# SysCAD Network ELM License Quick Start Guide

Step by step guide to setting up the Enterprise License Manager (ELM) for SysCAD Network license. For more detailed information, please refer to **SysCAD Network ELM License Guide**. 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 under Program Files.
- Folder should be on a drive on the server.
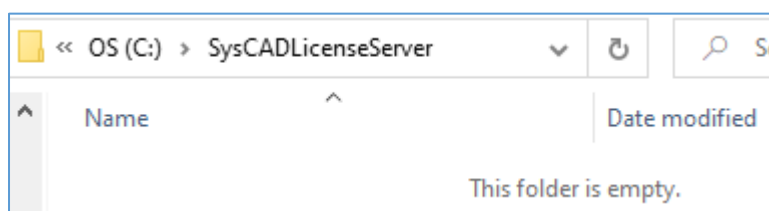
2. Get copy of the server files. These can be obtained from two alternate locations:
   i) located in a SysCAD installation on a **client** computer, in folder "\SysCADXXX\Setup\NetworkLicense_Server".
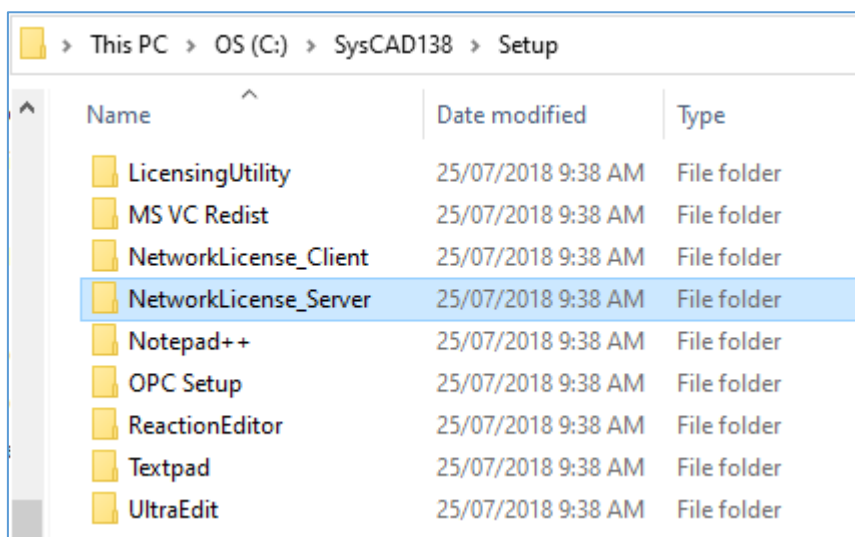
   OR
   ii) Download from (https://www.syscad.net/login/) Utilities section – LicenseManagementFiles.
   Extract files to temp folder. The required files are in the NetworkLicense_Server folder.

SysCAD 9.3 Build 138 - NEW Released June 2019

+ SysCAD 9.3 Full Install

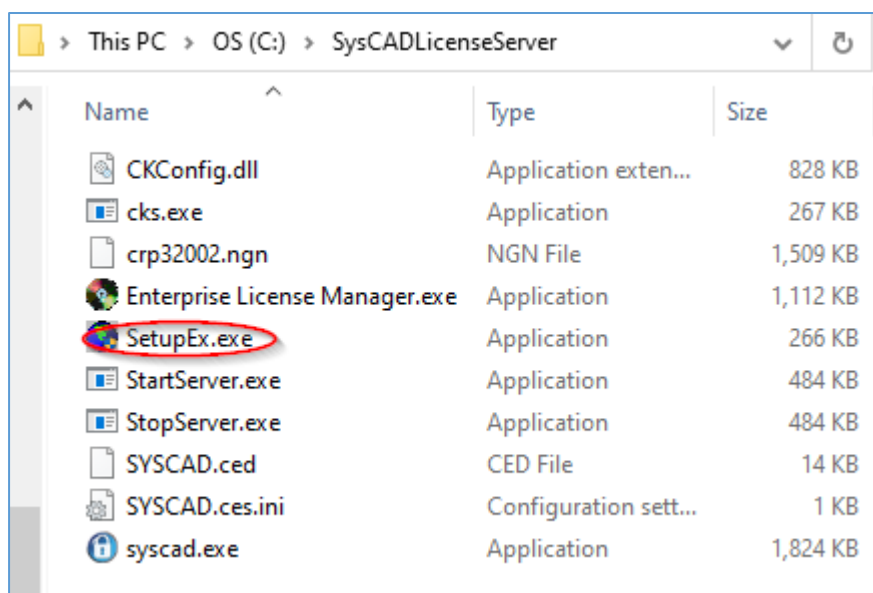+ SysCAD 9.3 Software Update

+ SysCAD 9.3 Tutorial Documents

+ SysCAD 9.3 Basefiles and Example Projects

− **Utilities**
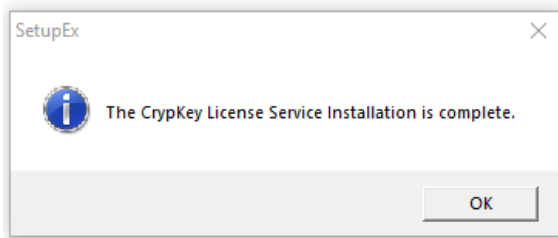
These files are included with the full install, but are available as separate downloads for your convenience and upgrade

- Reaction Editor Version 1.3: Full install for SysCAD Reaction Editor includes installation instructions – for use with SysCAD92 and SysCAD93 – August 2017
- 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 7.6.6) – April 2019
- SysCAD Notepad++ Files: SysCAD Customisation Files for Notepad++ (Rev 7.6.6) – April 2019

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:) > SysCADLicenseServer

| Name	Type	Size
CKConfig.dll	Application exten…	828 KB
cks.exe	Application	267 KB
crp32002.ngn	NGN File	1,509 KB
Enterprise License Manager.exe	Application	1,112 KB
SetupEx.exe	Application	266 KB
StartServer.exe	Application	484 KB
StopServer.exe	Application	484 KB
SYSCAD.ced	CED File	14 KB
SYSCAD.ces.ini	Configuration sett…	1 KB
syscad.exe	Application	1,824 KB

6. Please wait for the following screen to pop up

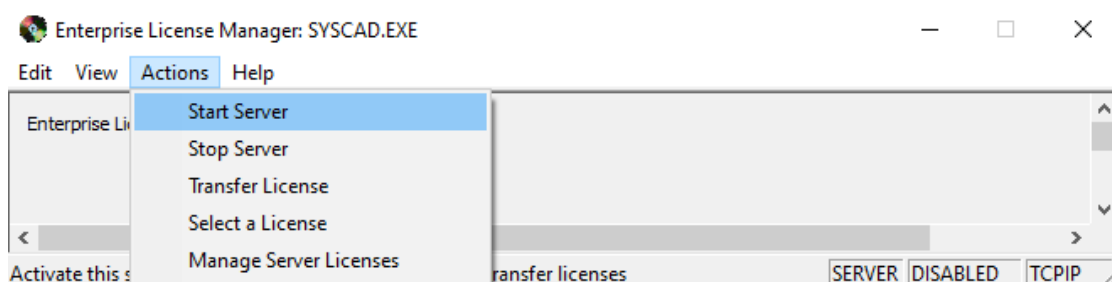## STEP 2: ENTERPISE LICENSE MANAGER (ELM)

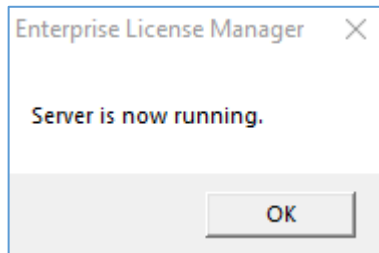7. Run Enterprise License Manager.exe locally on the server
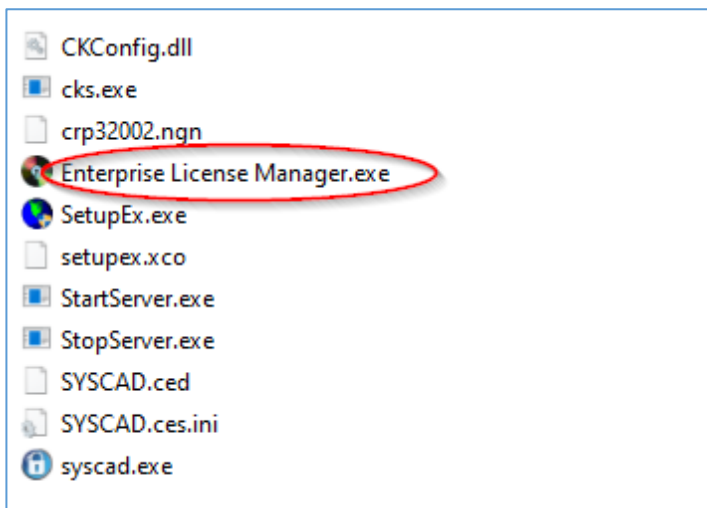
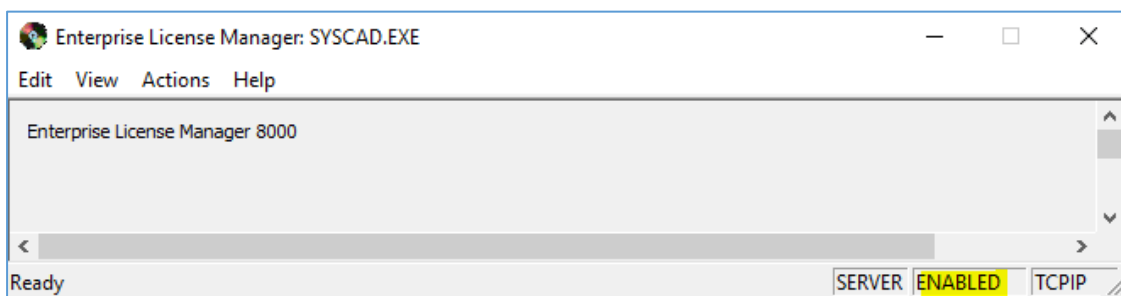8. It should show **TCPIP** at bottom RHS of window.
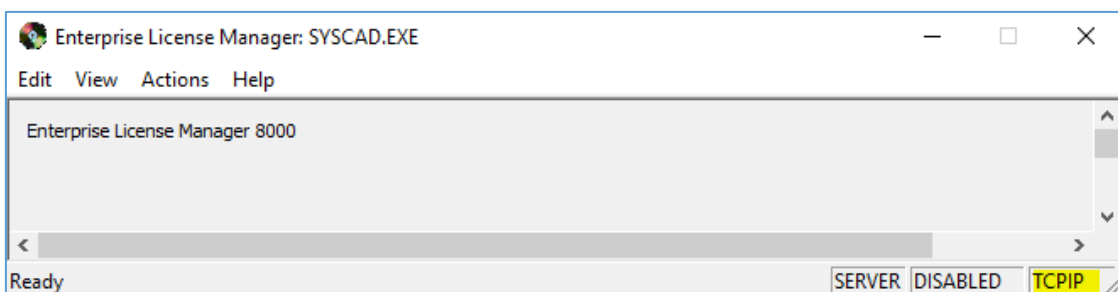
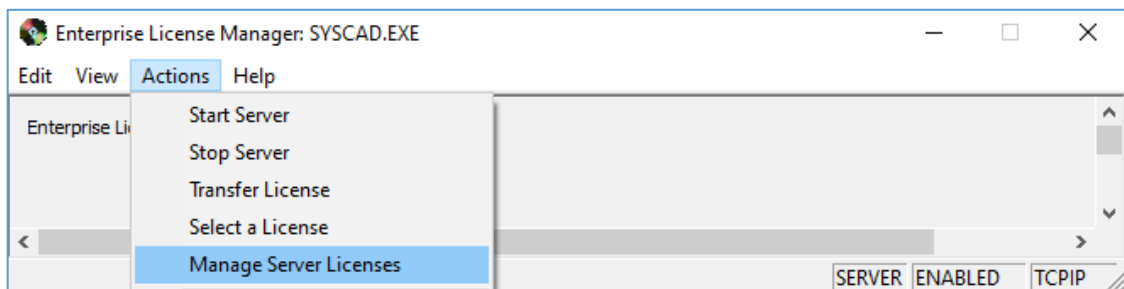9. Select the menu option **Actions | Start Server**.

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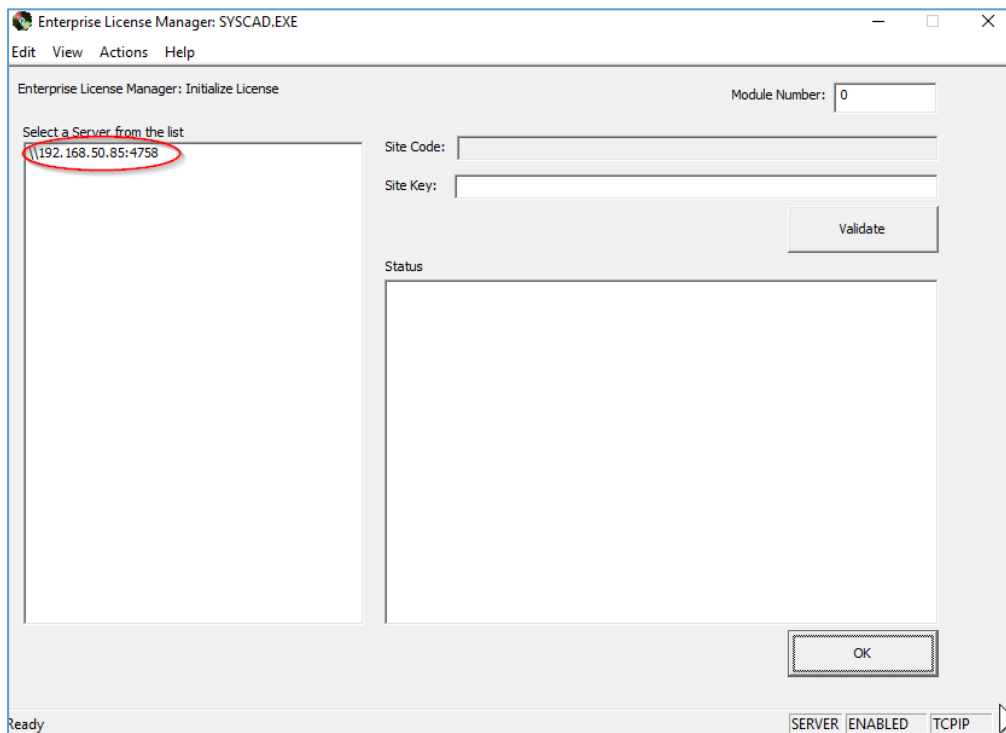

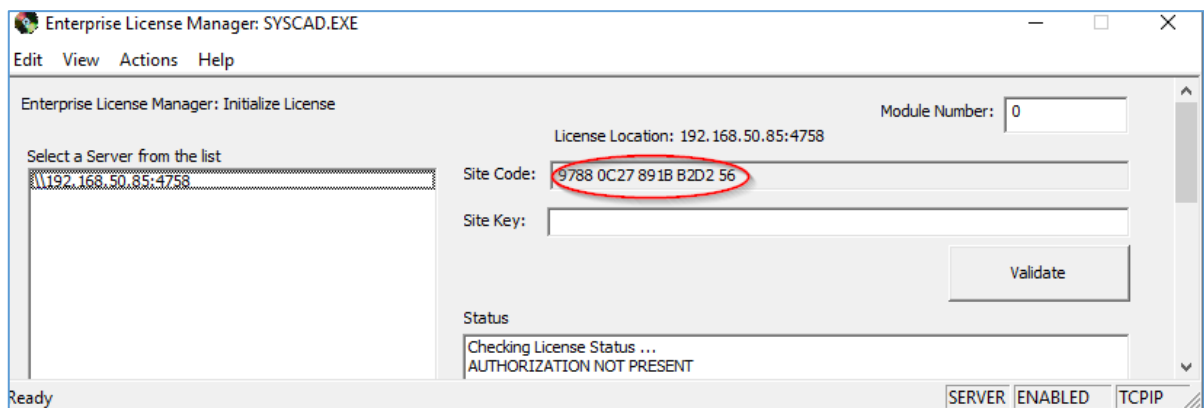11. Enterprise License Manager will show ENABLED

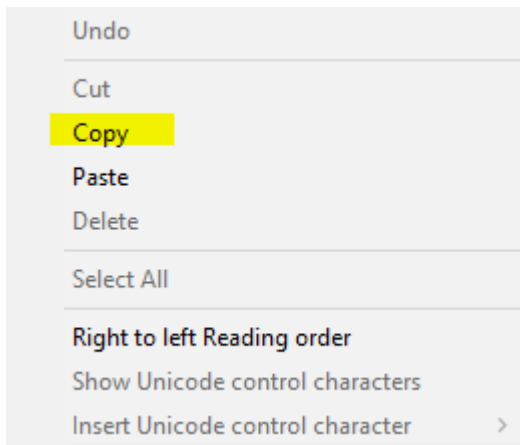

12. Select **Actions | Manage Server Licenses**,

13. Click the IP Address. **Make a note of the IP Address** as this address is required when configuring the Client
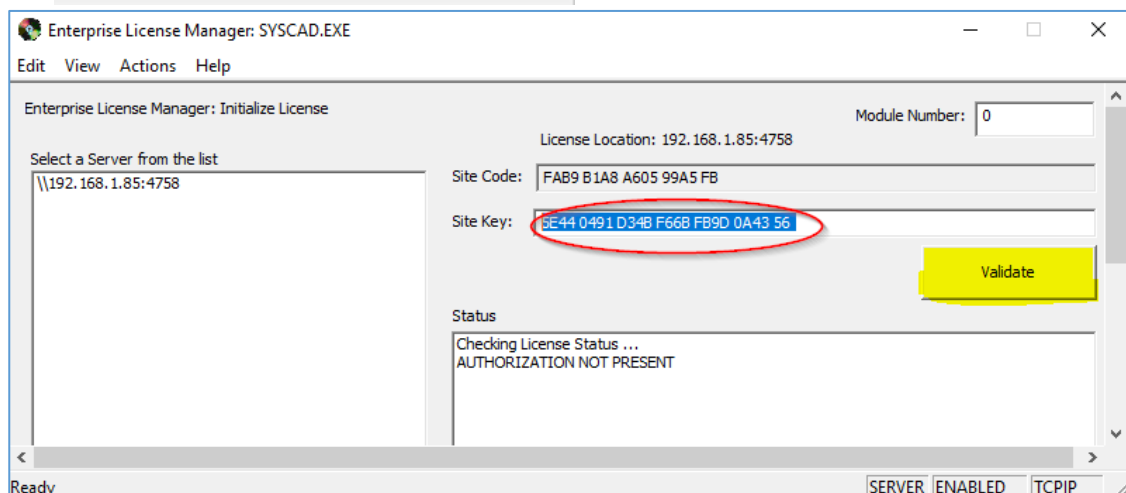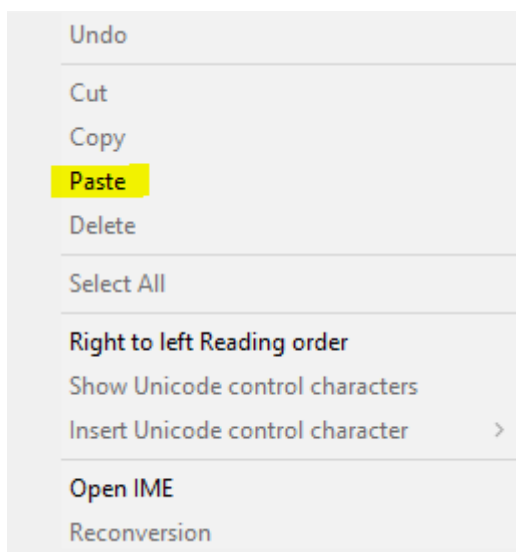
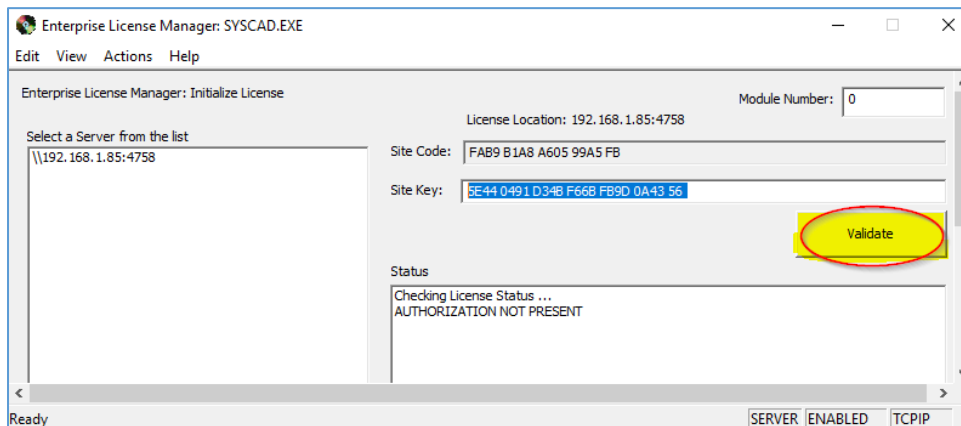14. A Site Code will now be displayed on the right

15. Highlight Site Code, Right Click and select Copy

Undo

Cut

Copy

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

Copy

Paste

Delete

Select All

Right to left Reading order

Show Unicode control characters

Insert Unicode control character   >

Open IME

Reconversion

Enterprise License Manager: SYSCAD.EXE   —   □   ×

Edit   View   Actions   Help

Enterprise License Manager: Initialize License   Module Number: | 0 |

License Location: 192.168.1.85:4758

Select a Server from the list

\\192.168.1.85:4758

Site Code: | FAB9 B1A8 A605 99A5 FB |

Site Key: | 5E44 0491 D34B F66B FB9D 0A43 56 |

Validate

Status

Checking License Status ...
AUTHORIZATION NOT PRESENT

Ready   SERVER ENABLED   TCPIP

19. Press the 'Validate' button

20. After clicking OK 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
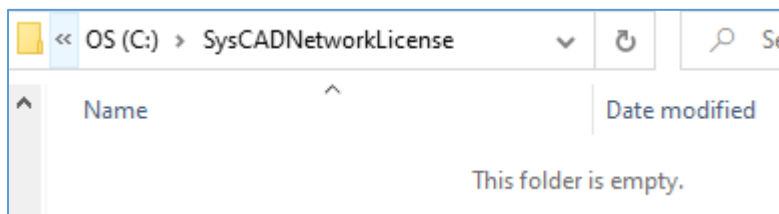   d. The Site Code has changed. This is normal behaviour.
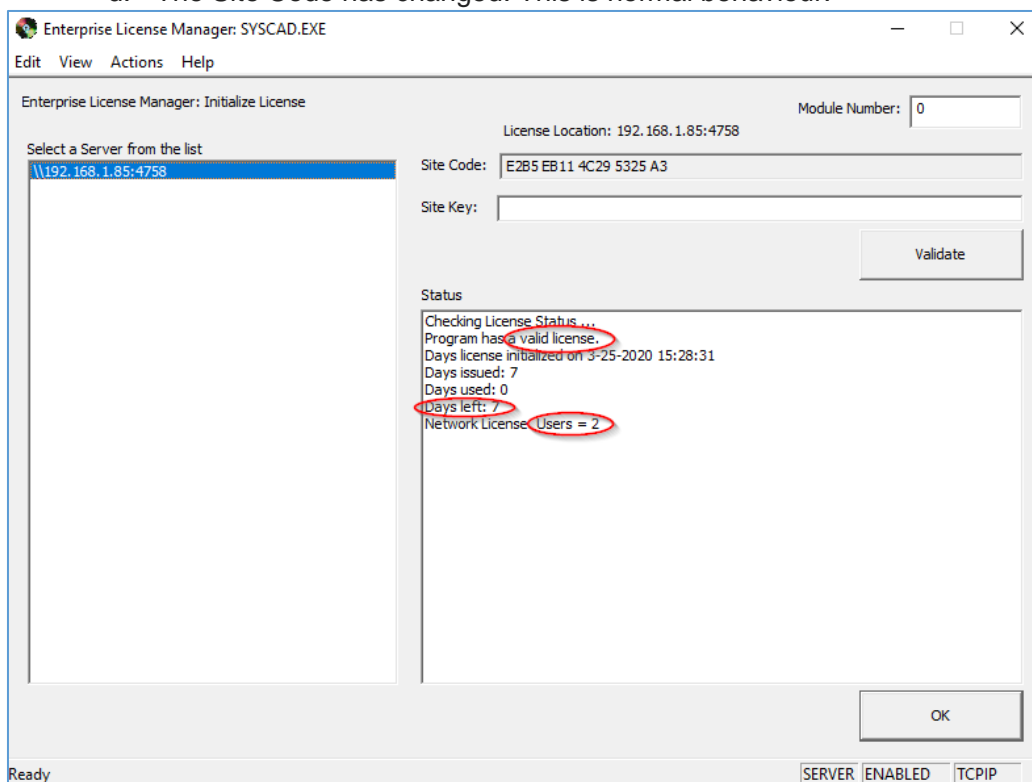
21. Close Enterprise License Manager.
22. Recommended: Add a call to StartServer.exe in machine startup script.

STEP 3: CLIENT (USER) SIDE

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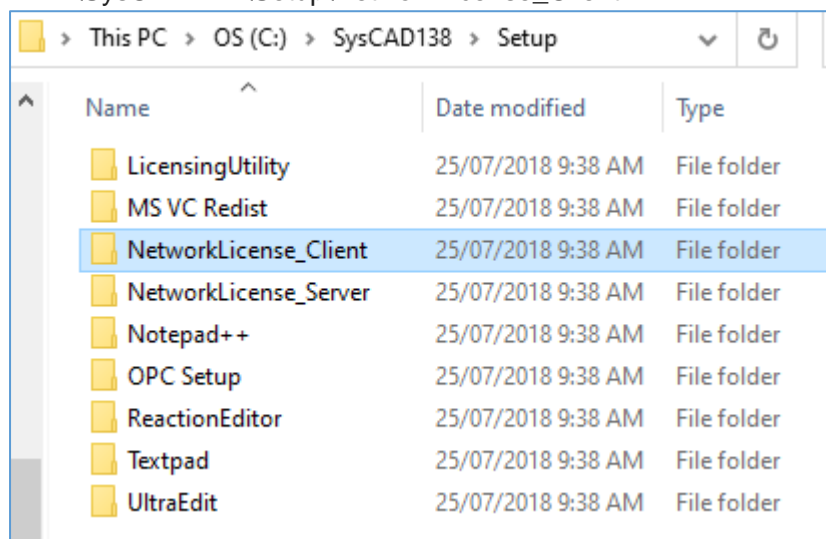Download SysCAD from www.syscad.net/login

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".

    OR
    ii)   Download from (https://www.syscad.net/login/) Utilities section – LicenseManagementFiles.
Extract files to temp folder. The required files are in the NetworkLicense_Client folder.

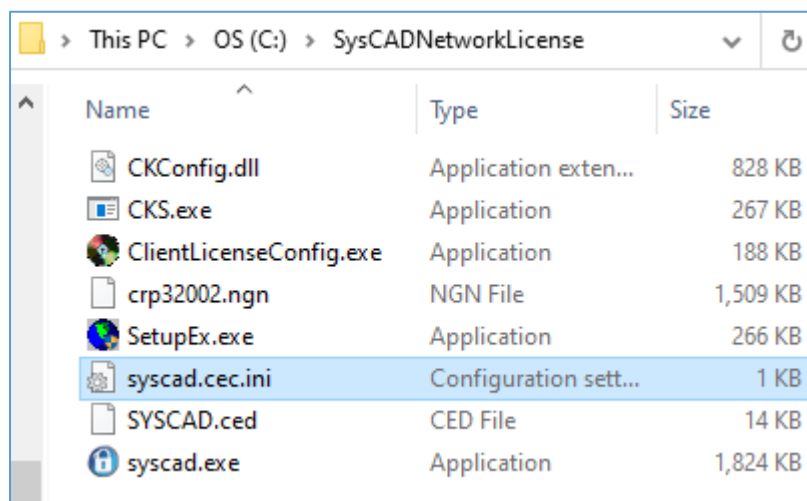26. Copy the files from NetworkLicense_Client to folder created in Step 24.
27. Open folder created in Step 24.
28. With a text editor (eg notepad) open the **syscad.cec.ini** file.

   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)   Save and exit.

```
This file controls what clients the server can accept.
Notes:

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]
D1=NOT_APPLICABLE                        Input IP Address from
                                              ELM Here
[INCLUDED_MACHINES]
D1=PUT_THE_SERVER_NAME_HERE
```
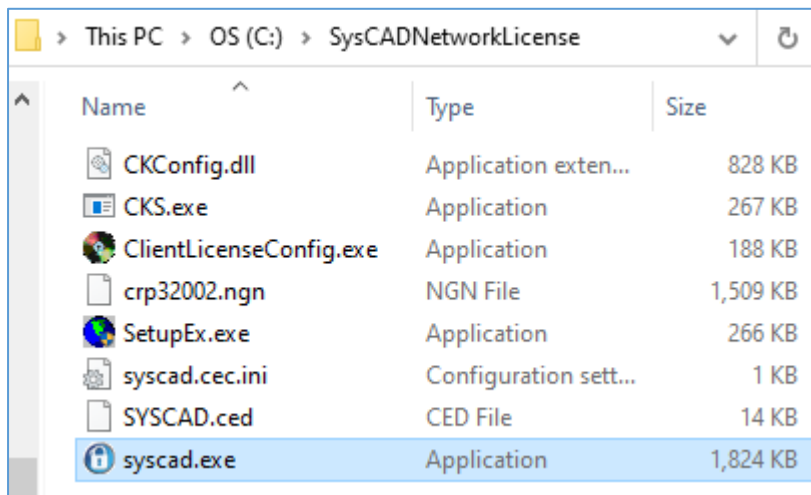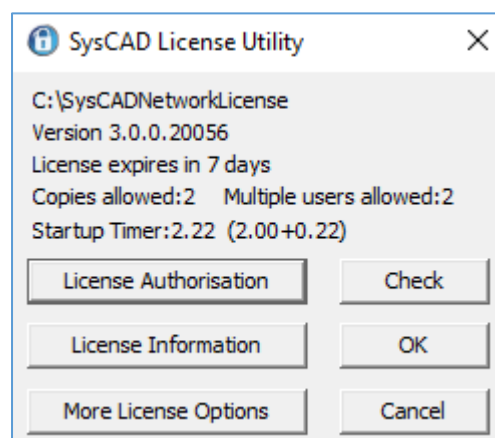
29. To test if it is working correctly, run the SysCAD License Utility (syscad.exe) located in folder created in Step 24.

Name	Type	Size
CKConfig.dll	Application exten...	828 KB
CKS.exe	Application	267 KB
ClientLicenseConfig.exe	Application	188 KB
crp32002.ngn	NGN File	1,509 KB
SetupEx.exe	Application	266 KB
syscad.cec.ini	Configuration sett...	1 KB
SYSCAD.ced	CED File	14 KB
syscad.exe	Application	1,824 KB

This PC > OS (C:) > SysCADNetworkLicense

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

SysCAD License Utility

C:\SysCADNetworkLicense
Version 3.0.0.20056
License expires in 7 days
Copies allowed:2   Multiple users allowed:2
Startup Timer:2.22 (2.00+0.22)

License Authorisation	Check
License Information	OK
More License Options	Cancel

31. Close the SysCAD license utility to release the license.
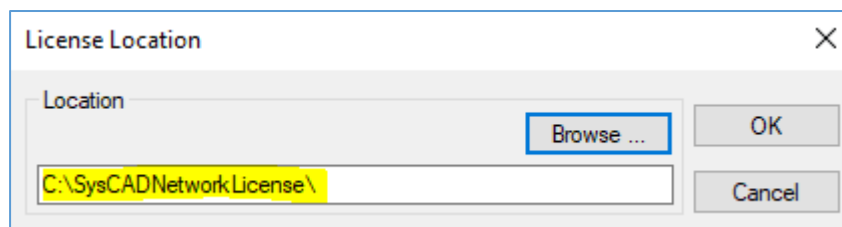32. Run SysCAD Application.
33. Select the License\License Location menu command.
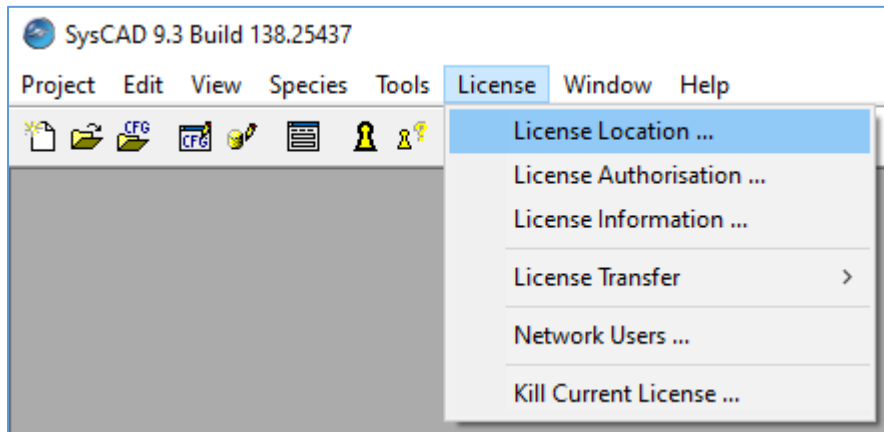
34. Press the **Browse** button and select the **client** network license folder created and tested above on the **client computer**.
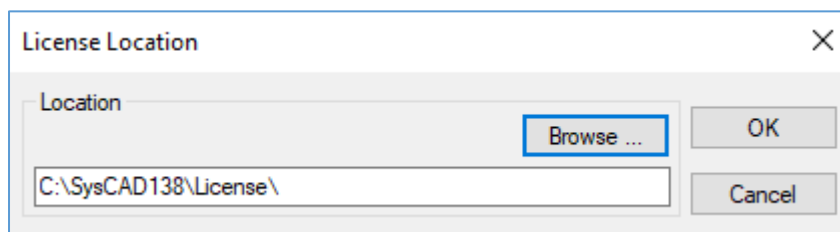
35. Select syscad.exe in the Network license folder and press the Open button.
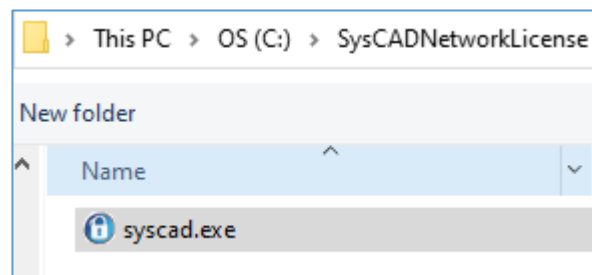
36. Press the OK button. If asked to set license to new location, press the Yes button.

SysCAD 138.26168   ✕
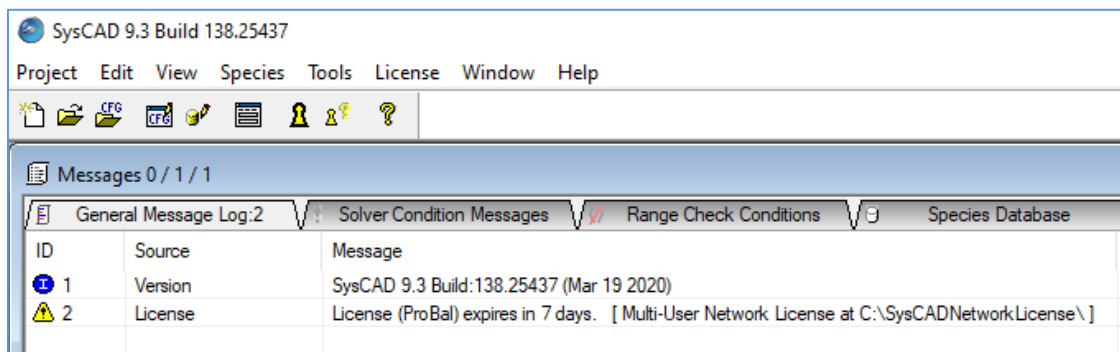
(?) Valid License not found at new location (or license software
     error):

     Set license to new location anyway?

     Old location : C:\SysCAD138\License - Copy\
     New location : C:\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 138.25437

Project   Edit   View   Species   Tools   License   Window   Help

Messages 0 / 1 / 1

| | General Message Log:2 | | Solver Condition Messages | | Range Check Conditions | | Species Database |

ID	Source	Message
ⓘ 1	Version	SysCAD 9.3 Build:138.25437 (Mar 19 2020)
⚠ 2	License	License (ProBal) expires in 7 days. [Multi-User Network License at C:\SysCADNetworkLicense\ ]

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 copied in step 38 to Client Network folder created in Step
    24.

41. Repeat Steps 32-37.