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## GENERAL STEPS TO INSTALL METSIM® WITH A SOFTWARE KEY

1. Install METSIM® on user computer(s)
2. Install key (see procedure below)
  - a. on user computer, or
  - b. on separate license computer/server, connected to the network
3. Run METSIM® on user computer(s)
  - a. METSIM® will detect installed local licenses automatically, as well as network licenses on most network configurations
  - b. In case of issues with network licenses, refer to section “Accessing Key Configuration Settings” below



## ONLINE ACTIVATION OF METSIM® SOFTWARE KEYS - RECOMMENDED

This is the simplest procedure for installation of keys, directly on a computer with access to the internet.

1. Download the latest version METSIM® from [www.metsim.com/pub/METSIMLATEST.zip](http://www.metsim.com/pub/METSIMLATEST.zip)
2. Run METSIM\vvvvv.exe with Administrator Privileges
  - If METSIM® is not installed directly to the C:/METSIM drive, update the C:/Windows/METSIM.ini file, line 2, and enter the new workspace file path
  - After installation of all necessary files and drivers, a prompt to restart the computer will appear – **the computer should always be restarted following installation and before moving on to step 3**
3. To ensure the Sentinel Admin Control Center is set up correctly, follow the steps below:
  - Enter <http://localhost:1947> into the web browser. Click **Configuration** then click on the **Network** tab. Scroll down to the **EMS URL** and ensure each URL begins with **https**.
  - Note:** the previous installer does not have the 's' on https.
  - Ensure both of these URL's are present and typed correctly.

EMS URL

https://metsim.sentinelcloud.com

Submit Cancel Set Defaults

- Lastly, Cookies and cache may have to be deleted if using browsers where METSIM® has previously been installed.
4. Visit the Metsim International key servers and enter the following URL into the web browser:  
<https://metsim.sentinelcloud.com/ems/customerLogin.html>  
The following window opens:



## Sentinel LDK-EMS

Entitlement Management System

Customer Portal Login License Update

Product Key:

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- In the Customer Portal Login tab, enter the Product Key code where prompted – this was emailed to the company contact at the time of license issuance – and click login.
- Click Online Activation button located near the top-right portion of the screen.

Product Key: [REDACTED]

Product Key: [REDACTED]

Customer Name:	MSI	E-mail:	info@metsim.com
Channel Partner:	-	E-mail:	-
Activations:	1	Remaining Activations:	1
Previous Activations:	0	Enabled:	true

Products	Lock Type
> METSIM Network ...	HL or SL (AdminMode or UserMode)

Note: Ensure Remaining Activations does not have a 0.

- Click Activate (if) a key activation window pops up.
- A confirmation message in green will appear after the key has been successfully activated and installed.

Product Key : [REDACTED]

Activation installed successfully for keyid [REDACTED]

Product Key:	[REDACTED]		
Customer Name:	MSI	E-mail:	infoau@metsim c...
Channel Partner:	-	E-mail:	-
Activations:	1	Remaining Activations:	0
Previous Activations:	1 <a href="#">View</a>	Enabled:	true

Products	Lock Type
> METSIM Trial (T...	HL or SL (AdminMode or UserMode)

- Restart the computer
- Load METSIM® from either the Start menu or from the Desktop icon (if created)
- If METSIM® does not load, see the section below, *ACCESSING SOFTWARE KEY CONFIGURATION AND SETTINGS*.



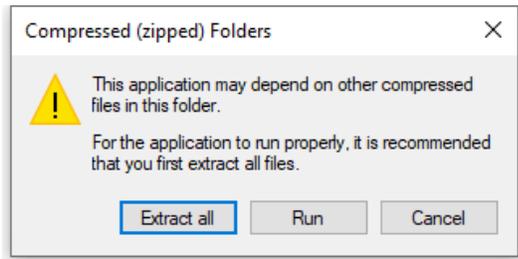
## OFFLINE ACTIVATION OF METSIM® SOFTWARE KEYS

In case the license key is installed on a computer without direct internet access (offline computer), it can be activated from another computer (online computer). This procedure can also be used if the browser-based procedure above is restricted.

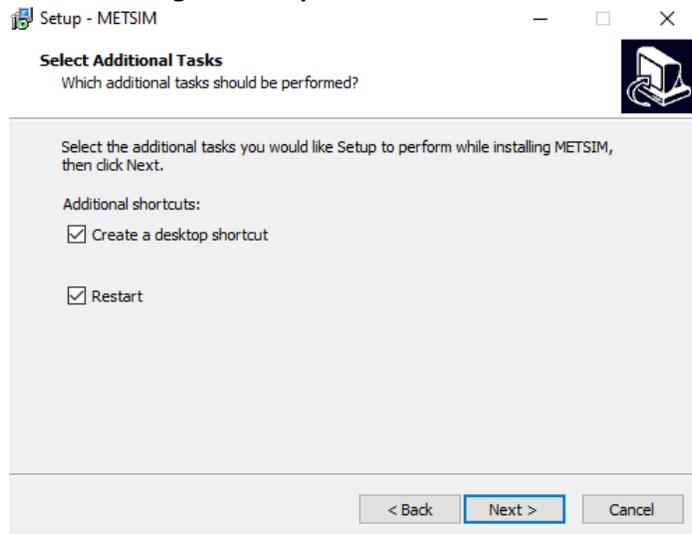
1. Download METSIM® from [www.metsim.com/pub/METSIMLATEST.zip](http://www.metsim.com/pub/METSIMLATEST.zip) with online computer

Name	Type	Compressed size	Password ...	Size	Ratio
METSIM Software Keys	Adobe Acrobat Document	729 KB	No	827 KB	12%
METSIM USB Key Installation	Adobe Acrobat Document	90 KB	No	99 KB	10%
METSIM202109	Application	62,289 KB	No	62,296 KB	1%

2. Run METSIMvvvvvv.exe with Administrator Privileges on offline computer
  - If METSIM® is not installed directly on the C:/METSIM drive, update the C:/Windows/METSIM.ini file, line 2, and enter the new workspace file path



- After installation of all necessary files and drivers, a prompt to restart the computer will appear – **the computer should always be restarted following installation and before moving on to step 3**



3. Visit the Metsim International key servers and enter the following URL into the web browser:

<https://metsim.sentinelcloud.com/ems/customerLogin.html>



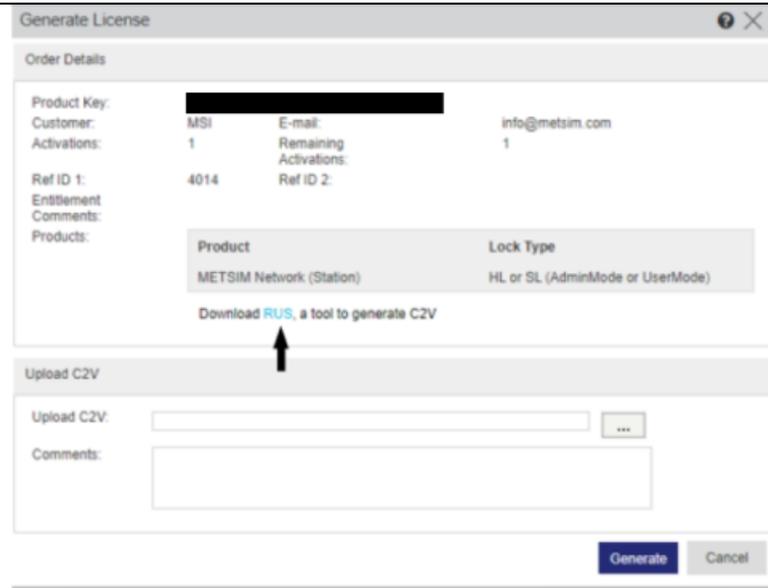
The following window opens:

The screenshot shows the 'Customer Portal Login' window of the Sentinel LDK-EMS Entitlement Management System. It features a 'License Update' tab and a 'Product Key' input field with the placeholder text 'PASTE PRODUCT KEY CODE HERE'. A 'Log In' button is positioned below the input field. At the bottom, there is a copyright notice for Thales Group and a 'Support' link with language options: English, Italiano, Русский, Français, 中文, Deutsch, Español, and 日本語.

4. Enter the Product Key code where prompted – this was emailed to the company contact at the time of license issuance
  - Click Offline Activation button located near the top-right portion of the screen; a prompt will appear within the Generate License window for the download of the RUS Tool – click the RUS link to start this download

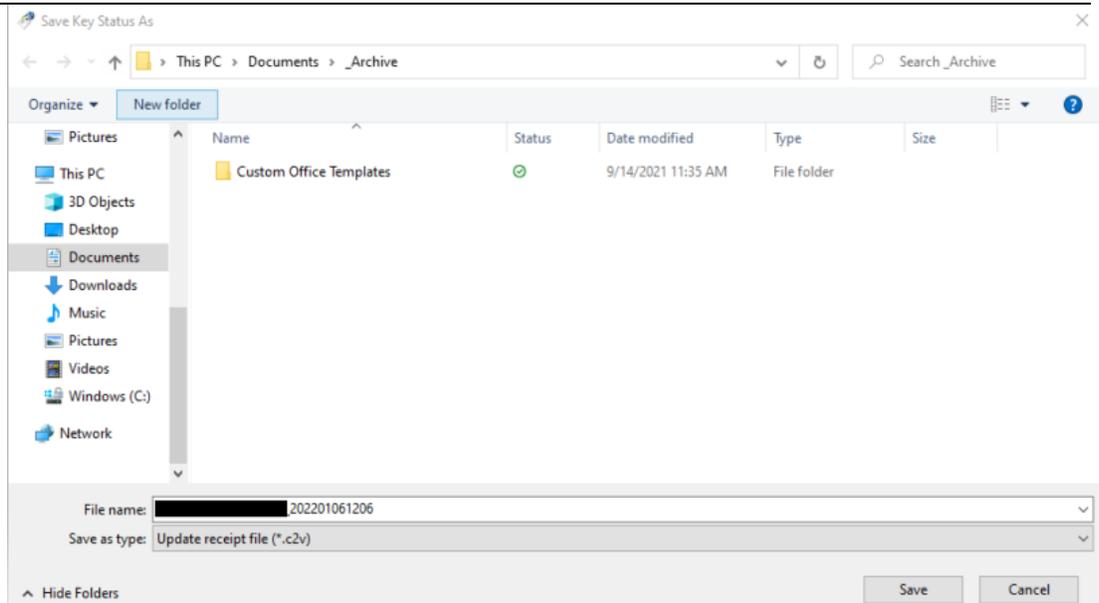
The screenshot displays the 'Generate License' window in the Sentinel LDK-EMS Entitlement Management System. It shows a 'Product Key' field with a redacted key. Below this, there are fields for 'Customer Name' (MSI), 'Channel Partner' (-), 'E-mail' (info@metSIM.c...), and 'Activations' (1). A table below provides further details: 'Previous Activations' (0), 'Remaining Activations' (1), and 'Enabled' (true). At the bottom, there is a 'Products' section showing 'METSIM Network ...' and a 'Lock Type' section showing 'HL or SL (AdminMode or UserMode)'. In the top right corner, there are 'Online Activation' and 'Offline Activation' buttons, with a black arrow pointing to the 'Offline Activation' button.

5. Run the RUS\_RQEKK.exe file with Administrator Privileges on the offline computer



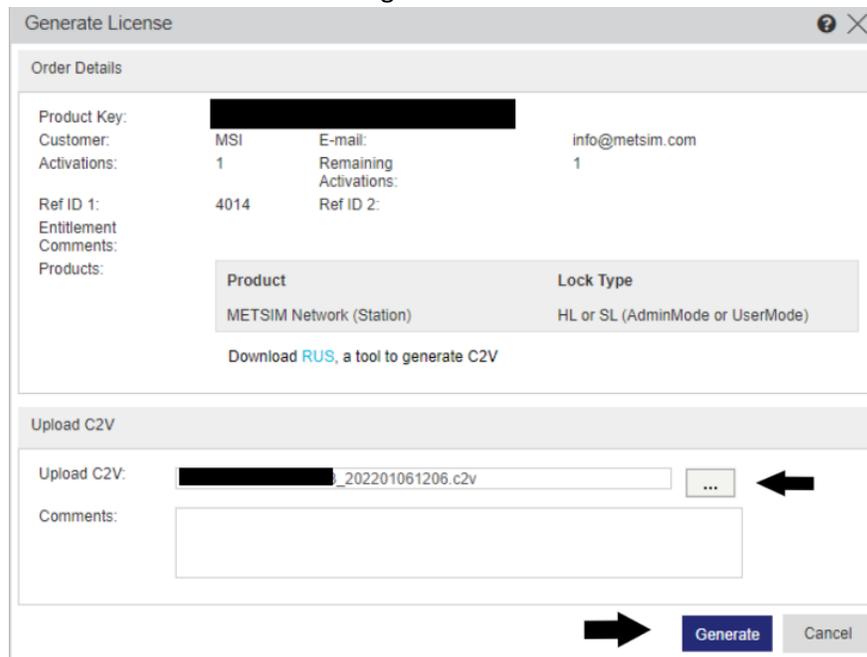
- Select *Installation of new protection key* and click Collect Information button. Note: If METSIM® has been previously downloaded then “Update of existing protection key” may be selected. The computer fingerprint will be collected and a C2V file will be generated – save this file to the computer in any drive and provide a recognizable file name





6. Returning to the Generate License window with the online computer, upload the newly generated C2V file using the button with the three dots located next to the field labeled *Upload C2V*:

- Click *Generate* button at bottom of the Generate License window; now a V2C file is generated.



- Download this file then save to the computer (can save to any location: desktop, documents, etc).



Generate License ? ×

Successfully generated the V2C/EXE/ZIP file, but cannot send an e-mail with this file to the specified recipients. Consider emailing the file if required.

Order Details

Product Key: [REDACTED]  
Customer: MSI E-mail: info@metsim.com  
Activations: 1 Remaining Activations: 0  
Ref ID 1: 4014 Ref ID 2:  
Entitlement  
Comments:  
Products:

Product	Lock Type
METSIM Network (Station)	HL or SL (AdminMode or UserMode)

Download [RUS](#), a tool to generate C2V

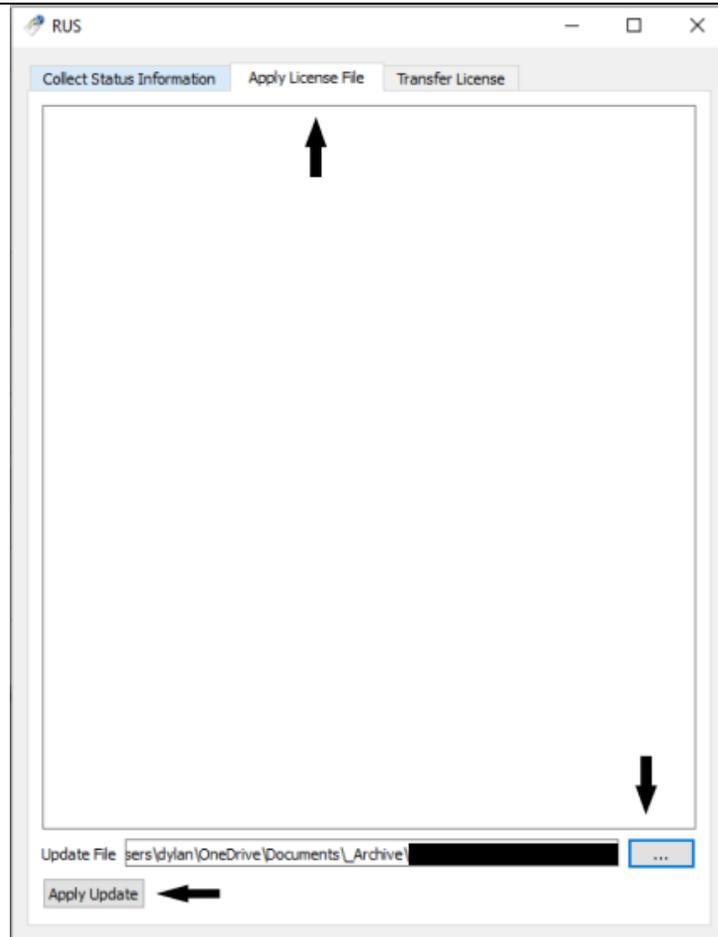
Activation Details

Key ID	Lock Type	Activation Date	Comments	Download
[REDACTED]	SL-AdminMode	2022-01-06		<a href="#">V2C File</a>

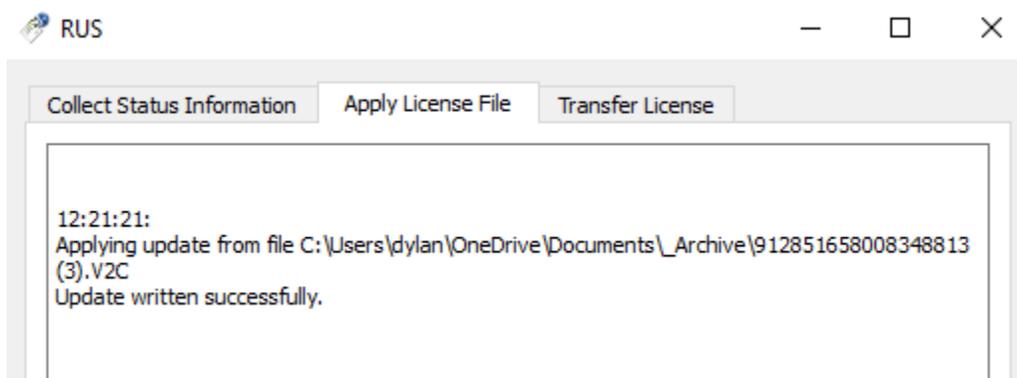
Download File 

Close

7. Finally, returning to the RUS tool on the offline computer, navigate to the second tab labeled *Apply License File*; using the button with the three dots (located next to the field labeled Update File), navigate to the newly generated V2C file and then click *Apply Update* button at bottom of the RUS tool window; a prompt will appear within the RUS window noting that the license has been applied/installed *Upload C2V*:



- Verify the license has been applied successfully as shown in the screenshot below.



8. Restart the computer
9. Load METSIM® from either the Start menu or from the Desktop icon (if created)
10. If METSIM® does not load, see the section below, *ACCESSING SOFTWARE KEY CONFIGURATION AND SETTINGS*.



## TRANSFER OF METSIM® SOFTWARE KEYS

Follow the steps below to transfer the METSIM® software key from one computer or server to another computer or server.

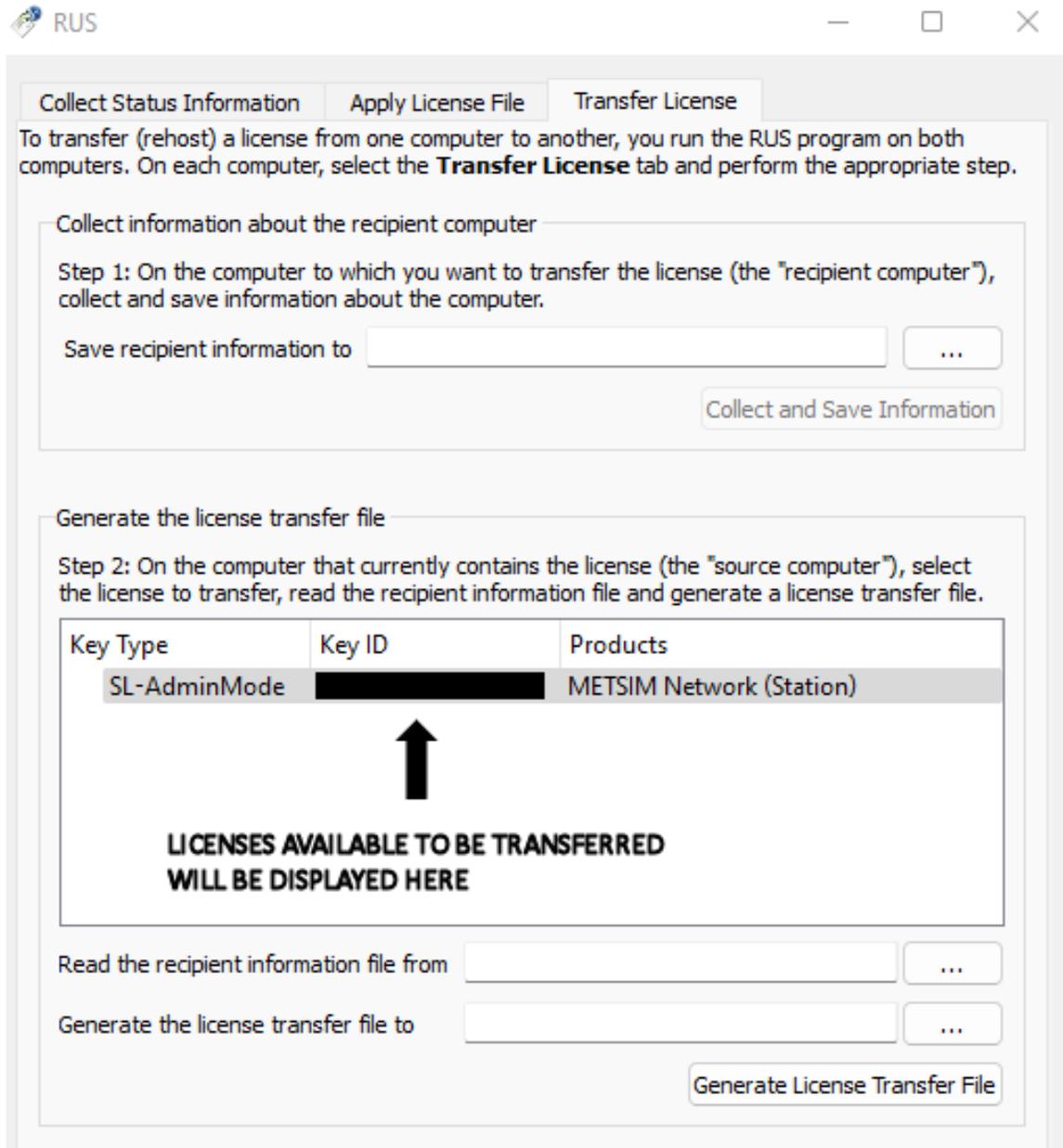
1. Download and install METSIM® on the computer or server where the license is to be transferred. The latest version can be found at <https://metsim.com/software/#download>
2. Visit the Metsim International key servers and enter the following URL into the web browser:

<https://metsim.sentinelcloud.com/ems/customerLogin.html>

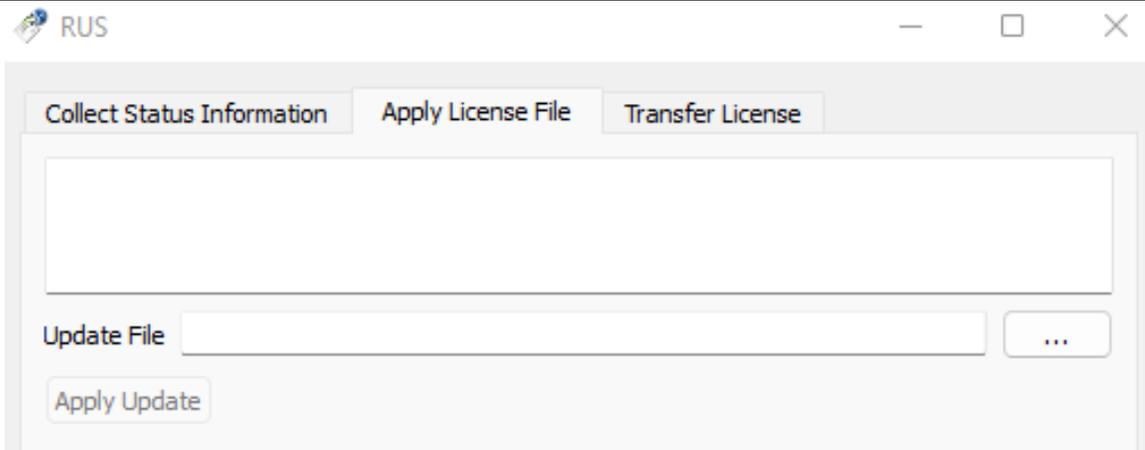
The following window opens:

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English Italiano Русский Français 中文 Deutsch Español 日本語

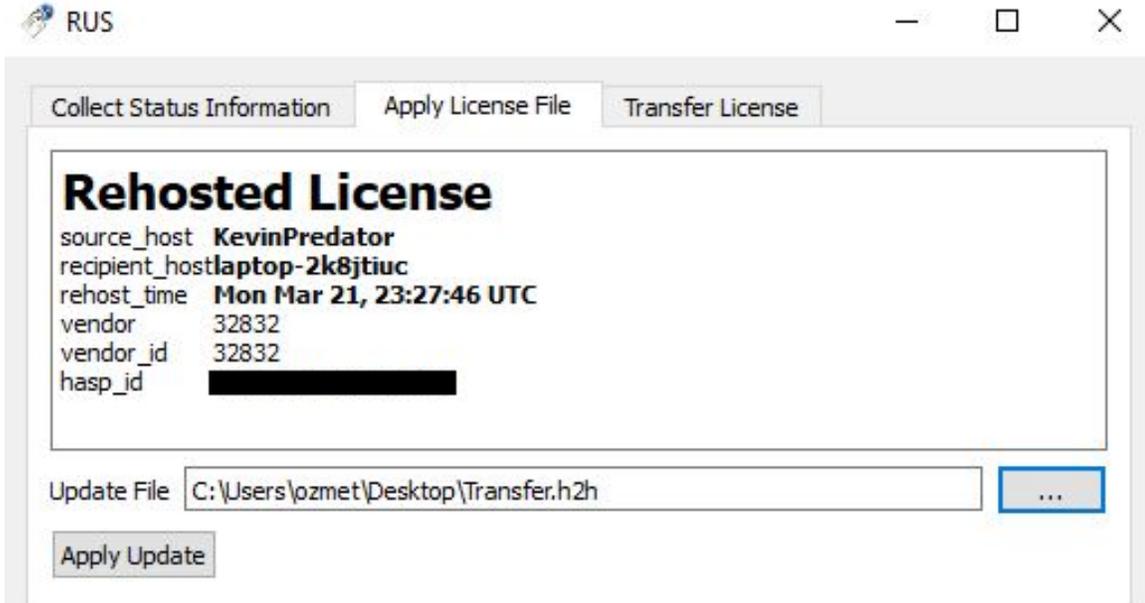
3. Enter the Product Key code where prompted – this was emailed to the company contact at the time of license issuance
  - a. Click the link *View* located next to the Previous Activations section
  - b. Click the link to Download the *RUS Tool*
4. Run the RUS\_RQEKK.exe file with Administrator Privileges on the computer where the key is installed
5. Open the third tab in the RUS tool titled Transfer License
6. Follow all steps included on the Transfer License tab on both the current and future computer or server locations. See below



7. After following all the steps above, click on the **Generate License Transfer File** button and a h2h file is generated e.g Transfer.h2h. Copy this file to the recipient computer where the license is to be transferred and then run the RUS\_RQEKK.exe file with Administrator Privileges.
8. When the RUS tool opens, click on the Apply License File tab.



9. Upload the file to transfer e.g. Transfer.h2h



10. Click the Apply Update file to apply the license to the computer.



## ACCESSING SOFTWARE KEY CONFIGURATION AND SETTINGS

To check or troubleshoot access to keys installed locally or on the network, use the following procedure.

1. On the server, or the local computer, where the software key is activated and installed, enter the following into any web browser: <http://localhost:1947>

The following should appear (if it does not appear, install METSIM® first):

Admin Control Center Help

Welcome to the Admin Control Center. This application enables you to manage access to software licenses and Features, to control detachable licenses, to control sessions, and to diagnose problems.

Note: You can select the language in which Admin Control Center is displayed from the bottom of the Options pane.

> The Admin Control Center enables you to monitor the following:

- All the Sentinel protection keys that are currently available on the network server, including their identity, type, and location
- The number of users currently logged in to a protection key, and the maximum number of users allowed to be simultaneously logged into that specific key
- The Features to which each protection key allows access, and any restrictions that apply to the Feature
- The users who are currently logged into a specific protection key, including detailed login information

Note: SL UserMode keys are only displayed for the local (Windows) machine. SL UserMode keys are not displayed when the configuration parameter **Do Not Load hasplmv.exe** is selected.

> You can perform actions, such as:

- Detaching a license from the network and attaching it to your machine or a different recipient machine
- Cancelling a detachable license prematurely
- Installing an update to a license on a key that is visible in Admin Control Center

> You can implement and manage cloud licensing.

> You can make basic configuration changes, including:

- Setting the display refresh time
- Configuring access permissions from a client machine to a remote server, and configuring a server to allow it to be remotely accessed
- Defining values for Products with detachable licenses

> The Diagnostics page enables you to view system information related to the current Sentinel License Manager, and to generate reports.

**Related Topics**

- Security Considerations
- Cloud Licensing
- Detaching Licenses - Overview
- Sentinel Keys
- Products
- Features
- Sessions
- Update/Attach
- Access Log
- Configuration
- Diagnostics

2. To check which Sentinel keys are installed on this server or computer, click the Sentinel Keys link under the Options menu. METSIM® keys are those with the Vendor Code 32832.

Sentinel Admin Control Center

Sentinel Keys Host Name: laptop-mq08ime0

Sentinel Keys	Location	Vendor	Key ID	Key Type	Configuration	Version	Sessions	Actions
Products	Local	32832 (32832)	581217598223403788	HASP SL AdminMode Rehostable		8.41		<a href="#">Products</a>   <a href="#">Features</a>   <a href="#">Sessions</a>   <a href="#">Certificates</a>   <a href="#">C2V</a>

3. To view current *Sessions*, i.e. which users on the network are currently accessing the key and therefore consuming available licenses, click the Sessions link under the Options.



4. For connectivity issues, click the Configuration link under the Options, the following will appear:

Sentinel Admin Control Center

Configuration Host Name: laptop-mq08lme0

Basic Settings Users Access to Remote License Managers Access from Remote Clients Client Identities Detachable Licenses Network

Machine Name

Allow Remote Access to ACC  Disabled  
 HTTPS  
 HTTP

Allow Remote Access to Admin API  Disabled  
 HTTPS  
 HTTP

Password Protection  Configuration Pages   
 All ACC Pages

Display Refresh Time (sec.)

Table Rows per Page

Idle Timeout of Session

Write an Access Log File  Size Limit (KB):

Include Local Requests

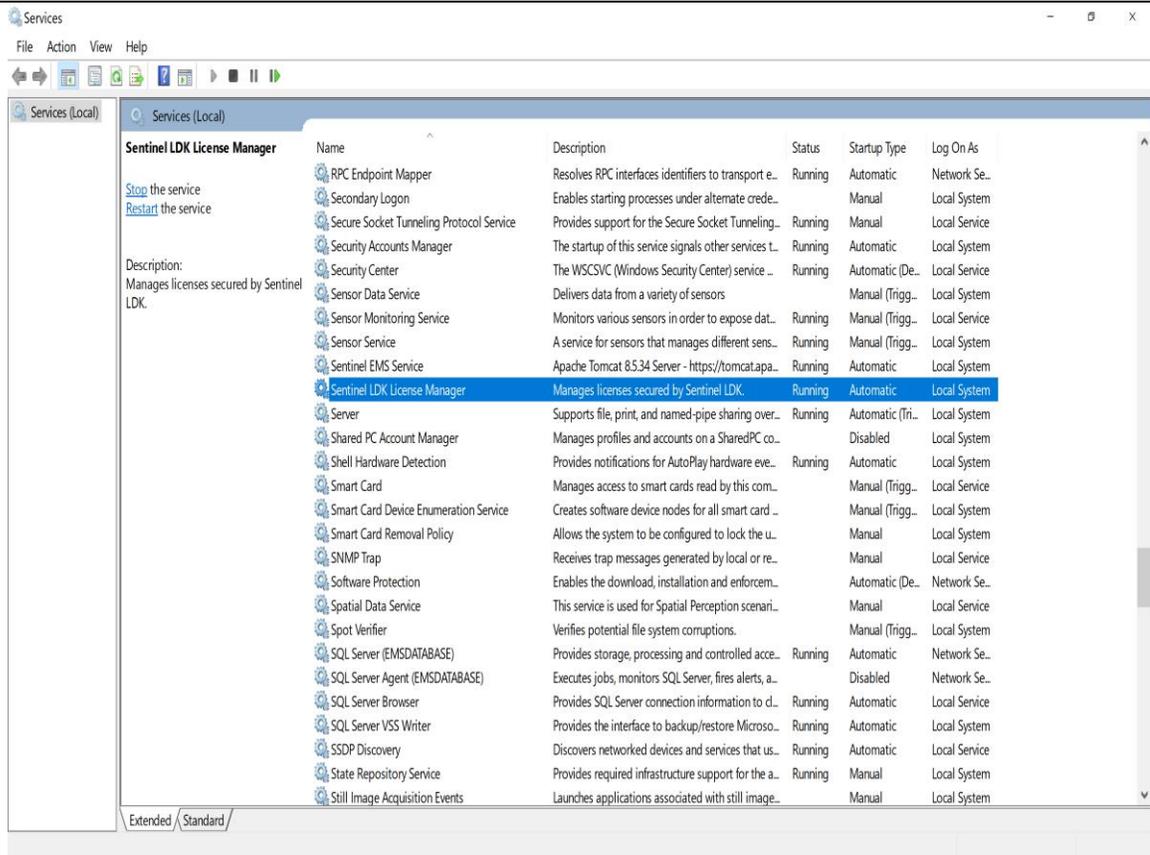
Include Remote Requests

Include Administration Requests

Write an Error Log File  Size Limit (KB):

Across the top of this window are the tabs Basic Settings, Users, Access to Remote License Managers, Access from Remote Clients, Client Identities, Detachable Licenses, and Network. All METSIM® keys are defaulted to allow communication across the local area network (LAN) as well as access to remote users; however, depending on the security settings of the server or network, these options may be disabled.

5. Closely check each of the tabs described in #4 immediately above and ensure that no restrictions have been applied or that any of the communication settings have been disabled. Upon doing so, close any running instances of METSIM® on the server or end-user computers as well as the Sentinel Admin Control Center; then reload METSIM® and the new settings will activate.
6. Finally, ensure that the Sentinel LDK License Manager is running in the *Services* for the server and/or all end-user computers.

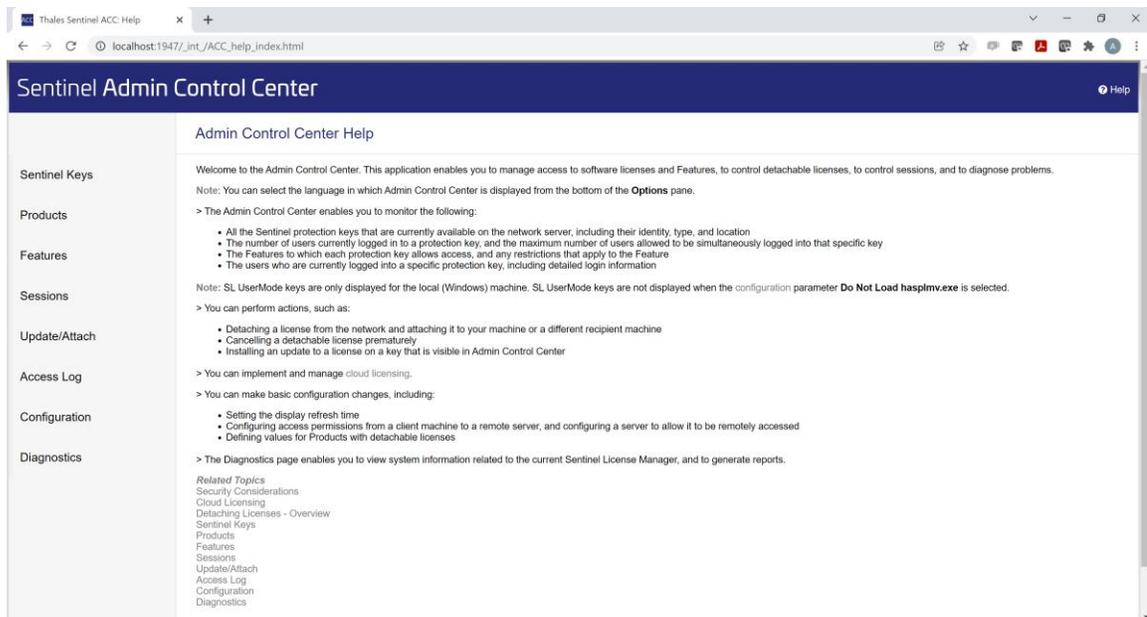


**FOR ANY QUERIES REGARDING THE ACTIVATION OR CONFIGURATION SETTINGS OF METSIM® SOFTWARE KEYS, PLEASE EMAIL US AT [dylan@metsim.com](mailto:dylan@metsim.com).**

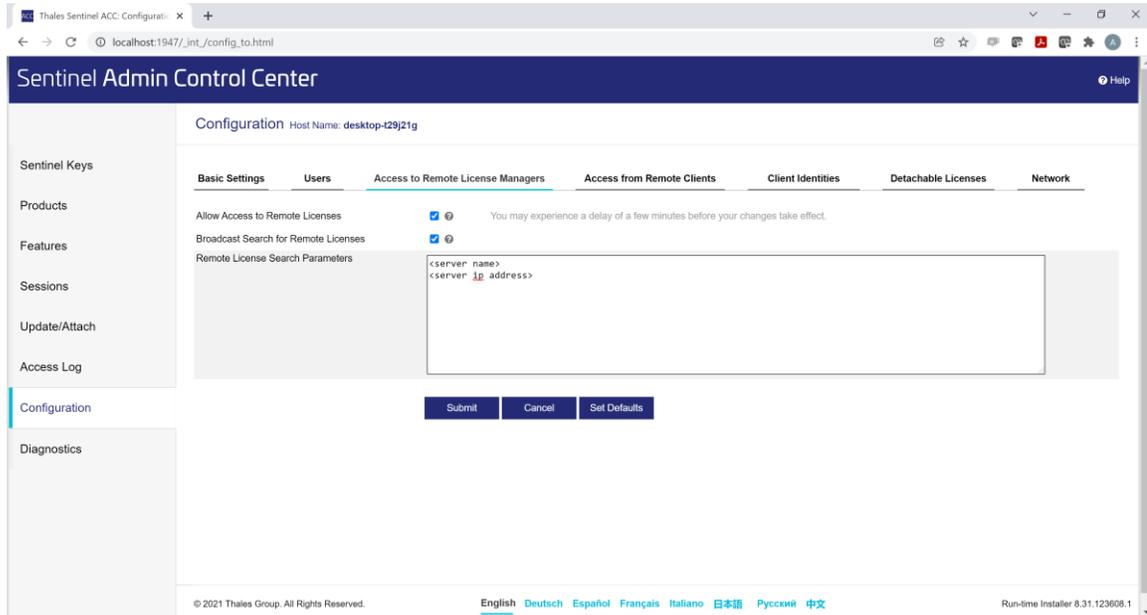


## ACCESSING SOFTWARE KEYS ACROSS MULTIPLE SUBNETS

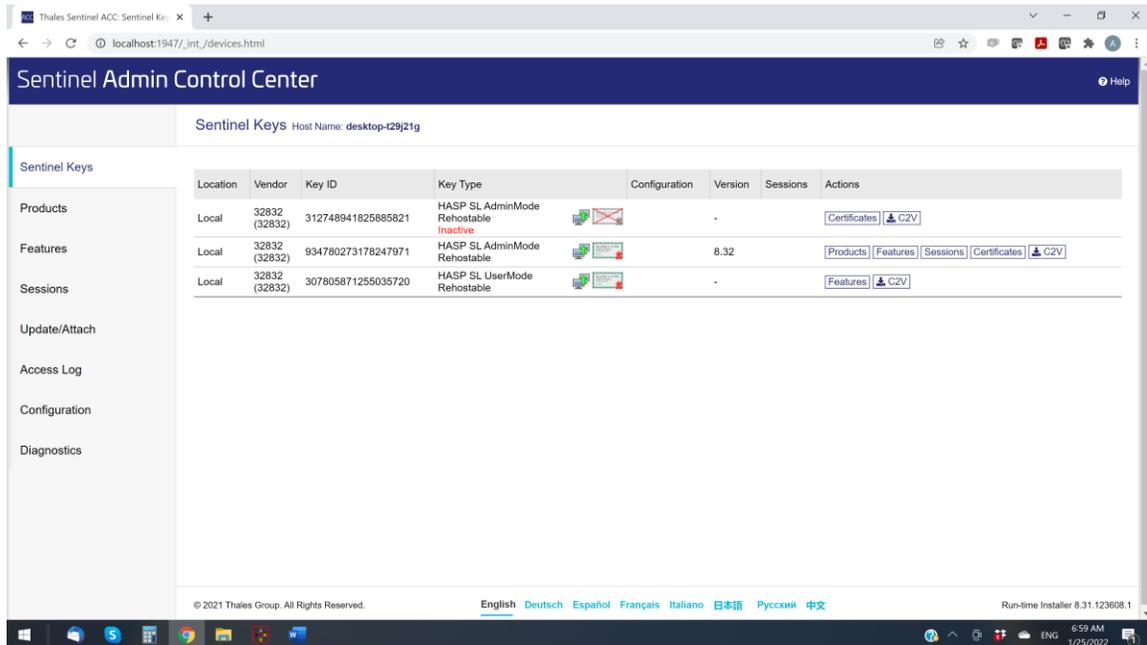
1. Ensure that METSIM® and the software key are installed on a server within the organization following the steps outlined above.
2. Ensure that METSIM® is installed on the end-user computer following the steps outlined above. Also, confirm that the end-user computer is connected to the organization's network, either through local area network or wide area network access.
3. Open the ports 8080 and 1947 for both sending and receiving information.
4. On the end-user computer, access the *Sentinel Admin Control Center* by visiting localhost:1947 in a web browser.



5. On the left-side menu, select Configuration and navigate to the Access to Remote License Managers tab.



6. Ensure that the boxes for Allow Access to Remote License and Broadcast Search for Remote Licenses are checked. Then, in the large text box next to Remote License Search Parameters, enter the server name and/or IP address where the software key is installed; then click Submit.
7. If the key is properly located across the network, it will appear on the end-user computer's Sentinel Admin Control Center when clicking the Sentinel Keys selection on the left-side menu (vendor code 32832).



8. Load METSIM® on the end-user computer. If the key is not found, ensure the necessary ports are open (#3 above) and that the server and computer are connected to the organization's network. All these being true, ensure that there are available licenses to access by clicking the Sentinel Keys (left-side menu) and check the Sessions column; all keys have a limited number of concurrent users, so if METSIM® is loaded on either the server or any other end-user computer, it may be occupying the available license which will block any additional instances. Ensure all instances of METSIM® are closed on these other network computers and attempt to load again.

## DETACHING A SOFTWARE KEY - ONLINE

1. On the Computer where the Software License was activated the Site Administrator will follow the steps below to enable Online detaching of Licenses:
  - Enter <http://localhost:1947> into the web browser.  
The Sentinel Admin Control Center will open.



Sentinel Admin Control Center

Configuration Host Name: [REDACTED]

Basic Settings   Users   Access to Remote License Managers   Access from Remote Clients   Client Identities   **Detachable Licenses**

Machine Name: kevinmonitor

Allow Remote Access to ACC:  Disabled  
 HTTPS  
 HTTP

Allow Remote Access to Admin API:  Disabled  
 HTTPS  
 HTTP

Password Protection:  Configuration Pages  All ACC Pages [Set Password]

Display Refresh Time (sec): 3

Table Rows per Page: 12

- Click on the Configuration tab and then the Detachable Licenses tab and the following window opens.

Sentinel Admin Control Center

Configuration Host Name: [REDACTED]

Basic Settings   Users   Access to Remote License Managers

**On-Demand Detaching of Licenses**

Enabled

Maximum Duration  days

**Automatic Detaching of Licenses**

Enabled

Allowed Offline Duration  hours

**Common Detach Settings**

Reserved Licenses  but at least  % of total licenses

Per Product Settings

- The Site Administrator should Enable the **On-Demand Detaching of Licenses**.
- Then they should set the **Maximum Duration** to the number of days required.
- Click the Submit button to implement these settings.
- Now individual users can take the following steps to detach a license to their computer.  
Enter `http://localhost:1947` into the web browser.  
The Sentinel Admin Control Center will open.
- Click on the Products tab. Information about the Licenses on this network is shown.



## Sentinel Admin Control Center

Sentinel Keys

Products Host Name: [REDACTED]

Product Name	Vendor	Location	Detached	Available	Actions
METSIM Network - Login	32832	Local		40	<a href="#">Detach</a> <a href="#">Features</a>

- Under the Actions column you will find the Detach button, click on it.
- The Detached License window will open giving information about the Product, Vendor, Available Licenses, Maximum Duration, Sentinel Key and the License Host.

## Sentinel Admin Control Center

Sentinel Keys

Products

Features

Sessions

Update/Attach

Access Log

Configuration

Diagnostics

Detach License Host Name: predator-laptop

Product: METSIM Network - Login (ID:10)  
Vendor: 32832 (ID:32832)  
Available Licenses: 40 available for detaching  
Max. Duration: 90 days  
Sentinel Key: 913854845656289650  
License Host: [REDACTED]

**Detach Method:**

Online Detach license from kevinmonitor and automatically attach it to predator-laptop  
 Offline Detach license as an H2R file for use on the recipient machine selected below:  
kevinmonitor - 192.168.1.107

**Concurrency:**

Allow Concurrency for Detached Licenses  
Total Number of Seats:   
**Detach of multiple seats is allowed only for a cloud license with a limited number of seats.**

**Expiration Date for Detached License:**

Day: 30 Month: 11 Year: 2025 11/30/2025

**Comment (optional):**

[Detach & Attach](#) [Cancel](#)

- The Site Administrator previously set the Detach Method to Online.
- For the Expiration Date for Detached License the user enters the date for expiration.
- Clicking on the Detach & Attach button will detach a single license from the computer where it was activated and then attached it to the user's computer.



## Sentinel Admin Control Center

Detach License Host Name: predator-laptop

**License Detached Successfully**

Recipient Name [REDACTED]  
 Product METSIM Network - Login (ID:10)  
 Vendor 32832 (ID:32832)  
 Sentinel Key ID 913854845656289650

License successfully detached for online use.

13. Returning to the Features tab will now display the detached License on the User’s computer and show the expiry date of the License under the Restrictions column.

Sentinel Admin Control Center

Features Available Host Name: [REDACTED]

Vendor	Key ID	Product	Feature	Location	Access	Counting	Logins	Concurrency	Detached	Restrictions	Sessions	Actions
32832	913854845656289650		0	kevinmonitor Detachable	Loc Net Display	Station		=	1	Perpetual		Browse
32832	913854845656289650	10 METSIM Network - Login	99 METSIM Network	kevinmonitor Detachable	Loc Net Display	Login	40		1	Perpetual		Browse
32832	100682523474621071	10 METSIM Network - Login	99 METSIM Network	Local	Loc Display	Login				Expiration Date Fri Oct 24, 2025 23:59		Sessions
32832	100682523474621071	10 METSIM Network - Login	0	Local	Loc Display	Station			1	Expiration Date Fri Oct 24, 2025 23:59		Sessions

14. The License will expire on the date shown and is automatically returned to the pool of network seats on the activated SL key and is disabled on the User’s computer machine.

15. A detached License can be cancelled at any time by going to the Products tab and under the Actions Column clicking the Cancel License button for their detached License.

Sentinel Admin Control Center

Products Host Name: [REDACTED]

Product Name	Vendor	Location	Detached	Available	Actions
METSIM Network - Login	⇒ 32832	Local			Cancel License Features
METSIM Network - Login	← 32832	kevinmonitor	n/a	39	Detach / Extend Features

16. The following window will appear when you click on the Cancel License button.



## Sentinel Admin Control Center

Cancel Detached License (Sentinel License Manager on predator-laptop)

Product	METSIM Network - Login (ID:10)
Vendor	32832 (ID:32832)
Sentinel Key	1006825253474621071
Expiration Date	Fri Oct 24 2025 23:59:29 GMT+1100
Parent Key	913854845656289650
License Host	[REDACTED]

Current Sessions **1**  
**Warning: Cancelling the license will also cancel these sessions immediately!**

[Cancel License](#) [Keep License](#)

17. To proceed click on the Cancel License button. The following window will appear showing the License has been successfully cancelled.

Sentinel Admin Control Center

Cancel Detached License (Sentinel License Manager on predator-laptop)

**License Cancelled Successfully**

Recipient Name	[REDACTED]
Product	METSIM Network - Login (ID:10)
Vendor	32832 (ID:32832)
Sentinel Key ID	1006825253474621071

License successfully cancelled.

## DETACHING A SOFTWARE KEY – OFFLINE

1. Where the detaching of Licenses is to be controlled by the Site Administrator, they can use the Offline option to generate an H2R file that contains a detached license. The administrator transfers the file to the recipient. The recipient applies the H2R file on their machine.
2. On the Computer where the Software Key was activated the Site Administrator will follow the steps below generate an H2R file:
  - Enter `http://localhost:1947` into the web browser.  
The Sentinel Admin Control Center will open.
3. In the Products tab click the Detach button in the Actions column.



## Sentinel Admin Control Center

Products Host Name: [REDACTED]

Sentinel Keys

Products

Product Name	Vendor	Location	Detached	Available	Actions
METSIM Network - Login	32832	Local		40	<a href="#">Detach</a> <a href="#">Features</a>

4. The following window opens.

### Sentinel Admin Control Center

Help

Detach License Host Name: kevinmonitor

Product: METSIM Network - Login (ID:10)  
Vendor: 32832 (ID:32832)  
Available Licenses: 40 available for detaching  
Max. Duration: 90 days  
Sentinel Key: 913854845656289650  
License Host: Local (only offline detach is possible)

**Detach Method:**

Online (Online Detach is not possible because this is a local product)  
 Offline

Detach license as an H2R file for use on the recipient machine selected below:

**COMPUTER 1**  
**COMPUTER 2**  
**COMPUTER 3**

**Concurrency:**

Total Number of Seats: [REDACTED]

Detach of multiple seats is allowed only for a cloud license with a limited number of seats.

**Expiration Date for Detached License:**

Day: 18 Month: 10 Year: 2025 10/18/2025

**Comment (optional):** [REDACTED]

[Detach](#) [Cancel](#)

5. Clicking on the Offline Drop Down menu will list the computers on the network.

6. Select the computer to make the H2R file for and then click the Detach button.

7. The following window opens stating the License Detached Successfully.

### Sentinel Admin Control Center

Help

Detach License Host Name: [REDACTED]

**License Detached Successfully**

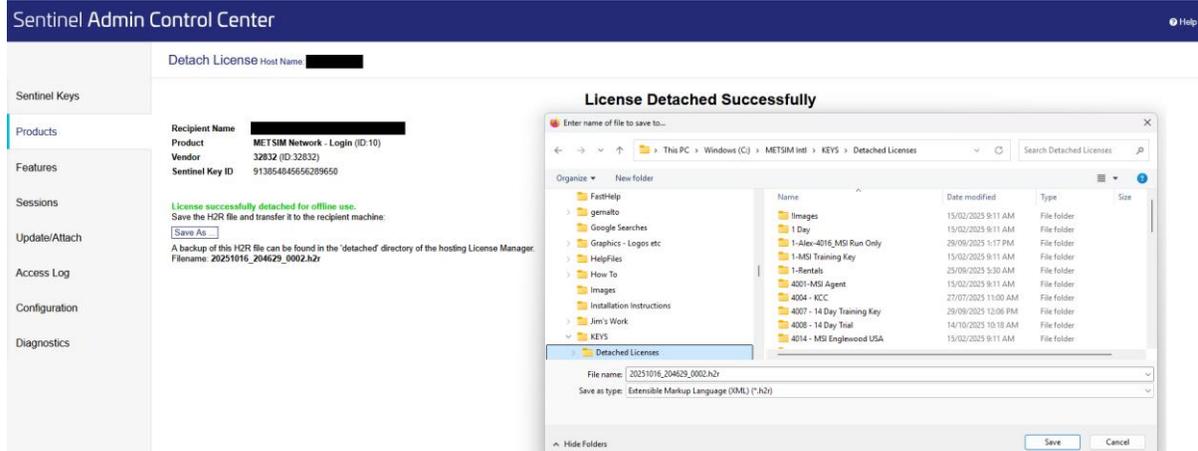
Recipient Name: [REDACTED]  
Product: METSIM Network - Login (ID:10)  
Vendor: 32832 (ID:32832)  
Sentinel Key ID: 913854845656289650

License successfully detached for offline use.  
Save the H2R file and transfer it to the recipient machine:  
[Save As ...](#)

A backup of this H2R file can be found in the 'detached' directory of the hosting License Manager.  
Filename: 20251016\_204629\_0002.h2r



8. Click on the Save As button to specify the directory to save the H2R file in.

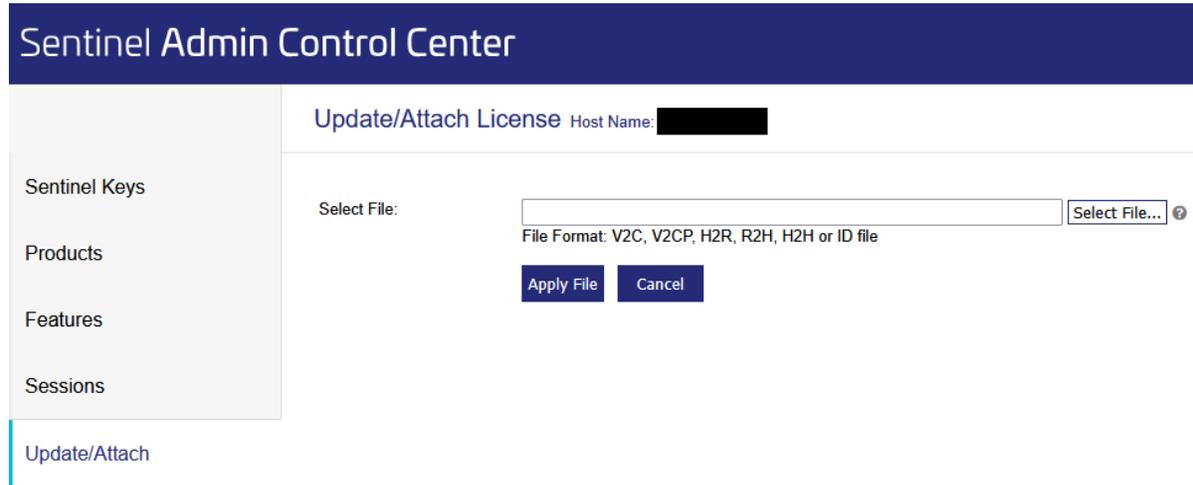


9. The Site Administrator can now send the H2R file to the user.

10. On the Computer where the License will be activated the user should follow the steps below:

- Enter `http://localhost:1947` into the web browser.  
The Sentinel Admin Control Center will open.

11. Click on the Update/Attach tab opens the following window.



12. The user then clicks on the Select File button and locates the H2R file they were sent.





13. To complete this the user clicks on the Apply File button.

The screenshot shows the Sentinel Admin Control Center interface. At the top, there is a dark blue header with the text "Sentinel Admin Control Center" and a "Help" icon on the right. Below the header is a light gray sidebar with navigation options: "Sentinel Keys", "Products", and "Features". The main content area is titled "Attach/Update" and displays a success message: "Your update was applied successfully." Below this message, it states "License Key with ID 1053004671813185654 was updated." and provides a link: "Click ID number link to display the Features list for this License Key."

14. The user can now use the License on their computer.