [Sentinel RMS Developer Guide](#).

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 installer.
samples	Contains sample programs for demonstrating the use of various RMS features and APIs.
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. 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](#).