Sentinel RMS SDK v9.4.0
Release Notes for Windows (32-bit and 64-bit)

Release Version: v9.4.0

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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.

When SCL add-on is combined with the license enforcement features of Sentinel RMS and the entitlement management features of Sentinel EMS, it makes a complete solution that provides the benefits of cloud-connected licensing to applications deployed in the customer's network 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, problems corrected, and installation of the v9.4.0 of the Sentinel RMS SDK. The last major release was Sentinel RMS v9.3.0.

New Features and Enhancements

This section lists the new features and enhancements included in Sentinel RMS SDK v9.4.0 release.

Cancel Active Lease or Resume Lease

In this release, we have introduced two new functionalities, Cancel Lease and Resume Lease respectively. They are discussed in detail in the following sub-sections.

> **Note:** Currently, we have provide these functionalities for cloud-served lease standalone license deployment mode only.

Cancel Lease

Some of the main features are as follows:

- Cancel Lease enables an end user to return the active lease license and free up the license on Sentinel cloud so that it can be provided to other end users.

- After cancelation, the lease will not be renewed even if the enforcement application or machine is restarted.

- The cancel operation acts on the complete machine. After the latest lease is returned, old lease licenses on the machine will stop working.

- Post cancelation, all application installed on the machine will not be able to use the lease license. Further, the lease will be unusable from other apps only after force sync, auto sync, or app-context new.

- The lease thread is suspended and SCP will not connect to cloud for a lease license.

- Cancel lease action suspends the lease sync activity for the complete device.

> **Note:** Cancel lease requires connectivity with cloud back end operations in order to be successfully executed. If the machine develops a hardware failure and cannot connect with the back end, then the ISV's end customers may contact; and on trust basis the ISV may use Complete Revoke (on EMS GUI) or mark Revoke REST WS (on active activations) for the desired customer machine.

> **Note:** For cancel lease, 'Allow Revocation' flag should be set as true while creating the entitlement in EMS.

Enhancement in the sntl_licensing_transfer API

A new action (**<cancelLease></cancelLease>**) has been introduced to support this functionality.

This action does not require any input parameter.

Resume Lease

Some of the main features are as follows:

• Resume Lease is used to undo the effect of the cancel lease operation.

• After canceling a lease license, if a user wants to use the lease license, then they must resume the lease.

• The lease thread will be activated and SCP will connect to cloud to provide a lease license to the user.

> **Note:** When the resume lease is called, it will bring licenses only if the quantity is available.

> **Note:** Standalone persistence must be initialize before performing cancel and resume lease operations.

Enhancement in the sntl_licensing_transfer API

A new action (**<resumeLease></resumeLease>**) has been introduced to support this functionality.

This action does not require any input parameter.

Problems Identified and Corrected in This Release

The following problems have been identified and corrected in this release:

ID	Problem Description
SM-35209	The **sntlInitNetworkSystem** API has been deprecated. It has also been removed from the public header **lsinit.h**.
SM-32904	9.2.1 memory leak/high consumption issue fix
SM-32118	RMS 921 Server memory leak issue
SM-33133	CID key not detected on Windows 10 build number 1803
SM-31189	RMS sntl_licensing_ install Api crashes when input license file contains malicious license strings.
SM-31753	Compilation issue with revocation API SDK v9.2.1
SM-34886	[Doc] Need to correct the support info of Windows 2008 R2 and 2012 R2 in release notes
SM-35577	Memory leak issue with Sentinel RMS license server 8.6.2.1101
SM-30317	VLScgFreeLicenseString API to be added in the public header and it should also be documented
SM-32947	[DOC] RMS9.2	Trigger events for LSERVLOG
SM-36252	Need to update some commuter related information in the developer's guide

System Requirements

The following are the minimum hardware and software requirements for installing the Sentinel RMS SDK:

Hardware Requirements	Software Requirements	
Processors • x86 processors for 32-bit • x86-64 processors for 64-bit	**Operating System (32-bit)** • Windows 7 • Windows 8.1 • Windows 10 • Windows Server 2008	**Operating System (64-bit)** • Windows 7 • Windows 8.1 • Windows 10 • Windows Server 2008 • Windows Server 2008 R2 • Windows Server 2012 • Windows Server 2012 R2 • Windows Server 2016
Hard Disk Space Approximately 1.7 GB free hard disk space is required. Ensure that the "initial size (in MB)" allowed for "pagefile" for each drive remains available after you have installed RMS SDK. Otherwise, the shortage of space may affect your system's performance.	**Compilers** • Microsoft Visual Studio 2008 Professional edition v9.0.30729.1 SP - For 32-bit and 64-bit • Microsoft Visual Studio 2010 Professional edition v10.0.30319.1 RTMRel - For 32-bit and 64-bit • Microsoft Visual Studio 2012 Professional edition v11.0.60610.01 Update 3 - For 32-bit and 64-bit • Microsoft Visual Studio 2013 Professional edition • Microsoft Visual Studio 2015 Professional edition • Microsoft Visual Studio 2017 Professional edition **Note:** RMS libraries compiled with Microsoft Visual Studio 2015 are fully compatible with Visual Studio 2017. In addition, RMS libraries compiled with Microsoft Visual Studio 2012 are fully compatible with Visual Studio 2013. In this release, the RMS SDK does not include a separate library for Visual Studio 2013 and 2017.	
RAM 2 GB RAM on Windows 7, Windows 8, Windows 10 (Desktop mode), Windows 10, Windows Server 2012, 2012 R2 and 2016.	**Java Runtime Environment** Java Runtime Environment v1.6, 1.7 and 1.8 for the Java interface	
	Web Browser (for viewing HTML Help) • Internet Explorer 7.0 or later	

Hardware Requirements	Software Requirements
	• Firefox 3.5 or later • Chrome 1.0 or later
	PDF File Viewer (for viewing PDF documents) Adobe Acrobat 4.0 (or later)

Installation Information

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

Before installing the Sentinel RMS SDK, ensure that you have the following:

- Administrator Privileges: You must have administrator privileges to successfully install all the components.
- Sentinel RMS SDK Serial Number: You require a valid serial number provided by Gemalto. 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 9.4.0 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 Gemalto Sentinel Order Credential e-mail and is unique to each vendor.
6. You may modify the SDK installation directory. The default installation directory is:
    - On 32-bit machines - *<OSdrive>:\Program Files\SafeNet Sentinel\Sentinel RMS Development Kit\<version>*
    - On 64-bit machines - *<OSdrive>:\Program Files (x86)\SafeNet Sentinel\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/files are installed:

Directory	Development
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 e-mail contains a link that enables you to download the license generator.
install.rbo	Contains information about the Sentinel RMS SDK version and serial number.
ReleaseNotes	This file.

Major Documentation Resources

The following are the major documentation resources for the product:

Developer's Guide

Contains the complete product overview, the necessary information for licensing and distributing the applications. Useful for developers planning and implementing licensing. To access, use the following ways:

- PDF version is installed on the system can be accessed using the Doc Access Page (.htm) in the Manuals directory.

- The latest online copy can be accessed here:
  http://sentinelrms.safenet-inc.com/RMSDocumentation/Vendor/Default.htm

API Reference Guide

Contains details about all the API functions, including the licensing library, system initialization, and so on. Useful for developers integrating the API functions in the code. To access, use the following ways:

- PDF version is installed on the system can be accessed using the Doc Access Page (.htm) in the Manuals directory.

- The latest online copy can be accessed here:
  http://sentinelrms.safenet-inc.com/RMSDocumentation/Vendor/Default.htm

The Developer's Guide and API Reference Guide are bundled together as the Vendor's documentation. You can find it as the last item in its ToC (in the left-side pane).

System Administrator's 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.

- The latest online copy can be accessed here:
  http://sentinelrms.safenet-inc.com/RMSDocumentation/SysAdmin/Default.htm

License Generation API Reference Guide

Contains details about the License Generation API functions. To access, use the following ways:

- PDF version is available with the license generator module.

- The latest online copy can be accessed here:
  http://sentinelrms.safenet-inc.com/RMSDocumentation/Licgen/Default.htm

SCL Add on for RMS Documentation

The complete documentation of the SCL Add on for RMS is hosted at: *http://sentinelrms.safenet-inc.com/scl/*

For getting started, begin with the *SCL Add-on for RMS Overview Guide.*

Support Contacts

You can contact us using any of the following options:

Business Contacts

To find the nearest office or distributor, use the following URL:
https://sentinel.gemalto.com/contact-us-sm/

Technical Support

To obtain assistance in using Gemalto Sentinel Products, feel free to contact our Technical Support team:

- Customer Support Portal: (Preferred)

    - https://supportportal.gemalto.com/csm?id=sentinel

- Phone:

    - AMER: 800-545-6608 (US toll free), +1-410-931-7520 (International)

    - EMEA / APAC: https://supportportal.gemalto.com/csm?id=sentinel
      Click "Contact us"

- E-mail (only if having issue submitting the technical issue via portal)
  technical.support@gemalto.com

Downloads

You may want to explore updated installers and other components here:
https://sentinelcustomer.gemalto.com/sentineldownloads/