

NETWORK LICENSING CHECK FIREWALL COMMUNICATION BETWEEN LICENSE SERVER AND CLIENT MACHINE

If the FlexIm license service is running properly on the license server machine, and the client machine has the system environment variable correctly set, but the client still can't check out a license/connect to the license server, this is often due to firewall restrictions. The firewall can restrict communication for certain port numbers and applications (executables).

Note that the server and client must have two-ways communication between them.

One way to check that the server can be reached using a certain port number is to use telnet. Telnet is typically installed, but not enabled on Win7, Win10 and Win11 machines.

1 CHECK BY TELNET

To enable telnet at client machine, go to **Programs and Features** -> **Turn Windows features on or off** -> Check **Telnet Client** (and Server if available).



From a DOS prompt type, you can try to ping and telnet the server in various ways like using name or IP-address. For example:

telnet servername 2002 telnet ip.ip.ip.ip 2002

Here the default port number is 2002 for Sesam/Nauticus licenses.

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Or you can use the IP instead of server name.



If you get a blank page saying Telnet at the top, it means that it is open. (see below picture)



If you get an error message, the port is blocked. Please contact IT to open it.

If the Port 2002 is opened, but still could not connect server, please check another port requested by license server.

- 1) Open dnvs.log from sever by notepad
- 2) Search 'Listening port'
- Except port 2002 as below you can find, (lmgrd) (@lmgrd-SLOG@) Listening port: 2002

you can also find another port xxxxx as below (note: this port number is dynamical, so it might be different with below picture) (dnvslm) (@dnvslm-SLOG@) Listening port: 49677

If you have marintek license, the port will be listed as below (MARINTEK) (@MARINTEK-SLOG@) Listening port: 49682

4) Telnet server IP xxxx, if has error, please contact IT to open it.



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2 OPEN UP FOR EXECUTABLES AT FIREWALL

Firewall exception rules have to cover the port numbers for both lmgrd and any vendor daemon like dnvslm, msc and marintek (typically 2002 and one or more varying port numbers) OR the lmgrd.exe and dnvslm.exe vendor daemon (possibly also msc.exe and marintek.exe) executables. It is common to open up for the executables instead of the port numbers.

Go to Control Panel -> Windows Defender Firewall -> Allow an app or feature through Windows Defender Firewall, click Allow another app.

at are the risks of allowing an app to communicate?				Change settings	
Eor your security, some settings are managed by you	ir system ad	Iministrato	nr.		
For your security, some security are managed by you	n system at				
Allowed apps and features:					
Name	Domain	Private	Public	Group Policy	^
BranchCache - Content Retrieval (Uses HTTP)				No	
BranchCache - Hosted Cache Client (Uses HTTPS)				No	
BranchCache - Hosted Cache Server (Uses HTTPS)				No	
BranchCache - Peer Discovery (Uses WSD)				No	
Captive Portal Flow	✓	~	~	No	
Cast to Device functionality	✓	~	~	No	
Connect	✓	~	~	No	
Core Networking	✓	~	~	No	
✓ Cortana	✓	~	~	No	
Delivery Optimization	✓	~	~	No	
☑ DiagTrack	✓	~	~	No	
DIAL protocol server	✓	✓		No	۷
			Details	s Remove	

In the **Add an app** dialog, Click **Browse**, add **dnvslm.exe** and **Imgrd.exe** from license manager installation path. (Normally, the default is C:\Program Files\DNV\Flexlm\Bin)

After adding, the **DNV daemon** and **Flexera** will show in the list.



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Allow apps to communicate through Windows Defender Firewall

To add, change, or remove allowed apps and ports, click Change settings.

hat are the risks of allowing an app to communicate?		🐤 Change settings			
Allowed apps and features:					
Name	Private	Public			
✓ DiagTrack	\checkmark				
☑ DIAL protocol server	\checkmark		1		
Distributed Transaction Coordinator			1		
☑ DNV daemon					
Email and accounts	\checkmark	✓			
✓ Feedback Hub	\checkmark	✓			
File and Printer Sharing					
File and Printer Sharing over SMBDirect					
✓ Flexera		✓			
🗹 Game Bar	\checkmark	✓			
☑ Get Help	\checkmark	✓			
✓ Intel(R) Management and Security Status	✓	✓			
	Details	Details Remove			
	Allow an	Allow another app			

If you have MARINTEK or MSC license, please add MARINTEK.exe and MAC.exe into above dialog.

Another way is to turn off windows defender firewall, but it is not recommended.

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