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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
2. Run METSIMvvvvv.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://activate.metsim.com:8080
https://activate.metsim.com
```

- 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://activate.metsim.com/ems/customerLogin.html>

The following window opens:



Sentinel LDK-EMS

Entitlement Management System

Customer Portal Login

License Update

Product Key: PASTE PRODUCT KEY CODE HERE

Log In

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[English](#) [Italiano](#) [Русский](#) [Français](#) [中文](#) [Deutsch](#) [Español](#) [日本語](#)

5. 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.
6. Click Online Activation button located near the top-right portion of the screen.

Sentinel LDK-EMS

Entitlement Management System

Welcome | [Logout](#) | [Help](#)

Product Key: [REDACTED]		Online Activation Offline Activation	
Product Key:	[REDACTED]	E-mail:	info@metsim.com
Customer Name:	MSI	E-mail:	-
Channel Partner:	-		
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.

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

Sentinel LDK-EMS

Entitlement Management System

Product Key : [REDACTED]			
Activation installed successfully for keyId [REDACTED]			
Product Key:	[REDACTED]	E-mail:	infoau@metsim.c...
Customer Name:	MSI	E-mail:	-
Channel Partner:	-		
Activations:	1	Remaining Activations:	0
Previous Activations:	1 View	Enabled:	true
Products		Lock Type	
> METSIM Trial (T...		HL or SL (AdminMode or UserMode)	

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



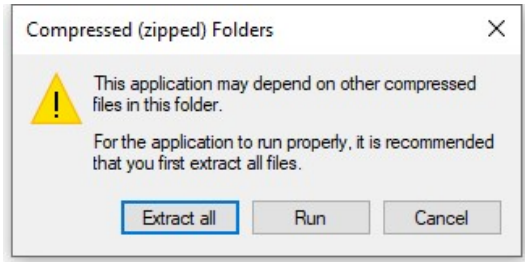
OFFLINE ACTIVATION OF METSIM® SOFTWARE KEYS

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.

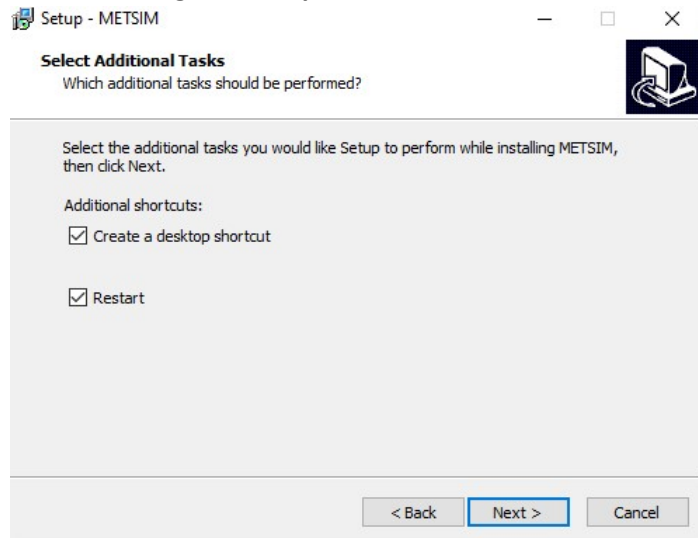
1. Download METSIM® from www.metsim.com/pub/METSIMLATEST.zip with online computer

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://activate.metsim.com/ems/customerLogin.html>



The following window opens:

The screenshot shows the 'Sentinel LDK-EMS Entitlement Management System' interface. It features a 'Customer Portal Login' tab and a 'License Update' tab. Below the tabs, there is a 'Product Key:' label followed by a text input field containing the placeholder 'PASTE PRODUCT KEY CODE HERE'. A 'Log In' button is positioned below the input field. At the bottom, there is a copyright notice: '© 2021 Thales Group. All Rights Reserved. | Support' followed by a list of languages: 'English Italiano Русский Français 中文 Deutsch Español 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 shows the 'Sentinel LDK-EMS Entitlement Management System' interface with the 'License Update' tab selected. The 'Product Key' field is filled with a blacked-out code. To the right of the input field are two buttons: 'Online Activation' and 'Offline Activation'. An arrow points to the 'Offline Activation' button. Below the buttons, there is a table with the following data:

Product Key:		E-mail:	info@metasim E...
Customer Name:	MSI	E-mail:	-
Channel Partner:	-		
Activations:	1	Remaining Activations:	1
Previous Activations:	0	Enabled:	true
Products:		Lock Type:	

At the bottom, there is a dropdown menu for 'Products' showing 'METSIM Network ...' and a label 'HL or SL (AdminMode or UserMode)'.

5. Run the RUS_RQEKK.exe file with Administrator Privileges on the offline computer



Generate License

Order Details

Product Key: [REDACTED]
Customer: MSI E-mail: info@metsim.com
Activations: 1 Remaining Activations: 1
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

Upload C2V

Upload C2V: [Text Box] ...
Comments: [Text Box]

Generate Cancel

- 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

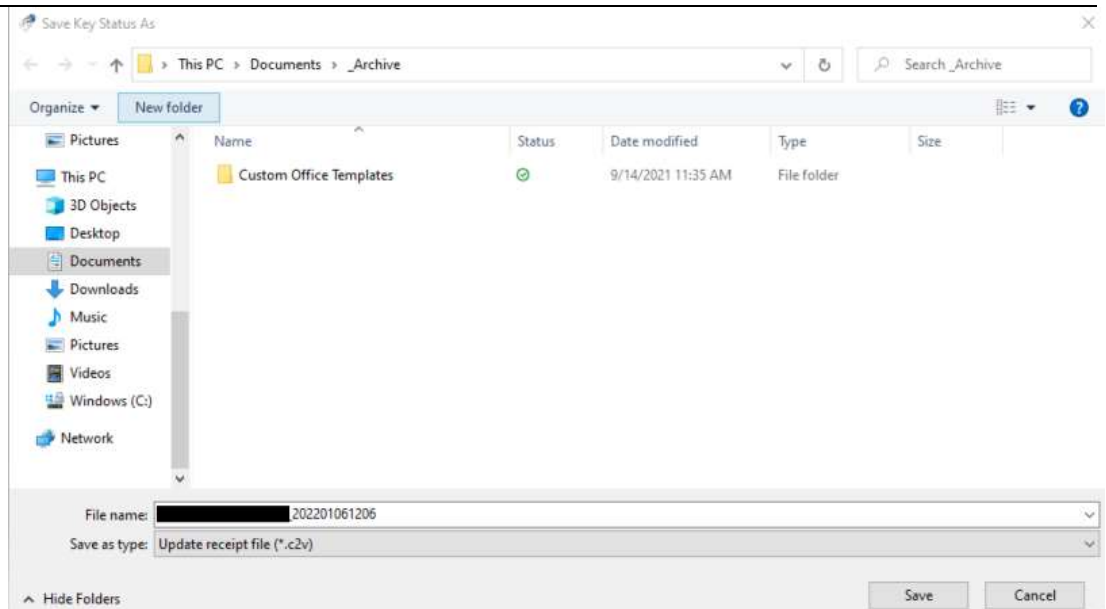
RUS

Collect Status Information Apply License File Transfer License

Collect information from this computer to enable:

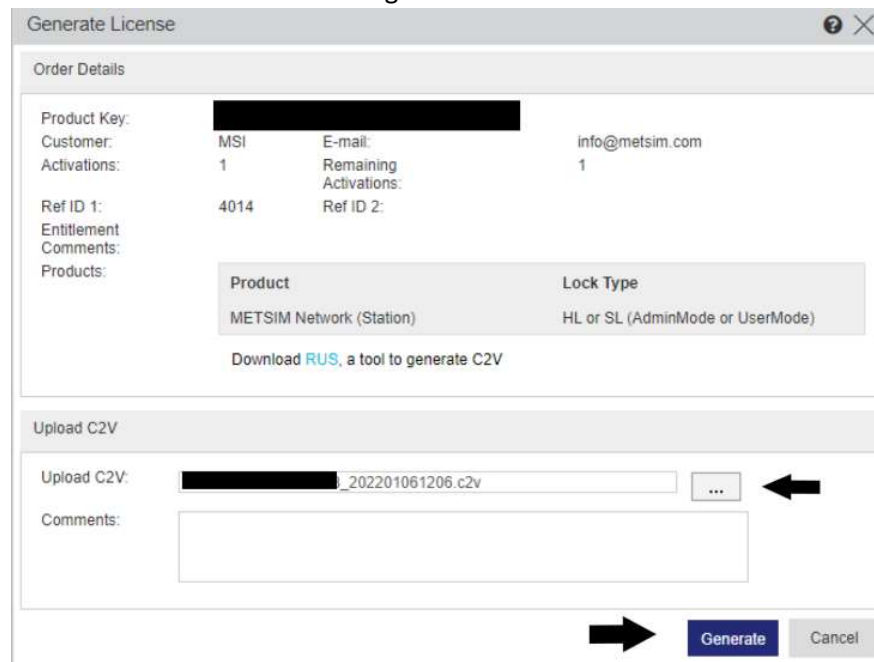
☒ Update of existing protection key
☐ Installation of new protection key

Collect Information



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:

Customer:

Activations:

Ref ID 1:

Entitlement

Comments:

Products:

MSI

1

4014

E-mail:

Remaining

Activations:

Ref ID 2:

info@metstim.com

0

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

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

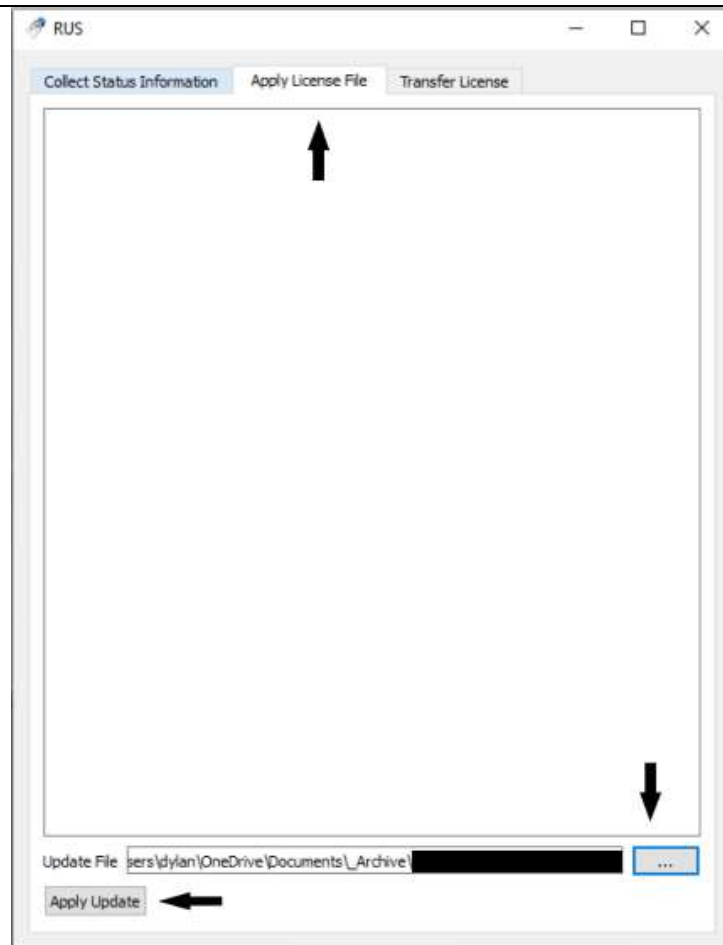
Activation Details

Key ID	Lock Type	Activation Date	Comments	Download
	SL-AdminMode	2022-01-06		V2C File

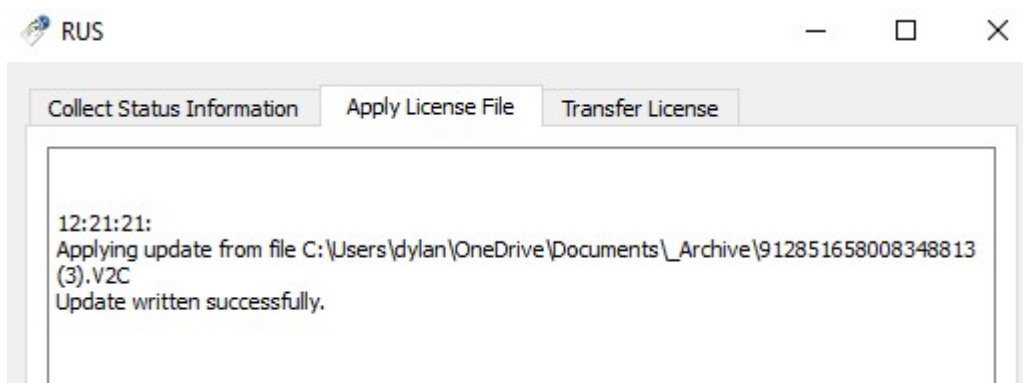
Download File

Close

- 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. Visit the Metsim International key servers and enter the following URL into the web browser:
<https://activate.metsim.com/ems/customerLogin.html>

The following window opens:



The screenshot shows the 'Sentinel LDK-EMS Entitlement Management System' interface. It features a 'Customer Portal Login' tab and a 'License Update' tab. Below the tabs, there is a 'Product Key:' label followed by a text input field containing the placeholder 'PASTE PRODUCT KEY CODE HERE'. A 'Log In' button is positioned below the input field. At the bottom, there is a copyright notice: '© 2021 Thales Group. All Rights Reserved. | Support' followed by a list of language links: 'English Italiano Русский Français 中文 Deutsch Español 日本語'.

2. 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
3. Run the RUS_RQEKK.exe file with Administrator Privileges on the computer where the key is installed
4. Open the third tab in the RUS tool titled Transfer License
5. Follow all steps included on the Transfer License tab on both the current and future computer or server locations. See below



RUS

Collect Status Information Apply License File **Transfer License**

To transfer (rehost) a license from one computer to another, you run the RUS program on both computers. On each computer, select the **Transfer License** tab and perform the appropriate step.

Collect information about the recipient computer


Step 1: On the computer to which you want to transfer the license (the "recipient computer"), collect and save information about the computer.

Save recipient information to ...

Collect and Save Information

Generate the license transfer file

Step 2: On the computer that currently contains the license (the "source computer"), select the license to transfer, read the recipient information file and generate a license transfer file.

Key Type	Key ID	Products
SL-AdminMode		METSIM Network (Station)

↑

**LICENSES AVAILABLE TO BE TRANSFERRED
WILL BE DISPLAYED HERE**

Read the recipient information file from ...

Generate the license transfer file to ...

Generate License Transfer File

- 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.
- When the RUS tool opens, click on the Apply License File tab.



RUS

Collect Status Information Apply License File Transfer License

Update File ...

Apply Update

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

RUS

Collect Status Information Apply License File Transfer License

Rehosted License

source_host KevinPredator
recipient_host laptop-2k8jtiuc
rehost_time Mon Mar 21, 23:27:46 UTC
vendor 32832
vendor_id 32832
hasp_id [REDACTED]

Update File ...

Apply Update

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

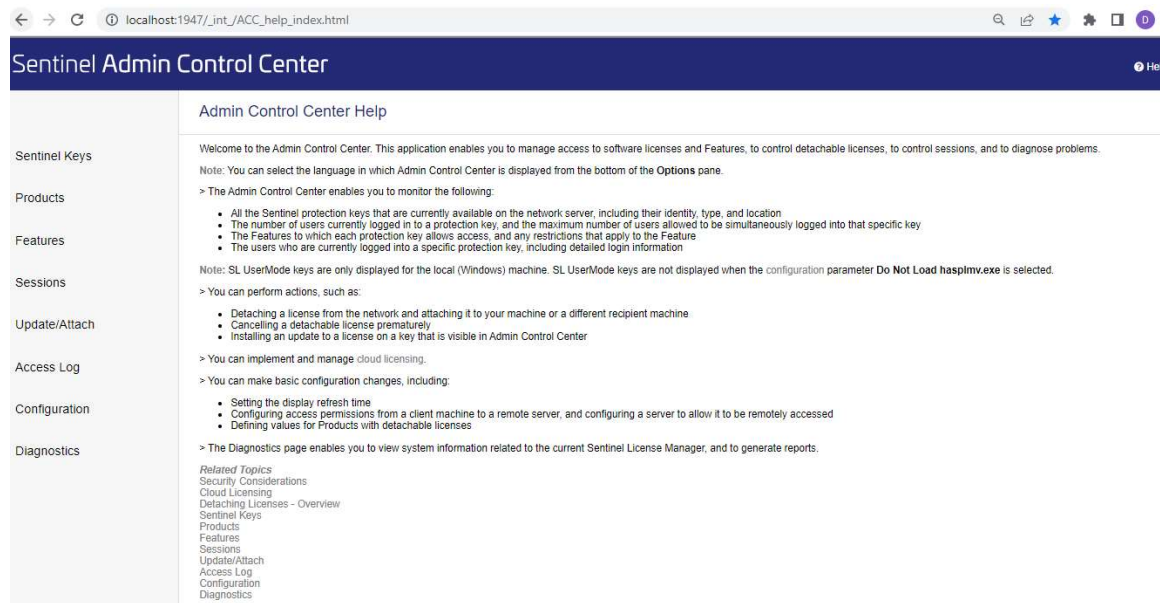


ACCESSING SOFTWARE KEY CONFIGURATION AND SETTINGS

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):




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-mq08lme0

Sentinel Keys

Location	Vendor	Key ID	Key Type	Configuration	Version	Sessions	Actions
Local	32832 (32832)	581217598223403788	HASP SL AdminMode Rehostable		8.41		Products Features Sessions Certificates C2V

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.



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

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.

- 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.
- Finally, ensure that the Sentinel LDK License Manager is running in the *Services* for the server and/or all end-user computers.



METSIM

INTERNATIONAL

Services

File Action View Help

Services (Local)

Stop the service
Restart the service

Description:
Manages licenses secured by Sentinel LDK.

Name	Description	Status	Startup Type	Log On As
RPC Endpoint Mapper	Resolves RPC interfaces identifiers to transport e...	Running	Automatic	Network Se...
Secondary Logon	Enables starting processes under alternate crede...	Running	Manual	Local System
Secure Socket Tunneling Protocol Service	Provides support for the Secure Socket Tunneling...	Running	Manual	Local Service
Security Accounts Manager	The startup of this service signals other services t...	Running	Automatic	Local System
Security Center	The WSCSVC (Windows Security Center) service ...	Running	Automatic (De...	Local Service
Sensor Data Service	Delivers data from a variety of sensors	Running	Manual (Trigg...	Local System
Sensor Monitoring Service	Monitors various sensors in order to expose dat...	Running	Manual (Trigg...	Local Service
Sensor Service	A service for sensors that manages different sens...	Running	Manual (Trigg...	Local System
Sentinel EMS Service	Apache Tomcat 8.5.34 Server - https://tomcat.apa...	Running	Automatic	Local System
Sentinel LDK License Manager	Manages licenses secured by Sentinel LDK.	Running	Automatic	Local System
Server	Supports file, print, and named-pipe sharing over...	Running	Automatic (Tr...	Local System
Shared PC Account Manager	Manages profiles and accounts on a SharedPC co...	Disabled	Local System	
Shell Hardware Detection	Provides notifications for AutoPlay hardware eve...	Running	Automatic	Local System
Smart Card	Manages access to smart cards read by this com...	Running	Manual (Trigg...	Local Service
Smart Card Device Enumeration Service	Creates software device nodes for all smart card ...	Running	Manual (Trigg...	Local System
Smart Card Removal Policy	Allows the system to be configured to lock the u...	Running	Manual	Local System
SNMP Trap	Receives trap messages generated by local or re...	Running	Manual	Local Service
Software Protection	Enables the download, installation and enforcem...	Running	Automatic (De...	Network Se...
Spatial Data Service	This service is used for Spatial Perception scenari...	Running	Manual	Local Service
Spot Verifier	Verifies potential file system corruptions.	Running	Manual (Trigg...	Local System
SQL Server (EMSDATABASE)	Provides storage, processing and controlled acce...	Running	Automatic	Network Se...
SQL Server Agent (EMSDATABASE)	Executes jobs, monitors SQL Server, fires alerts, a...	Running	Disabled	Network Se...
SQL Server Browser	Provides SQL Server connection information to cl...	Running	Automatic	Local Service
SQL Server VSS Writer	Provides the interface to backup/restore Microso...	Running	Automatic	Local System
SSDP Discovery	Discovers networked devices and services that us...	Running	Automatic	Local Service
State Repository Service	Provides required infrastructure support for the a...	Running	Manual	Local System
Still Image Acquisition Events	Launches applications associated with still image...	Running	Manual	Local System

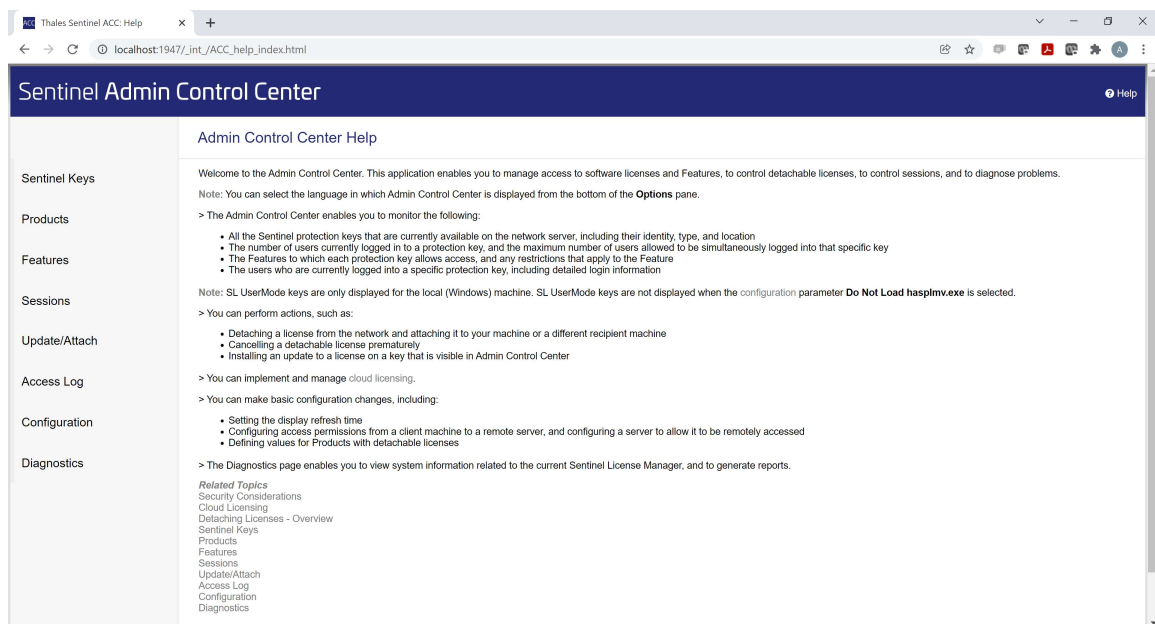
Extended / Standard

FOR ANY QUERIES REGARDING THE ACTIVATION OR CONFIGURATION SETTINGS OF METSIM® SOFTWARE KEYS, PLEASE EMAIL US AT keysupport@metstim.com.

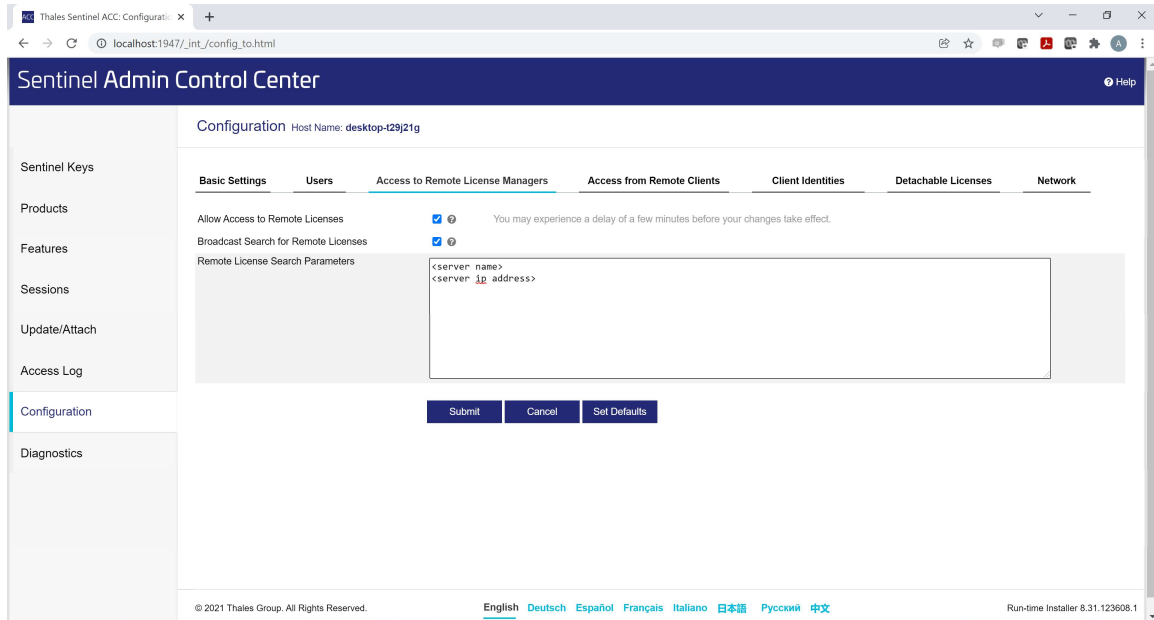


ACCESSING SOFTWARE KEYS ACROSS MULTIPLE SUBNETS

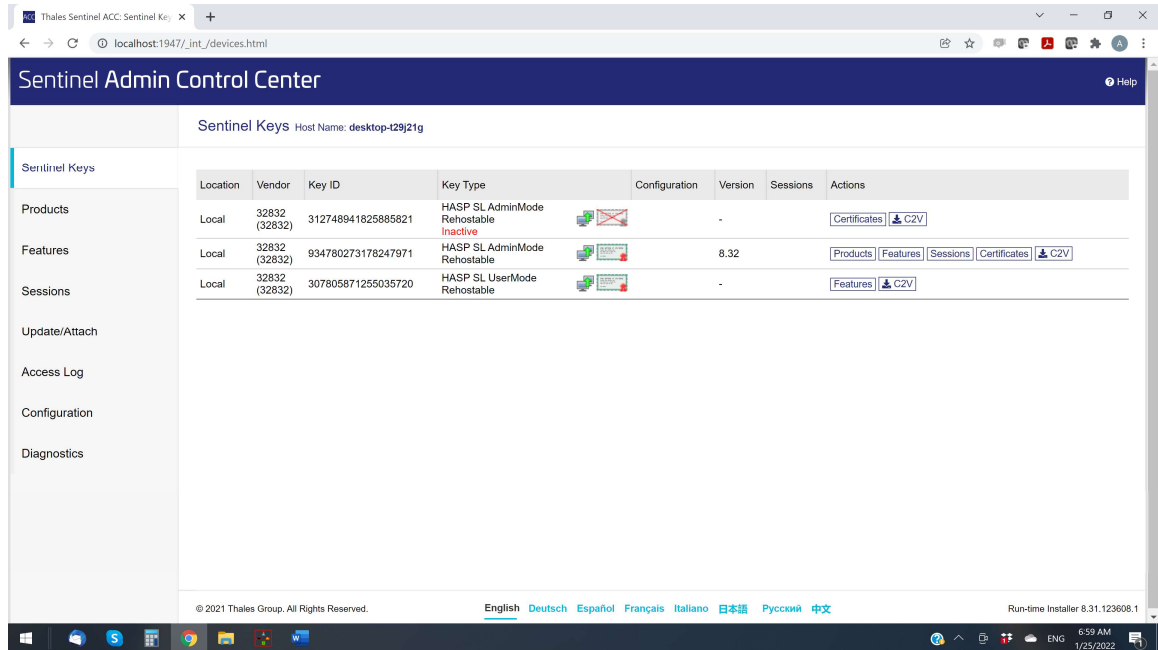
1. Ensure that METSIM® and the software key are installed on a server within the organization following the steps outlined above.
2. Ensure that METSIM® is installed on the end-user computer following the steps outlined above. Also, confirm that the end-user computer is connected to the organization's 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.