

Sentinel RMS SDK v9.8.1

RELEASE NOTES FOR WINDOWS (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.

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-premises 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 v9.8.1 Sentinel RMS. The last major release was Sentinel RMS v9.8.0.

What's New in this Release

This section lists down the new features included in Sentinel RMS v9.8.1 release.

Using RSA Algorithm for RMS License Manager Communication

The industry-standard RSA algorithm is now being used for securing the RMS License Manager communication with the various components including the licensed application. Prior to this release, proprietary encryption algorithm was used for securing the RMS License Manager communication. This impacts the exchange of communication messages:

- > Between client application and RMS License Manager
- > Between RMS License Managers in the redundant pool
- > Between SCP service and RMS License Manager

For more information, refer to "RMS License Manager Communication" section in [Sentinel RMS Developer Guide](#).

See Also: [Modified License Loading Behavior on RMS License Manager Restart](#)

Introduced a Library to Maintain Support of Proprietary Encryption Algorithm

If under certain scenarios, you still want to use proprietary encryption algorithm, you need to deploy a separate compatibility-mode library with the v9.8.1 (or later) licensing libraries. To obtain this library, you need to contact [Technical Support](#).

For more information about this library, refer to "RMS License Manager Communication" section in [Sentinel RMS Developer Guide](#).

Updates in the RMS License Manager Configuration Options

In this release, a new command-line option **-enable-localhost-check** is added. This option applies restrictions to perform the following operations on the RMS License Manager from other machines in a network:

- > Addition/installation of licenses
- > Deletion/uninstallation of licenses
- > Shutting down of RMS License Manager

For more information, refer to [Sentinel RMS System Administrator Guide](#).

Modified License Loading Behavior on RMS License Manager Restart

With the new encryption algorithm in place, now when the v9.8.1 (or later) RMS License Manager is restarted, additional tasks related to key-exchange are performed by the running licensed application. During this interval, the licensed application attempting to contact the License Manager (such as for automatic renewal calls via auto-timer), may return with error 210133 (SNTL_RESOURCE_LOCK_FAILURE). To overcome this, try calling the licensing API again after few seconds.

Issues Fixed in this Release

The following issues have been corrected in this release.

Internal Tracking ID	Description
SM-102587	Fixed the License sync issue in SCP service when multiple vendor's SCP service is present on same machine.
SM-108064	Documentation update for LSUSGHOSTNAME environment variable.

System Requirements

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

Hardware Requirements	Software Requirements
<p>Processors</p> <ul style="list-style-type: none">> x86 processors for 32-bit> x86-64 processor for 64-bit	<p>Operating System (32-bit and 64-bit)</p> <ul style="list-style-type: none">> Windows 8.1> Windows 10 20H2> Windows Server 2010> Windows Server 2010 R2> Windows Server 2012> Windows Server 2012 R2> Windows Server 2016> Windows Server 2019
<p>Hard Disk (Minimum)</p> <p>Approximately 1 GB free hard disk space is required to install Sentinel RMS.</p>	<p>Microsoft Visual Studio Version</p> <ul style="list-style-type: none">> 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

Hardware Requirements		Software Requirements
RAM (Minimum)	RAM (Minimum)	Java Development Kit (JDK) Java SE 8 (minimum supported version) Web Browser (for viewing HTML Help) > Microsoft Internet Explorer > Mozilla Firefox > Google Chrome PDF File Viewer (for viewing PDF documents) Adobe Acrobat
Operating System (32-bit)	Operating System (64-bit)	
Windows 8.1(1 GB)	Windows 8.1(2 GB)	
Windows 10 20H2(1 GB)	Windows 10 20H2(2 GB)	
Windows Server 2010 (2 GB)	Windows Server 2010 (2 GB)	
	Windows Server 2010R2(2 GB)	
	Windows Server 2012 (2 GB)	
	Windows Server 2012 R2(2 GB)	
	Windows Server 2016 (2 GB)	
	Windows Server 2019 (2 GB)	

Installation Information

This section contains important information related to the installation of Sentinel RMS v9.8.1.

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 9.8.1 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. <div style="border: 1px solid #00a0e3; padding: 5px; margin-top: 10px;">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.</div>
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 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 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](#).