Sentinel® RMS

SafeNet®

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About This Document

This document provides information about the new features, problems corrected, known problems, and installation of the Sentinel® RMS SDK version 8.5.1 on Windows 32-bit and 64-bit.

About Sentinel RMS

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 information about the new features and enhancements introduced in this release.

Anonymous User Information in Usage Logs

The system administrators on the customers' site can now hide the real usernames and host names saved in the License Manager usage logs. Using any of the following ways, anonymous information (which are SHA-256 based unique hashes) will be used instead of the real information:

Using the New Environment Variable

In this release, a new environment variable LS_LOG_ANONYMITY is introduced. The system administrators can set this on the License Manager host system to allow creation of anonymous logs.

Using the New License Manager Start-up Option

Alternatively, the `-log-anonymity` option can be used.

Refer to the *Sentinel RMS System Administrator's Guide* for details on how to configure the License Manager start up options and set environment variables.

Note: To map the anonymous user information with the real details, an XML file will be generated along with the usage log file. It would be kept at the same location, having the same name as the usage log file and the *.xml* extension.

Commuter Functionality Now Available for Aggregate Licenses

Aggregate license tokens can now be checked out for commuter purposes. Similarly, aggregate licenses, when defined to be used as repository licenses, can be automatically checked out for use off the network (after at least one successful license request in the network).

Refer to the topic "Commuting Aggregate Licenses" in the Chapter - License Aggregation and Peak Usage of the *Sentinel RMS Developer's Guide* for details about the behavior of aggregate licenses when used for commuter purposes.

Documentation Enhancements

The following new information is added in the Sentinel RMS documentation:

In the Sentinel RMS Developer's Guide

- Added Getting Started sections in the Online format of the *Sentinel RMS Developer's Guide.*
- Added an example for getting started with the Sentinel RMS CodeCover application.
- Added instructions for using the slmdemo program.
- Added information[1] for performing the following typical tasks in your code:

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1. Added the prerequisite includes, declaring variables, and list of API calls.

- ❑ Coding a Standard License Authorization/Request

- ❑ Generating a Fingerprint

- ❑ Finding the Expiration Date of a License

- ❑ Finding the Remaining Days on a Trial License

- ❑ Finding Available License Features From a License Manager

- ❑ Coding a Commuter License

- ❑ Revoking Licenses

- ■ Reclassified the samples listed under the Chapter - Licensing Applications Using API Functions according to their use.

- ■ Added installation locations for the various developer utilities and customer redistributables.

  Refer to the topics "Miscellaneous Utilities" in Chapter - Sentinel RMS Components and "Before You Package Your Licensed Application" in Chapter - Redistributables for Licensed Applications.

Enhancements In Miscellaneous Documents

- ■ Added information in the *Sentinel RMS API Reference Guide* about the various macro functions.

- ■ Added information in the *Sentinel RMS System Administrator's Help* about the various transaction types recorded in the usage log.

- ■ Rebranded the RMS License Server to RMS License Manager throughout the documentation.

Problems Corrected in This Release

In this release, the following problems are corrected:

WT/Task Ref#	Problem Description	To be Documented in Main Docs?
85012	The License Manager returned VLS_REHOST_BUFFER_TOO_SMALL error during network license revocation when the number of tokens to be revoked and\or the number of tokens remaining were in 5 digits (9999+). Also, no revocation ticket was generated even when the licenses were revoked successfully. The problems are corrected in this release. Now, the error is not returned (when the above-mentioned limits are reached) and a revocation ticket is generated.	No
85158	In a scenario, access rights to a license file on the License Manager were modified before calling the VLSdeletelicensefromFile API. However, after the API was called, the access rights were regained. The problem is corrected in this release, and now the access rights are not modified when the VLSdeletelicensefromFile API is called.	No
84924	An expired commuter license maintained priority over a normal stand-alone valid license.This behavior was incorrect. In the 8.5.0 release, the rules of license prioritization got changed due to introduction of aggregate licenses. As a result, the expired licenses were automatically placed after valid licenses.	No
84902	Inconsistent value of ImagePath was observed, across various Windows operating systems, in the following system registry entry: "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sentinel RMS License Manager" On certain systems, the entry was not found to be enclosed under double quotes. The problem is corrected in this release, and now the ImagePath entry would always be enclosed under double quotes.	No
84377	Up to the 8.5.0 release, the VLScontrolRemoteSession allowed enabling and disabling of terminal services in stand-alone licensing environments. In the 8.5.1 release, this check has been extended to RDP connections as well. Two new flags are added in the VLScontrolRemoteSession API to control the RDP connections.	Refer to the API Reference Guide for the updated documentation of VLScontrolRemoteSession flags.
85215	The lshost file contained same settings as the LSHOST environment variable. However, the licensed application failed to follow the settings defined in the lshost file in the required order. The problem is corrected in this release. Now, the behavior is same as the LSHOST environment variable.	No
85056	The VLSisVirtualMachine API returned an incorrect error VLS_INTERNAL_ERROR when the License Manager was of version earlier than 8.4.0 and the application was licensed using libraries of version later than 8.4.0. Now, the correct error VLS_NOT_SUPPORTED is returned.	No
85395	The License Manager crashed under few scenarios when many tokens were requested and checked out. The problem is corrected in this release.	No
85406	The Sentinel RMS License Manager failed to create further usage logs when 101 log files were created. Beyond this, the 101st usage log file fails to be renamed to <usagelogfilename>.00 (overwriting the original .00 file). As a result, the usage log operation gets suspended. This problem (WT#84571) was corrected in the v8.4.0 Windows release and validated on Windows 2003 R2 x64 platform. Now, when the maximum size of the 101st file is reached, the 102nd file will be created by renaming 101st file to existing <usagelogfilename>00.log file.	No

Known Problem(s) in This Release

The following are the known problem in this release (or carried forward from previous releases):

Windows RDP Check Not Available in CodeCover

The Windows RDP connections check (see WT#84377 under *"Problems Corrected in This Release" on page 8*) is not yet available for applications licensed using RMS CodeCover.

LS_NOLICENSESAVAILABLE instead of LS_INSUFFICIENTUNITS (Defect ID#125622)

In a scenario, license A switched to license B after expiration. Now, an update call to license A's request handle will return error code LS_NOLICENSESAVAILABLE instead of LS_INSUFFICIENTUNITS, if the number of tokens is more in license A than license B.

Problems with CodeCover Protected DLLs

The DLLs built using Microsoft Visual Studio will impose some issues (C-Runtime issues, crash, and/or hang issues) when protected using RMS CodeCover v8.4.1 (or later).

Installation Information

The following information related to the RMS SDK installation is included here:

- *"Before You Install..." on page 10*
- *"System Requirements" on page 10*
- *"Installation Instructions" on page 11*

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

During installation, you require the serial number SafeNet provided you. The serial number is on a card shipped with the software.
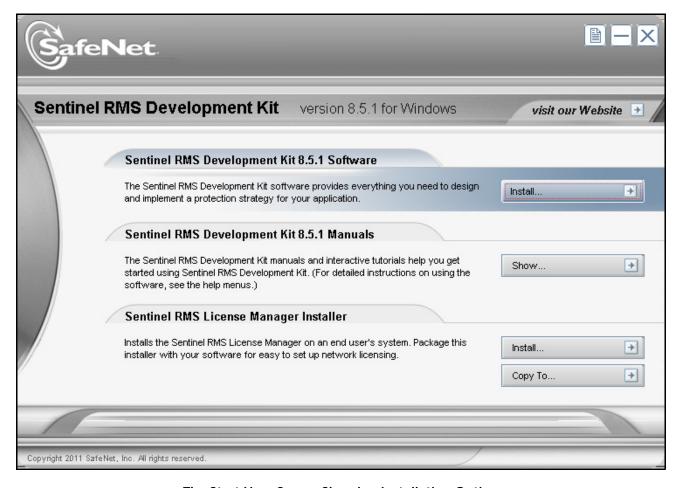
System Requirements

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

Hardware Requirements	Software Requirements
❑ **Processors** x86 processors for 32-bit and x86-64 processors for 64-bit ❑ **Monitor and its Settings** VGA monitor with 800 x 600 resolution (1024 x 768 resolution recommended) ❑ **Hard Disk Space** 1150 MB free hard disk space *Note:* 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. ❑ **RAM** 128 MB RAM on Windows 2000, XP, and 2003 1 GB RAM on Windows Vista and other operating systems (recommended, else the installation is slow) ❑ **Peripherals** A USB port or a parallel port to attach the license meter key. This is required on the system where licenses are to be generated ❑ **Disk Drive** CD-ROM drive (required only if you received the RMS SDK installer on a CD)	❑ **Operating Systems** **For Server Computer:** 32-bit versions of Windows Server 2000, 2003, and 2008 64-bit version of Windows server 2003, 2008, and 2008 R2 **For Client Computer:** 32-bit version of Windows 2000, XP, Vista, and 7 64-bit version of Windows XP, Vista, and 7 ❑ **Compilers** Microsoft Visual Studio 6 for 32-bit Microsoft Visual Studio 2005 for 64-bit Microsoft Visual Studio 2008 for 32 and 64-bit Microsoft Visual Studio 2010 for 32 and 64-bit ❑ **Web Browsers (for viewing Online Helps)** Internet Explorer 7.0 or later Firefox 3.5 or later Google Chrome ❑ **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.

The Start Here Screen Showing Installation Option

2. Click **Install** under **Sentinel RMS Development Kit 8.5.1 Software**. The **Welcome** screen appears.

Note: 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. 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: *<OSdrive>:\Program Files\SafeNet Sentinel\Sentinel RMS Development Kit\<version>\English.*

7. Choose the installation as **Complete** or **Custom**.

8. You are prompted for modifying the system firewall settings.

    Keep the checkbox selected to allow communication with the License Manager. This setting adds the License Manager in your system firewall's exceptions list.

    Clearing the checkbox blocks the communication with the License Manager (not recommended).

9. Follow the on-screen instructions to finish the installation.

10. 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.

Technical Support

If you have questions or need additional assistance, please contact Technical Support using this information:

Customer Connection Center (C3)	
http://c3.safenet-inc.com Existing customers with a Customer Connection Center account can log in to manage incidents, get latest software upgrades and access the complete SafeNet Knowledge Base repository.	
Support and Downloads	
http://www.safenet-inc.com/Support Provides access to knowledge base and quick downloads for various products.	
E-mail-based Support	
support@safenet-inc.com	
Telephone-based Support	
United States	(800) 545-6608, (410) 931-7520
France	0825 341000
Germany	01803 7246269
United Kingdom	0870 7529200, +1 410 931-7520
Australia and New Zealand	+1 410 931-7520
China	(86) 10 5781 0666
India	+1 410 931-7520