Sentinel RMS SDK v10.1
RELEASE NOTES FOR WINDOWS (64-BIT)

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Contents

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 v10.1 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 v10.1 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.

New-look WlmAdmin—Included with the Sentinel RMS SDK

The new-look WlmAdmin, introduced in v10.0.200, is now included with the Sentinel RMS SDK.

WlmAdmin is a redistributable that is typically deployed on a system administrator's machine in a subnet. It is used for administering the on-premises RMS License Managers and managing licensed features, licenses, and clients.

The new-look, modernized WlmAdmin offers a better user interface and experience to administer the License Managers' activities. This version of WlmAdmin also integrates the Wechoid utility, hence providing a convenient option to generate the machine's locking information.

For more details about WlmAdmin, refer to the Sentinel RMS System Administrator Guide.

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-125870 / SM-130566	Could not sync lease due to error 210133.
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 Sentinel RMS.

Hardware Requirements	Software Requirements
Processors > x86 processors for 32-bit > x86-64 processor for 64-bit	**Operating System (32-bit and 64-bit)** > Windows 8.1 > Windows 10 22H2 > Windows 11 22H2 > Windows Server 2012 > Windows Server 2012 R2 > Windows Server 2016 > Windows Server 2019 > Windows Server 2022 **Display Settings** Preferred display settings are: > Screen resolution is 1920 x 1080 > Display scaling 100 / 125%
Hard Disk (Minimum) As per the operating systems' specification.	**Microsoft Visual Studio Version** > Visual Studio 2012 Professional edition v11.0.60610.01 update 3 (32-bit and 64-bit) > Visual Studio 2013 Professional edition > Visual Studio 2015 Professional edition v14.0.25431.01 update 3 > Visual Studio 2017 Professional edition > Visual Studio 2019 Professional edition > Visual Studio 2022 Professional edition

Hardware Requirements	Software Requirements
RAM Requirement As per the operating systems' specification.	**Java Development Kit (JDK)** Java SE 8 (minimum supported version) **.NET** > .NET Framework 4.7.2 > .NET Core 5.0, 6.0 and 7.0 **Web Browser (for viewing HTML Help)** > Microsoft Internet Explorer 11 and newer > Mozilla Firefox > Google Chrome > Microsoft Edge **PDF File Viewer (for viewing PDF documents)** Adobe Acrobat

Installation Information

This section contains important information related to the installation of Sentinel RMS v10.1.

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. Double-click *StartHere.exe* from the root of the installation media. The Start Here screen appears.

2. Click **Install** under Sentinel RMS Development Kit 10.1 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

The following directories and files are installed.

Directory	Description
Development	Contains all the RMS libraries, header files, XSDs and source code for licensing and customization.
Manuals	Contains the various documentation items for Sentinel RMS.
Redistributable	Contains the utilities and files for your customers, including the Sentinel RMS License Manager installer.
Samples	Contains the sample programs for demonstrating the use of various RMS features and API.
VendorTools	Contains the utilities and files for your use. **NOTE** The license generator is no longer included with the SDK. The order email contains a link that enables you to download the license generator.
install.rbo	Contains information about Sentinel RMS SDK version and serial number.
ReleaseNotes	This file.
Legacy	Contains deprecated RMS libraries, samples, and utilities.

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.