



CADfix Installation Guide for Windows

CADfix 14

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1 Understanding your CADfix purchase

Your CADfix license will be one of the following types:

- Evaluation
- Single node-locked
- Network (floating), or multiple node-locked

Other installation configurations are available, and CADfix support can provide more advice if needed.

Within this document, each of these license types is colour-coded (as above) to help with the identification of the relevant information.

Evaluation

This installation uses a local license file that is time-limited. It does not require any licensing services, so only CADfix needs to be installed. Evaluation licenses do not normally allow remote access, but this license can be installed on multiple computers.

Single node-locked

A node-locked installation is locked to a specific computer, which is identified by its host ID (MAC address). Both the CADfix application and the license services are usually installed on the same computer.

Where a purchase includes multiple node-locked seats, the installation can follow the 'Network (floating), or multiple node-locked' procedure. This allows all the CADfix installations to share a single license server.

Network (floating), or multiple node-locked

A floating CADfix license will run only on a specifically defined range of computers. The allowable range should be discussed with the CADfix sales team before the purchase, and will be categorised as LAN, WAN, RWAN, or WWAN depending on the locations of required users. Each allowable computer within this range will be identified using one of the following options (or a combination):

IP address range:	126.10.10.*
IP address list:	126.10.10.5 126.10.10.6 126.10.10.7
MAC address list:	48ad3f56ffcb a93b2f2dd9ab e8ff3ba826c0

2 Quick installation guide

2.1 Evaluation

Preparation

- a)  **Request an 'Evaluation' license file.**

Usually supplied via your CADfix sales representative by email.

Or:

Americas customers - email works_supp@iti-global.com

Non-American customers - email eukeys@iti-global.com

- b)  **Download CADfix**

The latest download link is supplied in the license file email that was sent to you - Download the 'Installer' package.

A 'Zip file' installation is also available for download (not covered in this installation document).

Installing CADfix and the license

- c)  **Install CADfix**

Run the downloaded installer program – See [Installing CADfix](#)

- d)  **Copy your license file into “..\CADfix 14 DX\lic”**

When received from ITI, copy the license file into the CADfix lic folder.

e.g. “C:\Program Files\CADfix 14 DX\lic” – See [Local license file](#)

- e)  **Run CADfix**

Double-click on the desktop icon, or run the “startCADfix.bat” script in the CADfix installation folder

e.g. “C:\Program Files\CADfix 14 DX\ startCADfix.bat”

2.2 Node-locked (single) installation

For this type of installation, the client workstation and license server are usually the same computer. If the license is to be installed on another computer, or multiple node-locked installations are to share a license server, follow the instructions for a Network installation (below).

Preparation

- a)  **Request a 'Node-locked' license file.**
Americas customers - email works_supp@iti-global.com
Non-American customers - email eukeys@iti-global.com
Or via your CADfix sales representative.

To create the license file, the ITI support team will need to know:

- CADfix license server's network name.
- CADfix workstation(s) Host ID – See [Managing the license and services](#)

- b)  **Download CADfix**

The latest download link is supplied in the license file email that was sent to you - Download the 'Installer' package.

A 'Zip file' installation is also available for download (not covered in this installation document).

Installing CADfix and the license

- c)  **Install CADfix**
Run the downloaded installation program – See [Installing CADfix](#)
- d)  **Copy your license file into “..\CADfix 14 DX\lic”**
When received from ITI, copy the license file into the CADfix lic folder.
e.g. “C:\Program Files\CADfix 14 DX\lic” – See [Managing the license and services](#)
- e)  **Install FlexNet services**
See [Configuring the license manager](#).
- f)  **Run CADfix**
Double-click on the desktop icon, or run the “startCADfix.bat” script in the CADfix installation folder
e.g. “C:\Program Files\CADfix 14 DX\ startCADfix.bat”

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2.3 Network installation – for floating or multi-node locked

This installation allows the CADfix workstation(s) to fetch licenses from a shared license server.

Preparation

a) **Request a license file.**

Usually supplied via your CADfix sales representative by email.

Or:

Americas customers - email works_supp@iti-global.com

Non-American customers - email eukeys@iti-global.com

To create the license file, the ITI support team will need to know:

- CADfix license server network name or IP address
- CADfix license server MAC address
- CADfix workstation IP address list/range, or MAC address list.
(If a 'multiple node-locked installation', then this must be a MAC address list).

b) **Download CADfix**

The latest download link is supplied in the license file email that was sent to you - Download the 'Installer' package.

A 'Zip file' installation is also available for download (not covered in this installation document).

Install the CADfix license server.

c) Download and install the CADfix license server software onto the license server **or** copy a lic folder from an existing CADfix client installation. - Download the license server only from www.cadfix.eu/14LIC/

d) **Copy your license file into “..\CADfix DX 14\lic”**

When received from ITI, copy the license file into the CADfix lic folder.

e.g. “C:\Program Files\CADfix DX 14\lic” – See [Installing the license service](#)

e) **Install FlexNet services**

For detailed instructions about installing the FlexNet services, see [Configuring the license manager](#)

Install CADfix on client workstations

f) **Install CADfix**

Run the downloaded installer program – See [Installing CADfix](#)

g) **Link CADfix to the license server** – See [Linking CADfix to the license](#)

h) **Run CADfix**

Double-click on the desktop icon, or run the “startCADfix.bat” script in the CADfix installation folder
e.g. “C:\Program Files\CADfix 14 DX\ startCADfix.bat”

Public

3 Installing CADfix

The link on the CADfix download page will provide a Windows installation executable specific to the CADfix type and version you are downloading. The exact name of this installer will change depending on the type and version of CADfix being installed, e.g. *CADfix_DX_14_WINNTx64.msi*

Note: *The example images shown below are generic. Installing a specific CADfix product will use the same installation screens but may have different version numbers and installation locations.*

1) Double-click on the downloaded installation file to start the installation process.

2) The Welcome screen is displayed:

- a) **'Next'** continues with the installation process.
- b) **'Cancel'** will stop the installation process.



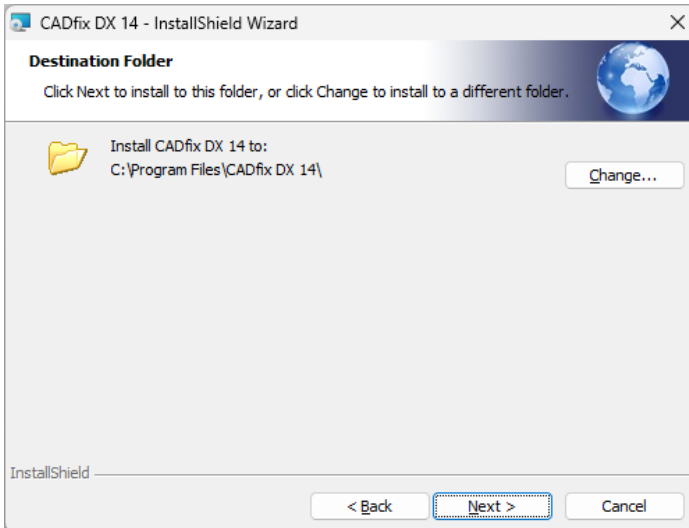
3) The CADfix Software License Agreement is displayed. Review this carefully to ensure your use of CADfix adheres to the license you have purchased.



- **Select 'I accept the terms in the license agreement'** to acknowledge you have read and understand the agreement.
 - If you have any questions about the agreement or are worried that it does not reflect your intended use of the software, contact your reseller to discuss this further.
- a) **'Back'** returns to the 'Welcome' screen.
 - b) **'Next'** continues with the installation process.
 - c) **'Cancel'** will stop the installation process.

Public

4) The default installation location is shown:

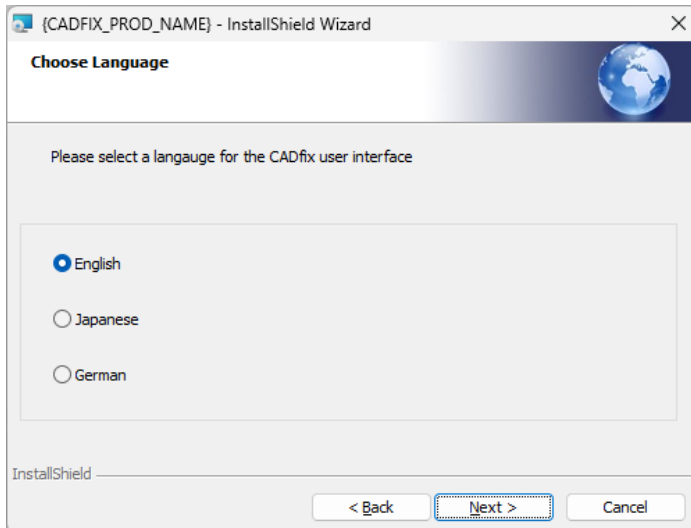


- a) 'Change...' allows CADfix to be installed at a different location.
- b) 'Back' returns to the 'Software License Agreement' screen.
- c) **'Next' continues with the installation process.**
- d) 'Cancel' will stop the installation process.

5) The default language for the CADfix interface is shown.

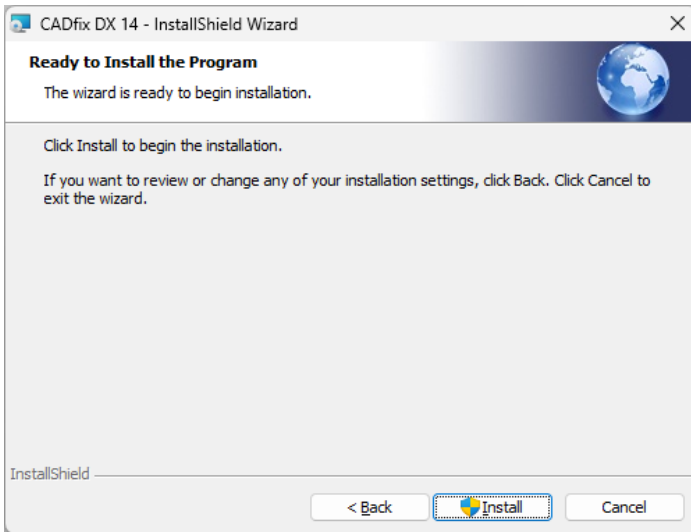
Note that this selection does not affect the language used during the installation.

Speak to CADfix support if you need to change the language after the installation has completed.

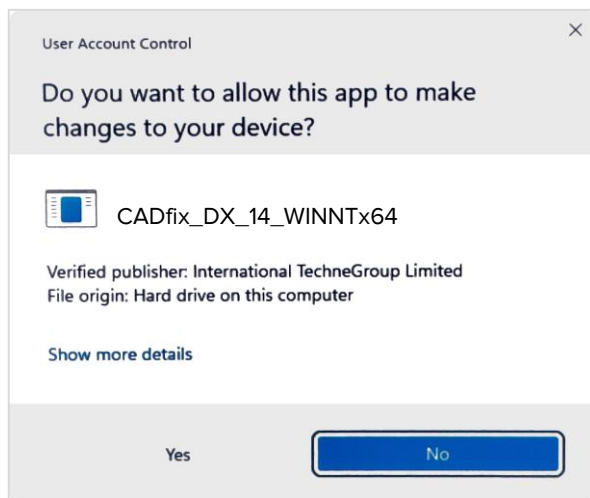


- Select the language you want to use in the CADfix interface.
- a) 'Back' returns to the 'Choose Destination Location' screen.
- b) **'Next' continues the installation and sets the default language as specified.**
- c) 'Cancel' will stop the installation process.

- 6) The 'Ready to install' screen provides a last opportunity to change the settings before the installation process starts:

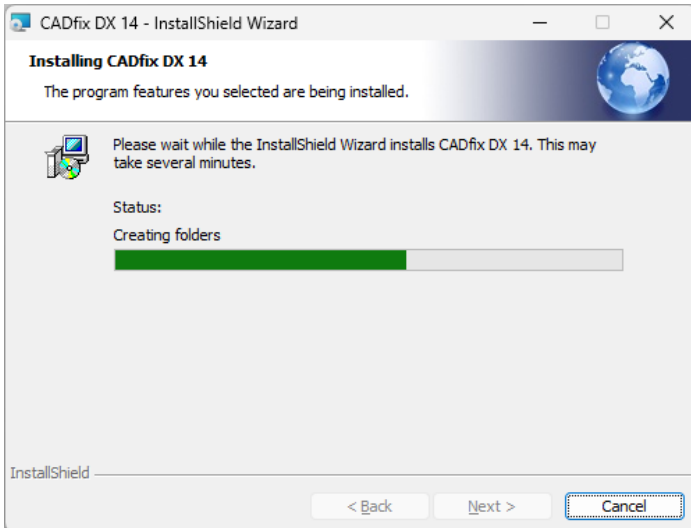


- a) 'Back' returns to the 'Language' screen.
 - b) 'Next' starts the installation of CADfix using these settings.
 - c) 'Cancel' will stop the installation process.
- 7) Windows will ask for permission before the installer makes any updates to your computer.



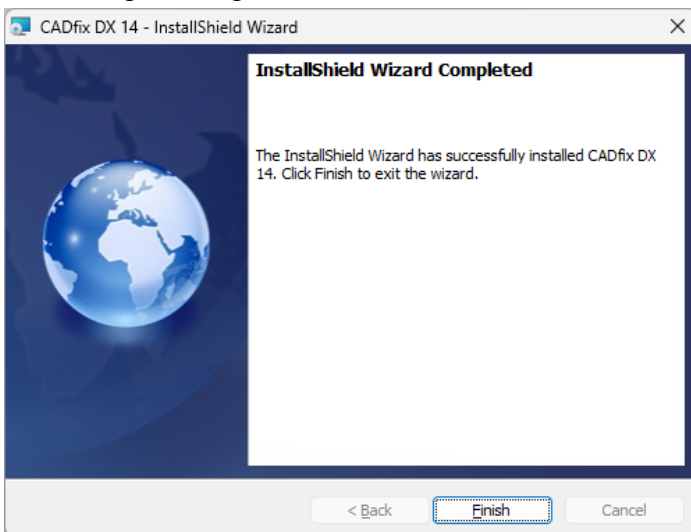
- a) 'Yes' allows the installation process to start.
- b) 'No' stops the installation process from running.

8) During the installation of the files, a progress bar is displayed:



a) 'Cancel' will stop the installation process.

9) A finishing message shows that the installation has been completed successfully.



a) 'Finish' closes the installer.

Note: Do not attempt to pin the CADfix to the Windows Taskbar. This will cause a startup error.

4 Managing the license and services

CADfix utilises FlexNet license services for its license management. If it is needed, and where it is installed will depend on the configuration of your CADfix purchase. For all license types, CADfix will need a license file to generate. – Contact CADfix support to request a license and for any advice.

If your designated license server already hosts another FlexNet license server, then see section [Utilising an existing FlexNet license server](#) before moving on to section [Configuring the license manager](#)

Evaluation license

The license server is not needed for an evaluation license, and CADfix support can send out an evaluation license without any further information.

To run an evaluation license:

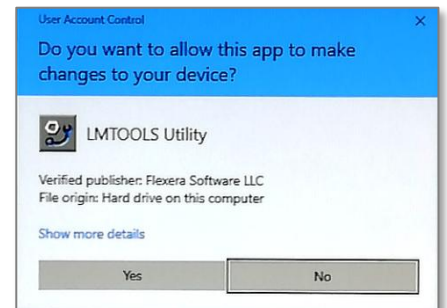
1. Ensure the supplied license file is named 'cadfix.dat'.
2. Copy cadfix.dat to the CADfix lic folder (e.g. "C:\Program Files\CADfix 14 DX\lic\")

Node-locked (single-seat) license

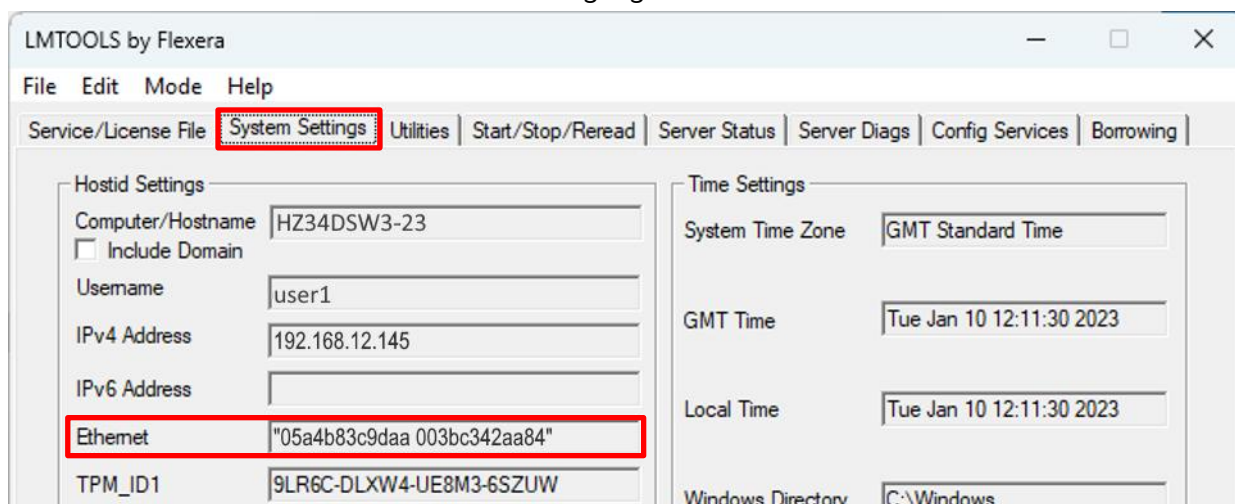
When a license manager is required on the same computer as the CADfix application, the license manager can be run from within the CADfix installation. Alternatively, the license manager can be installed in a non-version-specific location to avoid reconfiguration during subsequent upgrades of CADfix (see 'Floating and Multi-seat node-locked licenses' below).

CADfix support will need to know the workstation's host ID:

1. Using the file browser, open the CADfix license server installation folder. Then run lmtools.exe.
2. If the User Account Control dialogue box appears, click 'Yes' to allow 'LMTOOLS Utility' to run.
3. When LMTOOLS starts, open the 'System settings' tab.



4. The Host ID is shown in the 'Ethernet' field highlighted below:



Floating and Multi-seat node-locked licenses

To install the license manager software as a server, there are three options available:

1. Install a full CADfix installation on the server. This will include the full FlexNet license server.
2. Download the license server installation package (<https://www.cadfix.eu/14LIC/>).
The installation procedure is the same as the full CADfix installation and is therefore not repeated here.
3. Copy the lic folder from a CADfix installation onto the server at a static location where it can be run (e.g. "C:\Program Files\CADfix license\").

For options 2 and 3 above, it is good to install the CADfix license in a non-version-specific location to avoid reconfiguration during subsequent upgrades of CADfix. e.g. "*C:\Program Files\CADfix License*"

For this type of installation, CADfix support will need to identify a list of allowable computers for CADfix use. This is a list in one (or a combination) of the following formats:

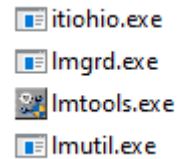
- The IP address range.
- A list of host-ids for the specific computers.

4.1 Configuring the License Manager

This configuration process, shown here, uses the FlexNet graphical user interface to configure Windows services. The process can also be completed at the command line, and this process can be requested from CADfix support.

1. Using the file browser, open the CADfix license server installation folder.

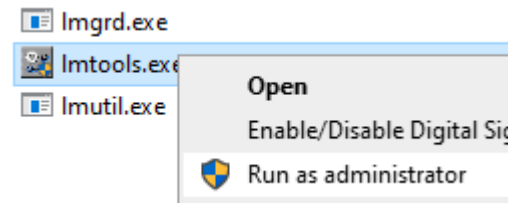
This folder contains: lmtools.exe, lmutil.exe, lmgrd.exe, and itiohio.exe



2. Place a copy of the license file (cadfix.dat) into this installation folder.

This is a text file containing: your license information, details of the license server, and information about which computers can run CADfix. This may be supplied to you with a different name and will therefore need renaming to 'cadfix.dat'.

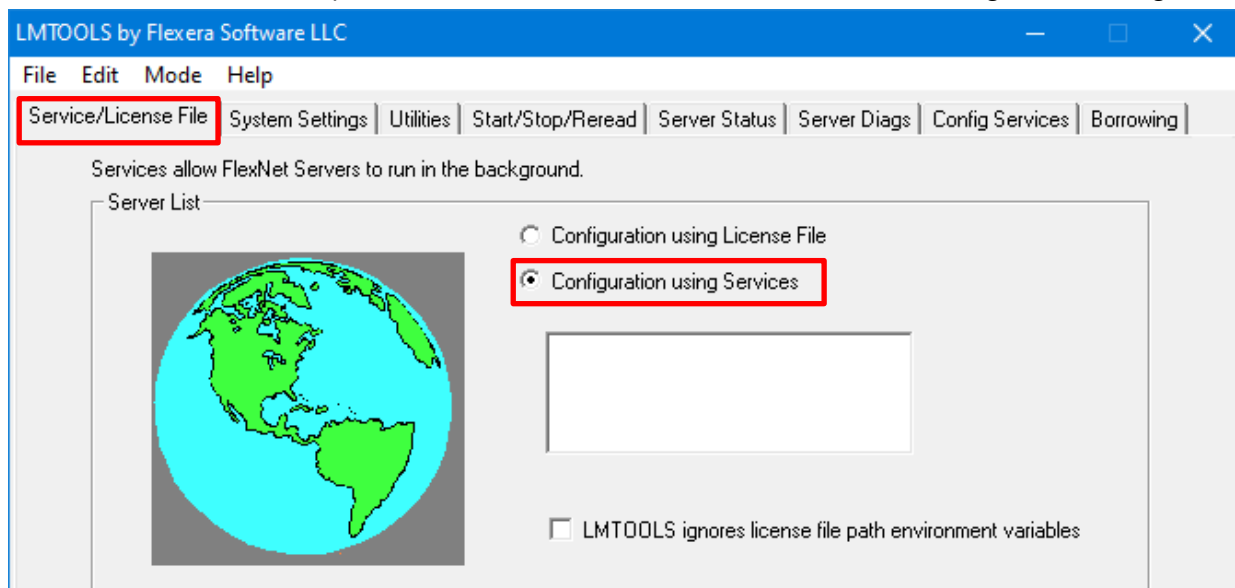
3. Right-click on lmtools.exe and select 'Run as administrator' to start the License manager interface tool.



4. If the User Account Control dialogue box appears, click 'Yes' to allow 'LMTOOLS Utility' to run.



5. When LMTOOLS starts, open the 'Service/License File' tab, and select 'Configuration using Services':



6. Open the 'Config Services' tab and set the values:

'Service Name' = "CADfix License" (Type this directly into the box)

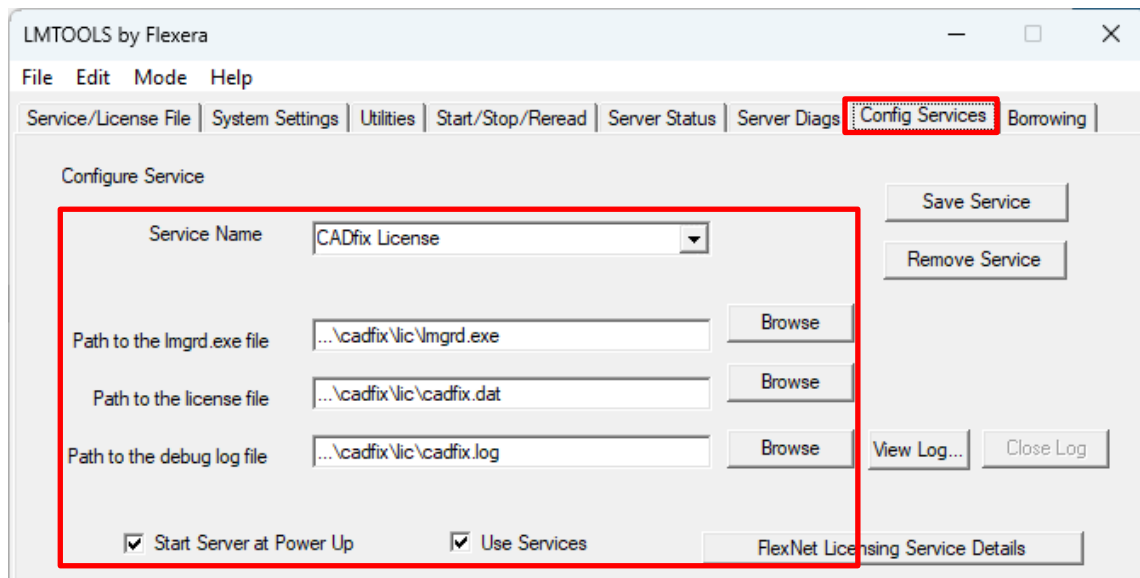
'Path to lmgrd.exe file' = Browse and select the lmgrd.exe file in the license installation folder.

'Path to license file' = Browse and select the cadfix.dat file in the license installation folder.
(You will need to change the file filter in the dialogue box from '*.lic' to '*.dat' before you can see this file.)

'Path to the debug log file' = Browse to the license installation folder and type in "cadfix.log" to create a new log file using this name.

'Use Services' = ✓

'Start Server at Power Up' = ✓

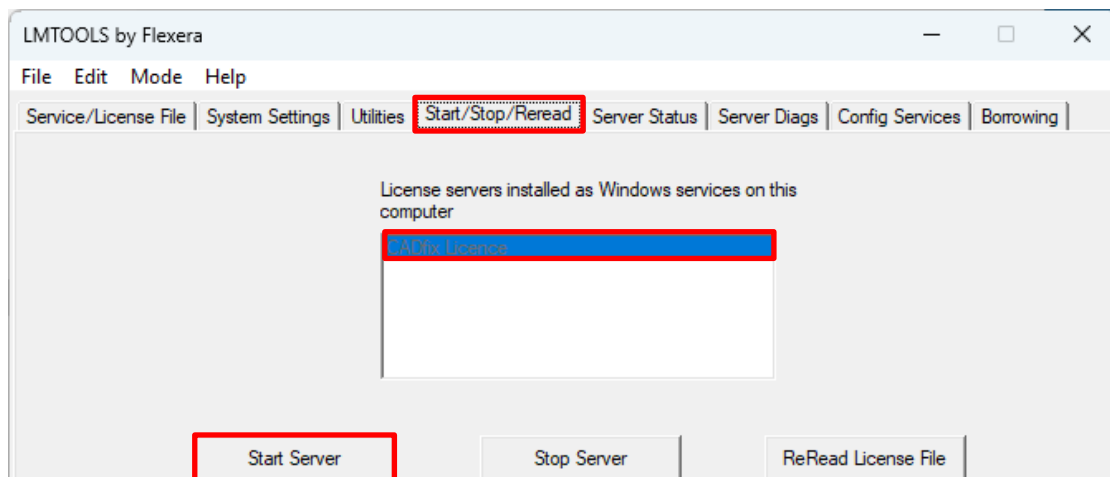


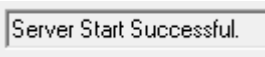
7. Press 'Save Services'

The Windows Services tool should now show the 'CADfix License' service as not started:

Name	Description	Status	Startup Type	Log On As
 CADfix License			Automatic (D...	Local Syste...

8. Open the LMTOOLS 'Start/Stop/Reread' tab, select 'CADfix License', and press the 'Start Server' button.



- The message at the bottom of the 'Start/Stop/Reread' tab should now say the service has started:

- The Windows Services tool should now show the 'CADfix License' service as running:

Name	Description	Status	Startup Type	Log On As
 CADfix License		Running	Automatic (D...	Local Syste...

If the license service will not start, then see [License service not starting](#).

9. The LMTools utility program can now be exited (File → Exit).

Note: If the 'CADfix License' service needs to be stopped/started/restarted, then this can be done via the LMTOOLS 'Start/Stop/Reread' tab, or via the Windows Services tool. Alternatively, this can be done using the Windows Services app – See [Starting, Pausing and Restarting the license services](#).

4.1.1 Utilising an existing FlexNet license server

This section is only applicable if the existing FlexNet license manager has been installed independently or for another program.

The version of this existing FlexNet license server must be the same or newer than that required by CADfix.

CADfix 14 requires FlexNet 11.19.6 or later.

A full list of the FlexNet versions supported by each CADfix installation is shown on the CADfix support website (<https://www.iti-global.com/cadfix-support>).

1. Copy itiohio.exe from your CADfix installation (e.g. "C:\Program Files\CADfix 14 DX\lic\itiohio.exe") into the existing FlexNet installation directory. This location should already have its own copy of "lmgrd.exe".

It is important that the CADfix "itiohio.exe" and FlexNet "lmgrd.exe" are in the same folder. If you require these to be in different locations, then please contact CADfix support for further help.

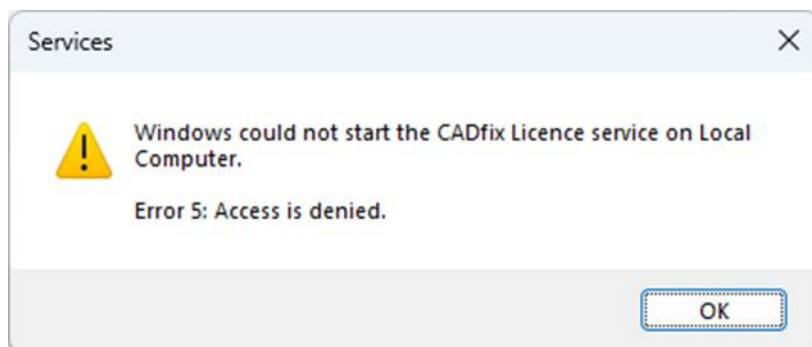
2. Copy your CADfix license file ("cadfix.dat") onto the license server. This can be a different location to the "itiohio.exe" and "lmgrd.exe" files.

3. Follow the instructions in section [Configuring the license manager](#) with these changes:

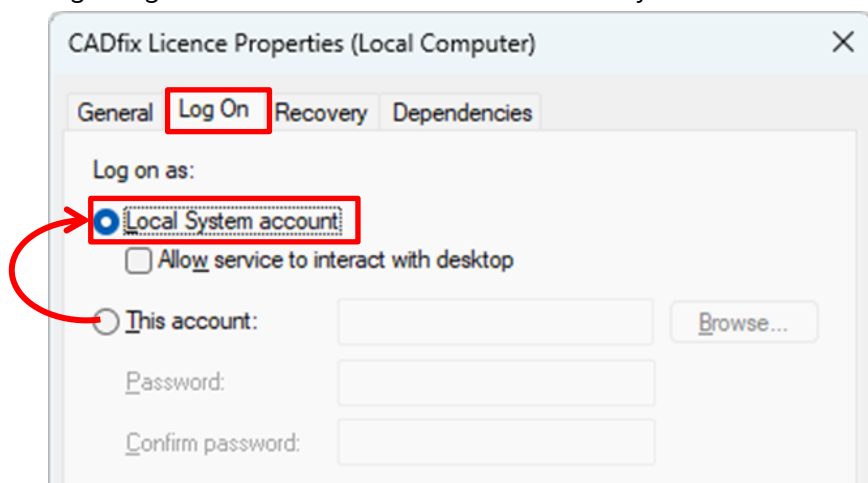
- [Step 1 to 3]
Run lmtools.exe from the existing FlexNet installation on your server.
- [Step 6]
When entering the values
 - 'Path to lmgrd.exe file'
 - 'Path to license file'
 - 'Path to the debug log file'Use the location from the existing FlexNet installation on your server.

4.1.2 License service not starting

Depending on the computer configuration of local administration rights, the CADfix Licence may not start and will display the following message:



1. Start the Windows Services tool and Right-click on the service 'CADfix license'
2. Select Properties.
3. Change "log on as" from 'This account' to 'Local System account':



4. Restart the license service.
5. If the license service still does not start, then contact CADfix support for further help.

4.2 Recording License server information

During the configuration of the CADfix License ([Configuring the license manager](#)), a 'Path to the debug log file' was specified (e.g. "C:\Program Files\CADfix\lic\cadfix.log"). This log file contains the license server's configuration and license activities.

Open the log file with a text editor, then find and record the following information:

FLEXnet version number:

Server network name or IP address:

License file name and path:

Lmgrd (license manager daemon) port number:

Itiohio (vendor daemon) port number:

Itiohio (vendor daemon) version number:

Method of linking to license server: ☐ Local license ☐ Short license ☐ Environment variable

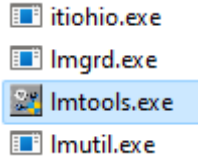
The following is an extract from a cadfix.log file with this key information highlighted:

```
...
11:22:36 (lmgrd) Server's s FlexNet version number 25 2026 11:22:36 GMT Standard Time
11:22:36 (lmgrd) pid 14768
11:22:36 (lmgrd) Changing message security level from -1 to 0
11:22:36 (lmgrd) SLOG: Summary LOG statistics is enabled.
11:22:36 (lmgrd) Done rereading
11:22:36 (lmgrd) FlexNet Licensing v11.19.6.0 build 293152 x64_n6 started on MYSRV01 (IBM PC) (2/25/2026)
11:22:36 (lmgrd) Copyright (c) 1988-2024 Flexera. All Rights Reserved.
11:22:36 (lmgrd) World Wide Web: http://www.flexerasoftware.com
11:22:36 (lmgrd) License file(s): C:\CADfix License\cadfix.dat
11:22:36 (lmgrd) lmgrd tcp-port 32728
11:22:36 (lmgrd) (@lmgrd-SLOG@) ===== Lmgrd (server) port number =====
...
11:22:36 (lmgrd) (@lmgrd-SLOG@) =====
11:22:36 (lmgrd) SLOG: FNPLS-INTERNAL-VL1-40000
11:22:36 (lmgrd) Starting vendor daemons ...
11:22:36 (lmgrd) Starting vendor daemon at port 32729
11:22:36 (lmgrd) Using vendor daemon port 32729 specified in license file
11:22:37 (lmgrd) Started itiohio (pid 14836)
11:22:37 (itiohio) FlexNet Licensing version v11.19.6.0 build 293152 x64_n6...
...
```

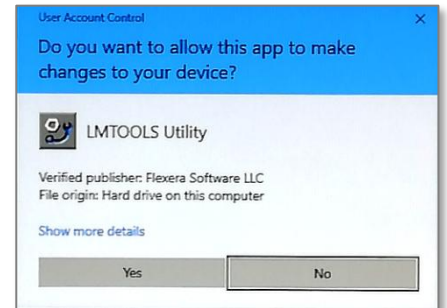
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4.3 Checking the license server status

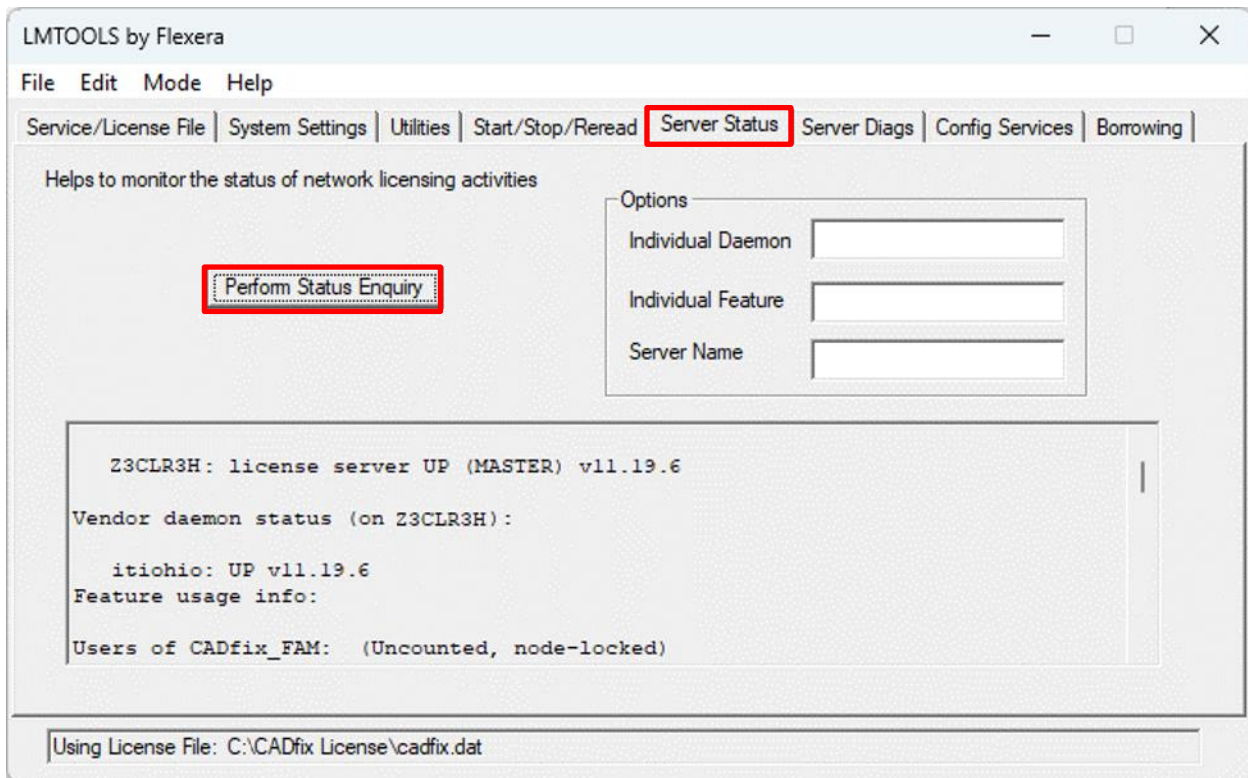
1. Using the file browser, open the CADfix license server installation folder.
2. Run Lmtools.exe to start the License Manager interface tool.



3. If the User Account Control dialogue box appears, click 'Yes' to allow 'LMTOOLS Utility' to run.

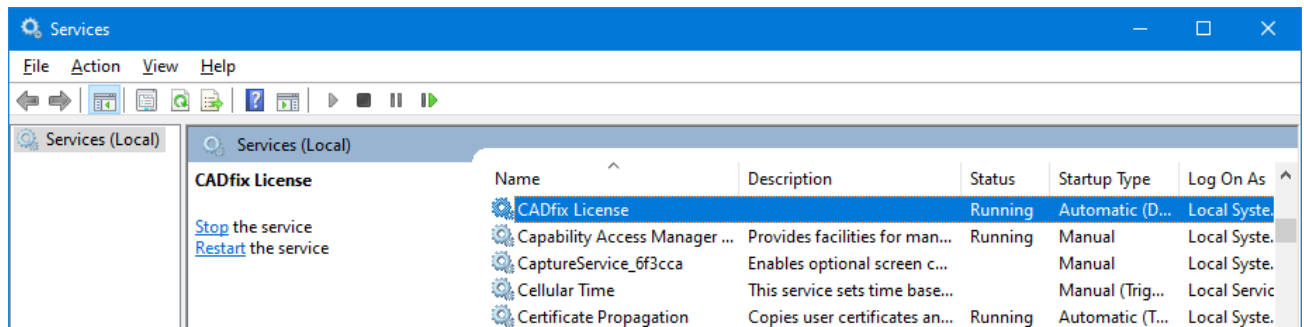


4. When LMTOOLS starts, open the 'Server Status' tab, and press the 'Perform Status Enquiry':

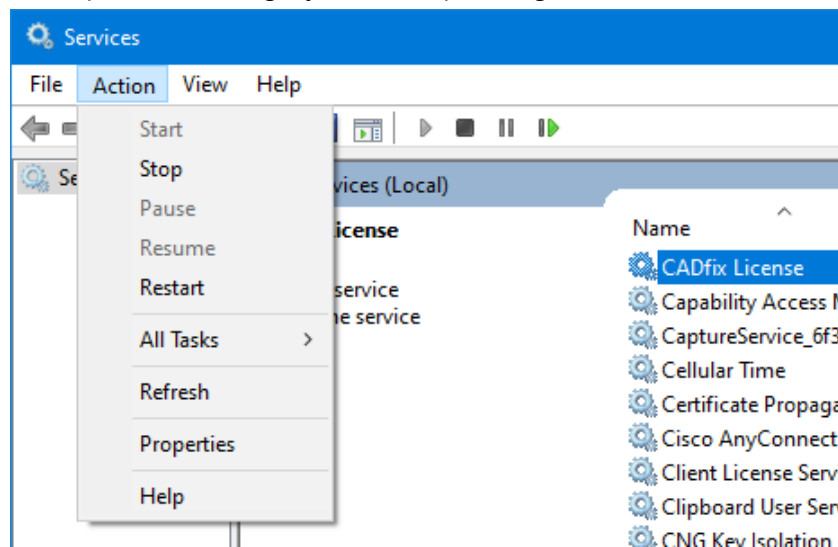


4.4 Starting, Stopping, and Restarting the License Services

- 1) Start the Windows Services App.
- 2) Scroll down and select the “CADfix License” service. – Be aware that this service may have been named differently during the initial CADfix installation.



- 3) The Action dropdown menu provides options to Start, Stop, Pause, Resume, and Restart the license service. Some of these options will be greyed out depending on the service’s current status.



Public

5 Linking CADfix to the license

To allow CADfix to start, it needs to link to a valid license, and there are three options for this:

When you have configured your installation, record which method you used on the form in [Recording License server information](#).

Evaluation license

Node-locked (single-seat) license

5.1 Local license file

Check that the license file has been copied into the client's local "[CADfix installation]\lic" folder.

Floating and Multi-seat node-locked licenses

5.2 Environmental variable

An environmental variable can be set up for each user. This tells CADfix how to contact the server:

```
CADFIX_KEY=[lmgrd port]@[server name]
```

e.g.

```
CADFIX_KEY=32768@mainland
```

The actual values used in this variable can be found in the license server log file.

5.3 Local license file

Copy the license file into the client's local "[CADfix installation]\lic" folder.

5.4 License connection errors

If an error occurs when CADfix is trying to communicate with the license server, then a 'FlexNet license finder' error will be displayed. – Cancel this error.

This will then be followed by a 'Fatal error' message, which will show the full error text – take a screenshot of this so you can share it with CADfix support.

Following an installation, the biggest cause of license errors is that a firewall has blocked communications on ports that are being used by the license server. These port numbers are shown in the license log file (see 'lmgrd port number' and 'itiohio port number' in [Recording License server information](#)).

1. The CADfix license server needs firewall exceptions to allow inbound communications on the 'lmgrd' and 'itiohio' ports.
2. CADfix client machine (running CADfix) should not need any exceptions to its firewall.

For further support on licensing problems, please contact CADfix support.

6 Updating CADfix

6.1 Updating your CADfix installation

As part of the Maintenance, Enhancements, and Support (ME&S) package, you will be offered an upgrade for your CADfix.

For most CADfix releases, the license manager will remain unchanged and will therefore not need upgrading. If the license manager does need upgrading, then this will be highlighted in the “What’s new...” release document.

Service packs are supplied with their own installation instructions.

Evaluation license

If you are using an evaluation license of CADfix, then you will just need to uninstall your current CADfix installation and then install the newer version. – see [Installing CADfix](#)

Node-locked (single-seat) license

If you are using a node-locked license where the license server is part of the CADfix installation you are using, then:

Recommended

- 1) Stop the license service – See [Starting, Pausing and Restarting the license services](#)
- 2) (Optionally) uninstall your existing CADfix installation (this will also uninstall the license server files)
- 3) Install the new version of CADfix – See [Installing CADfix](#)
- 4) Configure the license services using this new installation – See [Configuring the license manager](#)

Alternatively, follow the procedure for ‘Floating and Multi-seat node-locked licenses’ to reconfigure CADfix to get its license from your existing license server. If the FlexNet licensing service has been updated in the new release, then this license server will also need updating - Contact CADfix support for more information.

Floating and Multi-seat node-locked licenses

- 1) (Optionally) uninstall your existing CADfix installation.
- 2) Install the new CADfix installation – See [Installing CADfix](#)
- 3) Link CADfix to license server if needed. If the variable ‘CADFIX_KEY’ has been used here, then this step is not needed – See [Linking CADfix to the license](#)
- 4) If the license manager needs updating, then see [Upgrading license service files](#)

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6.2 Updating your license file

Periodically, the license file you have been provided with will expire. If this happens and you have not yet received an updated file, then contact your CADfix supplier.

6.2.1 Evaluation license

If you are using an evaluation licence, then:

- a) Make sure CADfix is not running.
- b) Copy the new license file into “CADfix 14 DX\lic”. - Any existing license file can be overwritten.
- c) Restart CADfix, and it will automatically read this new license file.
- d) Once started, go to the pull-down menu ‘Help’ → ‘About CADfix’. This dialogue will show the modules that are licensed and the new license expiration date.

6.2.2 Node-locked (single seat) license

If you are using a node-locked license and running through a license file that is part of your CADfix installation, then:

- a) Make sure CADfix is not running.
- b) Copy the new license file into “CADfix 14 DX\lic”. - Any existing license file can be overwritten.
- c) Restart the FlexNet services – See Starting, Pausing and Restarting the license services
- d) Restart CADfix, and it will automatically read this new license file.
- e) Once started, go to the pull-down menu ‘Help’ → ‘About CADfix’. This dialogue will show the modules that are licensed and the new license expiration date.

Floating and Multi-seat node-locked licenses

If you are using a floating license as part of your CADfix installation, then:

- a) Make sure CADfix is not running.
- b) Copy the new license file into “CADfix 14 DX\lic”. - Any existing license file can be overwritten.
- c) Restart the FlexNet services – See Starting, Pausing and Restarting the license services
- d) If you have linked your CADfix installation to the license service using a full license file, then copy the new license file into the “CADfix 14 DX\lic” folder on the local CADfix client machine.
- e) Restart CADfix, and it will automatically read this new license file.
- f) Once started, go to the pull-down menu ‘Help’ → ‘About CADfix’. This dialogue will show the modules that are licensed and the new license expiration date.

6.3 Upgrading license service files

This process upgrades the full FlexNet installation. If you share your FlexNet installation with other packages, then see the section [Upgrading FlexNet itiohio.exe only](#).

- 1) Pause the license service – See [Starting, Pausing and Restarting the license services](#)
- 2) Copy new FlexNet license service files into the lic folder to replace the existing ones.
The list of files includes: Imtools.exe, Imutil.exe, Imgrd.exe, and itiohio.exe
- 3) Check you have the latest license file in the CADfix\lic folder. This should have an expiration date after today and be valid to operate with this version of CADfix. – Speak to CADfix support to verify this.
- 4) Restart the license service – See [Starting, Pausing and Restarting the license services](#)

6.4 Upgrading itiohio.exe only

This section is only applicable if the existing FlexNet license manager has been installed independently or for another program.

- 1) Check that the version of this existing FlexNet license server is the same as or newer than that required by CADfix.

CADfix 14 requires FlexNet 11.19.6 or later.

A full list of the FlexNet versions supported by each CADfix installation is shown on the CADfix support website (<https://www.iti-global.com/cadfix-support>).

- 2) Pause the license service – See [Starting, Pausing and Restarting the license services](#)
- 3) Copy the new “itiohio.exe” file from your updated CADfix\lic folder, and into the server lic folder to replace the existing “itiohio.exe”.
- 4) Check you have the latest license file in the CADfix\lic folder. This should have an expiration date after today and be valid to operate with this version of CADfix. – Speak to CADfix support to verify this.
- 5) Restart the license service – See [Starting, Pausing and Restarting the license services](#)

7 Configuring CADfix

7.1 Changing the display language

The CADfix interface language is set during the installation by creating a system environment variable.

e.g.

```
CADFIX_LANGUAGE=English
```

To change the display language, set the CADFIX_LANGUAGE variable to “English”, “German”, or “Japanese”

- If the CADFIX_LANGUAGE environment variable is deleted or is not set to a valid value, then CADfix will default to using English.
- If CADFIX_LANGUAGE is also set up as a User Environment Variable, this value will override the System Environment Variable.

Allowable values:

```
CADFIX_LANGUAGE=English
```

```
CADFIX_LANGUAGE=German
```

```
CADFIX_LANGUAGE=Japanese
```

7.2 Custom Configuration Files

7.2.1 User Configuration Files

Each CADfix user has their own configuration file that is saved when CADfix is closed. Alongside this file is a set of configuration directories used to store other configuration files saved during the session.

This file is saved in the user's home directory and stores the CADfix settings used during the last session (note the leading ".").

```
%HOME%\CADfix1400
%HOME%\CADfix.config\
```

e.g. "C:\Users\xxx\CADfix1400"

- When CADfix is restarted, this local configuration file is read and used to configure the new session.
- If a local '.CADfix1400' file does not exist, CADfix will start with its default settings.
- If this local '.CADfix1400' file is deleted, CADfix will start with its default settings and any customisation or environment changes will be lost.

7.2.2 Site Configuration Files

It may be advantageous for an organisation to have all its CADfix users share a common configuration. This configuration will contain only settings common to all users and allows the users to set the other values to suit their needs.

A site configuration file is referenced by setting the user's environment variable "CADFIXSITECONFIG". This will either reference a shared configuration directory or a specific configuration file.

- If a local configuration file does not exist, the site configuration file will be used as a template for the new local file.
- If a local configuration file already exists, its values will override the site configuration unless the local file is deleted, or the specific site value is enforced (see below).

The CADFIXSITECONFIG environmental variable can be set in different locations depending on how the organisation would like to control its use:

1. System environment variables
 - Gives a consistent value for all users.
2. User environment variables
 - Gives a consistent value for each user and allows users to have different values.
3. Set the user environment variable via a script run by the user
 - This allows users to set the environment variable as required. The value is retained until reset by running another script.
4. Set in the CADfix startup script (startCADfix.bat)
 - This method resets the environment variable every time CADfix is started.

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7.2.2.1 Referencing a configuration directory

This method is good for setting a general set of configuration values for all users who share a common use of CADfix.

Set the environmental variable CADFIXSITECONFIG to set the shared configuration directory, e.g.

```
CADFIXSITECONFIG=S:\Shared\CADFixConfig
```

The referenced shared configuration directory must contain a configuration file called “CADfix1400” (without a leading “.”).

7.2.2.2 Referencing a configuration file

This method is good for setting different configuration values for different groups of users, such as projects or departments.

Set the environmental variable CADFIXSITECONFIG to set a specific shared configuration file, e.g.

```
CADFIXSITECONFIG=S:\Shared\CADFixConfig\project_a.config
```

This configuration file can use any naming format.

7.2.2.3 Content of the shared configuration file

The shared configuration file can contain the same information as a local ‘.CADfix1400’ file. It is therefore recommended that the required settings be copied from a local ‘.CADfix1400’ file into the shared configuration file.

Here are examples of some of the settings that are commonly used in a site configuration file:

```
*famgui.workingDirectory: C:/temp
*famgui.dirsFavourites: C:/temp S:/Shared/ “H:/CAD/Prod Models” “H:/Analysis Results”
*famgui.backgroundcol: K 093EBB bottomTop
*famgui.wizardConfig: S:/Shared/CADFixConfig/Wizard/STEPtoCAE.cwc
*famgui.wizardMaxTol: 0.1 mm
*famgui.qualityStandard: user standard1 {}
*famgui.usertools: *****
*famgui.usertoolboxes: *****
```

Note that the wizardMaxTol and the qualityStandard values can also be set in the wizardConfig file. Care must be taken to ensure these values do not contradict each other.

7.2.3 Installation Configuration Files

An alternative to the Site Configuration File is to place a default configuration file into the CADfix installation, e.g.

```
C:\Program Files\CADfix 14.0\defaults.config
```

- This file can have any name but must have the extension “.config”.
- All users of this CADfix installation will inherit this file.
- Users do not need the environmental variable “CADFIXSITECONFIG” setting.

7.2.4 Enforcing configuration settings

When a user changes any CADfix configuration setting, it is stored in their local configuration file (‘.CADfix1400’), and this will override any values set in the site configuration file. The values in the shared configuration file can be set to override any local values through the use of the ‘siteonlyoptions’ setting.

Note that a user can still manually use alternative settings. The ‘siteonlyoptions’ should therefore not be considered as a way of controlling the users’ settings, it is rather an aid to loading default values.

The ‘siteonlyoptions’ setting is added to the top of the site configuration file and lists all the configuration values that must not be overridden.

In the following example of a site configuration file, only the wizardMaxTol and workingDirectory are set. All the other values can be overridden by the users’ local configuration file.

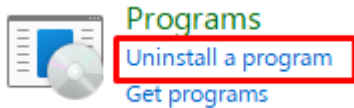
```
*famgui.siteonlyoptions: wizardMaxTol workingDirectory  
*famgui.workingDirectory: C:/temp  
*famgui.dirsFavourites: C:/temp S:/Shared/ “H:/CAD/Prod Models”  
*famgui.wizardConfig: S:/Shared/CADFixConfig/Wizard/STEPtoCAE.cwc  
*famgui.wizardMaxTol: 0.1 mm
```

8 Uninstalling CADfix and its data

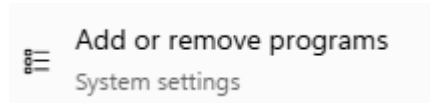
8.1 Uninstalling CADfix

CADfix may have been installed using a supplied *.msi file or as a zipped installation.

- If a zipped installation was used, you can delete the installation directory and any manually created links to startCADfix.bat.
- Where an MSI file was used to install CADfix (*CADfix14DX_WINNTx64.msi*), CADfix should be uninstalled via Windows → Control Panel.



Or the 'Add or remove programs' application.

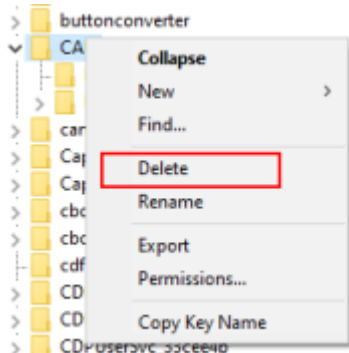


8.2 Removing FlexNet licensing service

This is only needed where the license service has been installed.

Backing up the Windows Registry is crucial before making changes.

1. Open the Windows 'Services' application and stop the 'CADfix License' service. – See [Starting, Stopping, and Restarting the License Services](#)
2. Start the Windows Registry Editor (Regedit).
3. Accept the UAC prompt.
4. Navigate to: "Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services".
5. Scroll to the service you need to delete (usually called "CADfix License").
6. Right-click on the service and press 'Delete'.



7. Close the Registry Editor.

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8.3 Other CADfix-related Data

8.3.1 Removing Environment Variables

The following environmental variables may have been set on each workstation. These can be removed via the Windows 'View advanced system settings' application.

<u>Variable name</u>	<u>Description</u>
CADFIX_KEY	Sets the path to the license file or services.
CADFIX_LANGUAGE	Sets the language used by the CADfix interface.
CADFIXSITECONFIG	Sets the location of any site configuration files.

8.3.2 Removing User Configuration Settings

Each user's CADfix settings are stored in a set of files in their home directory (e.g. "C:\Users\XXX"). Each time CADfix is closed, these files will be rewritten.

Deleting these files will return CADfix back to its default state:

- Removing any CADfix configurations set by the user (favourites, background colours, etc.).
- Removing the history records (last directories used, last Wizard settings used, etc.).
- Removing any customisation (buttons and toolbar layouts).

<u>File/directory</u>	<u>Description</u>
.CADfix*	Active user configuration settings
.Famlimits64	CADfix memory limits
.CADfix.config	A directory containing specific site and tool configurations

8.3.3 Removing Temporary Files

Temporary files created by internal processes are stored in the user's temp folder, as defined by the TMP or TEMP environment variable. These files should be deleted automatically.

Whilst CADfix is not running, any residual temporary files may be removed without affecting the operation of CADfix.

8.3.4 Removing Working Temporary Files

The location of temporary working files is controlled by the users' preference settings. These are accessible from inside CADfix ('File' → 'Preferences') and are stored in the users' configuration files (see above). These files are not automatically removed by CADfix.

<u>File name</u>	<u>Description</u>
*.fbm	The CADfix workspace file that contains the model as it is processed by CADfix. When the user presses the 'Save' button, the model in its current state is saved to this file. These may be removed after the model processing has been completed, but should be retained if the model processing needs to be continued later.
*.fbm#?	Backup versions of the active FBM files. These are usually removed when the CADfix session is closed, but will be left if CADfix has not closed properly.
batch*.log	Output from a CADfix batch script.
*import.log	Import log information generated when models are imported into CADfix. These files are considered temporary and are not needed after a successful import of the source model.
*wizard.log	This is a log of the processing performed by CADfix, from the moment the model is imported until the export stage. In batch mode, it provides valuable information about the success or failure of processing individual models, although it is generally considered a temporary record.

8.3.5 Registry Data Locations

Backing up the Windows Registry is crucial before making changes.

If other FlexNet-based products are installed on this computer, review the FLEXlm settings before making any changes.

CADfix client settings

CADfix software installation and file location:

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\CADfix

FlexNet license location path:

Computer\HKEY_CURRENT_USER\Software\FLEXlm License Manager

FlexNet license server settings

FlexNet software installation and file locations:

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\FLEXlm License Manager

FlexNet 'CADfix License' service settings:

Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CADfix Licence

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9 Moving CADfix to another computer

To transfer CADfix from one computer to another, follow this procedure.

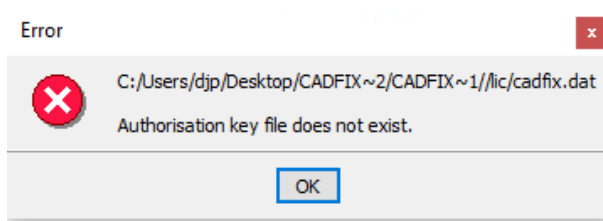
1. Verify that your CADfix license will allow CADfix to run on the new computer.
If necessary, contact CADfix support to check and request an updated license file.
2. Install CADfix on the new computer using the standard installation process.
3. If using a Node-locked license, it will probably be necessary to also install the license service on the new computer.
4. If your original CADfix included customisations, or if you want to keep your previous settings and history, you need to follow these steps: Copy the latest '.CADfixxxxx' file, the '.Famlimits64' file, and the '.CADfix.config' directory from the user's home folder on the old computer to the corresponding location on the new computer.
5. Depending on the user's preferences, CADfix working files (*.fbm) may be in different locations. If you need to retain these files, ensure you locate them and copy them to the new computer.

Appendix: Error messages

Any code examples in the following explanations use example settings. Review your own settings to identify your specific values for these examples – See [Recording License server information](#).

1. CADfix errors

1.1. Authorisation key file does not exist.



CADfix cannot locate the license file.

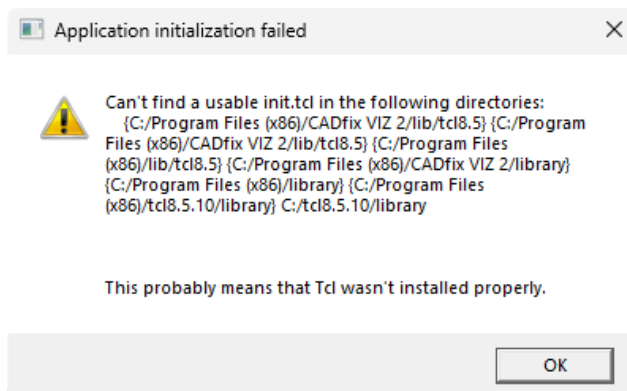
If using a license file, then copy the license file to the location shown in the error message:

“[CADfix installation]\lic\cadfix.dat” – See [Local license file](#)

Alternatively, set the CADfix_KEY environmental variable to point to the license files' location or the license service address. e.g. – See [Environmental variable](#)

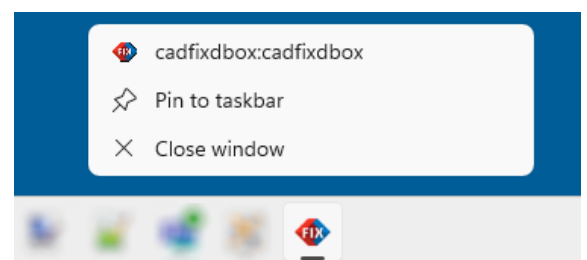
- The default location of the license for all CADfix versions (including evaluation licenses) is the lic folder in the CADfix installation directory. e.g. c:\Program Files\CADfix 14 DX\lic
- The license file should be named cadfix.dat
- If the CADfix_KEY environmental variable is used to locate a license server, then its values must match those in the license server log file.

1.2. Can't find a usable init.tcl in the following directories.



This error usually occurs when CADfix has been pinned to the Windows taskbar - This action is not supported.

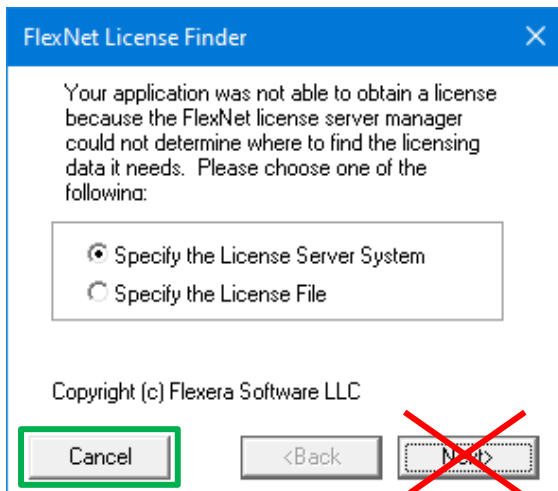
The user should either start CADfix from the Windows Start menu or set up a desktop shortcut to the “..\CADfix\startCADfix.bat” file.



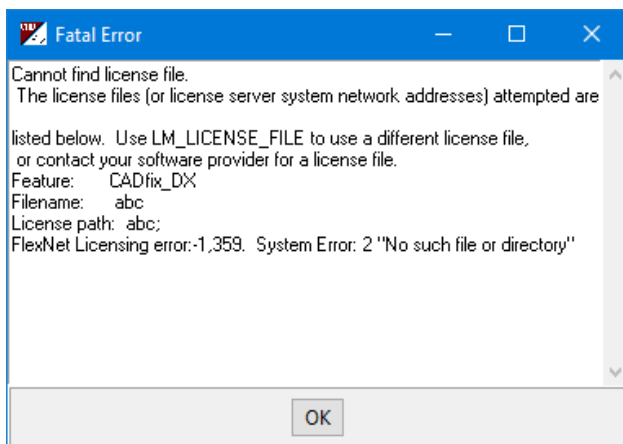
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2. FlexNet errors

If a licensing error occurs, the following error message will be displayed.



To diagnose the problem, press the 'Cancel' button, and a further dialogue will be displayed containing the relevant error message.

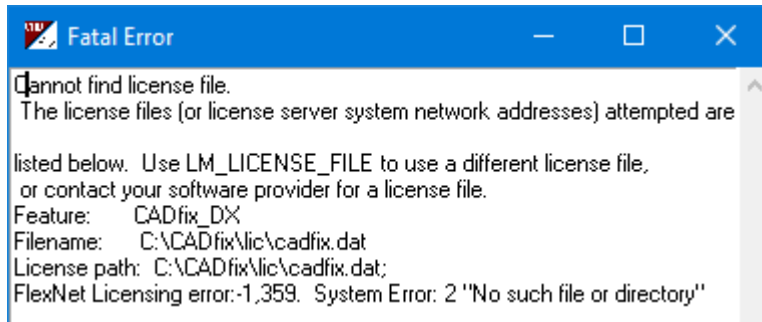


The start of the message starts with a description of the problem and the 'FlexNet Licensing error' on the bottom line.

Record the 'FlexNet Licensing error', or take a screenshot to send to CADfix support.

If available, you will also need a copy of the license log file. See [Recording License server information](#)

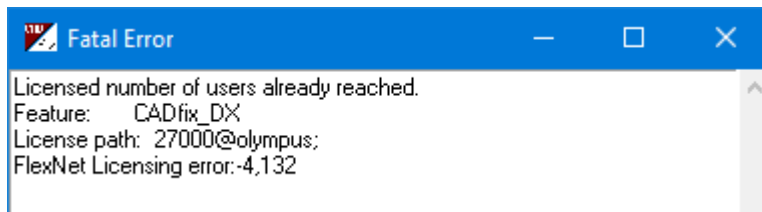
2.1. Cannot find license file (error:-1,xxx)



CADfix cannot locate the license file or the details for connecting to the license server. The locations where it is looking in are shown in the error message.

See error [Authorisation key file does not exist.](#)

2.2. Licenced number of users already reached (error:-4,xxx)

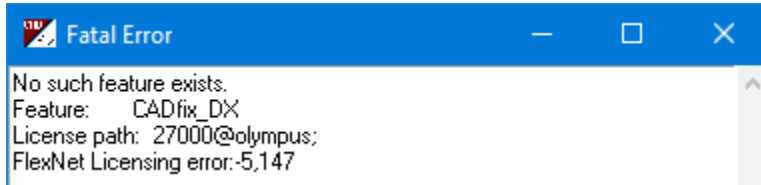


There are too many CADfix sessions being run. Someone must close CADfix before another feature (named in the message) can be used. It may be that: a user has started CADfix and left it running, a batch script may be running CADfix, or a license has been locked out following a crash. The license should be freed automatically 15 minutes after a crash.

Use the "lmutil lmstat" commands to identify who is using CADfix, and arrange for one of the users to close CADfix:

```
cd C:\Program Files\CADfix\lic
lmutil lmstat -c 12345@server -A"
or
lmutil lmstat -c C:\CADfix\lic\cadfix.dat -A"
```

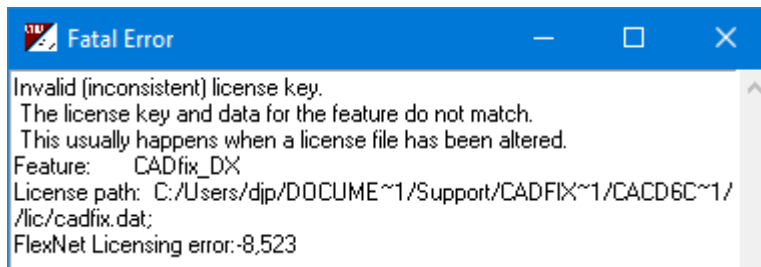
2.3. No such feature exists (error:-5,xxx)



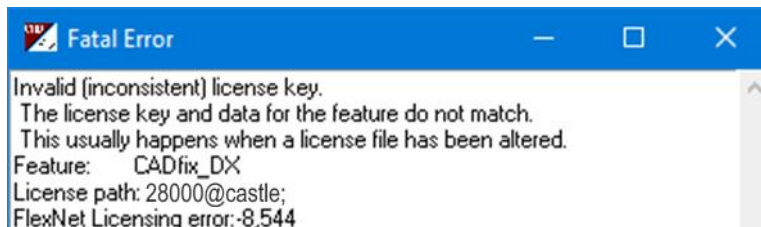
A license is found, but the feature you are trying to use does not exist in the license or cannot be used due to an encoding error. - Please contact CADfix support to verify your modules and check your license file.

2.4. Invalid (inconsistent) license key (error:-8,xxx)

1. Error using local license file:



2. Error when using a license server:

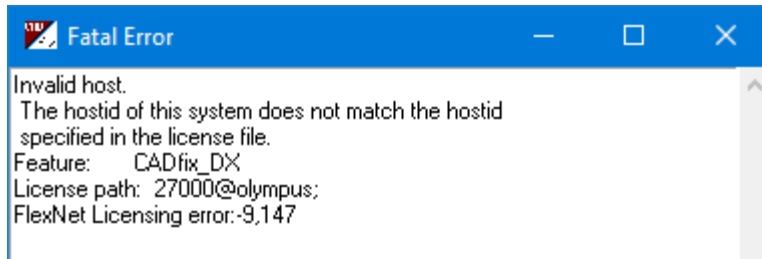


An inconsistency has been detected with the license encryption. Please get the license file checked by CADfix support.

With a license server, this is also caused when the vendor daemon (itiohio) is not reachable. This may be the vendor daemon's port is blocked. – [License connection errors](#)

Ensure the port is available and is explicitly opened as an exception in the server's firewall (see "Port and Firewall settings").

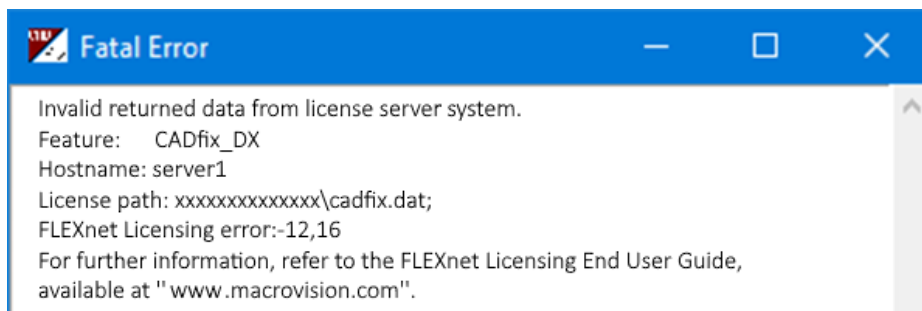
2.5. Invalid host (error:-9,xxx)



The workstation attempting to run CADfix does not match the allowed list of clients in the license file. Either the computer's IP address is not in the license, or the mac address does not explicitly match. If you are running CADfix from a remote computer, then this may change the credentials being used.

Either: move CADfix onto a valid CADfix client or contact CADfix to discuss your license options.

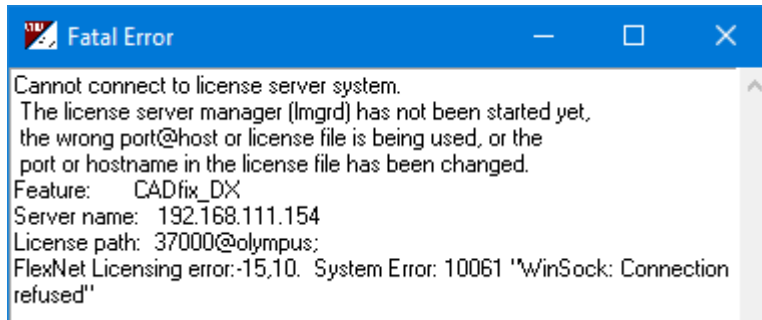
2.6. Invalid return data (error:-12,16)



In the only case where I have seen this error, all FEATURES in license file had expired. - This was stated in the license log file.

No other user activity was shown in the license log.

2.7. Cannot connect to server system (error:-15,xxx)



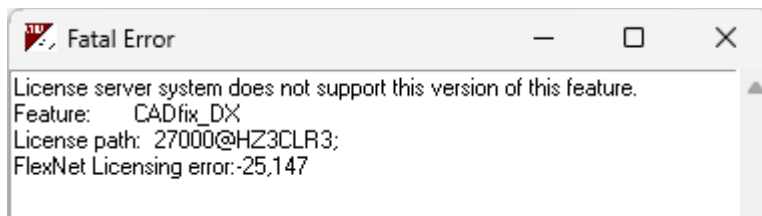
CADfix has details to connect to the license server (either from a local license file, or CADFIX_KEY), but it is not getting a response.

It may be that:

- 1) The wrong license server details are being used in CADFIX_KEY, or an old license file is in the \lic folder.
- 2) The license server services may not be running.
- 3) Communications to the server may be blocked by a firewall.

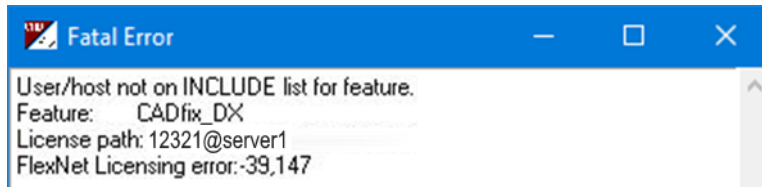
Verify details of points 2 and 3 in the license server's log file.

2.8. License server does not support this version of this feature. (error:-25,xxx)



The user is trying to start up a newer version of CADfix than is allowed by the license file. E.g. the license is for 12.0 and they are trying to start 14.0 .

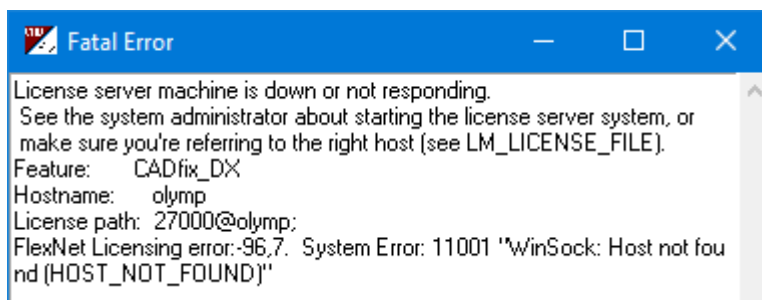
2.9. User/host not on INCLUDE list for feature. (error:-39,xxx)



An option file is in use to define a user list. The users are not found in this list because:

- 1) Their name has not been added to the list.
- 2) An error occurs in the list (e.g. too many characters in the list's line)

2.10. License server machine is down or not responding (error:-96,xxx)

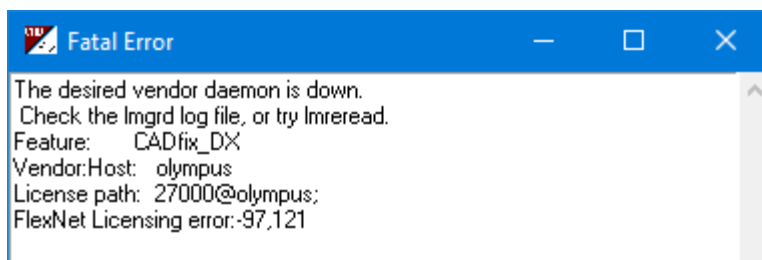


The CADFIX_KEY or local copy of the license file references the license server by name, but it cannot be contacted.

It may be:

- 1) The license server is down.
- 2) The server may not be reachable by this name and should be replaced by another name or IP address.
- 3) Or the wrong license file is being used.

2.11. The desired vendor daemon is down (error:-97,xxx)

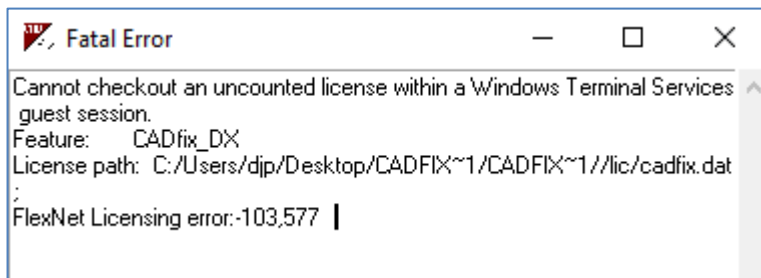


The vendor daemon (itiohio) is not running. This is because the daemon will not start, or communication to it is being blocked (possibly by a firewall).

Check the license log file to see if it is still running.

If the itiohio daemon is running, check no firewalls are blocking the port number it is using.

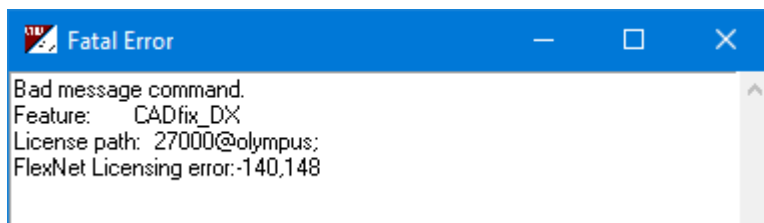
2.12. Cannot checkout an uncounted license within a Windows Terminal Services... (error:-103,xxx)



The user is accessing a CADfix client machine via Terminal Services to run CADfix. The CADfix license is node locked, to only allows CADfix use on the client machine, not the display computer where the user is located.

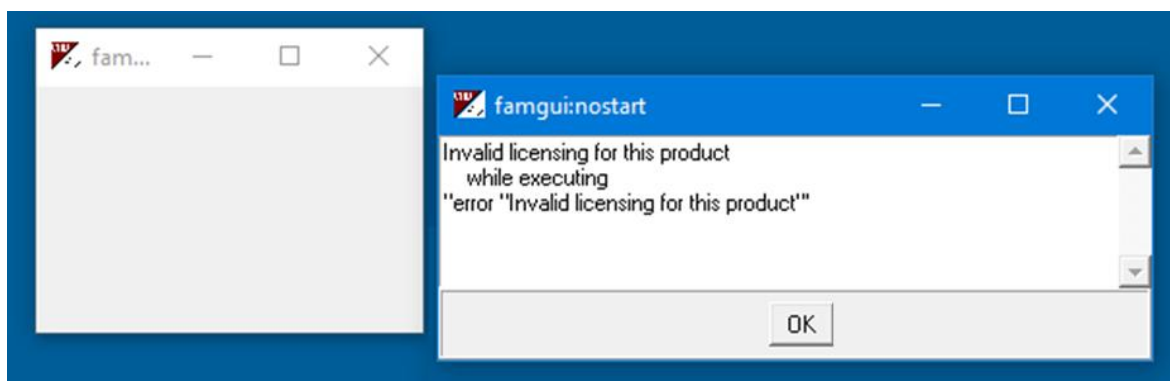
Either: the user must work directly on the licensed CADfix client or contact CADfix to discuss their license options.

2.13. FlexNet Licensing Error (error:-140,148)



The license server is using an older version of FlexNet than the version of CADfix being run. Upgrade the license server to match the version of CADfix being used (or later).

2.14. Invalid licensing for this product



The CADfix startup settings are wrong. - Please contact CADfix support to verify your installation.