

Sentinel RMS SDK v10.2

RELEASE NOTES FOR MAC (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 v10.2 Sentinel RMS. The last major release was Sentinel RMS v10.1.

What's New in this Release

This section lists the changes included in the Sentinel RMS v10.2 release.

Introduced Named User Licensing for Cloud Applications

Named user licensing is introduced for the Connected (Cloud LM) deployment mode. Your customer can manage the users authorized to consume a license. You need to implement user authorization using the following REST APIs:

| REST API | Description |
|---|--|
| PUT /rmslm/features/{featureId}/licensedUserAccounts | Configures the user accounts list or replaces it. |
| PATCH /rmslm/features/{featureId}/licensedUserAccounts | Appends the new user accounts list to the existing list. |
| GET /rmslm/features/{featureId}/licensedUserAccounts | Obtains the existing user accounts list. |
| DELETE /rmslm/features/{featureId}/licensedUserAccounts | Deletes a particular user account from the user accounts list. |

With the introduction of this feature, the Sentinel RMS license version is upgraded to v23. Refer to [Sentinel RMS API Reference Guide](#) for more information.

Introduced Rate Limit for Connected (Cloud LM) Licensing

Rate limiting is a technique to limit network traffic to prevent users from exhausting system resources on RMS CloudLM. If a licensed application sends API calls beyond the configured limit, RMS Cloud LM returns the following:

- > HTTP status code 429 (TOO MANY REQUESTS) - For applications using the Cloud LM REST API
- > Error 210267 (SNTL_RATE_LIMIT_BREACHED) - For applications using SCP-integrated library (SCL Add-on version 10.2 and later)

You can retry calling the API as per the retry-after time advised in the HTTP response header (under [RMS Cloud License Manager REST API—Basic Concepts](#)) or the [lastStatusInfo](#) API.

Changes in Username and Hostname Specifications in RMS Cloud LM

The username and hostname in Cloud LM REST APIs can now include 320 UTF-8 characters.

Enhancements Included in This Release

Updated C Samples

The Unified API C samples are modified to share status description along with the status code. Prior to this release, the samples showed only the status code.

Lease Sample Updated to Remove Force Sync

The sample for the lease deployment mode (`sntl_lease_demo`) is updated to remove the force sync operation. Force sync is meant for use only when explicit synchronization of lease is required. For more details about the API calls required for the lease deployment mode, refer to the "Configuring Lease Mode" section under the Common Use Cases (for [C](#), [Java](#), and [.NET](#)).

SCP Performance Enhancements

SCP module has been enhanced for better handling of uploading of large number of usage files.

Usage Creation Allowed to All Users

The usage data for lease and on-premises deployment modes can now also be created for non-root, non-group (other) users. Before this release, this creation was limited to root and group users only. If desired, you can customize this new default setting and restrict usage creation permissions. For more information, contact Technical Support.

Issues Fixed in this Release

The following issues have been corrected in this release:

| Service Request | Issue Description |
|-----------------|---|
| SM-156653 | Fix the documentation in .NET/Java interface. |
| SM-155381 | Reserved network licenses consumed a double number of seats. |
| SM-154599 | The in-use count does not get incremented after an aggregate license switch. |
| SM-154487 | License file permission changing while deleting the licenses from file (Iservrc). |
| SM-152319 | Incorrect in-use value for network license on WlmAdmin. |
| SM-151041 | Incorrect count of available unreserved tokens in Ismon. |
| SM-146930 | Documentation updated caused by the "Error in parsing usage record" error. |
| SM-143714 | Developer Guide needed to be updated for the Issrv32/64 library. |
| SM-143586 | Equivalent functionality required in Unified API for VLSdisableLocalRenewal. |
| SM-143187 | Cancel lease hanged when grace licensing and standalone licensing are used together. |
| SM-142959 | Group reservation documentation updated for user name. |
| SM-142832 | Sentinel Cloud Plug-in should switch to NO_PROXY mode when the AUTO_PROXY (PAC_SCRIPT) mode failed. |
| SM-129049 | Error when running several processes in parallel. |
| SM-112946 | RMS License Manager stopped responding when the usage files list was very long. |

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_64 | Operating Systems: <ul style="list-style-type: none">> 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): <ul style="list-style-type: none">> Java SE 8 (minimum supported version) |

Apple Silicon-based System

| Hardware Requirements | Software Requirements |
|---|--|
| Processor: ARM64 | Operating Systems: <ul style="list-style-type: none">> 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): <ul style="list-style-type: none">> 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 10.2.

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

```
$unzip -a RMSSDKxx.x.x.xxMac.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](#).