

Sentinel RMS License Manager

Setup & Quick Start Guide

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1. Overview

- The licenses for Elysium products are managed by "Sentinel RMS License Manager" from Thales Corporation.



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- It is recommended, or required when using a computer with Windows Server 2019, to use Sentinel RMS License Manager with the version 9.7.1 or later.



Thales officially guarantees downward compatibility on Sentinel RMS License Manager. So, it will not cause any issues to install the latest version in case a former version is in use for other applications.



Please ensure that the version of license library on client computers is equivalent to, or former than that of Sentinel RMS License Manager on server computers.

- The version of applications such as Sentinel RMS License Manager and WlmAdmin should match. You can check the version information for those applications in "version.txt" file in license_admin folder.
- You need to install Sentinel RMS License Manager regardless of which license type you are using, node-locked or floating.
- This is a quick reference guide which shows the brief outline of the procedure of installation, setup and the use of the licenses. Please refer to the following site for further information.
 - <https://docs.sentinel.thalesgroup.com/softwareandservices/rms/RMSDocumentation/SysAdmin/Content/Welcome.htm>
- Please refer to "Guide on Commuter Licensing" (LicenseServer_CommuterGuide_en.pdf) about bringing out the License.

About License Setting Video

For more information about the contents of this manual, videos are available at the following site. Please view these videos in addition to this manual.

https://www.elysium-global.com/en/support/license_settings_movie/

2. Installation and Setup

2.1. Prerequisite for Sentinel RMS License Manager

Supported OS	Windows 8.1 (32bit/64bit) Windows 10 (32bit/64bit)	Windows Server 2012 (64bit) Windows Server 2012 R2 (64bit) Windows Server 2016 (64bit) Windows Server 2019 (64bit)
Minimum Hardware Requirements	RAM: More than 1GB	

2.2. How to Install Sentinel RMS License Manager

Run the following installer (setup.exe) and follow installer's instructions.

<Installation package>\license_server\installer\setup.exe

- This installer supports the upgrade installation as well. So please run this installer WITHOUT uninstalling the former version when installing to an environment where Sentinel RMS License Manager is installed.
- Just in case, please back up the license file (lservrc) before upgrading. The license file (lservrc) is stored in the following folder.
 - <Installation folder>\Sentinel RMS License Manager\WinNT
- Sentinel RMS License Manager will be installed in the following folder by default. (Recommended)
 - (On 32bit computer) C:\Program Files\Common Files\SafeNet Sentinel
 - (On 64bit computer) C:\Program Files (x86)\Common Files\SafeNet Sentinel

2.3. How to check startup status of Sentinel RMS License Manager

Follow the steps below to check the startup status of Sentinel RMS License Manager.

1. On the computer on which Sentinel RMS License Manager is installed, go to [Start] > [Computer] and select [Manage] from the context menu.
2. "Computer Management" dialog appears. Select [Services and Applications] > [Services] from the left sidebar.
3. If the service named "Sentinel RMS License Manager" exists in the list and its status is "Started" or "Running," it means that the License Server is running.

Name	Description	Status	Startup Type	Log On As
 Sentinel RMS License Manager	Sentinel RMS L...	Started	Automatic	Local System



In case an environment variable "LSERVOPTS" is set, please ensure that the specified folder still exists, otherwise, it will fail to start the License Server. You can also delete this environment variable if you no longer need to output logs.

2.4. How to Install WlmAdmin

Copy the following folder to any folder regardless of shared or local directory, for example, to C drive (C:\Elysium\license_admin\) to install the GUI-based utility tool for license management.

- <Installation package>\license_server\license_admin\



In case of version-up installation, please ensure to delete "license_admin" folder beforehand.

2.5. How to Register Licenses and Check Startup Status

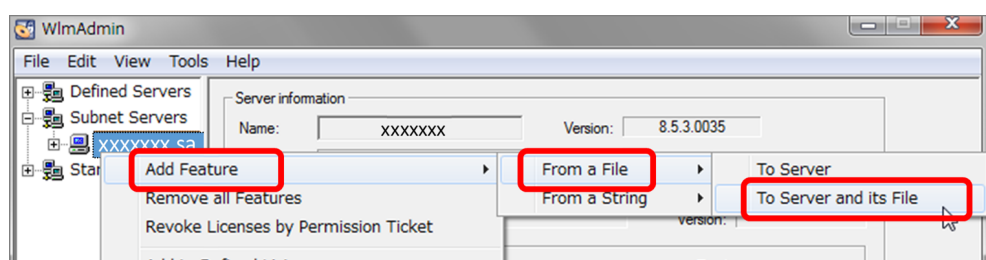
This procedure is mandatory in case of fresh installation, or version-up installation to a different folder. Skip this procedure when upgrading the existing Sentinel RMS License Manager at the same installation folder path.

1. Execute WlmAdmin.exe in the "license_admin" folder copied at 2.4, "How to Install WlmAdmin" above.
2. "WlmAdmin" dialog appears, and the computers in which Sentinel RMS License Manager is installed will be listed under "Subnet Servers" on the left sidebar.

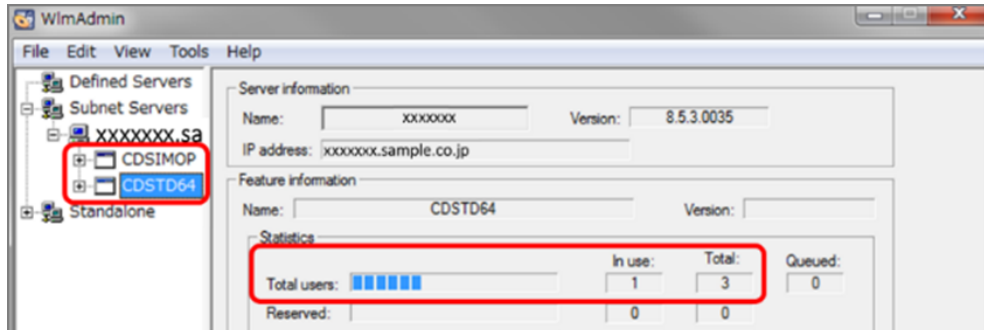


Please refer to [FAQ; Q9](#) if the computer to register does not show up under "Subnet Servers," or the process remains incomplete for a long time after clicking "Subnet Servers."

3. Right click the name of the computer to register the license and select [Add Feature] > [From a File] > [To Server and its File] from the context menu. Please make sure to select [To Server and its File], not [To Server] to register license files. [To Server] is only to refer to the license file one time.



4. Select the license file (*.elylic) and click [Open] button to register that license file.
5. Once registered, the licenses will be displayed below the computer name on the left sidebar. Click the license name, and then the license information will be displayed on the right. "Total" indicates the total number of the licenses and "In use" indicates the number of the licenses in use.



The port number 5093 will be used. Please specify the server name and the port number 5093 at Client Program when you use a license.

3. FAQ

Q1: How can I output logs on the behavior of the license server in time series?

A1: Please refer to "License Manager Usage Logs" in the Thales manual for how to set up.

Q2: Can I output the license usage, for example, "which user is using?" "how many licenses are in use?" etc., at a specific time in text file?

A2: Yes. You can check the license usage at a specific time by outputting the license usage to the command line interface with "lsmon.exe" file, and then redirect to a text file. Please refer to "lsmon - Monitors License Manager Transactions" in the Thales manual for the details on the functionality and option settings.

Q3: How can I construct redundant license server?

A3: Redundant license server is available for a fee and it requires a special license. Please contact your sales agency or Elysium for the price, setup instruction and so on.

Q4: How does the client server communicate with the license server?

A4: The client program communicates with the license server via port number 5093. Please note that it is done with UDP (User Datagram Protocol), not TCP (Transmission Control Protocol).

Q5: How can I change the port number (UDP) used by the license server?

A5: Please refer to "License Manager - Specific Environment Variables" (LSPORT) in the Thales manual for how to change the port number (UDP) for the license server. Please note that the license port should be set for 5093 to use the commuter license function.

Q6: How can I define the maximum number of the license to use per division / user?

A6: You can define per host name / user name by creating "Group Reservation Files" with "WlsGrMgr.exe" file. Please refer to "WlsGrMgr - Manages the Reservation File" in the Thales manual for the details.

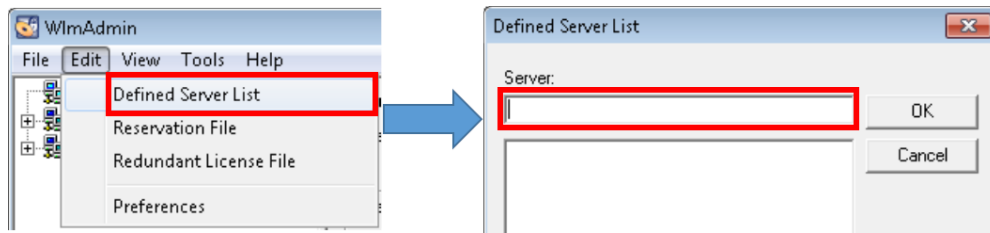
Q7: The license server is not referable from WlmAdmin.

A7: The version of the License Utilities in "license_admin" folder such as "WlmAdmin" should match that of the license server (License Manager). You can check the compatibility between License Manager and a License Utility by dragging-and-dropping License Utility to "license_admin\elcomp.wsf."

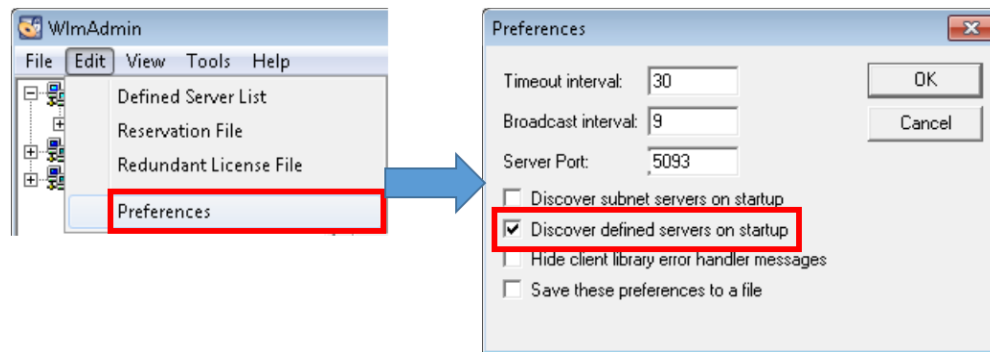
License Manager: v8.5.5.15 (lservnt) License Utility: v8.5.5.15 (WlmAdmin) Compatibility: COMPATIBLE	License Manager: v8.5.5.15 (lservnt) License Utility: v8.4.1.5 (WlmAdmin) Compatibility: NOT COMPATIBLE
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Q8: What should I do when either the computer to register does not show up, or the process remains incomplete after clicking "Subnet Servers"?

A8: Start [Edit] > [Defined Server List] from the menu, and input the host name of the computer to register.



Then, start [Edit] > [Preferences] from the menu, and check in the checkbox of "Discover defined servers on startup" to save the input host name.



Q9: What should I do when Elysium products does not run correctly due to license-related issues?

A9: Set the following three environment variables, and then send the obtained log files to support desk along with the description of the issue.

[On server computer]

- Environment variable: LSERVOPTS

Example of the value: -l C:\Elysium\license_admin\log\lserv.log

- The value would be "-l" followed by the absolute path of the log file to export.
- Set this environment variable to system variable, and then restart the OS.

[On client computer]

- Environment variable: ELY_RMS_DBG_FILE

Example of the value: C:\Temp\rmsdbg.txt

- The value would be the absolute path of the log file to export.
- Set this environment variable, and then restart the corresponding Elysium product.

- Environment variable: ELSSENT_ERROR_FILE

Example of the value: C:\Temp\rmsdbg.txt

- The value would be the absolute path of the log file to export.
- Set this environment variable, and then restart the corresponding Elysium product.



It is recommended that the same log file be specified for ELY_RMS_DBG_FILE and ELSSENT_ERROR_FILE.

Q10: Is it possible to place the license server in a virtual environment? A10: Yes, it's possible.

However, in order to keep the license valid, you must keep the MAC address unchanged.

Q11: What should I do when an error (Abend) message appears when closing WlmAdmin?

A11: This is a known issue of Sentinel RMS License Manager, and planned to be fixed in the future release. As a workaround, it may work to select [Help] > [WlmAdmin] to show the version information before closing WlmAdmin.

Q12: Unable to register a license to a license server installed to a Windows 10 OS computer. (MAC address is changed since the timing of license request.)

A12: The MAC address may get changed when "Use random hardware addresses" option is enabled. (You can check the MAC address by running "ElyMacInfo.exe" stored in <Elysium product installation package>\license_server\locking_code\.) Please disable the option as follows;

1. Click [Start] button, then select [Settings] > [Network & Internet] > [Wi-Fi].
2. Disable "Use random hardware addresses" option.

When the MAC address is still different, please contact to Elysium or its authorized reseller to request a new license with the new MAC address.

Q13: Unable to start an Elysium application due to a license error. (Fails to obtain the license)

A13: The MAC address may get changed since the timing of license request when "Use random hardware addresses" option is enabled. (You can check the MAC address by running "ElyMacInfo.exe".) Please turn off as instructed at A12 above.

When the MAC address is still different, please contact to Elysium or its authorized reseller to request a new license with the new MAC address.

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