

License Renewal Comparison Tool

Subtopics

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2. [Executing a comparison](#)
3. [Managing files to compare](#)
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5. [getOrderNumbers tool](#)

The License Renewal Comparison Tool supports you in the annual license renewal process.

The tool allows you to compare the license inventory of your license servers with the License Renewal Portal's download records. These portal downloads (**Renewed....csv** and **To-Be-Renewed....csv**) show which licenses were already renewed, and which licenses still need to be renewed.

You must have visited the License Renewal Portal and your license servers before running the License Renewal Comparison Tool, so that those inputs to the tool are already available.

The License Renewal Comparison Tool displays the download records, the license inventory of your license servers, and any mismatching in a tabular format. Having all this information in one place will make any licensing discrepancies visible.

- [Installing and updating the Comparison Tool](#)
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Installing and updating the Comparison Tool

The License Renewal Comparison Tool is written in Java and can be run on a PC running Microsoft (MS) Windows, or on a Red Hat Enterprise Linux (RHEL) workstation, including a V93000 system controller or an RHEL workstation serving as a FLEXIm license server.

About this task

Note: Every year, starting 2017, Advantest will provide an updated license product list. You must install this list before using the License comparison Tool.

The installation and start procedures differ between Microsoft (MS) Windows and Red Hat Enterprise Linux (RHEL). Once installed, you can run the Comparison Tool in on-line or in off-line mode in either environment.

Before you begin

Download the installation files for the Comparison Tool from the Advantest web page as follows:

Go to: www.advantest.com/licensing and go to **Download License Comparison Tool and GetOrderNumbers Tool.**

Download the installation package appropriate for your computer operating system. The available packages are:

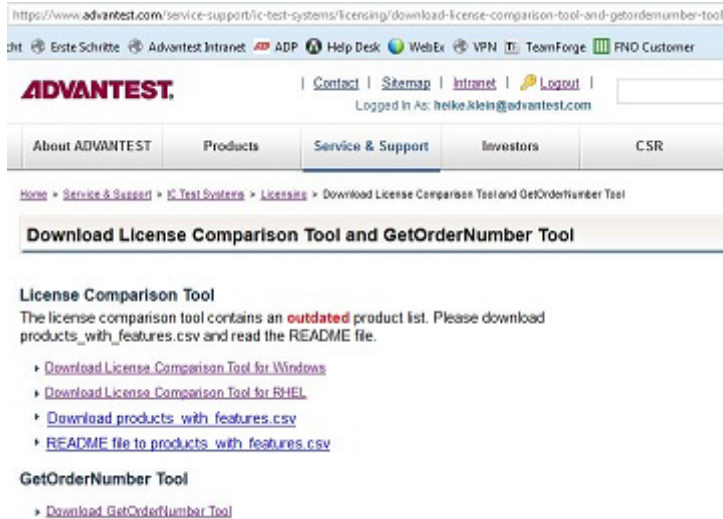
- MS_Windows_Installation_Package_64bit
- MS_Windows_Installation_Package_32bit
- Linux_Installation_Package_for_RHEL5

Note: Also download the getOrderNumbers tool appropriate for your system controller operating system. You will need this file later. The available tools are:

- GetOrderNumbers_Tool_0.91_for_RHEL5

- `GetOrderNumbers_Tool_0.91_for_RHEL7`
- `Products_with_features.csv`

Note: Check the date on the webpage to make sure that you have the latest version of the `Products_with_features.csv` file.



You can download the installation files for the Comparison Tool from the Advantest web page or via the start page of the License Renewal Portal.

1. To download the tool from the Advantest web page sign on to the Advantest Software Center and go to: **Other Software > Active Tools and Files > Licensing > LicensingTools.**
2. Download the appropriate tool for your operating system and the `products_with_features.csv` file.

Procedures

MS Windows installation and start:

1. Execute the `RenewalComparison.exe` file. The installation wizard appears.
2. To complete the installation follow the instructions.
3. Save the new `Products_with_features.csv` file to the following location:

64 bit: `c:\Program Files(x86)\Advantest\Renewal`

32 bit: `c:\Program Files\Advantest\Renewal`

4. To start the Comparison Tool on a PC click

Start > All Programs > Advantest > Advantest License Renewal Comparison Tool > Renewal.bat

The welcome window with further information appears (see below).

RHEL installation and start:

To install the Comparison Tool on RHEL you must have superuser rights.

1. Open a Terminal Window and switch user (su) to superuser (root).
2. Change to the directory where you saved the `RenewalComparison*.bin` file.
3. To execute the installation package type

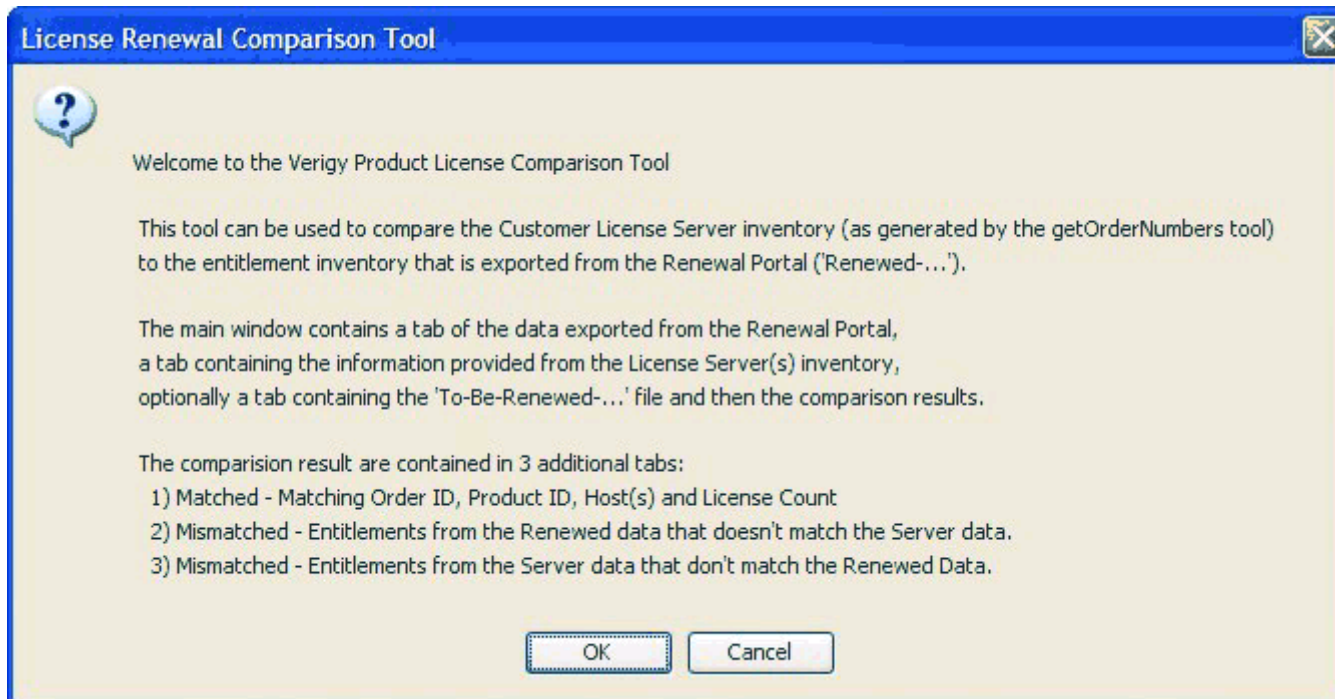
```
./RenewalComparison_e15_x86_64.bin
```

This unpacks the installation wizard and launches it.

4. To complete the installation follow the instructions.
5. Save the new `Products_with_features.csv` file to the following location:
`/opt/93000.Renewal/bin`
6. To close the installation wizard click **Done**.
7. Exit the superuser mode.
8. To start the Comparison Tool type
`/opt/93000_Renewal/bin/startComparisonTool`

Results

The Comparison Tool starts with the welcome window which provides further information.



What to do next

If you have the files required for a comparison click **OK**. If not, click **Cancel** and restart the Comparison Tool once you have the required input files.

Related information

[Executing a comparison](#)

[Managing files to compare](#)

Executing a comparison

The License Renewal Comparison Tool helps you to make any licensing discrepancies visible by comparing the license status of your license servers against the status of the Advantest License Renewal Portal.

About this task

The tool prompts you to load several input files and automatically compares them against each other and a list of Advantest products and features. You can run the tool on a Linux workstation or on a PC running Microsoft Windows.

Before you begin

Before starting the Comparison Tool, you must have downloaded the required portal files from the License Renewal Portal. In addition, you must have run the [getOrderNumbers tool](#) on your license servers.

Note: Check the date on the webpage to make sure that you have the latest version of the `Products_with_features.csv` file.

Before you start a comparison you must have the following files ready:

- Portal download file of already renewed licenses (`Renewed-*-date.csv`)
- License server inventory file or files (*.txt) generated by the `getOrderNumbers` tool.

The following file is optional:

- Portal download file of still to be renewed licenses (`To-Be-Renewed-*-date.csv`)

If you Do not have the required input files you cannot complete the comparison.

Advantest recommends to collect all these files in a single directory. This will ease the task. For details see [Managing files to compare](#).

Procedure

1. Start the Comparison Tool (see [How to install and start the Comparison Tool](#)).
2. Follow the instructions and load the following files:
 - the portal download file of renewed licenses (Renewed-*-date.csv).
 - optionally, the portal download file of still to be renewed licenses (To-Be-Renewed-*-date.csv).
 - the license server inventory *.txt files generated by the [getOrderNumbers](#) tool.

Results

The Comparison Tool's processes and compares all these files against the data displayed in the Product Number Key tab (see below). The process may take a few seconds. When done, the tool displays the result in up to seven tabs. Per default the Matched tab shows up in the foreground.

License Server(s)	N5802UPRM	N5921UPRM	N5922UPRM	Entitlement
0011BB222222	1			1234567890
Totals	1	1	1	9999999999
00AA33333333	1			2220001111
Totals	1	1	2	2230002222

Status: READY 3:19 PM

The tabs of the tool contain the following data:

- **Product Number Key:**

Maps Product IDs, Product Descriptions, and the relevant Licensing Model. This data is required to map the features of the license inventory files with the product numbers in the portal download files.

- **Renewed_In_Portal:**

Lists all licenses that were already renewed and also shows if there is any remaining data.

- **To_Be_Renewed_In_Portal:**

Lists all licenses which still need to be renewed. Advantest recommends to use this download data from the License Renewal Portal as it provides insight, in case the renewal process does not run as smooth as expected.

- **License_Server_Output:**

Lists all licenses found by the getOrderNumbers tool on the license servers.

- **Matched:**

Lists those entitlements that were renewed and could be located on the license servers. These entitlements require no further effort.

- **Renewed_Entry_Without_Server_Entry:**

Lists any entitlements that were renewed but have no matching entry in the License Server inventory data. These could have been rehosted or never installed on the license servers. Any entry here represents a discrepancy and requires further investigation.

- **Server_Entry_Without_Renewed_Entry:**

Lists any entitlements found in the License Server inventory data, but not found in the License Renewal Portal. Again, any entry here represents a discrepancy and requires further investigation.

What to do next

You can save the data of any tab in a spreadsheet format. To save a tab move it to the foreground and click **Save As....** See also [How to save resulting files](#).

If there are any discrepancies, that is, any entries in the `Renewed_Entry_Without_Server_Entry` or `Server_Entry_Without_Renewed_Entry` tabs, please proceed as outlined in [How to proceed in case of discrepancies](#).

Related information

[Managing files to compare](#)

[getOrderNumbers tool](#)

[How to proceed in case of discrepancies](#)

Managing files to compare

Subtopics

1. [How to restart and reload files](#)
2. [How to filter license data](#)
3. [How to view and sort data](#)
4. [How to save resulting files](#)
5. [How to view and save the log file](#)

The License Renewal Comparison Tool requires the following input files:

- One or more license server inventory file or files (`*.txt`) generated by the `getOrderNumbers` tool.
- Portal download file of already renewed licenses (`Renewed-**-date.csv`)

Optionally, you can load the portal download file of still to be renewed licenses (`To-Be-Renewed-**-date.csv`).

The comparison tool processes these files against the data in the Product Number Key tab. This data is provided with the yearly updated version of the tool (see [How to install and start the Comparison Tool](#)).

License server inventory .txt files

In most cases you will have a single license server inventory file (`getOrderNumbers` output file).

This is the case if your licensing setup consists of a single FLEXlm license server, if it is a three-license-server redundancy configuration, or for multiple independent license servers in a network. For these configurations you will have one license server inventory file showing the installed licenses for all license servers.

Only in case of multiple license servers in independent networks you will have one license server inventory file per network. In this case you must run the [getOrderNumbers tool](#) on a server in each network.

You must use a `.txt` file name extension for each file, for `example license-inventory-server01.txt`.

Renewed-*-date.csv files

You must visit the License Renewal Portal before running the Comparison Tool. The portal allows you to download a record file which lists the already renewed licenses (`Renewed-*-date.csv`).

To-Be-Renewed-*-date.csv files

The License Renewal Portal also allows you to download record file of still to be renewed licenses (`To-Be-Renewed-*-date.csv`). This file as it provides insight, in case the renewal process does not run as smooth as expected.

Collect in single directory

The License Renewal Portal writes both .csv record files into a `License.zip` file. For further processing you need to extract them.

Avantest recommends to create a single directory or folder, for example `verigy-license-renewal-year`, and collect all these files in this directory. If all input files are available in your local file system, you can run the Comparison Tool stand-alone in off-line mode.

The directory of your collected input files may look as follows:

```
verigy-license-renewal-2009/license-inventory-server01.txt
```

```
verigy-license-renewal-2009/Renewed-*-date.csv
```

```
verigy-license-renewal-2009/To-Be-Renewed-*-date.csv
```

Related information

[Installing and updating the Comparison Tool](#)

[getOrderNumbers tool](#)

How to restart and reload files

Restarting the comparison process or reloading files may be required when you have additional or updated input data.

About this task

If you restart the process, you follow the prompts of the License Renewal Comparison Tool and reload the files as requested. (See the procedure instructions below.)

You can also reload single files individually or load additional license server inventory files. In this case click **File > Open...** and select the required files.

In both cases, once the last required file is loaded, the Comparison Tool automatically reprocesses the currently loaded files and displays the result.

Before you begin

To restart the comparison process or to reload updated files, the Comparison Tool must be running and you must have completed the comparison process at least once. Make sure you have the additional or updated files available. If not, you cannot complete the task and the Comparison Tool will close.

Procedure

1. To restart the comparison process, click **File > Restart**.
The Portal Export Available dialog appears and asks you to load the portal export file of renewed licenses (`Renewed-*-date.csv`).
2. If you have the required portal export file click **Yes**. The Select Renewal Portal Export File dialog appears.

3. Navigate to the directory containing the portal export files, and double-click the `Renewed-**-date.csv` file. The Comparison Tool's main window changes to two tabs and a dialog prompts you to optionally load the portal export file of un-renewed and unassigned licenses (`To-Be-Renewed-*-date.csv`).
4. If you have the `To-Be-Renewed-*-date.csv` file click **Yes** and load the file. If you Do not have the file click **No**.
In both cases the next dialog appears and asks you to load your license server inventory `*.txt` files.
5. If you have the license server inventory `*.txt` files click **Yes**. A select dialog appears.
6. Click the `*.txt` file containing your license server inventory data (for example, `my_licenses.txt`) and **Open**. You can also press **Shift** or **Ctrl** and select multiple files to load.
An additional tab opens in the Comparison Tool's main window and the Additional Server Inventory Files? dialog appears.
7. If you have any additional license server inventory `*.txt` files click **Yes** and proceed as before to load the files. If you have no additional files click **No**.

Results

The Comparison Tool's main window now shows up to seven tabs, and displays the Matched tab in the foreground.

How to filter license data

Filtering allows you to reduce the amount of displayed license data.

About this task

To reduce the amount of displayed data you can filter the data either based on

- customers,
- license server host IDs,
- order IDs,

- product descriptions, or
- license expiration dates.

To sharpen the focus even further you can also combine these filter parameters.

Before you begin

All required files must be loaded and the Comparison Tool must have completed the comparison process.

Procedure

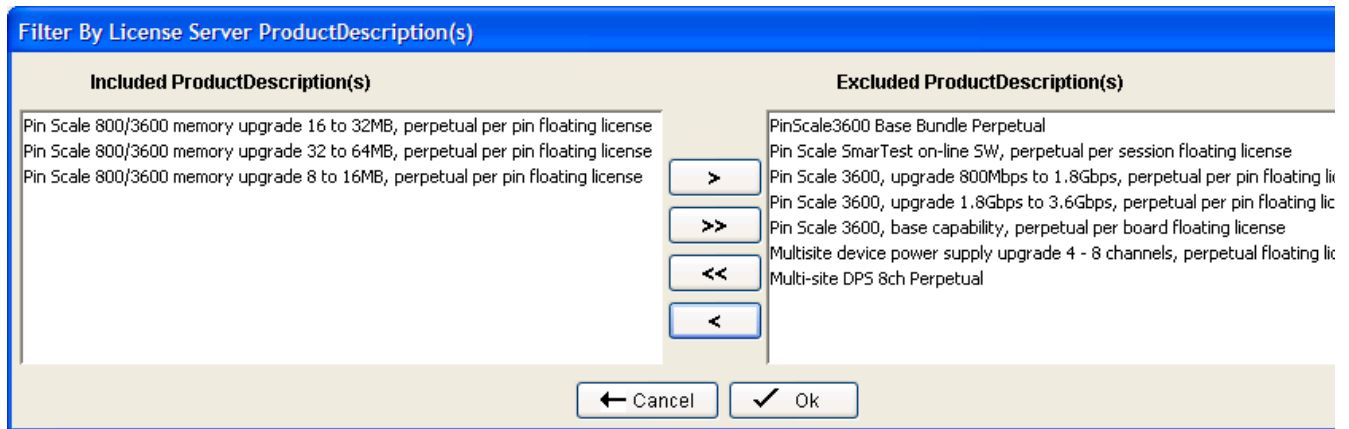
1. To filter based on product descriptions, for example, click **Filter > Filter Using Product Descriptions**.
The filter dialog appears. On the left it shows the included items, on the left the excluded items.
2. To move an individual parameter to the right to be excluded, click first the parameter then click **>**. To move one to the left to be included, select it and click **<**.
3. To move all parameters to the right, click **>>**. To move all to the left, click **<<**.
4. To complete the filtering and close the dialog click **OK**.

Results

The selected filter parameters are applied and the Comparison Tool shows a reduced amount of data in all tabs.

The filtering parameters will stay applied until you exit the tool or click **Filter > No Filtering**.

Example



How to view and sort data

Toggling between list and matrix views views plus sorting data columns allows you to improve readability or display data according to your needs.

About this task

You can toggle the view of the tabs

- Renewed_in_Portal
- To_Be_Renewed_in_Portal (if data loaded)
- License_Server_Output

Data columns can be sorted in list views that show the raw data without coloring. The current sort column is marked by a green arrow, pointing either upwards (ascending) or downwards (descending).

Colored matrix views are fixed and cannot be sorted. In this matrix view, you can display tool tips with a product description for each product number.

Before you begin

You must have loaded all files and the tool must have completed the comparison before you can toggle views or sort data.

Procedure

- To toggle a view:

Right-click a supported tab and click **Toggle ... View**.

The tab switches either from a colored matrix view to a list view or vice versa.

- To sort a data column:

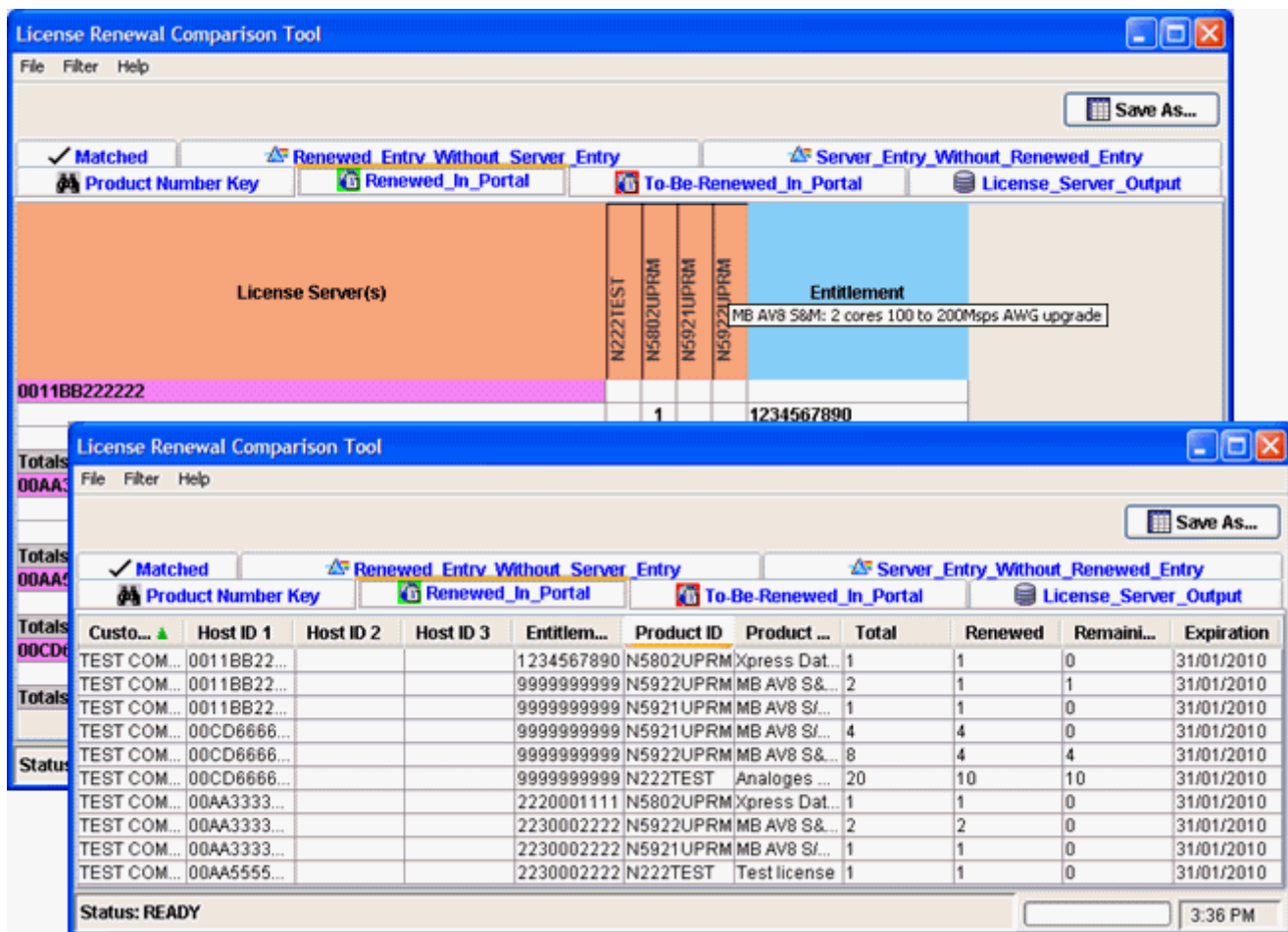
In a list view click any data column header. The whole table is rearranged based on the alphanumerical sort order of this column. A green arrow indicates the sorted column.

The first click produces an ascending order, a second click produces a descending order. The third click brings it it back to its original order.

- To display tool tips:

In a colored matrix view move the pointer over a product number in the header. The appearing tooltip displays the more familiar product description.

Example



How to save resulting files

The License Renewal Comparison Tool displays the result of the comparison process in several tabs, for example the Matched tab. You can save each tab in a .csv spreadsheet file.

About this task

Saving the comparison results allows you to view the .csv files in a spreadsheet software like MS Excel.

Before you begin

The Comparison Tool must be running and must have completed the comparison at least once.

Procedure

1. To save the contents of a tab, click the tab to bring it to the foreground.
2. Click **Save As....**
A save dialog opens. Default location is your home directory. Default file name is the name of the tab plus the current date and time: `Nameyyymmddhhmm.csv`, for example `Matched200901210915.csv`
3. To accept the default location and file name click **Save**.

Results

The result file is saved and ready to be opened in a spreadsheet software.

Example

	A	B	C	D	E
1	License Server(s)	N5802UPRM	N5921UPRM	N5922UPRM	Entitlement
2	0011BB222222				
3		1			1234567890
4			1	1	9999999999
5	Totals	1	1	1	
6	00AA33333333				
7		1			2220001111
8			1	2	2230002222
9	Totals	1	1	2	
10					

How to view and save the log file

The License Renewal Comparison Tool provides a log file which lists all files you loaded and any issues during the comparison process.

About this task

Checking the log file will give you confidence that the comparison process ran successfully without errors. In case of errors you can review the log file for information. This file may also be requested by Advantest support personnel to debug any tool issues.

Before you begin

The Comparison Tool must be running and must have completed the comparison at least once.

Procedure

1. To view the log file click **Help > Show Log**. A dialog window displays the log file.
2. To save the log file click **Save As...**

The default location is your home directory. The default file name is `RenewalLog.txt`.

Example

Your log file may look as follows:

```
Tuesday, October 21, 2008 - 11:33 AM
>>>> Logging Started <<<<

Tuesday, October 21, 2008 - 11:33 AM
V93000 License Renewal Utility, Version 2009 (build 20080805.2211)

Tuesday, October 21, 2008 - 11:33 AM
Copyright(c) 2008, 2009 Verigy Limited, Verigy US Incorporated, All Rights Reserved.

Tuesday, October 21, 2008 - 11:33 AM
Loaded Verigy Products with Features File: products_with_features.csv

Tuesday, October 21, 2008 - 11:34 AM
Loaded Portal License Renewal Export File: Renewed_name-date.csv

Tuesday, October 21, 2008 - 11:34 AM
Loaded Portal To-Be-Renewed License Export File: To-Be-Renewed_name-date.csv

Tuesday, October 21, 2008 - 11:35 AM
Loaded Server Inventory File: license-inventory-server01.txt
```


How to proceed in case of discrepancies

The Advantest License Renewal Comparison Tool helps you to compare the license status of your license servers against the status of Advantest's license database (reflected in the Advantest License Renewal Portal).

About this task

Solving these discrepancies may be a tedious task. The recommendations below can only be on a general level, as every situation will be different.

Any discrepancies will be listed in the **Renewed_Entry_Without_Server_Entry** or **Server_Entry_Without_Renewed_Entry** tabs of the Comparison Tool.

The recommended procedures differ depending on where the unmatched license was found.

Before you begin

Make sure your input files are up-to-date and reflect the current status.

Make sure you have all input files, especially in case of multiple license inventory files.

Procedures

Renewed_Entry_Without_Server_Entry tab:

An entry in this tab means, an entitlement was renewed in the license database, but was not found on any of your license servers. The reason could be one of the following:

- You may have missed out one license server when running the getOrderNumbers tool.
 - **Solution:** Run the getOrderNumbers tool on that license server host.

- You may have forgotten to load one or more of the generated license inventory files.
 - **Solution:** Load the files.
- You may have activated a license but never installed it on your license servers.
 - **Solution:** Install the license and rerun the getOrderNumbers tool.
- You may have transferred a license to another legal entity or to another user, but that transfer was not yet reflected in the entitlement assignment in the License Renewal Portal.
 - **Solution:** Update the license database and assign the correct owner.

If none of the above applies, please contact your Advantest representative.

Server_Entry_Without_Renewed_Entry tab:

An entry in this tab means, a license was found on one of your license servers, but was not renewed in the license database. The reason could be one of the following:

- You may have forgotten to assign the entitlement to the user of the License Renewal Portal.
 - **Solution:** Assign the entitlement.
- You may have purchased a new product, and its license needs to be renewed for the first time.
 - **Solution:** The newly purchased licenses will show up in the To_Be_Renewed data once the Renewal round starts. Please check the download records of To_Be_Renewed licenses.
- You may have transferred or rehosted a license to another user, server, or to another legal entity, but that transfer or rehosting was not yet completed on the license server.
 - **Solution:** Remove the license from your server.
- You may have received a license from another user or legal entity, but that transfer is not yet reflected in the License Renewal Portal.
 - **Solution:** Update the Entitlement Assignment in the License Renewal Portal.

If none of the above applies, please contact your Advantest representative.

What to do next

Once the discrepancy is solved, make sure both your license servers and the license database are up-to-date.

getOrderNumbers tool

Subtopics

1. [Running the getOrderNumbers tool](#)

The getOrderNumbers tool provides you with a complete list of the licenses installed on your license servers. This output is one of the files required by the License Renewal Comparison Tool and helps you with the annual license renewal process.

CAUTION: Do not run the `getOrderNumbers` tool under user `root`. This can lead to longer execution times.

Note: Prerequisite: FLEXlm license server software version: $\geq 11.9.1.1$.

Note: The `getOrderNumbers` tool is available for Red Hat Enterprise Linux 5 and 7. Use the version applicable to your operating system version.

You can run the `getOrderNumbers` tool either on one of your license server hosts or on any of the SmarTest clients.

Sign on to the Advantest Software Center and go to: **Other Software > Active Tools and Files > Licensing > LicensingTools > getOrderNumbers**

To install the tool, extract it and copy it to a host in your network, for example at `/home/my_name/license-renewal-tools/getOrderNumbers.`

Once you copied the file, make sure it is executable.

For the recommended three-license-server redundancy configuration or for multiple license servers within a network, you need to run the `getOrderNumbers` tool only once, either on one of the license server hosts or on a SmarTest client host.

If you have license servers in multiple independent networks, you must run the `getOrderNumbers` tool in each network.

Example

For example, for a three-license-server redundancy configuration, the output is one license server inventory file showing the installed licenses for all three servers:

```
(Version: 0.8)
Warning: LM_LICENSE_FILE not set. Using default path /opt/flexlm/license to check for your available licenses.
To set the LM_LICENSE_FILE do the following: export LM_LICENSE_FILE=<port>@<host>:<port>@<host> ...
Check server: /opt/flexlm/license/lic_info.lic

License String | Count | License Server | Expir. Date | Server Hostid | Server2 Hostid | Server3 Hostid | Renew | Order ID
-----|-----|-----|-----|-----|-----|-----|-----|-----
Digital_Shared_Mem_16_32MB | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 1347363
Digital_Shared_Mem_16_32MB | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 359000765
Digital_Shared_Mem_16_32MB | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 359000765
Digital_Shared_Mem_32_64MB | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 1347363
Digital_Shared_Mem_32_64MB | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 378001437
Digital_Shared_Mem_32_64MB | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 378001437
Digital_ES010_A_500_1800Mbps | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 1347363
Digital_ES010_A_500_1800Mbps | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 378001437
Digital_ES010_A_500_1800Mbps | 3411 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 359000765
o
o
o
DC_E9711_CM_4_8 | 3 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 1347363
DC_E9711_CM_4_8 | 2 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 378001437
DC_E9711_CM_4_8 | 2 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 359000765
SmarTest_50C | 1 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 359000765
SmarTest_50C | 1 | /opt/flexlm/license/lic_info.lic | 31-Jan-2009 | server_01 | server_02 | server_03 | Yes | 378001437
SmarTestOffline_50C | 1 | /opt/flexlm/license/lic_info.lic | permanent | server_01 | server_02 | server_03 | No |
SmarTestOffline_50C | 5 | /opt/flexlm/license/lic_info.lic | permanent | server_01 | server_02 | server_03 | No |

Summary of detected order numbers:
-----
Detected renewable order number: 1347363
Detected renewable order number: 359000765
Detected renewable order number: 378001437
```

Related information

[License Renewal Comparison Tool](#)

Running the getOrderNumbers tool

You need to run the `getOrderNumbers` tool as preparation for the annual license renewal. The tool creates a complete list of the FlexLM licenses installed on your license servers. The output is one of the files required by the License Renewal Comparison Tool.

About this task

You will run the `getOrderNumbers` tool either on one of the FlexLM license server hosts or on a SmarTest client. The tool is supported on Red Hat Enterprise Linux 5 and 7 (RHEL 5 and RHEL 7). Use the version applicable to your operating system version..

To run the tool type:

```
./getOrderNumbers [-q<quiet>] [-s<ummary>]
```

The command options are:

`-q<quiet>`: Hide detailed license information and display only the detected order numbers.

`-s<ummary>`: Display only the summary of all license quantities and Do not split the counts per order number.

Before you begin

Make sure your license configuration either uses the default path `/opt/flexlm/license`, or you have set the `LM_LICENSE_FILE` environment variable. Otherwise licenses cannot be found. See chapter 3 of the *Macrovision FLEXlm End Users Guide* for a complete explanation of how to use this environment variable to establish a multiple server network.

Procedure

1. Open a terminal window and change to the directory where you installed the `getOrderNumbers` tool.
2. Type, for example

```
$ > ./getOrderNumbers > license-inventory-server01.txt.
```

 This saves the output to the `license-inventory-server01.txt` file. The Comparison Tool expects a file with a `.txt` file name extension.
3. Copy the license inventory file to the directory where you collect the files for the comparison process, for example `verigy-license-renewal-2009`. (See also [Managing files to compare](#)).

Results

The created output file is the license inventory file required for the license renewal comparison process. The file lists all license servers that were checked, provides a table with all FlexLM licenses installed in your license environment, plus a summary of the detected renewable order numbers at

the bottom.

Example

```
(Version: 0.8)
Warning: LM_LICENSE_FILE not set. Using default path /opt/flexlm/license to check for your available licens
To set the LM_LICENSE_FILE do the following: export LM_LICENSE_FILE=<port>@<host>:<port>@<host> ...
Check server: /opt/flexlm/license/2230003476_00aa33333333.lic
Check server: /opt/flexlm/license/2230002222_00bb19466101.lic
```

License String	Count	License Server	Expir. Date	Server Hostid	Renew	Order
xpressdata_SOC	1	/opt/flexlm/license	31-jan-2009	00aa33333333	Yes	22200
Analog_E9722B_Src_2_4	1	/opt/flexlm/license	31-jan-2009	00aa33333333	Yes	22300
Analog_E9722B_Meas_2_4	1	/opt/flexlm/license	31-jan-2009	00aa33333333	Yes	22300
Analog_E9722B_Src_100_200Mps	4	/opt/flexlm/license	31-jan-2009	00aa33333333	Yes	22300

Summary of detected order numbers:

```
-----
Detected renewable order number: 2220001111
Detected renewable order number: 2230002222
```

What to do next

The created license inventory file is required for the license renewal comparison process. For details see [How to execute a comparison.](#)