

# Sentinel RMS SDK v10.2

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

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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 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

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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

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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.

## Documented Docker Support Details

Docker support details for the Sentinel RMS-licensed applications are added in the documentation. Refer to [Sentinel RMS Licensing in Docker Containers](#) for support specifications and limitations.

## 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.

## Issues Fixed in this Release

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The following issues have been corrected in this release.

Service Request	Issue Description
SM-158726	libcmt.lib conflicts are observed. Sentinel RMS libraries not working with debug configuration.
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 (lserverc).
SM-152319	Incorrect in-use value for network license on WlmAdmin.
SM-151993	The RMS License Manager service does not respond when a customized vendor-isolated License Manager built with the default License Manager library is replaced.
SM-151041	Incorrect count of available unreserved tokens in lsmon.
SM-146930	Documentation updated caused by the "Error in parsing usage record" error.
SM-143714	Developer Guide needed to be updated for the lssrv32/64 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-112946	RMS License Manager stopped responding when the usage files list was very long.

# System Requirements

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The following table provides the minimum hardware and software requirements for 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 processor for 64-bit</li></ul>	<p><b>Operating System (32-bit and 64-bit)</b></p> <ul style="list-style-type: none"><li>&gt; Windows 10 22H2</li><li>&gt; Windows 11 22H2</li><li>&gt; Windows Server 2016</li><li>&gt; Windows Server 2019</li><li>&gt; Windows Server 2022</li></ul> <p><b>Display Settings</b></p> <p>Preferred display settings are:</p> <ul style="list-style-type: none"><li>&gt; Screen resolution is 1920 x 1080</li><li>&gt; Display scaling 100% and 125%</li></ul>
<p><b>Hard Disk (Minimum)</b></p> <p>As per the operating systems' specification.</p>	<p><b>Microsoft Visual Studio Version</b></p> <ul style="list-style-type: none"><li>&gt; Visual Studio 2012 Professional edition v11.0.60610.01 update 3 (32-bit and 64-bit)</li><li>&gt; Visual Studio 2013 Professional edition</li><li>&gt; Visual Studio 2015 Professional edition v14.0.25431.01 update 3</li><li>&gt; Visual Studio 2017 Professional edition</li><li>&gt; Visual Studio 2019 Professional edition</li><li>&gt; Visual Studio 2022 Professional edition</li></ul>

Hardware Requirements	Software Requirements
<p><b>RAM Requirement</b> As per the operating systems' specification.</p>	<p><b>Java Development Kit (JDK)</b> Java SE 8 (minimum supported version)</p> <p><b>.NET</b></p> <ul style="list-style-type: none"> <li>&gt; .NET Framework 4.7.2</li> <li>&gt; .NET Core 5.0, 6.0, 7.0, and 8.0.</li> </ul> <p><b>Web Browser (for viewing HTML Help)</b></p> <ul style="list-style-type: none"> <li>&gt; Mozilla Firefox</li> <li>&gt; Google Chrome</li> <li>&gt; Microsoft Edge</li> <li>&gt;</li> </ul> <p><b>PDF File Viewer (for viewing PDF documents)</b> Adobe Acrobat</p>

# Upgrade and Compatibility Information

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This section provides the upgrade information related to Sentinel RMS SDK and SCL Add-on for RMS.

## Sentinel RMS SDK

### For Major Release:

By default, the latest SDK co-exists with the previously installed SDKs, if any. For example, version 10.1 will be installed in a separate directory alongside already installed v10.0 and v9.8.

### For Service Pack:

The latest service pack *replaces* its major version or any service pack (over the same major version). For example, v10.1.200 will replace both v10.1.100 and 10.1 upon installation.

## License Manager

- > The latest License Manager program overwrites the earlier version of License Manager. As a result, at a time only a single version of License Manager can exist on a system.
- > For Windows, the License Manager program runs as a system service.
- > For non-Windows, the License Manager runs as a process.

## Sentinel Cloud Plug-in (SCP)

SCP is available in two variants—as a licensing library (called the 'SCP-integrated library') and as a system service. You must manually uninstall any earlier version installed of the *service* prior to the upgrade.

**See Also:** [About the SCL Add-on Package](#)

## Version Compatibility Requirement Between License Manager and SCP

Make sure that the version of the License Manager and SCP are the same. This is a prerequisite for supporting the Lease mode.



# Installation Information

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This section contains important information related to the installation of Sentinel RMS v10.2.

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. Double-click *StartHere.exe* from the root of the installation media. The Start Here screen appears.
2. Click **Install** under Sentinel RMS Development Kit 10.2 Software. The Welcome screen appears.

**NOTE** If you are installing the RMS SDK using the steps described here, you need not click the **Install** option under Sentinel RMS License Manager Installer. This option is for only installing the Sentinel RMS License Manager, which is automatically installed as a part of the SDK on your system.

3. Click **Next**. A screen showing the license agreement appears.
4. To proceed, accept the license agreement and click **Next**.
5. In the Customer Information dialog box, type your name, organization name, and 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 may modify the SDK installation directory. The default installation directory is:
  - On 32-bit machines - `<OSdrive>:\Program Files\Thales\Sentinel RMS Development Kit\<version>\`
  - On 64-bit machines - `<OSdrive>:\Program Files (x86)\Thales\Sentinel RMS Development Kit\<version>\`
7. Select the **Complete** or **Custom** installation option.

**NOTE** The Custom installation option for the RMS SDK cannot be used on non-English operating systems.

8. You are prompted for modifying the system firewall settings. Choose between the following options:
  - Select the check box to allow communication with the License Manager. This setting adds the License Manager to your system firewall's exceptions list.
  - Clear the check box to block communication with the License Manager (not recommended).
9. Follow the on-screen instructions to finish the installation.

## Installed Directories

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The following directories and files are installed.

Directory	Description
<b>Development</b>	Contains all the RMS libraries, header files, XSDs and source code for licensing and customization.
<b>Manuals</b>	Contains the various documentation items for Sentinel RMS.
<b>Redistributable</b>	Contains the utilities and files for your customers, including the Sentinel RMS License Manager installer.
<b>Samples</b>	Contains the sample programs for demonstrating the use of various RMS features and API.
<b>VendorTools</b>	Contains the utilities and files for your use. <div style="border-left: 2px solid #00AEEF; padding-left: 10px; margin-top: 10px;"><b>NOTE</b> The license generator is no longer included with the SDK. The order email contains a link that enables you to download the license generator.</div>
<b>install.rbo</b>	Contains information about Sentinel RMS SDK version and serial number.
<b>ReleaseNotes</b>	This file.
<b>Legacy</b>	Contains deprecated RMS libraries, samples, and utilities.

# 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 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](#).