Windows License Server Installation

FlexNet 11.19.6

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Contents

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1   Install license service files

1. Either:

   - Copy the "[CADfix]\lic" folder from a full CADfix installation onto the 'server install location'. (e.g. "C:\Program Files\CADfix license\").
   - Install the license server installation package (www.cadfix.eu/14LIC/).
   - Install a full CADfix installation on the server.

   The following notes assume the server is installed at "C:\Program Files\CADfix license\". You may have installed the server at a different path; make a note of the location used.

2. Check the "[Server install location]\lic" folder contains these four files:

   ```
   lmtools.exe    lmutil.exe
   lmgrd.exe      itiohio.exe
   ```

3. Copy your license file (cadfix.dat) into the 'server install location'.
   If it is supplied using a different name, rename it to 'cadfix.dat'.

4. Create a new text file called cadfix.log.
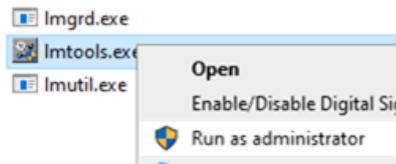   *This text file is initially empty but will be used to log the license manager activities.*

5. The "[Server install location]\lic" folder now contains these six files:

   ```
   lmtools.exe    lmutil.exe
   lmgrd.exe      itiohio.exe
   cadfix.dat     cadfix.log
   ```

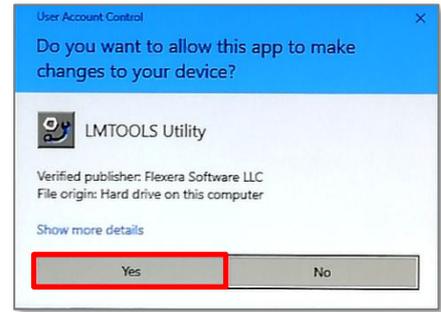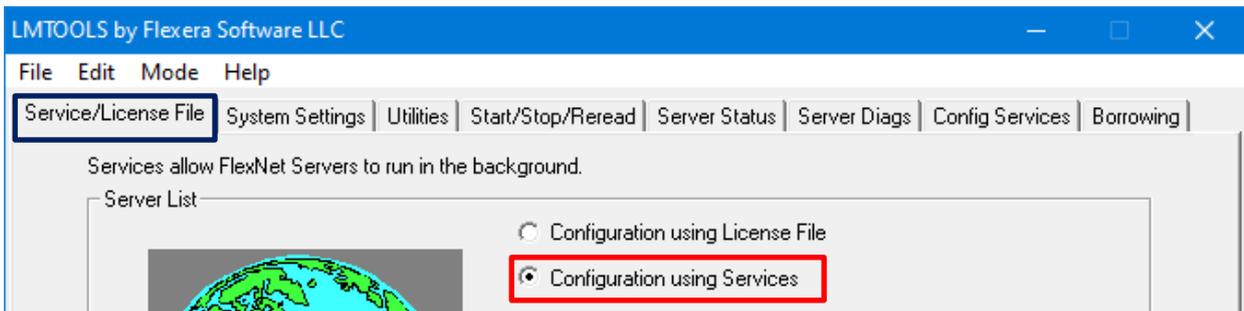*Public*

2 Configuring license service

1. Right-click on lmtools.exe and select 'Run as administrator'.

2. If the User Account Control dialogue box appears, click 'Yes'.

3. Open 'Service/License File' tab and select 'Configuration using Services':

4. Open the 'Config Services' tab and make the following changes:

'Service Name'	=	"CADfix License" - *Type directly into the box*
'Path to lmgrd.exe file'	=	"C:\Program Files\CADfix license\lmgrd.exe"
'Path to license file'	=	"C:\Program Files\CADfix license\cadfix.dat"
'Path to the debug log file'	=	"C:\Program Files\CADfix license\cadfix.log".
'Use Services'	=	✓
'Start Server at Power Up'	=	✓
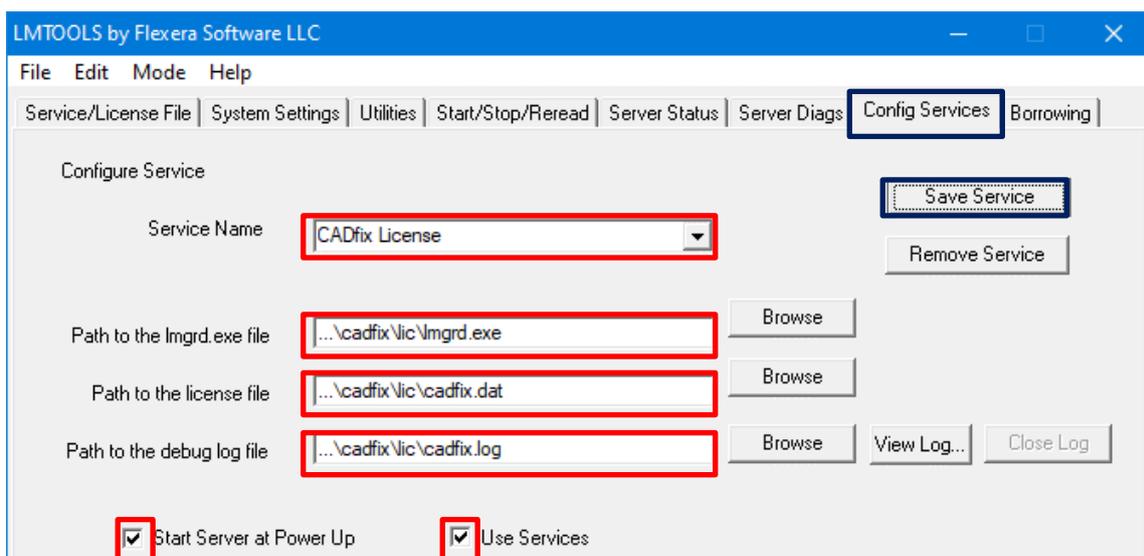
5. Press 'Save Services'
6. Exit LMTOOLS

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3 Starting license service

1. Open the Windows Services application.

     Services
    System

2. Locate the 'CADfix License' service.

3. Start the 'CADfix License' service:

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

4. If the service does not start:
    a. Right-click on the service 'CADfix license' and open Properties.
    b. Change "log on as" from 'This account' to 'Local System account'
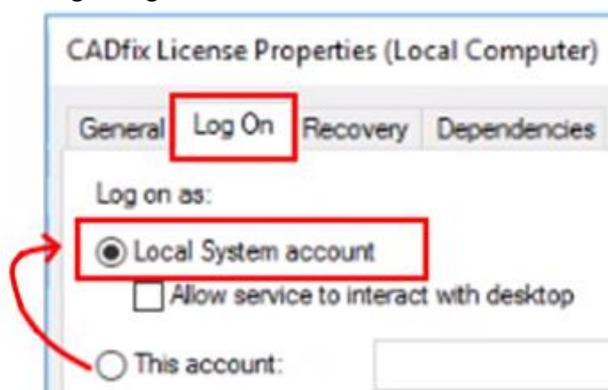
5. Restart the license service.
    a. If the license service still does not start, then investigate access rights to run this service or contact CADfix support for further help (eusupport@iti-global.com).

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4 Check port access to license services

1) The cadfix.log file should now contain a log of the license server activities. Open in a text editor and record the two port numbers shown below. - To change these values, set them in the licence file.

cadfix.log *(showing ports selected)*

```
…
…
17:10:54 (lmgrd) lmgrd tcp-port 32728
…
…
17:10:54 (lmgrd) itiohio using TCP-port 32729
```

cadfix.dat *(ports are set in the license file)*

```
…
SERVER MYLICSRV01 00035AA521099 32728
VENDOR itiohio Port=32729
…
…
…
```

2) Configure the Firewall software on the license server to allow inbound and outbound TCP communications through these two ports. If these ports are not open, communication errors will occur between the CADfix client workstations and the license services.

The example below shows the use of Windows Defender Firewall; Your server may use a different product.

Windows Defender Firewall
Control panel

This example shows an exception called 'CADfix License' that allows TCP communication into and out of ports 32728 and 32729:
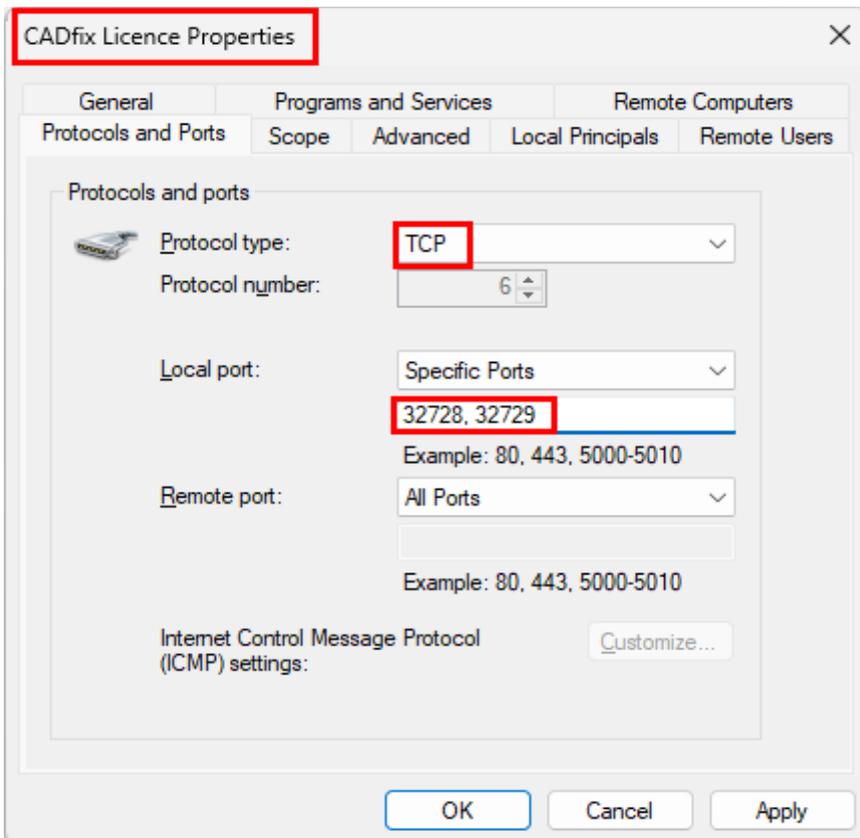
5 Link the CADfix client to the license service

1) Log onto the client CADfix workstation.

2) Start PowerShell and run the following commands to check that the license server is reachable and the required ports are open. In each case, you will need to use the port numbers and server name listed in your license server's cadfix.log file.

   Port 1:
   ```
   test-netconnection -port 32728 -computername MYLICSRV01
   ```

   Port 2:
   ```
   test-netconnection -Port 32729 -computername MYLICSRV01
   ```

   These commands will return one of three responses shown below. If you do not get 'True', you will need to investigate why this communication is being blocked.

a)	Good. Server found, and port is open:	`TcpTestSucceeded : True`
b)	Bad. Server found, but port is blocked:	`TcpTestSucceeded  : False`
c)	Bad. Server is not reachable from client:	`WARNING: Name resolution of [servername] failed`

3) Create an environment variable CADFIX_KEY that contains the license server details

   "`CADFIX_KEY=32728@MYLICSRV01`"

   - 32728= lmgrd port listed in the cadfix.log file.
   - MYLICSRV01 = name listed at top of license file, or within cadfix.log.
     Alternatively, use the fully qualified name, including the domain or the IP address.

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