

# SysCAD Network ELM License Quick Start Guide

Step by step guide to setting up the Enterprise License Manager (ELM) for SysCAD Network license. This guide is for new installations or new servers.

## STEP ONE: DOWNLOAD AND INSTALL NETWORK LICENSE FILES

NOTE: Default Port used is 4758

On the License Server computer please perform the following steps as Administrator

- 1. Create a new folder for SysCAD Licensing: example: "SysCADLicenseServer".
- Folder must **NOT** be a subfolder of *Program Files*.
- Folder should be on a drive on the server.

	<< OS (C:) >	SysCADLicenseServer	~	ē		9	Se
^	Name	^		Date	e n	nodifie	ed
			This folder	is emp	oty		

- 2. Get copy of the server files. These can be obtained from two alternate locations:
  - i) located in a SysCAD installation on a **client** computer, in folder "\SysCADXXX\Setup\NetworkLicense\_Server".

> This PC > OS (C:) > SysC	CAD139 > Setup
Name	Туре
LicensingUtility	File folder
MS VC Redist	File folder
NetworkLicense_Client	File folder
NetworkLicense_Server	File folder
Notepad++	File folder
OPC Setup	File folder
ReactionEditor	File folder
Textpad	File folder
Readme.txt	Text Document

OR

ii) Download from (<u>https://www.syscad.net/login/</u>) Utilities section – LicenseManagementFiles. Extract files to temp folder. The required files are in the NetworkLicense\_Server folder.



S	ysCAD 9.3 Build 139
0	SysCAD 9.3 Build 139 Full Install
0	SysCAD 9.3 Software Update
0	SysCAD 9.3 Tutorial Documents
0	SysCAD 9.3 Basefiles and Example Projects
•	Utilities
• The	Utilities
• The	Utilities use files are included with the full install, but are available as separate downloads for your convenience and upgrade Reaction Editor Version 1.4: Full install for SysCAD Reaction Editor includes installation instructions – for use with SysCAD93 – January 2022
<ul> <li>The</li> <li>.</li> </ul>	Utilities use files are included with the full install, but are available as separate downloads for your convenience and upgrade Reaction Editor Version 1.4: Full install for SysCAD Reaction Editor includes installation instructions – for use with SysCAD93 – January 2022 License Utility Version 3: SysCAD licensing utility and Crypkey files for network (and stand alone) license management – May 2019
• The •	Utilities ese files are included with the full install, but are available as separate downloads for your convenience and upgrade Reaction Editor Version 1.4: Full install for SysCAD Reaction Editor includes installation instructions – for use with SysCAD93 – January 2022 License Utility Version 3: SysCAD licensing utility and Crypkey files for network (and stand alone) license management – May 2019 License Management Files Version 3: SysCAD licensing utility and Crypkey files for network (and stand alone) license management – May 2019
• The • •	Utilities ese files are included with the full install, but are available as separate downloads for your convenience and upgrade Reaction Editor Version 1.4: Full install for SysCAD Reaction Editor includes installation instructions – for use with SysCAD93 – January 2022 License Utility Version 3: SysCAD licensing utility and Crypkey files for network (and stand alone) license management – May 2019 License Management Files Version 3: SysCAD licensing utility and Crypkey files for network (and stand alone) license management – May 2019 Notepad++: Notepad++ Install file(Rev 8.4.2) – June 2022

- 3. Copy the files from NetworkLicense\_Server folder to folder created in Step 1.
- 4. Open folder created in Step 1.
- 5. Run **SetupEx.exe** this will start the Crypkey Service.

>	This PC > OS (C:) > SysCADLicen	seServer	~	Ģ
^	Name	Туре	Size	
	CKConfig.dll	Application exten	82	8 KB
	📧 cks.exe	Application	26	7 KB
	📄 crp32002.ngn	NGN File	1,50	9 KB
	💽 Enterprise License Manager.exe	Application	1,11	2 KB
	SetupEx.exe	Application	26	6 KB
	StartServer.exe	Application	48	4 KB
	StopServer.exe	Application	48	4 KB
	SYSCAD.ced	CED File	1	4 KB
	📓 SYSCAD.ces.ini	Configuration sett		1 KB
	🗊 syscad.exe	Application	1,82	4 KB

6. Please wait for the following screen to pop up



## STEP 2: ENTERPISE LICENSE MANAGER (ELM)

7. Run Enterprise License Manager.exe locally on the server

CKConfig.dll
🔳 cks.exe
crp32002.ngn
Enterprise License Manager.exe
📀 SetupEx.exe
setupex.xco
StartServer.exe
StopServer.exe
SYSCAD.ced
SYSCAD.ces.ini
🗊 syscad.exe

8. It should show **TCPIP** at bottom RHS of window.

Enterprise License Manager: SYSCAD.EXE		-	>	<
Edit View Actions Help				
Enterprise License Manager 8000				<
<			>	
Ready	SERVER	DISABLED	TCPIP	

### 9. Select the menu option Actions | Start Server.

💽 E	interpris	e License	Manager: SYSCAD.EXE			-		×
Edit	View	Actions	Help					
Ente	rorise Lie	Sta	rt Server					^
		Sto	p Server					
		Tra	nsfer License					
<		Sel	ect a License				,	. *
Activa	ite this s	Ma	nage Server Licenses	ransfer licenses	SERVER D	ISABLED	TCPIP	_



10. It will return a dialog indicating it's running.



11. Enterprise License Manager will show ENABLED

Enterprise License Manager: SYSCAD.EXE	— [		×
Edit View Actions Help			
Enterprise License Manager 8000			^
			~
<		3	>
Ready	SERVER ENABLED	TCPIF	

#### 12. Select Actions | Manage Server Licenses,

🚳 E	Interpris	se License	Manager: SYSCAD.EXE	- [	) <b>&gt;</b>	<
Edit	View	Actions	Help			
Ente	rprise Li	Sta	rt Server	1		^
		Sto	ip Server			
		Tra	nsfer License			
<		Sel	ect a License		>	× 1
		Ma	inage Server Licenses	SERVER ENABLED	TCPIP	

13. Click the IP Address. **Make a note of the IP Address** as this address is required when configuring the Client



Enterprise License Manager: SYSCAD.EXE Edit View Actions Help			_ □	×
Enterprise License Manager: Initialize License		Module N	umber: 0	
Select a Server from the list		 		
1192.168.50.85:4758				
	Site Key:			
			Validate	
	Status			
			ОК	
eady.				

## 14. A Site Code will now be displayed on the right

Enterprise License Manager: SYSCAD.EXE		_	×
Edit View Actions Help			
Enterprise License Manager: Initialize License		Module Number: 0	^
Select a Server from the list	License Location: 192.168.50.85:4758	1	
1192.168.50.85:4758	Site Code: 9788 0C27 891B B2D2 56		
	Site Key:		
		Validate	
	Status		
	Checking License Status AUTHORIZATION NOT PRESENT		~
Ready		SERVER ENABLED	TCPIP //

15. Highlight Site Code, Right Click and select Copy



Undo	
Cut	
Сору	
Paste	
Delete	
Select All	
Right to left Reading order	
Show Unicode control characters	
Insert Unicode control character	>

- 16. Paste Site Code into an email and send email to License@syscad.net
- 17. Within one business day you will receive a Site Key back from SysCAD License
- 18. Copy the Site Key from the email, select the Site Key box in ELM, Right Click and select Paste.

Undo					
Cut					
Сору					
Paste					
Delete					
Select All					
Right to left Reading order					
Show Unicode control characte	ers				
Insert Unicode control characte	er	>			
Open IME					
Reconversion					
Enterprise License Manager: SYSCAD.EXE			_		1
Edit View Actions Help					
Enterprise License Manager: Initialize License			Module Number: 0	^	
Select a Server from the list	Site Coder	License Location: 192.168.1.85:4758	,		
\\192.168.1.85:4758	Site Code,	FAD9 BIA6 A005 99A5 FD			
	Site Key:	5E44 0491 D348 F668 FB9D 0A43 56			
			Valida	ite	1
	Status				
	Checking Li AUTHORIZ	icense Status ATION NOT PRESENT			
				~	
Ready			SERVER ENABLED	TCPIP	
10 Deces the D(elistent butters				1.6111 //	4

19. Press the 'Validate' button



Enterprise License Manager: SYSCAD.EXE				_		X
Edit View Actions Help						
Enterprise License Manager: Initialize License Select a Server from the list \\192.168.1.85:4758	Site Code: Site Key:	License Location: 192.168.1.85:4758 FAB9 B 1A8 A605 99A5 FB SE44 0491 D348 F668 FB9D 0A43 56	Module Number:	0 Valida	te	
<	Status Checking L AUTHORIZ	icense Status ZATION NOT PRESENT				
Ready			SERVER ENA	BLED	TCPIP	_

20. After clicking **Validate** the ELM screen will look like this. Note the following:

- a. Program has a valid license
- b. Days left: this is how many days the license is valid for
- c. Users: number of users that can access the license simultaneously
- d. The Site Code has changed. This is normal behaviour.

Enterprise License Manager: SYSCAD.EXE Edit View Actions Help			-	×
Enterprise License Manager: Initialize License Select a Server from the list \\192.168.1.86:4758	Site Code: Site Key: Saving lice Done Checking I Program H Days licen Days licen Days licen Days licen Network t	License Location: 192.168.1.86:4758 DE8B 7140 2DFF ACDD DF C864 9646 3B64 7858 6AC2 8B0A B7 C864 9646 3B64 7858 6AC2 8B0A B7 c864 9646 3B64 7858 c864 70 c97 c864 9646 c97	Module Number: 0	
Peady	,			
Incouy			JERVER ENABLED TOPIP	/

- 21. Close Enterprise License Manager.
- 22. Recommended: Add a call to StartServer.exe in machine startup script.



## **STEP 3: CLIENT (USER) SIDE**

A network connection is required to connect to the license server. Download SysCAD from <u>www.syscad.net/login</u>

#### **On first Client Computer**

- 23. Install SysCAD.
- 24. Create a folder for the client side license management, for example "SysCADNetworkLicense". This folder must NOT be under Program Files.



- 25. Get copy of the client files. These can be obtained from two alternate locations:
  - i) located in SysCAD installation on client computer, in folder "\SysCADXXX\Setup\NetworkLicense\_Client".

→ This PC → OS (C:) → Sys	sCAD139 > Setup
Name	Туре
LicensingUtility	File folder
MS VC Redist	File folder
NetworkLicense_Client	File folder
NetworkLicense_Server	File folder
Notepad++	File folder
OPC Setup	File folder
ReactionEditor	File folder
Textpad	File folder
📄 Readme.txt	Text Document

OR

 Download from (<u>https://www.syscad.net/login/</u>) Utilities section – LicenseManagementFiles.
 Extract files to temp folder. The required files are in the NetworkLicense\_Client folder.





- 26. Copy the files from NetworkLicense\_Client to folder created in Step 24.
- 27. Open folder created in Step 24.
- 28. With a text editor (eg notepad) open the **syscad.cec.ini** file.

	→ This PC → OS (C:) → SysCAD	NetworkLicense	~	Ģ
^	Name	Туре	Size	
	🗟 CKConfig.dll	Application exten	828	3 KB
	📧 CKS.exe	Application	267	7 KB
	🚳 ClientLicenseConfig.exe	Application	188	3 KB
	Crp32002.ngn	NGN File	1,509	9 KB
	🔇 SetupEx.exe	Application	266	5 KB
	📓 syscad.cec.ini	Configuration sett	1	1 KB
	SYSCAD.ced	CED File	14	4 KB
	🗊 syscad.exe	Application	1,824	4 KB

- i) Change "PUT\_THE\_SERVER\_NAME\_HERE" to the server IP address which was noted when setting up the server side (step 13).
- ii) Default Port is 4758, if an alternative port is being used the port number must follow the IP address separated with a ':'. (example 192.168.1.19:4200).
- iii) Under [GENERAL] ensure there is an entry "TCPIP=Enabled".
- iv) Save and exit.



This file controls what clients the server can accent
Notas:
This file is best created with ClientLicenseConfig.exe
1. All names are limited to 40 characters
2. Excludes take priority over includes
3. It doesn't matter what the text is before the = sign (except under GENERAL)
4. All names are case insensitive
5. To accept everything, put D1=ALL under domain
6. If General/Status is anything but 'Enabled':
the program will start up with Enterprise Server features disabled
If the process was started with Status Disabled, it will shut down
within 15 seconds, even if clients are open
[GENERAL]
STATUS=Enabled
TCPIP=Enabled
[INCLUDED DOMAINS]
DI=NOT_APPLICABLE Input IP Address from
ELM Here
[INCLUDED MACHINES]
DI=PUT_THE_SERVER_NAME_HERE

29. To test if it is working correctly, run the SysCAD License Utility (syscad.exe) located in folder created in Step 24.

>	> This PC → OS (C:) → SysCADNetworkLicense			Q
^	Name	Туре	Size	
	CKConfig.dll	Application exten	828	3 KB
	CKS.exe	Application	267	7 KB
	🚳 ClientLicenseConfig.exe	Application	188	3 KB
	📄 crp32002.ngn	NGN File	1,509	9 KB
	🔇 SetupEx.exe	Application	266	5 KB
	📓 syscad.cec.ini	Configuration sett	1	1 KB
	SYSCAD.ced	CED File	14	4 KB
	🗊 syscad.exe	Application	1,824	4 KB

30. It should start and retrieve a license from the server.

SysCAD License Utility X		
C:\SysCADNetworkLicense Version 3.0.0.20056 License expires in 7 days Copies allowed:2 Multiple use Startup Timer:2.22 (2.00+0.2)	ers allowed:2 2)	
License Authorisation Check		
License Information	ОК	
More License Options	Cancel	



- 31. Close the SysCAD license utility to release the license.
- 32. Run SysCAD Application.
- 33. Select the License\License Location menu command.

💋 SysCAD 9.3 Build 139.31866	
Project Edit View Species Tools	License Window Help
1 🚔 🖉 📷 🖋 📰 🤱 🔊	License Location
	License Authorisation
	License Information
	License Transfer >
	Network Users
	Kill Current License

34. Press the **Browse** button and select the **client** network license folder created and tested above on the **client computer**.

License Location		×
Location	Browse	ОК
C:\SysCAD139\License\		Cancel

35. Select syscad.exe in the Network license folder and press the Open button.

		> This PC $$ >	OS (C:) → SysCA	DNetworkLicense	2
	Ne	w folder			
	^	Name	^	~	
		🗊 syscad.e	xe		
License	Loc	ation			×
Locatio	on			Browse	OK
C:\Sys	CAD	NetworkLicense	N I I I I I I I I I I I I I I I I I I I		Cancel

36. Press the OK button. If asked to set license to new location, press the Yes button.



SysCAD 1	139.31866	$\times$
?	Valid License not found at new location (or license software error):	
	Set license to new location anyway?	
	Old location : C:\SysCAD139\License\ New location : C:\SysCAD139\SysCADNetworkLicense\	
	Yes No	

37. Exit and restart SysCAD. If all is still well, then the SysCAD application should retrieve the license from the server.

SysCAD 9.3 Build 139.31866				
Project Edit View Species Tools License Window Help				
** 🚔 🖼 🖋 📰 🤱 🗴 📍				
Messages 0 / 1 / 1				
🕼 General Message Log:2 🗸 🕴 Solver Conditions V 🖉 Range Check Conditions V 🖯 Species Database V 🗹 Setting Va				
ID	Source	Message		
<b>1</b>	Version	SysCAD 9.3 Build:139.31866 (Oct 26 2022)		
<u>∧</u> 2	License	License (ProBal) expires in 7 days. [Multi-User Network License at C:\SysCAD139\SysCADNetworkLice	nse\]	

38. The correctly configured **syscad.cec.ini** file can now be copied and rolled out to all client PCs for all users.

## **STEP 4 SUBSEQUENT CLIENT COMPUTERS**

- 39. Repeat Steps 23-27.
- 40. Copy **syscad.cec.ini** file edited in step 38 to Client Network folder created in Step 24.
- 41. Repeat Steps 32-37.