Sentinel RMS SDK v9.0.0

Solaris x86 (32 and 64-bit) Release Notes



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Sentinel RMS v9.0.0 for Solaris x86 (32 and 64-bit) - Release Notes

About This Document

This document contains details about the new features and installation of the Sentinel RMS v9.0.0 for Solaris x86. This release includes feature changes and problem fixes since the last major release v8.6.1.

Product Overview

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.

What's New in This Release?

This section provides details about the new features introduced in this release.

Introduced Sentinel Cloud Licensing - Add-on for Sentinel RMS

Sentinel RMS is enhanced to support the Sentinel Cloud Licensing (SCL) Add-on.

SCL enables you to reap benefits of cloud-connected licensing—where software licensing is managed from cloud to serve both on-premise or cloud-based deployments.

SCL combines the security and license enforcement features of Sentinel RMS, the licensing operations management features of Sentinel EMS, and the cloud platform, to deliver a simple and smooth customer experience.

Obtaining SCL- Add-on

SCL Add-on is an optional package for integrating the cloud connected licensing into your onpremise applications.

To obtain SCL add-on, contact Technical Support.

Begin with the "SCL Add-on for RMS - Overview Guide" to learn more about the solution

RMS License Manager Compatibility to Support SCL

In this release, the cross platform clients (including Solaris client) can obtain the benefits of cloud connected licensing in network mode, using the License Manager running on Windows and Linux. You can obtain the latest Windows\Linux-based License Managers from their respective SDKs.

However, the RMS Solaris library does not support cloud connected licensing in the stand-alone mode.

Introduced Unified API Set

In this release, a new set of license enforcement API is introduced. These API provide a programmatically superior and scalable alternative to the existing license enforcement API. These API are useful for developers—either designing a new RMS-based licensing implementation or planning to upgrade an existing.

In the future releases, the Unified API set will eventually replace the existing set of RMS license enforcement API.

For more information, see the following documentation sections:

- The section "Which Licensing API to Use?" of the chapter "Planning Application Licensing" in the Sentinel RMS SDK Developer's Guide.
- The chapter "Unified API" of the Sentinel RMS SDK API Reference Guide.

Introduced Java Interface for Unified API

In addition to the native C library, a new Java interface for the Unified API is also included in this release. You can find the interface at the following path:

- *<installdir>/development/java* Contains the Java interface source.
- *<installdir>/samples/java* Contains the Java interface sample.

Support for License Start Time and End Time

Starting v9.0.0, you can use licenses that include the start time and end time values (in hours and minutes). Prior to this release, only date values were specified as time attributes.

To support this enhancement, the time value is now based on the "Coordinated Universal Time (UTC)" time standard.

The following new members are also added in the LicenseInfo and FeatureInfo structures:

- int birth_minutes
- int birth_hours
- int death_minutes
- int death_hours

License Version Upgraded to v16

Starting v9.0.0, the license version has been upgraded to v16, due to the following changes in the License Generation module:

- Many new members are introduced in the license structure to support SCL Add on for Sentinel RMS.
- Addition of start time and end time values (see "Support for License Start Time and End Time" on page 9).

Modified Directory Structure of the Sentinel RMS SDK

In this release, directory structure of the Sentinel RMS SDK has been modified for intuitive naming and consistent look-n-feel across all the supported platforms. You can find the new directory names and their contents in the section: Installed Directories.

Query for Remaining Period and Expiration Date of Grace License

Starting v9.0.0, you can obtain the remaining grace period (in seconds) and expiration date of a grace license by calling the VLSgetFeatureInfo API function. The following new members are also added in the VLSFeatureInfo structure:

- grace_period_remaining
- grace_period_expiry_date

Deprecated LRT-based Method of License Revocation

The LRT (License Revocation Ticket) based method introduced in v8.0.0 is deprecated in this release. The following related changes are done in the SDK:

- The API functions VLSrevokeLicense and VLScgDecodeLicenseRevocationTicket are removed from the various header files (*lserv.h* and *lscgen.h*).
- Removed the **-Irt** and **secret** options from the lsdecode utility.
- Updated documentation for the above-mentioned changes

Components Removed From the SDK

In this release, the following components are removed from the SDK. To obtain any of the component listed below, please contact Technical Support:

Native Java Client

The native Java client module has been removed from the SDK.

Demo Directory

The Demo directory (previous location was *<installdir>/examples/demo*) has been removed from the SDK.

Installation Information

This section contains following information about installation of the product:

- "Before You Install..." on page 12
- "System Requirements" on page 13
- "Installation Instructions" on page 14
- "Installed Directories" on page 15

Before You Install...

Before you begin installing the RMS SDK, note the following:

Administrator Privileges

You must have the Administrator privileges to successfully install all the components.

RMS SDK Serial Number

You require a valid serial number provided by Gemalto. The installer prompts you to enter the serial number specific to you.

System Requirements

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

Hardware Requirements	Software Requirements
Processors:	Operating Systems:
x86 processors for 32-bit	For 32-bit applications: Solaris x86 5.10, 5.11
x86-64 processors for 64-bit	For 64-bit applications: Solaris x86-64 5.10, 5.11
Monitor and Settings: VGA monitor with 800 x 600 resolution	Compilers:
	GCC Compiler v4.5.2 (32-bit)
(1024 x 768 recommended)	GCC Compiler v4.5.2 (64-bit)
	Libc v 1.1 (32-bit, 64-bit)
Hard Disk Space: 100 MB free hard disk space	Java Runtime Environment: Java Runtime Environment v1.6 (and above) for the Java interface
RAM:	
128 MB RAM	

Installation Instructions

1. The Software is packed in a .tar archive. Extract files from the archive as follows:

tar -xvf RMSSDK9.0.0.0099Sol.tar

- 2. Change the directory where the installation script *install.sh* exists. Afterward, type sh install.sh to start the installation.
- 3. Accept the license agreement to proceed with the installation.
- 4. You will be required to specify the RMS SDK serial number-included with the product packaging to complete the installation.
- 5. You will be required to choose whether you want to allow the License Manager to start automatically on system reboot. If you allow this configuration, you will be required to reboot. However, if you do not allow this configuration, you will need to manually start the License Manager (from the */redistributable/licenseManager* directory) each time you reboot the system.

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 interfaces.
manuals	Documentation for the Sentinel RMS SDK.
samples	Samples 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.
redistributable	The utilities and files for your customers, including the Sentinel RMS License Manager installer.
ReleaseNotes.pdf	This file.

Documentation Resources

This section provides details about the additional 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 and HTML versions 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, license code generator, system initialization, and so on. Useful for developers integrating the API functions in the code. To access, use the following ways:

- PDF and HTML versions 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

Technical Support

Contact Method	Contact
Address	Gemalto NV 4690 Millennium Drive Belcamp, Maryland 21017
Phone	Global - +1 410-931-7520
	Australia - 1800.020.183
	China - (86) 10 8851 9191
	France - 0825 341000
	Germany - 01803 7246269
	India - 000.800.100.4290
	Netherlands - 0800.022.2996
	New Zealand - 0800.440.359
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	United Kingdom - 0800.056.3158
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