

Sentinel RMS SDK v9.0.0

AIX (32 and 64-bit) Release Notes

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Product Version: 9.0.0

Document Part Number: 007-013334-001, Revision A

Release Date: November 2015

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Sentinel RMS SDK v9.0.0 for AIX (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 AIX. 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 on-premise 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 AIX 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 AIX 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 `-lrt` 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
Processor: pSeries	Operating Systems: (32-bit and 64-bit) <ul style="list-style-type: none">■ AIX 6.1, IBM Power Systems■ AIX 7.1, IBM Power Systems
Monitor and Settings: VGA monitor with 800 x 600 resolution (1024 x 768 recommended)	Compilers: <ul style="list-style-type: none">■ XLC Compiler v12.0, v13.0■ bos.rte.libc v6.1.0.0, v7.1.3.30
Hard Disk Space: 200 MB free hard disk space	Java Runtime Environment: Java Runtime Environment v 1.6 (or above) for the Java interface
RAM: 512 MB RAM	

Installation Instructions

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

```
$tar -xvf RMSSDK9.0.0.0099aix.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 Sentinel RMS 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
<i>development</i>	Contains all the RMS libraries, header files, and source code for licensing interfaces.
<i>manuals</i>	Documentation for the Sentinel RMS SDK.
<i>samples</i>	Samples that illustrate the various features of Sentinel RMS. The include files, which provide the prototypes for various Sentinel RMS library functions.
<i>vendorTools</i>	Contains the utilities and files for your use.
<i>redistributable</i>	The utilities and files for your customers, including the Sentinel RMS License Manager installer.
<i>ReleaseNotes.pdf</i>	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 licensed applications. Useful for developers planning and implementing licensing. To access, use the following ways:

- PDF and HTML versions installed on a 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 included in the licensing library, license code generator, system initialization, and so on. Useful for developers integrating the RMS API with their application source. To access, use the following ways:

- PDF and HTML versions installed on a 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 the API Reference Guide as the last item in the Table of Contents (in the left-side pane).

System Administrator's Guide

Contains details about using the administration utilities, 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 a 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>

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