Sentinel RMS SDK v9.0.0 for Windows (32 and 64-bit)

Release Notes



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Contents

entinel RMS v9.0.0 for Windows (32 and 64-bit) - Release Notes	6
About This Document	6
Product Overview	6
What's New in This Release?	7
Introduced Sentinel Cloud Licensing – Add-on for Sentinel RMS	
Introduced Unified API Set	
Introduced Java Interface for Unified API	
Support for License Start Time and End Time	
License Version Upgraded to v16	
Modified Directory Structure of the Sentinel RMS SDK	
Support for Windows 10 (Desktop mode)	
Deprecated LRT-based Method of License Revocation	
Components Removed From the SDK	10
nstallation Information	11
Before You Install	12
System Requirements	13
Installation Instructions	14
Installed Directories	15
Major Documentation Resources	16
Developer's Guide	16
API Reference Guide	16
System Administrator's Guide	16
Technical Support	

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

About This Document

This document contains details about the new features and installation of the product.

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) solution.

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.

The Sentinel Cloud Licensing – Add-on for Sentinel RMS solution is not a part of the Sentinel RMS SDK release. To request for a trial Sentinel Cloud Licensing platform, contact Technical Support.

For more information about SCL, refer to the SCL Add-on for RMS - Overview Guide.

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:

In Windows

- *<installdir>\Samples\Java -* Contains the Java interface sample.

In UNIX

- *<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, you can generate 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 following changes are made:

- The time value is based on the "Coordinated Universal Time (UTC)" time standard.
- The 'start time' and 'end time' fields are introduced in the license generator utilities (WlscGen and lscgen).
- The following new API functions are introduced in the license generator library. You can find API details in the Sentinel RMS SDK API Reference Guide:
 - VLScgAllowLicBirthTime
 - VLScgSetLicBirthMinutes
 - VLScgSetLicBirthHours
 - VLScgAllowLicExpirationTime
 - VLScgSetLicExpirationMinutes
 - VLScgSetLicExpirationHours

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

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

License Version Upgraded to v16

Due to the following changes in the License Generation module, the license version has been upgraded to v16:

- 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 their and contents in the section: Installed Directories.

Support for Windows 10 (Desktop mode)

Support for the 32 and 64-bit versions of Windows 10 (Desktop mode) operating system is added in this release.

See Also: "System Requirements" on page 13

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 (*Iserv.h*, *Iscgen.h*, *Iscgen_sdk.h*, and *Isdecode.h*).
- Removed the "Generate Revocation Password" and "Revoke License" menu options in WlmAdmin.
- Removed the *sntlpasswdgenutil.dll* from RMS SDK Windows installation.
- 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>\English\Demo*) has been removed from the SDK.

Report MDB

The *ReportDB.mdb* file, provided to support graphical reports of License Manager, has been removed from this release.

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 Administrator privileges to successfully install all the components.

RMS SDK Serial Number

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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 x86-64 processors for 64-bit 	 32-bit version of Windows 7, 7.1, 8 (Desktop mode), 8.1, 10, Windows Server 2008, 2012 and 2012 R2 64-bit version of Windows 7, 7.1,8(Desktop mode), 8.1, 10, Windows Server 2008, 2012 and 2012 R2. 	
Monitor and Settings: VGA monitor with 800 x 600 resolution (1024 x 768 recommended)	 Compilers: Microsoft Visual Studio 2008 Professional edition v9.0.30729.1 SP - For 32 and 64-bit Microsoft Visual Studio 2010 Professional edition v10.0.30319.1 RTMRel - For 32 and 64-bit Microsoft Visual Studio 2012 Professional edition v11.0.60610.01 Update 3 - For 32 and 64-bit 	
Hard Disk Space: Approximately 1.3 GB free hard disk space	Java Runtime Environment: Java Runtime Environment v1.6, 1.7 and 1.8 for the	
Make sure that the "initial size (in MB)" allowed for "pagefile" per drive remains available after you have installed RMS. Else, the space crunch may affect your system's performance.	Java interface	
RAM:	Web Browser (for viewing HTML Helps):	
 2 GB RAM on Windows 7, Windows 8, Windows 10 (Desktop mode) for 64-bit, Windows 2012, and Windows 10 1 GB RAM on all other operating systematical sy	 Internet Explorer 7.0 or later Firefox 3.5 or later Chrome 1.0 or later 	
tems		
	PDF File Viewer (for viewing PDF documents): Adobe Acrobat 4.0 (or later)	

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 9.0 Software. The Welcome screen appears.

If you are installing the RMS SDK using the steps mentioned 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 SDK serial number. This serial number is contained in the Sentinel RMS SDK product packaging and is unique for each developer. Entering this number customizes your SDK.
- 6. You may modify the SDK installation directory. The default installation directory is:
 - On 32-bit <OSdrive>:\Program Files\SafeNet Sentinel\Sentinel RMS Development Kit\<version>\
 - On 64-bit <OSdrive>:\Program Files (x86)\SafeNet Sentinel\Sentinel RMS Development Kit\<version>\
- 7. Choose the installation as **Complete** or **Custom**.

The Custom installation option for the RMS SDK cannot be used on non-English operating systems. However, installation on the default path can be done successfully.

- 9. You are prompted for modifying the system firewall settings. Keep the check box selected to allow communication with the License Manager. This setting adds the License Manager in your system firewall's exceptions list. Clearing the check box blocks the communication with the License Manager (not recommended).
- 10. Follow the on-screen instructions to finish the installation.
- 11. When the installation is complete, the StartHere screen may reappear prompting you to license applications right away. However, use this option only if you want to license your executables and DLLs using the RMS CodeCover, a wizard-based automatic protection method.

Installed Directories

The following directories are installed:

Directory	Description
Development	Contains all the RMS libraries, header files, and source code for licensing and customization purpose.
Manuals	Documentation for the Sentinel RMS SDK
Redistributable	The utilities and files for your customers, including the Sentinel RMS License Manager installer.
RMS-CodeCover	The files for the automatic CodeCover protection.
Samples	The sample programs for demonstrating the use of various RMS features and API.
VendorTools	Contains the utilities and files for your use.
	The license generator is no longer included with the SDK. A down- load link is provided to you using e-mail. If not, contact Technical Support for obtaining it.
ReleaseNotes	This file.

Major Documentation Resources

This section provides details about 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 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

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	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
	Portugal - 800.1302.029
	Singapore - 800.863.499
	Spain - 900.938.717
	Sweden - 020.791.028
	Switzerland - 0800.564.849
	United Kingdom - 0800.056.3158
	United States - (800) 545-6608
Web	www.safenet-inc.com
Support and Downloads	www.safenet-inc.com/support
	Provides access to the Gemalto Knowledge Base and quick downloads for various products.
Technical Support Customer	https://serviceportal.safenet-inc.com
Portal	Existing customers with a Technical Support Customer Portal account can log in to manage incidents, get the latest software upgrades, and access the Gemalto Knowledge Base.