

This document describes the steps required to interface OpenLM with the EPLAN License Manager Professional server in order to monitor license usage and obtain license statistics. This guide is based on the EPLAN implementation integrated with OpenLM Broker v4.8.8. If you're using an older version of Broker that relies on the EventLog Monitor tool, please consult [this document](#) instead.

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## 1. Requirements

To query the EPLAN license manager, the following components must be installed:

1. EPLAN License Manager Professional installed on the license server (EPLAN License Manager **Basic** **does not** have a reporting interface and cannot be queried by OpenLM)
2. OpenLM Server v4.3 or higher installed on a machine in your organization
3. OpenLM Broker v4.8.8 or higher installed on the same machine as the EPLAN license manager

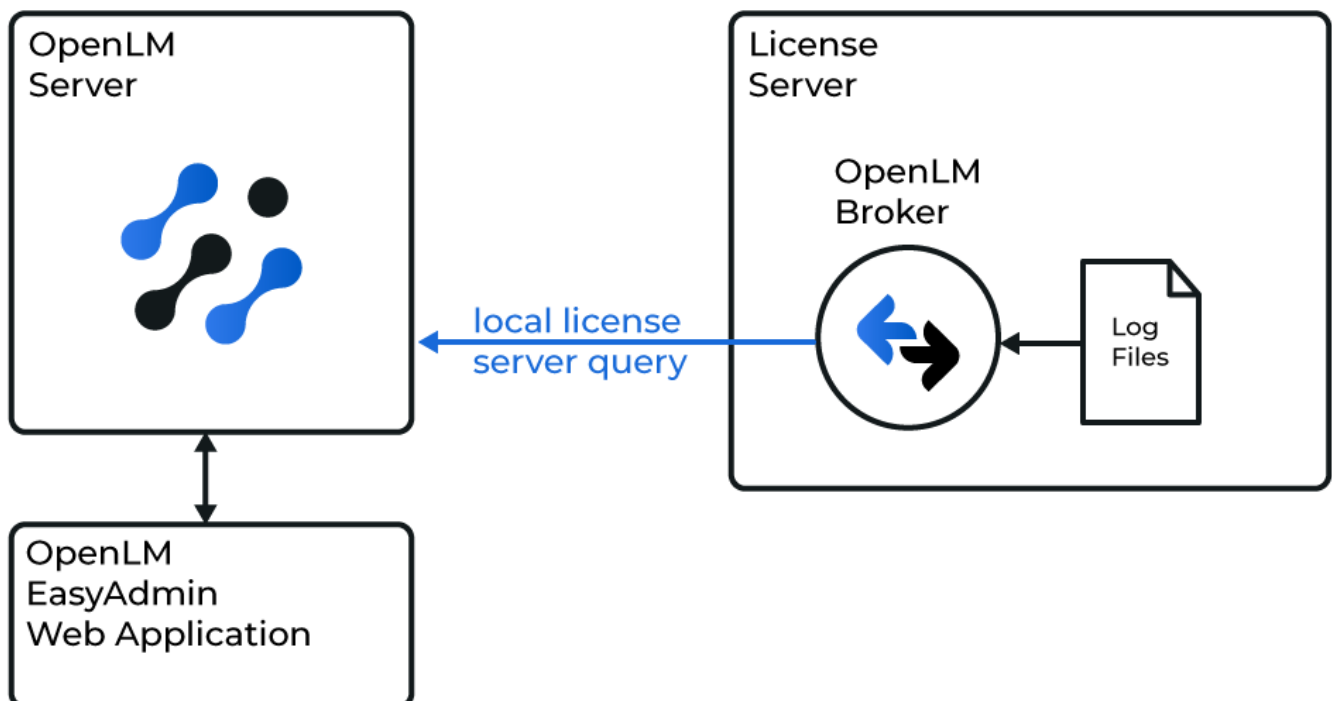
## 2. Monitoring capabilities and features

The monitoring capabilities available for the EPLAN license manager through the OpenLM Broker are as follows:

Feature	Resolution	License totals	License usage	Denials Reporting	Borrowed License Reporting	Expiration Date Reporting	Multiple Server Redundancy
Support	By second	☐	☐	☐	☐	☐	☐

Additionally, using the Broker component allows for buffered communication in case of network interruptions.

## 3. OpenLM Broker configuration



*Diagram of how OpenLM interfaces with the EPLAN license manager*

The mechanism on how OpenLM Broker interfaces the EPLAN license manager is as

follows:

1. Broker runs the **ElmMonitor.exe** tool at certain intervals to generate portions of the log file.
2. These fragments are compiled into one log file which is then converted into an XML file of the OpenLM Generic format.
3. All gathered license usage information is then sent to OpenLM Server for processing. This data is then accessible through the EasyAdmin interface.

Please note that OpenLM Broker must already be [installed](#) and [configured](#) to report to an OpenLM Server before proceeding any further.

### 3.1. Locating ElmMonitor.exe for logging functionality

In order to obtain license usage data from the EPLAN license manager, Broker must run the ELM Monitor application. The default location is the EPLAN directory (“C:/Program Files/EPLAN/ELM/ElmMonitor.exe”). If you cannot locate it, you must install the License Tools add-on, which can be found on your EPLAN installation media at **ELM\License Tools (x64)\setup.exe** or obtained from the EPLAN website.

For more information, please consult the “Installing the EPLAN License Manager Monitor” section in the EPLAN installation guide.

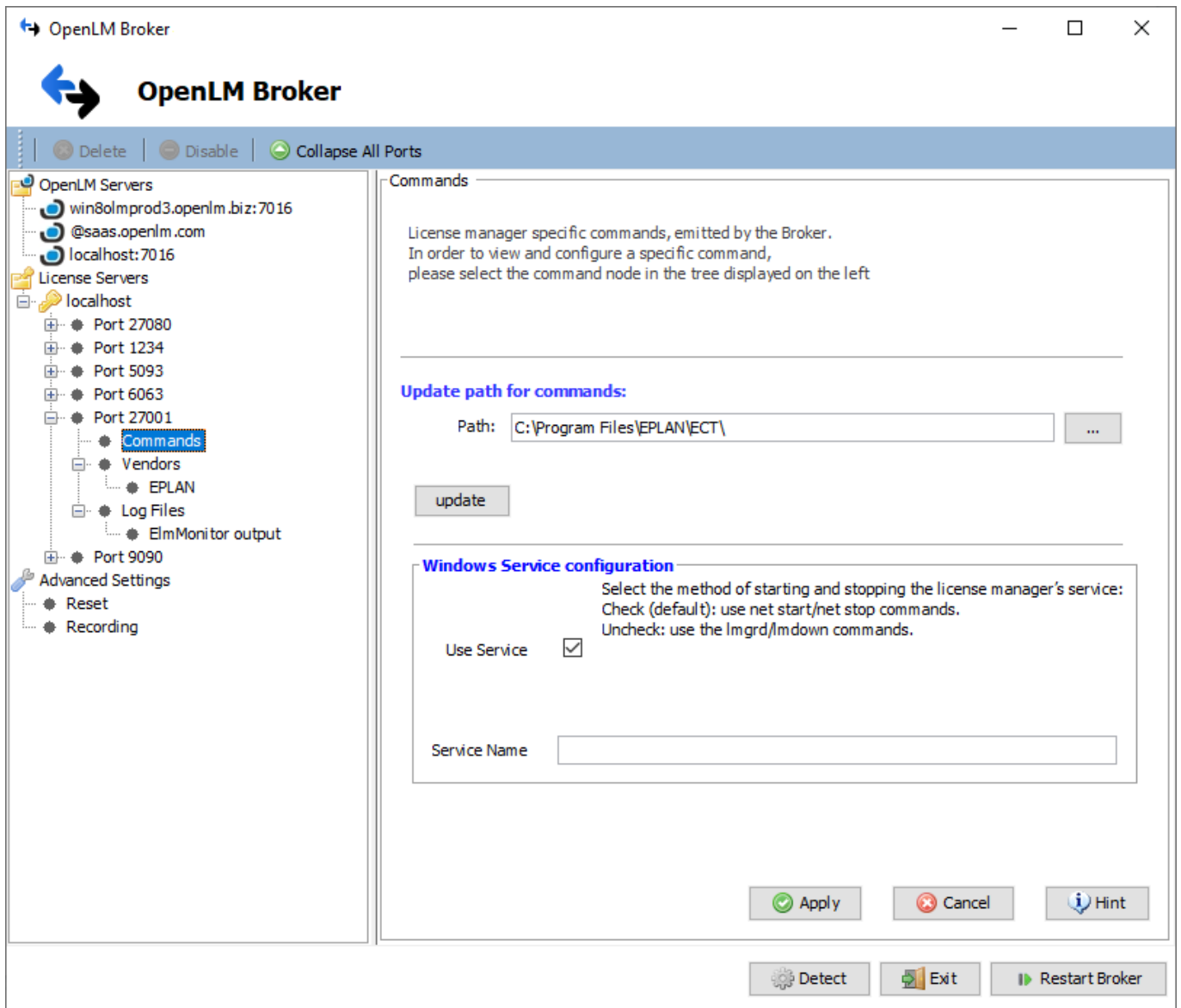
### 3.2. OpenLM Broker configuration tool settings

To set up Broker to monitor the EPLAN license server, in the OpenLM Broker configuration tool:

1. Click **Add Port**.
2. Enter any port number (since Broker interfaces EPLAN using only the log file, any value will do. E.g. **27001**).
3. Select **EPLAN** from the “License Manager Type” drop-down menu. Click **Apply**.
4. Select the **Commands** node. Click **[...]** next to the right of the “Update path for commands” field and browse to the location of **ElmMonitor.exe**. Click **Update** then **Apply**.

5. If you wish to change the default name and location of the log generated by Broker, go to **Log Files** → **ElmMonitor output**. Either type in a new path or click **[...]** and browse to an empty text file. Click **Apply**.
6. In a text editor, open the **EPLAN@PORT.properties** file that has been created in the OpenLM Broker folder (typically "C:\Program Files\OpenLM\OpenLM Broker").
7. Adjust the values as described in the "EPLAN.properties" section below. When done, save and close the file.
8. Click **Restart Broker**.
9. Follow the steps in the next section ("4. OpenLM Server configuration").





### 3.3. EPLAN.properties configuration

```

1 #####
2 # IMPORTANT !!!
3 # Use / as file separator
4 # If you copy-paste a path from Windows like the one below
5 # INVALID: D:\OpenLM\LogMonitor\logs\imglm_01_29_14.log
6 # Make sure to escape backslashes for configuration
7 # VALID: D:\\OpenLM\\LogMonitor\\logs\\imglm_01_29_14.log
8 # VALID: D:/OpenLM/LogMonitor/logs/imglm_01_29_14.log
9 #####
10 # Allowed values are "newer" and "newest". "newest" is best for safety. "newer" is good for testing.
11 monitored.log.next=newest
12
13 eplan.log.encoding=UTF-16LE
14 # ElmMonitor.exe is a GUI tool. It produces GUI popup messages in case of errors.
15 # /Silent flag is strongly recommended to avoid ElmMonitor.exe process leak
16 eplan.elmmonitor.path=C:\\Program Files\\EPLAN\\ECT\\ElmMonitor.exe
17 # Leave it empty to load default eplan_openlm.xml file, configure full path if you need to customize output
18 eplan.elmmonitor.xml=
19 # Format applied to /From and /To parameters
20 eplan.elmmonitor.datetime.format=dd.MM.yyyy HH:mm:ss
21 eplan.elmmonitor.timeout.seconds=60
22 eplan.delete.elm.files=true
23 eplan.sum.bundle.totals=false
24 eplan.bundles.path=C:\\Users\\Public\\EPLAN\\ELM\\Bundles.4elm
25

```

Properties file      length: 2.097    lines: 54      Ln: 1    Col: 1    Sel: 0 | 0      Windows (CR LF)    UTF-8      INS

The relevant values for the EPLAN@PORT.properties file should be configured as follows:

- **monitored.log.next** - used to specify which log file Broker should read: `newest` (default) means that if you have multiple files, the latest one will be chosen; `newer` is good for testing purposes and if you want OpenLM Broker to read historical data from multiple files, one-by-one. However with `newer`, it is not guaranteed that all data will be loaded.
- **eplan.log.encoding** - the encoding to be used for the generated EPLAN log file. We recommend leaving the default setting as is (default: UTF - 16LE)
- **eplan.elmmonitor.path** - the path to ElmMonitor.exe. Set it here if you have not configured it in step 4 of the configuration tool settings. Since ELM Monitor is a GUI tool, it is recommended to add `/Silent` at the end of the path to avoid possible process leaks.
- **eplan.elmmonitor.xml** - Leave empty to load the default `eplan_openlm.xml` file, or enter the full path if you need to customize output
- **eplan.elmmonitor.datetime.format** - Format applied to `/From` and `/To` parameters in the generated log file (default: `dd.MM.yyyy HH:mm:ss`)
- **eplan.delete.elm.files** - by default it is set to `true` in order to cleanup the

generated log files. Set to `false` for debugging purposes.

- **eplan.bundles.path** - Change if it doesn't match your system's EPLAN bundles path (default: `C:\Users\Public\EPLAN\ELM\Bundles.4elm`)

## 4. OpenLM Server configuration

### Automatic OpenLM Server configuration through EasyAdmin

If you have followed the steps in the sections above, OpenLM Broker should now be transmitting data to OpenLM Server. The final step is to approve the configuration in EasyAdmin:

1. Open the EasyAdmin interface either by accessing **`http://<OpenLM Server IP>:7019/EasyAdmin2/`** in your browser or through **Windows Start → OpenLM → OpenLM EasyAdmin User Interface**
2. In the License Servers window, hover over the red row that contains the details of the newly added EPLAN server entry and click **Approve**.

The rows in red represent license servers that are sending information via the broker but have not been configured. To add this server to the configured servers list, hover over the line and click 'Approve' or click 'Clear' to remove the entry from the current display. Note that removing an entry from the list will not prevent reappearance following subsequent receipt of data from the broker, so you should also check the broker configuration and change if required.

Stat...	Updated On	Name	Type	Q..	U..	B..	U..	Read License File
+	!	80@	OpenLM Generic	N/A	0	0	0.00	✓
+	✓	Up-to-date	Local AppManager	Un...	0	0	0.00	

Total number of servers: 1

At this point, the EPLAN license manager has been automatically added to OpenLM Server



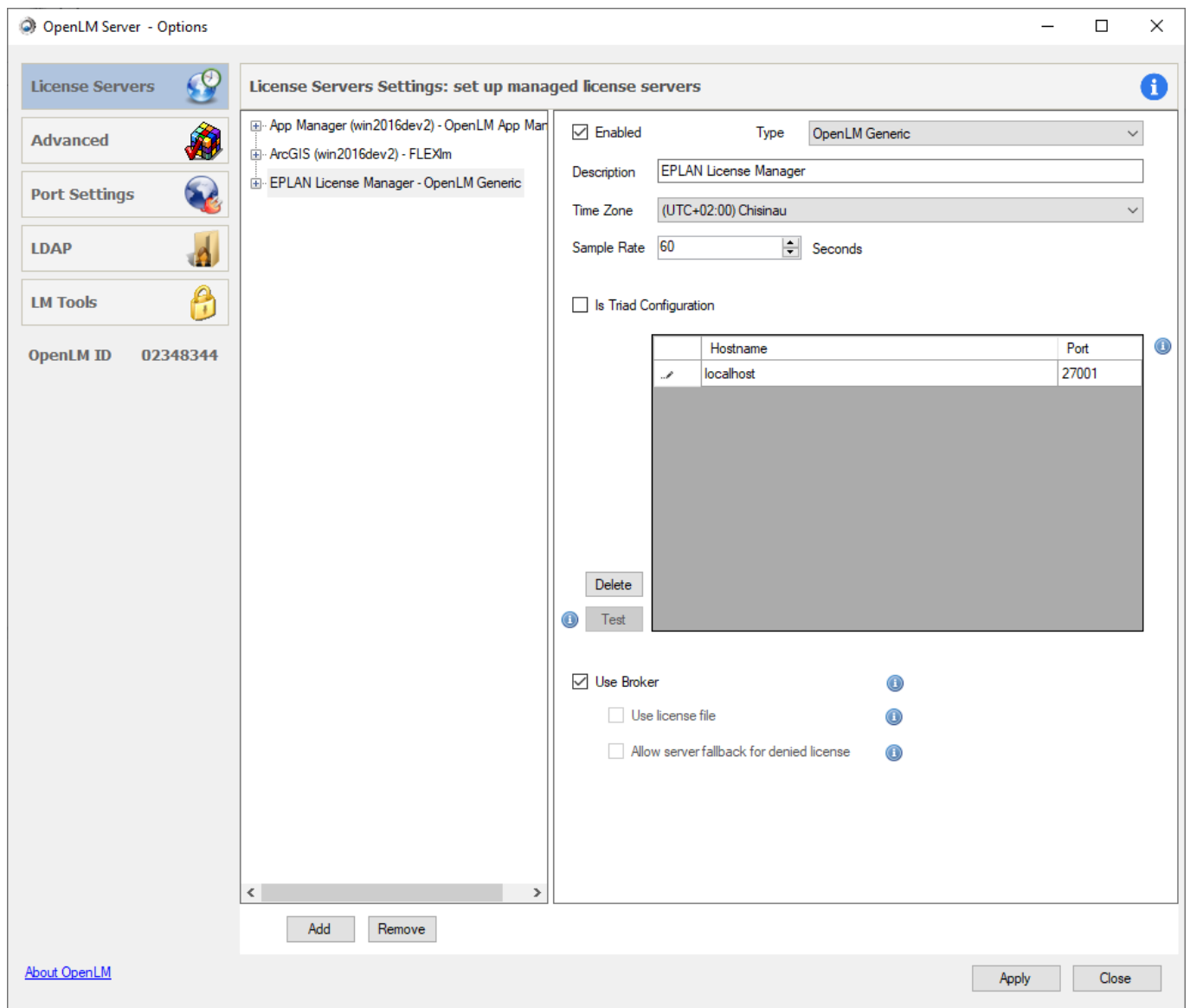
and configuration is complete.

### **Manual OpenLM Server configuration**

If EasyAdmin does not display the “Approve/Clear” message for the configured EPLAN license server, you must manually configure OpenLM Server to connect to the OpenLM Broker installation located on the EPLAN license manager machine.

#### **Adding an EPLAN server**

1. Select the **License Servers** tab.
2. Click **Add**.
3. From the **Type** drop-down menu, select **OpenLM Generic**.
4. Insert a description in the Description text box (e.g. “EPLAN license manager”)
5. Set the **Time Zone** to where the EPLAN license server physically resides.
6. Enter the **Hostname** and **Port** number of the machine where the EPLAN license manager is installed. They must be exactly as configured for OpenLM Broker.
7. **Is Triad Configuration** box: unchecked.
8. **Use Broker** box: checked.
9. Click **Apply** and close the OpenLM Server configuration tool.



OpenLM Server is now configured to monitor incoming data from OpenLM Broker.

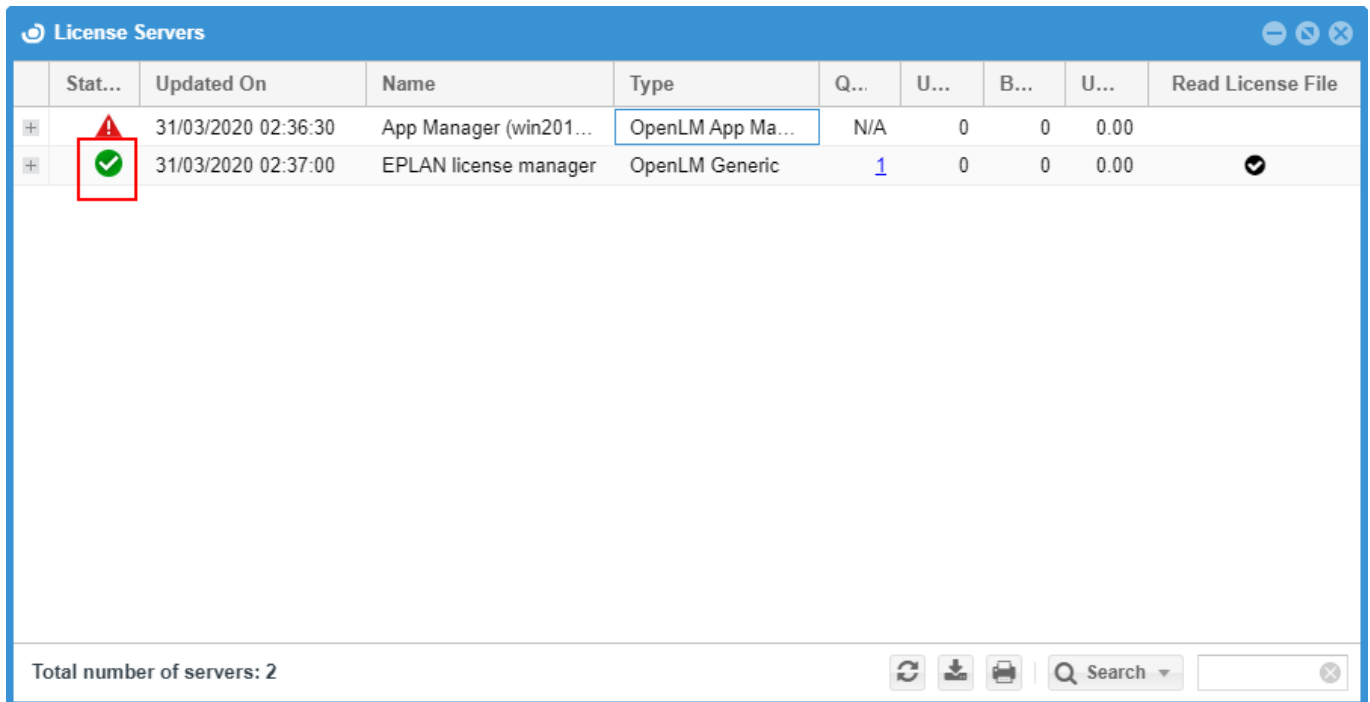
## 5. How to verify your EPLAN license manager configuration




To check if the EPLAN license manager is being monitored correctly:

1. Open the EasyAdmin web application (access **http://<OpenLM Server**

**hostname>/EasyAdmin2/index.html** in your browser)

2. Click **EasyAdmin Start → Widgets → License Servers**. Verify that the configured license manager(s) appears in the server list. A green circle node indicates an active connection to the license server.



	Stat...	Updated On	Name	Type	Q...	U...	B...	U...	Read License File
+		31/03/2020 02:36:30	App Manager (win201...	OpenLM App Ma...	N/A	0	0	0.00	
+		31/03/2020 02:37:00	EPLAN license manager	OpenLM Generic	1	0	0	0.00	

Total number of servers: 2

Please note that sometimes it may take up to 3 minutes for the status indicator to change if this is a new connection.