

# CADfix Installation Guide CADfix PPS4

(PPS)

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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 are colour-coded (as above) to help with 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 installing. Evaluation licenses do not normally allow any type of 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 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 within a specified range of defined computers. The allowable range should be discussed with the CADfix sales team prior to purchase. It will be categorised as LAN, WAN, RWAN, or WWAN and can be identified using the following options (or 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-Americas customers - email eukeys@iti-global.com

### b) Download CADfix

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

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

#### Installing CADfix and license

c) **Install CADfix** 

Run the downloaded installer program - See Installing CADfix

#### d) Copy your license file into "..\CADfix\lic"

When received from ITI, copy the license file into the CADfix lic folder. e.g. "C:\Program Files (x86)\CADfix PPS4\lic\" - See Installing the license service

### e) **P** Run CADfix

Double click on the desktop icon, or run the "startCADfix.bat" script in the CADfix installation folder (e.g. "C:\ Program Files (x86)\CADfix PPS4\ startCADfix.bat")



#### 2.2. Single node-locked

#### 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-Americas customers - email eukeys@iti-global.com

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

The CADfix workstation MAC address •

### b) **Download CADfix**

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

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

#### Installing CADfix and license server

a) ••• Install CADfix

Run the downloaded installer program - See Installing CADfix

### b) Copy your license file into "..\CADfix\lic"

When received from ITI, copy the license file into the CADfix lic folder. e.g. "C:\Program Files (x86)\CADfix PPS4\lic\" - See Installing the license service

#### c)

### HINSTALL FLEXNET Services

Detailed instructions about how to install the FlexNET services - see Configuring the license manager.

#### d) **P** Run CADfix

Double click on the desktop icon, or run the "startCADfix.bat" script in the CADfix installation folder (e.g. "C:\ Program Files (x86)\CADfix PPS4\ startCADfix.bat")





#### 2.3. Network (floating), or multiple node-locked

#### Preparation

🛛 🖄 Request a license file.

Usually supplied via your CADfix sales representative by email. or:

Americas customers - email <u>works\_supp@iti-global.com</u> Non-Americas customers - email <u>eukeys@iti-global.com</u>

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 multiple node-locked installation, then this must be MAC addresses list).

#### ) CHO Download CADfix

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

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

#### Install CADfix license server

a) Download and install CADfix license only on to the license server <u>or</u> copy a lic folder from another CADfix installation.
 Download the license server only from <u>www.cadfix.eu/12LIC/</u>

#### b) Copy your license file into "..\CADfix\lic"

When received from ITI, copy the license file into the CADfix lic folder. e.g. "C:\Program Files (x86)\CADfix PPS4\lic\" – See <u>Installing the license service</u>

### ) \* Install FlexNET services

Detailed instructions about how to install the FlexNET services - see Configuring the license manager

#### Install CADfix on client workstations

#### d) **Install CADfix**

Run the downloaded installer program - See Installing CADfix

e) E Link CADfix to license server – See Linking CADfix to the license

#### 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 (x86)\CADfix PPS4\ startCADfix.bat")



### 3. Detailed installation procedures 3.1. Installing CADfix

- 1) Double-click on the downloaded installer package to start the installation process. e.g. CADfixPPS4.exe
- Windows may ask to allow the program to run. This will be signified by the highlighted shield on the taskbar Select 'Yes' to allow the CADfix installer to run:



3) An initial start-up screen is displayed whilst the program is loading:

CADfix PPS4 - InstallShield Wiza	rd		×
	CADfix PPS4 Setup is preparing the InstallShield Wizard, which will guid of the setup process. Please wait.		
<b>Install</b> Shield		Cancel	

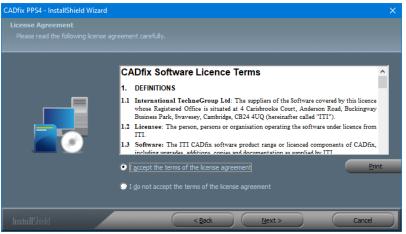
- a) 'Cancel' will stop the installation process if required.
- 4) The Welcome screen is then displayed:

CADfix PPS4 - InstallShield Wizard		×
	Welcome to the InstallShield Wizard for CADfix PPS4	
	The InstallShield Wizard will install CADfix PPS4 on your computer. To continue, click Next.	
InstallShield	< Back Next > Cancel	D

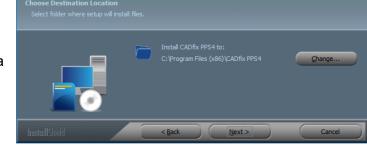
- a) 'Next' continues with the installation process.
- b) 'Cancel' will stop the installation process.



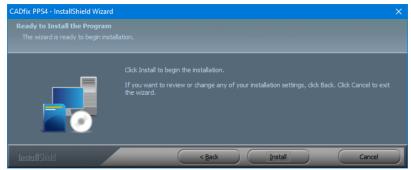
5) The CADfix license agreement is displayed. This gives you the opportunity to review and print the agreement before installing CADfix.



- a) To continue, select 'I accept the terms of the license agreement', then press the 'Next' button.
- b) 'Back' will return to the Welcome screen.
- c) 'Cancel' will stop the installation process.
- 6) The 'Choose Destination Location' screen shows the default installation location: (This location may vary depending on the version you are installing.)
  - a) 'Change...' allows CADfix to be installed at a different location.
  - b) 'Back' returns to the 'License agreement' screen.
  - c) 'Next' continues with the installation process.
  - d) 'Cancel' will stop the installation process.



7) The 'Ready to Install the Program' screen allows a chance to go back to previous screens and make changes before writing to disk:



- a) 'Back' returns to the 'Choose Destination Location' screen.
- b) 'Next' starts installation of CADfix using these settings.
- c) 'Cancel' will stop the installation process.

CADfix Installation Guide - CADfix PPS4

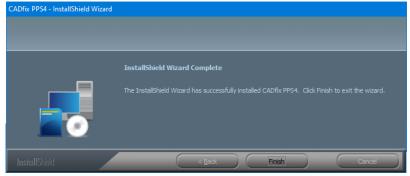


8) During the installation of the files a progress bar is displayed:

CADfix PPS4 - InstallShield Wizard		×
	The InstallShield Wizard is installing CADfix PPS4	
	Installing C:Program Files (x86)\CADfix PPS4\bin\granex.exe	
		l
InstallShield	Cancel	D

Pressing cancel during this stage will cancel the installation process.

9) When the installation is complete, a message is displayed informing you of this.



a) Press 'Finish' to close this screen

- A 'CADfix PPS 4' start-up icon should now be displayed on your desktop:
- A 'CADfix PPS 4' group should now be available in your Windows Start-menu:



New



#### 3.2. Installing the license service

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. Please discuss this with CADfix support if you have any doubts or want further advice.

#### **Evaluation license**

The license server is not needed for an evaluation license. 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 (x86)\CADfix PPS4\lic\"

#### Single node-locked

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 (see 'Network (floating), or multiple node-locked' below).

#### Network (floating), or multiple node-locked

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

- Install a full CADfix installation on the server. This will include the full FlexNET license server.
- Download the license server installation package (<u>www.cadfix.eu/12LIC/</u>). The installation procedure is the same as the full CADfix installation and is therefore not repeated here.
- 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 (x86)\CADfix license\").

It is good to install the CADfix license in a non-version specific location to avoid reconfiguration during subsequent upgrades of CADfix.



📧 itiohio.exe

Imgrd.exe

💥 Imtools.exe Imutil.exe

#### 3.3. 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.

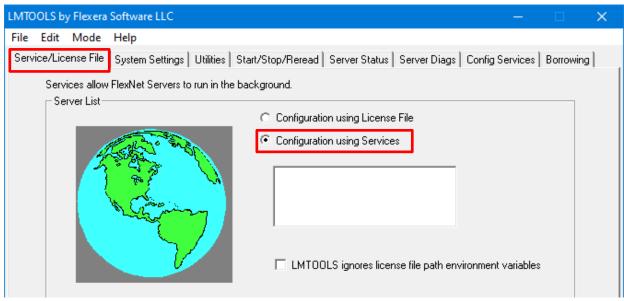
- 1. Using the file browser, open the CADfix license server installation folder. This folder contains: Imtools.exe, Imutil.exe, Imgrd.exe, and itiohio.exe
- 2. Place a copy of the license file (cadfix.dat) into this installation folder. This is a text file containing: your license information, details 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 Imtools.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.

🗉 In	ngrd.exe		
🚜 Im	ntools.exe	0	pen
🗉 In	nutil.exe		nable/Disable Digital S
			un as administrator
			> ow this app to make evice?
LMTOOLS Utility Verified publisher: Flexera Software LLC File origin: Hard drive on this computer		Software LLC	
	Show more	details	

No

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



CADfix Installation Guide - CADfix PPS4



- 6. Open the 'Config Services' tab and set the values:
  - 'Service Name' = "CADfix License" (Type this directly into the box) 'Path to Imgrd.exe file' = Browse and select the Imgrd.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 I In' = $\checkmark$

0.6	an Server at FOW	51 OP - 7				
MTC	OLS by Flexera Software	LLC				×
File	Edit Mode Help					
Serv	rice/License File   System S	ettings Utilities Start/Stop/Reread S	Server Status Server Diags C	onfig Services	Borrowing	
	Configure Service			Save Ser	vice	
	Service Name	CADfix License	•	Remove So	ervice	
	Path to the Imgrd.exe file	\cadfix\lic\lmgrd.exe	Browse			
	Path to the license file	\cadfix\lic\cadfix.dat	Browse			
	Path to the debug log file	\cadfix\lic\cadfix.log	Browse	View Log	Close Log	
	☑ Start Server at P	ower Up 🔽 Use Services				

#### 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.

LMTOOLS by Flexera Software LLC	—		×
File Edit Mode Help			
Service/License File   System Settings   Utilities   Start/Stop/Reread   Server Status   Server Diags   Confi	ig Services	Borrowing	1
FlexNet license services installed on this computer			
CADfix License			
Start Server Stop Server ReRead Lic	ense File		







- The message at the bottom of the 'Start/Stop/Reread' tab should now say the service has started:
  Server Start Successful.
- 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 <u>License service not starting</u> below.

9. The LMTools utility program can now be exited (File  $\rightarrow$  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, <u>or</u> via the Windows Services tool. Alternatively, this can be done using the Windows Services app – See <u>CADfix license services</u>.

#### 3.4. License service not starting

If the license service will not start, then this may be due to local administration rights. To overcome this:

- 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.

General	Log On	Recovery	Dependencies
Log on	as:		
● Loc	al System	account	1
			t with desktop





#### 3.5. Recording License server information

During the configuration of the CADfix License (section 3.3.6) a 'Path to the debug log file' was specified (e.g. "C:\Program Files (x86)\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:	cense 🛛 Short license 🗆 Environment variable

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

FlexNET version number
17:10:51 (lmgrd) Server's System Date and Time: Thu Oct 01 2020 17:10:51 GMT Summer Time
17:10:51 (lmgrd) pid 5712
17:10:51 (lmgrd) SLOG: Summary LOG statistics is enabled.
17:10:51 (lmgrd) Detecting other license server manager (lmgrd) processes
17:10:54 (lmgrd) Done rereading
17:10:54 (lmgrd <mark>) FlexNet Licensing [v11.16.4.0</mark> build 252457 x64_n6) <mark>started on</mark> olympus (IBM PC) (10/1/2020)
17:10:54 (lmgrd) Copyright (c) 1988-2019 Flexera. All Rights Reserved.
17:10:54 (lmgrd) World Wide Web: <u>http://www.flexerasoftware.com</u>
17:10:54 (lmgrd) License file(s): C:\Program Files (x86)\CADfix License\cadfix.dat License file name and path
17:10:54 (lmgrd) lmgrd tcp-port 27000
17:10:54 (lmgrd) (@lmgrd-SLOG@) ======= Lmgrd port number ====================================
Itiohio port number
17:10:54 (lmgrd) itiohio using TCP-port 62406
17:10:54 (itiohio) SLOG: Statistics Log Frequency is 240 minute(s).
17:10:54 (itiohio) SLOG: TS update poll interval is 600 seconds.
17:10:54 (itiohio) SLOG: Activation borrow reclaim percentage is 0.
17:10:54 (itiohio) (@itiohio-SLOG@) ====================================
17:10:54 (itiohio) (@itiohio-SLOG@) === Vendor Daemon === Itiohio version number
17:10:54 (itiohio) (@itiohio-SLOG@) Vendor daemon: itiohio
17:10:54 (itiohio) (@itiohio-SLOG@) Start-Date: Thu Oct 01 2020 🏏:10:54 GMT Summer Time
17:10:54 (itiohio) (@itiohio-SLOG@) PID: 11836
17:10:54 (itiohio) (@itiohio-SLOG@) VD Version <mark>v11.16.4.0</mark> ouild 252457 x64_n6 ( build 252457 (ipv6))
17:10:54 (itiohio) (@itiohio-SLOG@)



#### 3.6. 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 section 3.5.* 

#### Evaluation license

Single node-locked

#### 3.6.1. Local license file

Check the license file has been copied into the client's local "[CADfix installation]\lic" folder. (This should have already been done in section 3.2)

#### Network (floating), or multiple node-locked

#### 3.6.2. 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.

#### 3.6.3. Cut-down license file

A 'cut-down license file' can be used as an alternate method of connecting CADfix to the license server. For further help with this, please contact CADfix support.

#### 3.6.4. 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 with 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 because 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 'Imgrd port number' and 'itiohio port number' in previous section).

- 1. The CADfix license server needs firewall exceptions to allow inbound communications on the 'Imgrd' 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.



### 4. Updating CADfix

#### 4.1. 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 <u>Installing CADfix</u>

#### Single node-locked

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

#### Recommended

- 1) Pause the license service See <u>CADfix license services</u>.
- 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

<u>Alternatively</u> follow the procedure for 'Floating and Multi-seat node-locked licenses' to reconfigure CADfix to get its license from the license server in the older installation. 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.

#### Network (floating), or multiple node-locked

- 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 <u>Upgrading FlexNET license service files</u>



#### 4.2. Updating your CADfix 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.

#### **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\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 licences, and the new license expire date.

#### Single node-locked

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\lic. Any existing license file can be overwritten.
- c) Restart the FlexNET services See <u>CADfix license services</u>.
- 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 licences, and the new license expire date.

#### Network (floating), or multiple node-locked

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\lic. Any existing license file can be overwritten.
- c) Restart the FlexNET services See <u>CADfix license services</u>.
- 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\lic folder on the local CADfix client machine.
- f) Restart CADfix and it will automatically read this new license file.
- g) Once started, go to the pull-down menu 'Help' → 'About CADfix'. This dialogue will show the modules that are licences, and the new license expire date.





#### 4.3. CADfix 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.

🔕 Services					—	□ ×						
<u>File Action View H</u> elp												
🥋 Services (Local)	Services (Local)											
	CADfix License	Name	Description	Status	Startup Type	Log On As						
		CADfix License		Running	Automatic (D	Local Syste.						
	Stop the service Restart the service	🥋 Capability Access Manager	Provides facilities for man	Running	Manual	Local Syste.						
		🎑 CaptureService_6f3cca	Enables optional screen c		Manual	Local Syste.						
		🆏 Cellular Time	This service sets time base		Manual (Trig	Local Servic						
		🎑 Certificate Propagation	Copies user certificates an	Running	Automatic (T	Local Syste.						

 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.

🔕 Services									
File	Action	View	Help						
Se	Sta Sto Pai Rei Rei All	rt pp use sume start Tasks fresh operties	· · · · · · · · · · · · · · · · · · ·	vices (Loo icense service ne service			I	Name CADfix License Capability Access M CaptureService_6f3 Certificate Propaga Certificate Propaga Cisco AnyConnect Cisco AnyConnect Cisco AnyConnect Cisco AnyConnect Cisco AnyConnect Cisco AnyConnect Cisco AnyConnect Cisco AnyConnect	
								🖾 CNG Key Isolation	

#### 4.4. Upgrading FlexNET license service files

- 1) Pause the license service See <u>CADfix license services</u>.
- 2) Copy new FlexNET license service files into the lic folder to replace the existing ones. The list of files include: Imtools.exe, Imutil.exe, Imgrd.exe, and itiohio.exe
- Check you have the latest license file in the CADfix\lic folder. This should have an expire date after today, and valid to operate with this version of CADfix. – Speak to CADfix support to verify this.
- 4) Restart the license service See <u>CADfix license services</u>.