

# Orcina Licence Monitor

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## 1 Introduction

The Orcina Licence Monitor (OLM) suite of programs enables network administrators to monitor and log the usage of licensed Orcina programs on a network. In addition it allows users of these programs to determine who is using Orcina program licences.

The Orcina Licence Monitor suite consists of:

1. The licensed Orcina software, for example OrcaFlex, OrcaLay, or OrcaBend. We refer to these programs as *client* programs. Note that only more recent versions of the client programs are capable of communicating with the OLM server, these are:
  - OrcaFlex 8.7 and later.
  - OrcaLay 3.2 and later
  - OrcaBend 4.4 and later.
2. The OLM server. This is run as a service on a single machine on the network. Each client program connects to the OLM server. The OLM server keeps track of each running client and notifies the OLM Viewer of changes.
3. The OLM viewer. The OLM viewer communicates with the OLM server and displays information on each client program connected to the OLM Server. The viewer can be run on any workstation on the network and multiple copies may be running at any instant. The OLM viewer displays this information in two lists, a *Details* list and a *Summary* list. The details list shows information on every connected OLM client sorted by dongle name. The summary list has information grouped by Orcina client program or module, and dongle ID.

## 2 Hardware Requirements

OLM server and OLM Viewer require Windows XP or Later.

All the programs which make up the OLM suite (server, viewer and clients) must be connected over a TCP/IP network.

## 3 Installation

To install the Orcina Licence Monitor you must complete the following steps:

- Install and start the OLM server service.
- Install the OLM viewer on any computers that need to use it.
- Configure the `OLMServerAddress` setting in the registry on each computer that runs a client program on which the OLM Viewer will not be installed.

The installer program, OLM.msi, is used to install the OLM Server and Viewer components. The installer asks you to chose which component to install and will guide you through the configuration required. There are three settings you will need to define:

- The hostname or IP address of the machine running the OLM Server.

- The port number OLM will use
- A location for the OLM server log file.

Default settings are provided for the latter two, which need not be changed unless you have reason to do so.

When you start the installer you are first prompted for an installation folder. By default this is `%ProgramFiles%\Orcina\Licence Monitor` where `%ProgramFiles%` is the programs folder on your machine – often this is `C:\Program Files\`.

### 3.1 OLM Server Installation and Configuration

The OLM server needs to be installed on one computer on the network, the server runs as a service with the name `'OrcinaLicenceMonitorService'`. The installer copies the executable (called `OLMServer.exe`) to the installation folder and sets up and starts the service.

You are prompted to select a folder for the Server log file. The default is the chosen installation folder for the Licence Monitor; you may select another location using the Browse button. The Server log file, `OLMServer.log`, will be saved in this folder.

The TCP/IP port number should be left at the default value of 53413, unless you have reason to change it.

If values already exist in the registry (from a previous installation) then the installer will display these as the defaults. Non-default values for log path and port are stored in the registry under the following key:

```
Key: HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\  
    OrcinaLicenceMonitorService  
Name: Port Type: REG_WORD  
Name: LogPath Type: REG_SZ
```

Changes to these registry settings only take effect once the OLM server has been restarted.

### 3.2 OLM Viewer Installation and Configuration

The OLM viewer program can be installed on any computer that is on the same TCP/IP network as the OLM Server. The installer copies the OLM viewer executable (called `OLMViewer.exe`) to the installation directory and prompts for two configuration settings, the network address and port the OLM Server is using. The OLM viewer is started from the Windows Start menu: `Programs | Orcina Software | Licence Monitor`.

The installer prompts for a host name or IP address of the OLM Server. If a registry setting already exists for this (from a previous installation) then this value will be displayed otherwise the box will be blank. A value must be entered, as there is no default. The port number should again be left as the default value of 53413, unless some other port is being used. The installer stores these settings in the registry under the following key:

```
Key: HKEY_LOCAL_MACHINE\Software\Orcina  
Name: OLMServerAddress Type: REG_SZ  
Name: OLMPort Type: REG_DWORD
```

Changes to these settings only take effect once the OLM viewer has been restarted.

### 3.3 Client Configuration

Client programs (e.g. OrcaFlex, OrcaLay and OrcaBend) share the same registry settings as the OLM Viewer. If the OLM Viewer is not going to be installed on a client machine then the registry settings above need to be set manually. The `OLMServerAddress` needs to be set to the OLM Server network address (e.g. myserver or 123.456.7.89). The `OLMPort` setting need only be set if a value other than 53413 is being used.

## 4 Uninstalling OLM

The OLM Server and Viewer programs can be uninstalled from the Windows Add/Remove Programs Wizard available from the Control Panel.

## 5 OLM Operation

### 5.1 Client program / OLM server interaction

When an Orcina client program is started it attempts to find an Orcina dongle with available licences.

If the client successfully claims an available licence it connects to the OLM Server, which logs a *Connected* event. The OLM server then notifies any connected OLM viewers of the changes to its client list.

If the client was able to find a dongle but was unable to find any unclaimed licences then it briefly connects to report this. The OLM Server logs this as a *No Licence Available* event.

When a client program closes and releases its claimed licences the OLM server logs this as a *Disconnected* event and notifies any connected OLM viewers.

All of the events described above are logged to a file by the OLM server.

If the server is stopped and restarted, or there is a network problem preventing access to the OLM server, then the clients and OLM viewers will continue to try and reconnect to the OLM server.

### 5.2 Log File

The log file, `OLMServer.log`, is a tab delimited text file. Each entry in the log file records the same client and module details as displayed in the OLM viewer's details view. In addition there is a client id number and an event type.

The client id is a unique number assigned to a client when it connects to the OLM server. The id number links the connected and disconnected events recorded in the log file to an individual client connection.

The event type can be one of the following values: *Connected*, *Disconnected* or *No Licence Available*.

The log file is continually appended to by the OLM Server. You will need to stop the `OrcinaLicenceMonitorService` in order to delete the log file.