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

Release Version: v9.4.0

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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.

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. Also 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

To use the Sentinel RMS, the minimum hardware and software requirements are:

Hardware Requirements	Software Requirements
Processors: x86 processors for 32-bit x86-64 processors for 64-bit	The following GCC and Glibc versions are applicable to all the operating systems and compilers mentioned below. • **GCC (32-bit)**: 3.2.2 • **GCC (64-bit)**: 3.3.6 • **Glibc (32-bit and 64-bit)**: 2.3.2 **Operating Systems and Compilers:** • **Red Hat Enterprise Linux (RHEL) 6.x** • **Red Hat Enterprise Linux (RHEL) 7.x** • **SUSE Linux Enterprise Server (SLES)12** • **SUSE Linux Enterprise Server (SLES) 15** • **Debian Linux 8.x** • **Debian Linux 9.x** • **Ubuntu Linux 17.x** • **Ubuntu Linux 18.x** • **openSUSE Leap 15.x** • **openSUSE Leap 42.x** **Note:** For Licgen, the GCC and Glibc versions (applicable for both 32-bit and 64-bit OSes) are 4.4.7 and 2.14 respectively.
Hard Disk Space: 200 MB free hard disk space	**Java Runtime Environment:** Java Runtime Environment v1.6, 1.7 and 1.8 for the Java interface.
RAM: 128 MB RAM	**Web Browser (for viewing HTML Helps):** Firefox 3.5 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. The Software is packed in a .tar archive. Extract files from the archive as follows:

   ```
   tar -xvf RMSSDK9.4.0.0023Linux.tar
   ```

2. Change the directory where the installation script *install.sh* exists (*slm_0940_linux_combo_cdrom* directory). Afterward, 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.

5. You will be required to specify the RMS SDK serial number. This serial number is contained in the Gemalto Sentinel Order Credential e-mail and is unique for each vendor.

> 📝 **Note:** Sentinel RMS is self-contained in the installation directory. To uninstall, remove the directory. Do stop the Sentinel RMS License Manager before uninstalling.

Installing Sentinel UNIX Driver (SUD)

Sentinel UNIX Driver (SUD) needs to be installed for making use of the hardware keys (for CID based locking and license generation). To install SUD on your system:

> 📝 **Note:** The RMS License Manager included with this release supports version 7.5.6 of the Sentinel UNIX Driver.

1. Extract the SUD installer from its compressed tar image placed at <installdir>/redistributable/licenseManager/SUDInstaller tar.gz location on the DVD by giving the following command:

   ```
   tar -xvzf SUDInstaller.tar.gz
   ```

2. Change directory to SUDInstaller.

3. To install SUD USB driver on RPM based operating systems:

   – Change directory to usb.

   – Run command rpm -i --force sntl-sud-7.5.6-0.i386.rpm to install the driver.

4. To install SUD USB driver on Debian based operating systems :

   – Change directory to usb.

   – Run command dpkg -i --force-architecture sntl-sud_7.5.6-0_i386.deb to install the driver.

Installed Directories

The following directories/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.
samples	Examples that illustrate the various features of Sentinel RMS**.**The include files, which provide the prototypes for various Sentinel RMS library functions.
vendorTools	Contains the utilities and files for your use. **Note:** The license generator is no longer included with the SDK. A download link is provided to you using e-mail. If not, contact Technical Support for obtaining it.
redistributable	The utilities and files for your customers, including the Sentinel RMS License Manager installer.
ReleaseNotes.pdf	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/