

# HP Operations Agent

Software Version: 12.00

Windows®, HP-UX, Linux, Solaris and AIX

## License Guide

Document Release Date: September 2015

Software Release Date: September 2015



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### Acknowledgements

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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# Chapter 1: Introduction

Based on the type of installation, you can use the HP Operations Agent with one of the following types of licenses:

- Evaluation License
- Extended License
- Permanent License

The `oalicense` utility helps you enable a license. In addition, you can migrate from one type of license to another with the help of the `oalicense` utility.

## Evaluation License

If you install the product on a standalone node, you can use the HP Operations Agent only after you set the license on the node. The default license is set to None. The evaluation license enables all the modules and components of the HP Operations Agent for 60 days. After 60 days, the evaluation license expires and disables the product. To continue using the product, apply for a permanent license or an extension of the evaluation license.

## Extended License

You can use the HP Operations Agent in the evaluation mode for a longer period by extending the validity period of the evaluation license. After extending the evaluation license, you can use the features provided with the LTU for 60 more days. You cannot extend an evaluation license more than twice. When you try to extend an evaluation license for a third time, an error message appears indicating that the license has reached its maximum extension limit.

## Permanent License

The HP Operations Agent permanent license does not expire after any specific duration. Based on your requirement, this license enables you to choose from the available **Licenses to Use (LTUs)**.

The HP Operations Agent 12.00 provides you with the real-time diagnostic and monitoring capabilities with the following add-in modules:

- Real-Time Metric Access (RTMA)-enables you to access system performance metrics on a real-time basis. You can monitor the real-time performance metrics of remote machines by using the `cpsh` utility, which is presented by the RTMA component.

- Real-Time Measurement (RTM)-enables you to monitor the real-time system performance metrics from the rich interface provided by the Diagnostic View tab of HP Performance Manager 9.00. RTM capabilities are provided through hpsensor.
- GlancePlus Software-enables you to monitor your system's performance in real time, with the help of graphical and tabular representation of data.

You can use all or a combination of the above modules with different LTUs. See [LTUs for the HP Operations Agent 12.00](#) for more information on LTUs.

## What's New in HP Operations Agent 12.00

The new licensing policy for different scenarios is listed in the following table.

**Table 1: New Licensing Behavior**

Scenarios	Evaluation License	Permanent License	Components that will work
Installing HP Operations Agent on a standalone node.	<ul style="list-style-type: none"> <li>• None (default).</li> <li>• Based on your requirement, set the license in the profile file. The respective LTU is set to evaluation.</li> </ul>	<ul style="list-style-type: none"> <li>• None (default).</li> <li>• Based on your requirement, set the license in the profile file. The respective LTU is set to permanent.</li> </ul>	See <a href="#">"Comparison Matrix for LTUs" on page 14</a>
Installing HP Operations Agent remotely on a node from HPOM console.	<ul style="list-style-type: none"> <li>• None (default).</li> <li>• Based on your requirement, set the license in the profile file. The respective LTU is set to evaluation.</li> </ul>	<ul style="list-style-type: none"> <li>• HP Operations OS Inst Adv SW LTU (default).</li> <li>• Based on your requirement, set the license in the profile file. The respective LTU is set to permanent.</li> </ul>	See <a href="#">"Comparison Matrix for LTUs" on page 14</a>
Upgrading to HP Operations Agent 12.00 from 11.xx version on a node.	<ul style="list-style-type: none"> <li>• The existing evaluation licenses will work after installing 12.00 version.</li> <li>• Based on your requirement, set the license in the profile file. The respective LTU is set to evaluation.</li> </ul>	<ul style="list-style-type: none"> <li>• The existing permanent licenses will work after installing 12.00 version.</li> <li>• Based on your requirement, set the license in the profile file. The respective LTU is set to permanent</li> </ul>	See <a href="#">"Comparison Matrix for LTUs" on page 14</a>

## Setting an Evaluation or Permanent License

You can set the an evaluation or a permanent license in the following ways:

- **Apply from a standalone node or management server:** In this method, you manually enable a permanent license on the node by using the `oalicense` command for each LTU separately.

After you install HP Operations Agent 12.00 on a standalone node, the default settings for the license is set to **None**. Only after you apply the licenses, the Operations Monitoring Component and the Performance Collection Component will start working. The basic HP Operations Agent processes will work on the node even if the licenses are not set. In an environment where HPOM is not present, the HP Operations Agent installation on a standalone server enables only the basic HP Operations Agent processes.

A remote installation using the HPOM console enables a permanent license on the node.

For more information, see [Applying an Evaluation or Permanent License](#).

- **Using a profile file:** In this method, you can enable a permanent or an evaluation license from the available list of LTUs from a profile file. The LTUs are specified in the text file or the configuration file before you start installing the HP Operations Agent. For more information, see [Applying an Evaluation or Permanent License using a Profile File](#).



# Chapter 2: LTUs for the HP Operations Agent 12.00

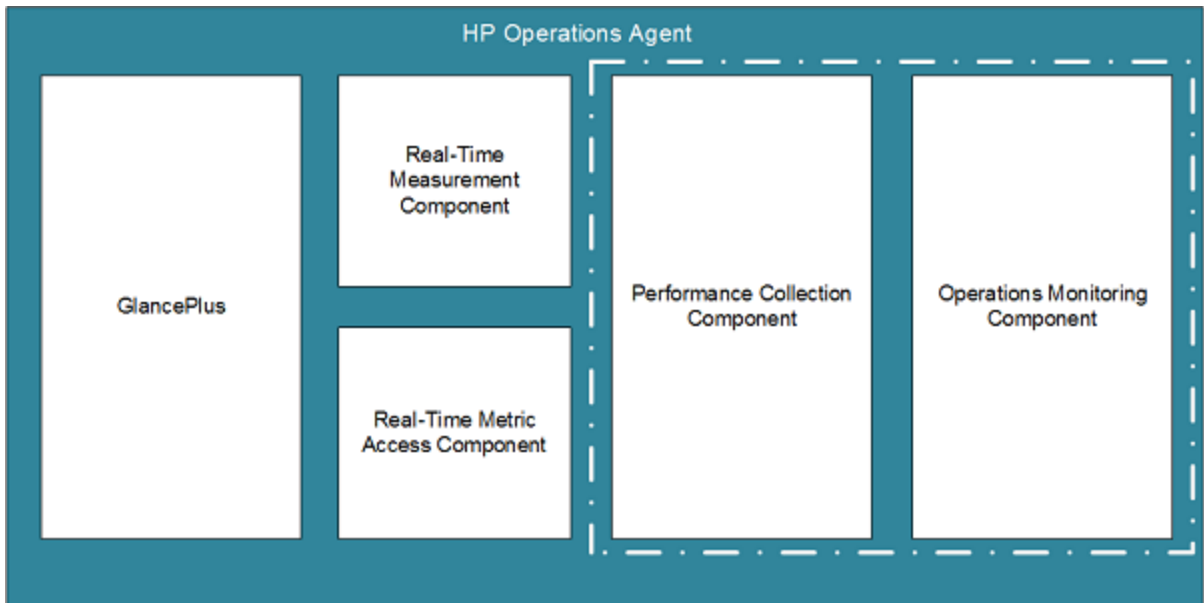
You can apply one of the following **licenses to use (LTUs)** for the HP Operations Agent product:

- [HP Operations OS Inst Adv SW LTU](#)
- [HP Operations OS Inst Performance LTU](#)
- [HP Ops OS Inst to Realtime Inst LTU](#)
- [HP Ops OS Inst Perf to OS Inst Adv LTU](#)
- [Glance Software LTU](#)
- [Glance Pak Software LTU](#)

## HP Operations OS Inst Adv SW LTU

This LTU enables you to use all the components of the HP Operations Agent except the following components: RTM, RTMA, and GlancePlus.

**Figure 1: Components Enabled with the HP Operations OS Inst Adv SW LTU**



### Additional Versions

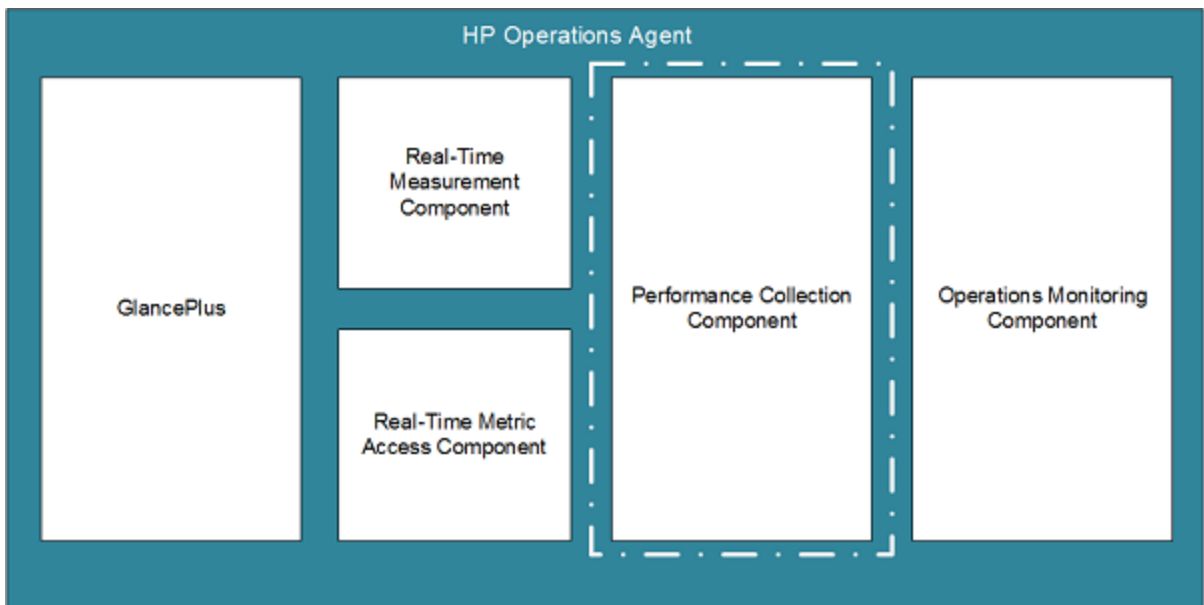
The HP Operations OS Inst Adv SW LTU is available in the following additional versions:

- **HP Operations OS Inst Adv NP FO SW LTU:** If you want to monitor systems that are running in a failover cluster setup, you must install the HP Operations Agent on all the nodes in the cluster. You can use the HP Operations OS Inst Adv NP FO SW LTU on nodes in the cluster that are not active. This LTU can be used only in the permanent mode; you cannot use this LTU for evaluation.
- **HP Operations OS Inst Adv NP DV SW LTU:** If you want to install the HP Operations Agent on test systems (for the planning and evaluation purpose), use the HP Operations OS Inst Adv NP DV SW LTU. This LTU can be used only in the permanent mode; you cannot use this LTU for evaluation.

## HP Operations OS Inst Performance LTU

This LTU enables you to use only the Performance Collection Component component of the HP Operations Agent. This LTU enables you to monitor the performance of a standalone system.

**Figure 2: Components Enabled by the HP Operations OS Inst Performance LTU**



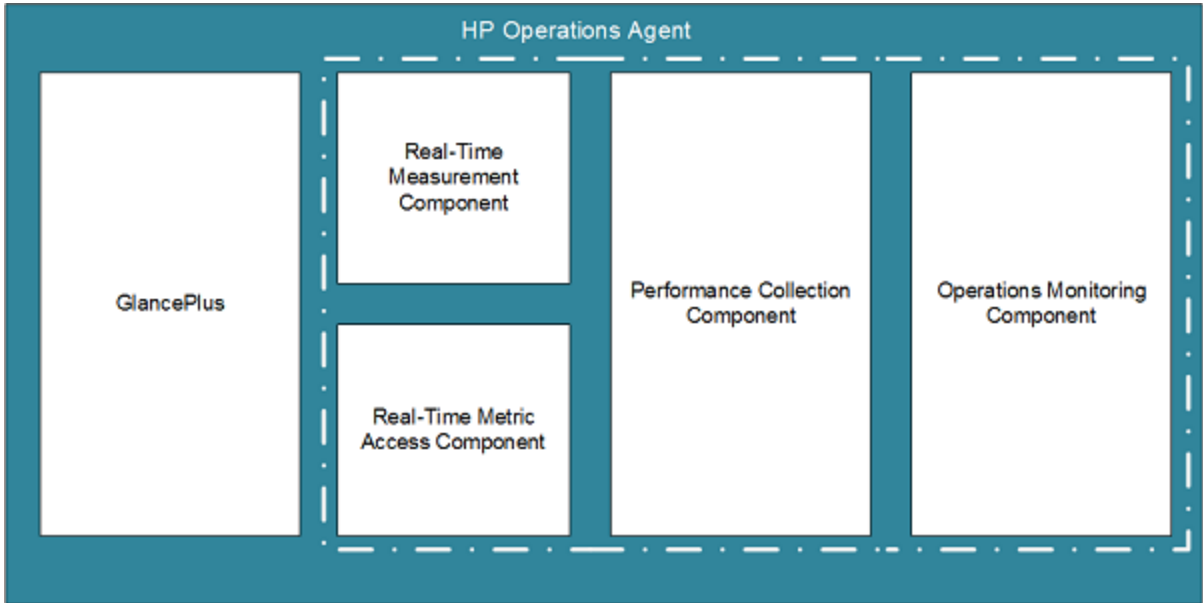
## HP Ops OS Inst to Realtime Inst LTU

This LTU enables you to use all the features of the HP Operations Agent with the RTM and RTMA components, but does not include the GlancePlus software. After applying this LTU, you can integrate the HP Operations Agent 12.00 with HP Performance Manager 9.00 and view the real-time system data collected by the HP Operations Agent from multiple nodes in the Diagnostic View tab of HP Performance Manager 9.00. In addition, you can use the cpsh utility to view the real-time system data collected by the HP Operations Agent from different nodes.

Before you apply this LTU, make sure that the HP Operations OS Inst Adv SW LTU is already applied on the node.

Figure 3 highlights the components enabled by the HP Ops OS Inst to Realtime Inst LTU.

**Figure 3: Components Enabled by the HP Ops OS Inst to Realtime Inst LTU**



### Additional Versions

The HP Ops OS Inst to Realtime Inst LTU is available in the following additional versions:

- **HP Ops OS Inst to Realtime Inst NP FO LTU:** If you want to monitor systems that are running in a failover cluster setup, you must install the HP Operations Agent on all the nodes in the cluster. You can use the HP Ops OS Inst to Realtime Inst NP FO LTU on nodes in the cluster that are not active. This LTU can be used only in the permanent mode; you cannot use this LTU for evaluation.
- **HP Ops OS Inst to Realtime Inst NP DV LTU :** If you want to install the HP Operations Agent on test systems (for the planning and evaluation purpose), use the HP Ops OS Inst to Realtime Inst NP DV LTU . This LTU can be used only in the permanent mode; you cannot use this LTU for evaluation.

## HP Ops OS Inst Perf to OS Inst Adv LTU

This LTU enables you to upgrade the existing HP Operations OS Inst Performance LTU on a standalone server to HP Operations OS Inst Adv SW LTU, to use the features of the HP Operations Agent except the following components: RTM, RTMA, and GlancePlus. This LTU can be used only in the permanent mode; you cannot use this LTU for evaluation.

### Additional Versions

The HP Ops OS Inst Perf to OS Inst Adv LTU is available in the following additional versions:

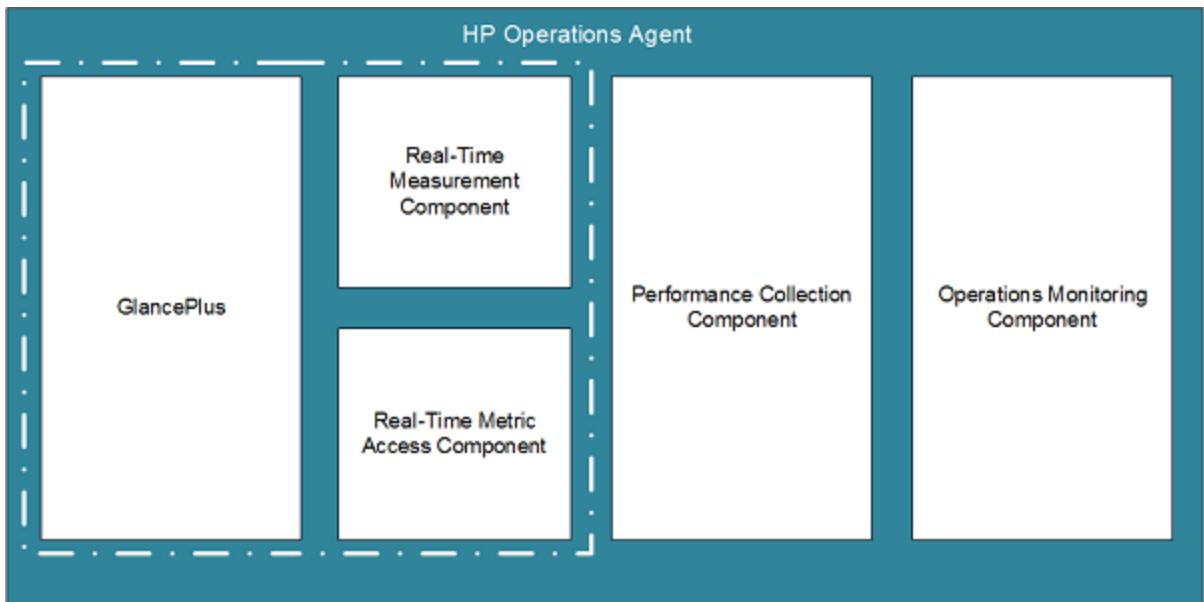
- **HP Perf to OS Inst Adv Upg Software NP FO SW LTU:** If you want to monitor systems that are running in a failover cluster setup, you must install the HP Operations Agent on all the nodes in the cluster. You can use the HP Perf to OS Inst Adv Upg Software NP FO SW LTU on nodes in the cluster that are not active. This LTU can be used only in the permanent mode; you cannot use this LTU for evaluation.
- **HP Perf to OS Inst Adv Upg Software NP DV SW LTU:** If you want to install the HP Operations Agent on test systems (for the planning and evaluation purpose), use the HP Perf to OS Inst Adv Upg Software NP DV SW LTU. This LTU can be used only in the permanent mode; you cannot use this LTU for evaluation.

## Glance Software LTU

**Note:** Because the GlancePlus software is supported only on UNIX/Linux platforms, you can apply this LTU only on UNIX/Linux nodes.

This LTU enables only the GlancePlus software and the RTMA component on the node. If you enable only this LTU on a node, you can use only the GlancePlus software with the RTMA component on the node. With this LTU, you can use the cpush utility to view the real-time system data collected by the HP Operations Agent from different nodes. You cannot use other standard features offered by the HP Operations Agent.

**Figure 4: Components Enabled by the Glance Software LTU**

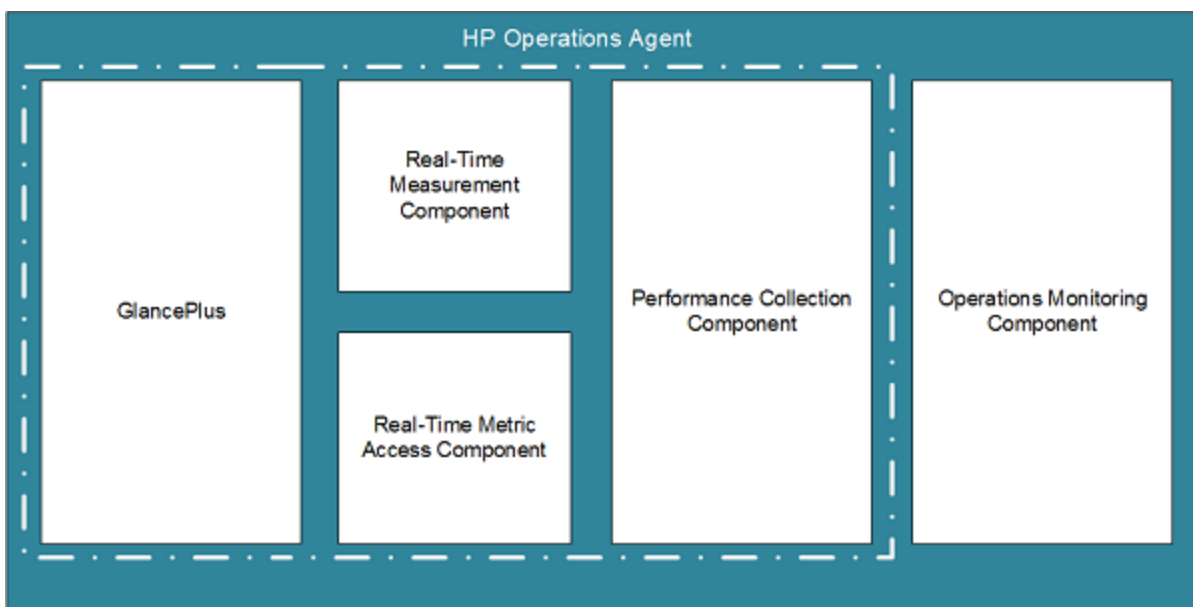


## Glance Pak Software LTU

**Note:** Because the GlancePlus software is supported only on UNIX/Linux platforms, you can apply this LTU only on UNIX/Linux nodes.

This LTU enables you to use only the Performance Collection Component component of the HP Operations Agent along with the GlancePlus software and the RTMA component. With this LTU, you can use the cpsht utility to view the real-time system data collected by the HP Operations Agent from different nodes.

**Figure 5: Components Enabled by the Glance Pak Software LTU**



## Availability of Add-in Modules with Different LTUs

The evaluation license enables the HP Operations Agent with the RTM and RTMA components and the GlancePlus software on the node. However, if you do not apply a permanent license within 60 days after installation (or extend the evaluation license), the HP Operations Agent (with RTM, RTMA, and GlancePlus) will be rendered ineffective. You can make a selection from six different LTUs. You can enable the HP Operations Agent with a combination of the add-in modules (RTM, RTMA, or GlancePlus) on the node by using one of these LTUs.

Table 2 lists the availability of the add-in modules for different LTUs for the HP Operations Agent.

**Table 2: Add-in Modules with Different LTUs**

LTU	GlancePlus Software	RTM	RTMA
HP Operations OS Inst Adv SW LTU	No	No	No
a) HP Operations OS Inst Performance LTU	No	No	No
HP Ops OS Inst Perf to OS Inst Adv LTU	No	No	No
HP Ops OS Inst to Realtime Inst LTU	No	Yes	Yes
b) Glance Pak Software LTU	Yes	Yes	Yes
c) Glance Software LTU	Yes	Yes	Yes

a) If you enable only the HP Operations OS Inst Performance LTU, you cannot use any standard feature of the HP Operations Agent other than the Performance Collection Component component.

b) If you enable only the Glance Pak Software LTU, you cannot use any standard feature of the HP Operations Agent other than the Performance Collection Component, GlancePlus software, the RTM component and the RTMA component.

c) If you enable only the Glance Software LTU, you cannot use any standard feature of the HP Operations Agent other than the GlancePlus software, the RTM component and the RTMA component.

## Comparison Matrix for LTUs

Table 3 lists the HP Operations Agent components presented by different LTUs.

**Table 3: LTU Comparison Matrix**

LTU vs. Components	Operations Monitoring Component	Performance Collection Component	RTM	RTMA	Glance Plus
HP Operations OS Inst Adv SW LTU	Yes	Yes	X	X	X
HP Ops OS Inst to Realtime Inst LTU	Yes	Yes	Yes	Yes	X
HP Operations OS Inst Performance LTU	X	Yes	X	X	X
HP Ops OS Inst Perf to OS Inst Adv LTU	Yes	Yes	X	X	X
<i>On UNIX/Linux nodes only.</i> Glance Software LTU	X	X	Yes	Yes	Yes
<i>On UNIX/Linux nodes only.</i> Glance Pak Software LTU	X	Yes	Yes	Yes	Yes

## Chapter 3: Applying a License Using a Profile File

You can set either Evaluation or Permanent licenses by using the profile file on a standalone node or in the remote installation from HPOM management server. Specify the LTUs in the text or configuration file before you start the installation and the required licenses are enabled.

For more information about profile file, see *Installing the HP Operations Agent with a Profile File in the Installation Guide*.

### Apply Licenses Using a Profile File on a Standalone Node

Before you start the installation on a Windows node or a UNIX/ Linux node, you can specify your license requirement in a text file and the installer uses the same file during the installation process. You can specify the license type and then start the installation.

To apply an evaluation or permanent licenses on a standalone node by using the profile file, follow these steps:

1. Log on to the system with the administrator privileges.
2. Open the text file and add the LTUs as per your requirement from the following list:
  - `set eaagt.license:HP_Operations_OS_Inst_Adv_SW_LTU=PERMANENT or EVALUATION`
  - `set eaagt.license:Glance_Software_LTU=PERMANENT or EVALUATION`
  - `set eaagt.license:HP_Ops_OS_Inst_to_Realtime_Inst_LTU=PERMANENT or EVALUATION`
  - `set eaagt.license:HP_Operations_OS_Inst_Performance_LTU=PERMANENT or EVALUATION`
  - `set eaagt.license:ALL=PERMANENT/EVALUATION`

You can set only the LTUs mentioned in the list in the text file before you start the installation using the profile file.

**Note:** You must add the mentioned LTUs as per your requirement.

If you need to use all the components of the HP Operations Agent and not RTM, RTMA, and GlancePlus, then add only `set eaagt.license:HP_Operations_OS_Inst_Adv_SW_LTU=PERMANENT or EVALUATION` in the text file.

If you need to use all the licenses mentioned in the list, add `set eaagt.license: ALL=PERMANENT/EVALUATION` in the text file. You can set only the LTUs mentioned in the list in the text file before you start the installation.

For more information about LTUs, see [LTUs for the HP Operations Agent](#).

3. Save the text file.
4. Run the following command from the root of the HP Operations Agent installation media:  
**On the Windows node**

```
cscript oainstall.vbs -install -agent -agent_profile <path_of_profile_file>/<profile file name>
```

or

```
cscript oainstall.vbs -i -a -agent_profile <path_of_profile_file>/<profile file name>
```

**On the UNIX or Linux node**

```
./oainstall.sh -install -agent -agent_profile <path_of_profile_file>/<profile file name>
```

or

```
./oainstall.sh -i -a -agent_profile <path_of_profile_file>/<profile file name>
```

## Apply Licenses Using a Profile File Remotely from HPOM for Windows

Before you start the installation, you can specify settings of your choice in a configuration file and use the configuration file during installation. You can specify the license type and then start the installation.

To apply an evaluation or permanent licenses from the HPOM for Windows, follow these steps:

1. Log on to the management server as an administrator.
2. Collect the sample configuration file from the following location on the management server:  
`%ovsharedir%\conf\PMAD\agent_install_defaults.cfg.sample`
3. Save the `agent_install_default.cfg.sample` as `agent_install_default.cfg` in the same location.
4. Open the `agent_install_defaults.cfg` file with a text editor and add the LTU as per your



requirement from the following list:

[eaagt.license]

- HP\_Operations\_OS\_Inst\_Adv\_SW\_LTU=PERMANENT or EVALUATION
- Glance\_Software\_LTU=PERMANENT or EVALUATION
- HP\_Ops\_OS\_Inst\_to\_Realtime\_Inst\_LTU=PERMANENT or EVALUATION
- HP\_Operations\_OS\_Inst\_Performance\_LTU=PERMANENT or EVALUATION
- ALL=PERMANENT or EVALUATION

You can set only the LTUs mentioned in the list in the text file before you start the installation using the profile file.

**Note:** You must add LTUs as per your requirement.

If you need to use all the components of the HP Operations Agent and not RTM, RTMA, and GlancePlus, then add only set `eaagt.license:HP_Operations_OS_Inst_Adv_SW_LTU=PERMANENT` or `EVALUATION` in the text file.

If you select all the licenses, then add set `eaagt.license:ALL=PERMANENT` or `EVALUATION` in the text file.

For more information about LTUs, see [LTUs for the HP Operations Agent](#).

5. After updating the licensing settings, start installing HP Operations Agent remotely from HPOM console or by using the command line. For more information, see *HP Operations Agent Installation Guide, version 12.00*.

## Apply Licenses Using a Profile File Remotely from HPOM for UNIX or Linux

Before you start the installation, you can specify settings of your choice in a configuration file and use the configuration file during installation. You can specify the license type and then start the installation.

**Note:** If you are using the profile file, you must install the hotfix QCCR1A138587 for HPOM on UNIX/Linux. Contact HP Support to obtain this hotfix. You do not need any additional hotfixes if you are using HPOM for Windows.

To apply an evaluation or permanent licenses from the HPOM for UNIX or Linux, follow these steps:

1. Log on to the HPOM for UNIX or Linux with root privileges.
2. Collect the sample configuration file from the following location on the management server:  
`/etc/opt/OV/share/conf/OpC/mgmt_sv/bbc_inst_defaults.sample`.
3. Save the `bbc_inst_defaults.sample` file as `bbc_inst_defaults` file in the same location.
4. Open the `bbc_inst_defaults` file with a text editor and add the LTU as per your requirement from the following list:

[`eaagt.license`]

- `HP_Operations_OS_Inst_Adv_SW_LTU=PERMANENT` or `EVALUATION`
- `Glance_Software_LTU=PERMANENT` or `EVALUATION`
- `HP_Ops_OS_Inst_to_Realtime_Inst_LTU=PERMANENT` or `EVALUATION`
- `HP_Operations_OS_Inst_Performance_LTU=PERMANENT` or `EVALUATION`
- `ALL=PERMANENT/EVALUATION`[If you want to set all LTUs, use this option]

**Note:** You must add LTUs as per your requirement.

If you need to use all the components of the HP Operations Agent and not RTM, RTMA, and GlancePlus, then add only `set eaagt.license:HP_Operations_OS_Inst_Adv_SW_LTU=PERMANENT` or `EVALUATION` in the text file.

If you select all the licenses, then add `set eaagt.license:ALL=PERMANENT/EVALUATION` in the text file.

For more information about LTUs, see [LTUs for the HP Operations Agent](#).

5. After updating the licensing settings, start installing HP Operations Agent remotely from HPOM console or by using the command line. For more information, see *HP Operations Agent Installation Guide version 12.00*.

# Chapter 4: Applying an Evaluation or Permanent License

Based on the type of installation, you must set the evaluation license or the permanent license on the node. The evaluation license remains in effect for 60 days after installation, and then the product (with all add-in modules) stops working on the node. To continue working with the product, you must enable a permanent license on the node.

## Apply Manually on a Node

To apply a permanent or an evaluation license on a standalone HP Operations Agent node, follow these steps:

1. Install the HP Operations Agent on the node.

You must set the evaluation or permanent licenses to use the HP Operations Agent.

**Tip:** If the node resides in an HPOM-managed environment, you can install the HP Operations Agent using the `-s` and `-cs` options to configure a management server for the node. Use of these options starts the licensing tool to enable the HP Operations OS Inst Adv SW LTU.

2. To apply a license, go to the command prompt (shell).
3. To enable the appropriate license for an LTU of your choice, do the following:
  - To enable the license for the HP Operations OS Inst Adv SW LTU, run the following command:

```
oalicense -set -type EVALUATION "HP Operations OS Inst Adv SW LTU"
```

This command applies the evaluation license for the Operations Monitoring Component and Performance Collection Component of the HP Operations Agent. The add-in modules stop functioning after the validity period of the evaluation license expires.

- To use the RTM and RTMA components with the Operations Monitoring Component and Performance Collection Component, run the following command:

```
oalicense -set -type PERMANENT "HP Ops OS Inst to Realtime Inst LTU"
```

This command upgrades the permanent license for all the HP Operations OS Inst Adv SW LTU to HP Ops OS Inst to Realtime Inst LTU and enables the RTM and RTMA components on the node. The other add-in module (GlancePlus) stops functioning after the validity period of the evaluation license expires.

- To enable the license for the HP Operations OS Inst Performance LTU, run the following command:

```
oalicense -set -type PERMANENT "HP Operations OS Inst Performance LTU"
```

This command applies the permanent license for the Performance Collection Component of the HP Operations Agent. The Operations Monitoring Component and other add-in modules stop functioning after the validity period of the evaluation license expires.

- *On UNIX/Linux nodes only* - To enable the license for the Glance Pak Software LTU, run the following command:

```
oalicense -set -type PERMANENT "Glance Pak Software LTU"
```

This command applies the permanent license only to the Performance Collection Component, GlancePlus software, and RTMA component.

- *On UNIX/Linux nodes only* - To enable the license for the Glance Software LTU, run the following command:

```
oalicense -set -type PERMANENT "Glance Software LTU"
```

This command applies the permanent license only to the GlancePlus software and the RTMA component on the node.

4. To check the details of LTUs on the node, run the following command:

```
oalicense -get -all
```

The command shows the LTU details in the following format:

LICENSE NAME	TYPE	ACTIVATION	EXPIRY	EXTN
The command presents the following details:				
<b>LICENSE NAME:</b> Name of the LTU				
<b>TYPE:</b> Type of the LTU (permanent, evaluation, or extended)				
<b>ACTIVATION:</b> Date when the LTU was enabled (in the mm/dd/yyyy format)				
<b>EXPIRY:</b> Validity period of the license (when the type is not permanent)				
<b>EXTN:</b> Count of extending the evaluation license				

5. Start all the processes on the node with the following command:

```
opcagt -start
```

If required, you can enable an evaluation license or permanent license on the node in an HPOM-managed environment. To enable an evaluation license on the node, do *one* of the following:

- Log on to the node locally and run the following command:

```
oalicense -set -type EVALUATION "<LTU_name>"
```

- To enable the evaluation license using a tool on multiple nodes, follow these steps:
  - a. Log on to the HPOM management server.
  - b. Create a new tool with the following details:
    - Set the command or tool call to `oalicense`.
    - Set the parameters to  
`-set -type EVALUATION "<LTU_name>"`
    - Set the target to the selected node.
  - c. Run the tool on the nodes of your choice.

## Example of License Details

You can use the `-get` option with the `oalicense` command to view the details of LTUs on a node. You can use the `-all` option with the `-get` option to view the details of all LTUs on a node. Alternatively, you can specify an LTU name as an argument to view the details of a particular LTU on the node.

When you run the command `oalicense -get "HP Operations OS Inst Adv SW LTU"` where the HP Operations OS Inst Adv SW LTU is enabled with the permanent type, the following message appears:

LICENSE NAME	TYPE	ACTIVATION	EXPIRY	EXTN
HP Operations OS Inst Adv SW LTU	PERMANENT	09/08/2012	11/08/2012	N/A

## Apply Centrally from a Management Server

If you install the HP Operations Agent remotely on a node from the HPOM management server or manually on the node with the management server details, you must set an evaluation or permanent license. If you want to enable a different type of license on the node, you must perform additional steps.

## Apply from the HPOM for Windows Console

To enable an LTU other than the default LTUs on the node, follow these steps:

1. Log on to the HPOM management server.
2. In the console tree, expand **Tools**, and then click **HP Operations Agent**. The list of tools available with the HP Operations Agent 12.00 deployment package appears in the details pane.
3. Launch the Set Realtime Permanent License tool on the nodes where you want to enable the permanent license for the HP Ops OS Inst to Realtime Inst LTU.

4. Launch the Set Glance Permanent License tool on the nodes where you want to enable the permanent license for the Glance Software LTU.
5. After you launch the tools to apply licenses, you must launch the Restart Agent tool to start the necessary processes on all nodes.

## Apply from the HPOM on UNIX/Linux 9.xx Console

To enable an LTU other than the default LTUs on the node, you must create a tool to run the `oalicense` command on a node (or a group of nodes). To create a new tool, follow these steps:

1. Log on to the HPOM Operational UI.
2. In the left pane, select the node or node group where you want to apply the license.
3. To enable the permanent license for the HP Ops OS Inst to Realtime Inst LTU, right-click and click **Start > HP Operations-agent > Set Realtime Permanent License**.
4. To enable the permanent license for the Glance Software LTU, right-click and click **Start > HP Operations-agent > Set Glance Permanent License**.
5. Launch the Restart Agent tool to start the necessary processes on all nodes.

## Apply from the HPOM for UNIX 8.35 Console

To enable an LTU other than the default LTUs on the node, you must create an application (tool) to run the `oalicense` command on a node (or a group of nodes). To create a new tool, follow these steps:

1. Log on to the HPOM for UNIX server.
2. Log on to the HPOM for UNIX console.
3. Go to the OVO Application Bank window.
4. Click **Actions > Application > Add OVO Application**. The Add OVO Application dialog box opens.
5. In the Add OVO Application dialog box, specify the following details:
  - Specify a name in the Application Name box.
  - Type `oalicense` in the Application Call box.
  - In the Additional Parameters box, type `-set -type PERMANENT "HP Ops OS Inst to Realtime Inst LTU"` to enable the HP Ops OS Inst to Realtime Inst LTU. Type `-set -type PERMANENT "Glance Software LTU"` to enable the Glance Software LTU.

- Select the **Start on Target Node(s) selected by Operator** option.
  - In the Execute as User section, specify the user name and password of the user with which the HP Operations Agent is running on the node.
  - Set Presentation to **Window (Output only)**.
6. Click **OK**.

You can now launch the application from the HPOM for UNIX console. After running the application on nodes, you must run the `opcagt -start` command to start the necessary processes on all nodes.

## Extend the Validity Period of the Evaluation License

You can extend the validity period of the evaluation license by 60 more days. You can extend the validity period of the evaluation license twice, which enables you to evaluate the product for up to 180 days.

To extend the validity period of the evaluation license, follow these steps:

1. Log on with the administrative or root privileges.
2. Perform one of the following steps:
  - *On Windows*  
Go to the following location: `%ovinstalldir%bin`.
  - *On HP-UX, Linux, and Solaris*  
Go to the following location: `/opt/OV/bin`.
  - *On AIX*  
Go to the following location: `/usr/lpp/OV/bin`.
3. Run the following command to check the status of the evaluation LTUs :  
*On Windows*

```
oalicense -get -all
```

*On UNIX/Linux*

```
./oalicense -get -all
```

The command displays the details of all the LTUs that are enabled on the system—including the status of all evaluation licenses. The command shows the details in the following format:

LICENSE NAME	TYPE	ACTIVATION	EXPIRY	EXTN
<LTU_Name>	EVALUATION	<Installation_Date>	<Expiry_Date>	0

Note down the evaluation LTUs that you want to use beyond the validity period.

4. *Optional.* Review the output of the command and make sure that the evaluation LTUs (which you are going to extend) were in use for nearly 60 days.

**Note:** If you extend the validity period of an evaluation LTU sooner than 60 days from installation, you will forfeit the use of the LTU for the remaining days before the original 60-day long validity period actually expires. You will be able to use the LTU only for 60 more days without interruptions from the day you extend the evaluation LTU. However, you can extend the validity period of the evaluation LTU for a second time, which will enable you to use the evaluation LTU for another 60 days.

5. Run the following command:  
*On Windows*

```
oalicense -extend -type EVALUATION “ <LTU_Name>”
```

*On UNIX/Linux*

```
./oalicense -extend -type EVALUATION “ <LTU_Name>”
```

In this instance:

<LTU\_Name> is the name of the LTU.

6. Run the following command to check the status of the evaluation LTUs :  
*On Windows*

```
oalicense -get -all
```

*On UNIX/Linux*

```
./oalicense -get -all
```

The command shows the details in the following format:

LICENSE NAME	TYPE	ACTIVATION	EXPIRY	EXTN
<LTU_Name>	EVALUATION	<Installation_Date>	<Expiry_Date>	1

You will notice that the expiry date of the LTU is shifted by 60 days ahead of the original expiry date. The EXTN columns indicates the extension count of the LTU.

### Example

After installation, the list of enabled LTUs appear in the following format when you run the `oalicense -get -all` command:



LICENSE NAME	TYPE	ACTIVATION	EXPIRY	EXTN
HP Operations OS Instance Software LTU	EVALUATION	03/Jun/2012	02/Aug/2012	0
HP Glance OS Instance LTU	EVALUATION	03/Jun/2012	02/Aug/2012	0
HP Operations Real-Time UpG OS Instance Software LTU	EVALUATION	03/Jun/2012	02/Aug/2012	0

After you extend the HP Operations OS Instance Software LTU for 60 more days, the following output appears when you run the `oalicense -get -all` command:

LICENSE NAME	TYPE	ACTIVATION	EXPIRY	EXTN
HP Operations OS Instance Software LTU	EVALUATION	03/Jun/2012	02/Oct/2012	1
HP Glance OS Instance LTU	EVALUATION	03/Jun/2012	02/Aug/2012	0
HP Operations Real-Time UpG OS Instance Software LTU	EVALUATION	03/Jun/2012	02/Aug/2012	0

## Generate Alerts

You can use the `-expiryAlerts` option with the `oalicense` command to view the number of days for which the evaluation license will remain valid.

With the help of the `ALERT_LTU_EXPIRY_DAYS` variable, you can configure the HP Operations Agent to send alert messages to the HPOM message browser to notify you about the expiry details of the evaluation agent LTUs that are in effect on the node.

While setting this variable, you must specify three comma separated integer values in the descending order.

For example:

```
ovconfchg -ns eaagt -set ALERT_LTU_EXPIRY_DAYS DAY1,DAY2,DAY3
```

The alert messages will arrive in the HPOM console on `DAY1`, `DAY2`, and `DAY3` days before the evaluation LTU expires.

By default, this variable is set to 7, 3, 1.

# Chapter 5: Upgrading to the HP Operations Agent 12.00

You can upgrade to the HP Operations Agent 12.00 from one product or a combination of the following products:

- HP Operations Agent
- HP Performance Agent
- HP GlancePlus

After you perform the upgrade, the old LTU is automatically upgraded to an HP Operations Agent LTU. The licensing mechanism automatically detects the old LTU that was in use with the old product, and then upgrades to a new LTU.

Table 4 provides a mapping of the old LTUs against the new LTUs.

**Table 4: Automatic LTU Upgrade**

Old LTU	Available Products/Features	New LTU	Available Products/Features
GlancePlus LTU	HP GlancePlus	Glance Software LTU	<ul style="list-style-type: none"> <li>• HP GlancePlus</li> <li>• RTM</li> <li>• RTMA</li> </ul>
Performance Agent LTU	HP Performance Agent	HP Operations OS Inst Performance LTU	Performance Collection Component
Glance Pak Software LTU	<ul style="list-style-type: none"> <li>• HP Performance Agent</li> <li>• HP GlancePlus</li> </ul>	Glance Pak Software LTU	<ul style="list-style-type: none"> <li>• Performance Collection Component</li> <li>• RTM</li> <li>• RTMA</li> <li>• HP GlancePlus</li> </ul>

**Table 4: Automatic LTU Upgrade, continued**

Old LTU	Available Products/Features	New LTU	Available Products/Features
Operations Agent LTU	HP Operations Agent	HP Operations OS Inst Adv SW LTU	<ul style="list-style-type: none"> <li>• Operations Monitoring Component</li> <li>• Performance Collection Component</li> </ul>
OpsPerf Combo LTU	<ul style="list-style-type: none"> <li>• HP Operations Agent</li> <li>• HP Performance Agent</li> </ul>	HP Operations OS Inst Adv SW LTU	<ul style="list-style-type: none"> <li>• Operations Monitoring Component</li> <li>• Performance Collection Component</li> </ul>

After automatic upgrade of LTUs, you can use the `oalicense` tool to apply a different LTU on the node.

**Note:** If you upgrade to the HP Operations Agent 12.00 by installing the agent remotely from the HPOM console, the HP Operations OS Inst Adv SW LTU (permanent) is enabled on the node.

## Chapter 6: Removing a Permanent License

To remove a permanent license from a node, follow these steps:

1. Log on to a node where the permanent license is enabled.
2. Open a command prompt (shell).
3. Run the following command:

```
oalicense -remove -type PERMANENT <LTU>
```

In this instance, <LTU> is the name of the LTU.

The command disables the permanent license for the specified LTUs on the node. To use the components enabled by the LTU again, you must enable the evaluation or permanent license of the LTU on the node by using the `oalicense` command.

Alternatively, to remove all permanent LTUs, run the following command:

```
oalicense -remove -type PERMANENT -all
```

4. Run the following command to start all agent processes:

```
opcagt -start
```

# Chapter 7: Changing the Existing LTU

With the help of the `oalicense` command, you can change an existing LTU to another one. You can apply more than one LTU on the same node. When you upgrade a node to the HP Operations Agent 12.00, the upgrade process automatically upgrades the LTU. However, you must use the `oalicense` tool to enable the RTM and RTMA components on the node in this case.

## Example 1

### Changing from the HP Operations OS Inst Adv SW LTU to the HP Ops OS Inst to Realtime Inst LTU

If you install the HP Operations Agent 12.00 from the HPOM console and set the license type as HP Operations OS Inst Adv SW LTU. Now, you want to use the RTM and RTMA components, you must change the HP Operations OS Inst Adv SW LTU to the HP Ops OS Inst to Realtime Inst LTU. To change to the HP Ops OS Inst to Realtime Inst LTU, follow these steps:

1. After installing the HP Operations Agent, view the existing LTU with the following command on the node:  

```
oalicense -get -all
```
2. Apply the HP Ops OS Inst to Realtime Inst LTU with the following command:  

```
oalicense -set -type PERMANENT "HP Ops OS Inst to Realtime Inst LTU"
```

The command upgrades the LTU to the HP Ops OS Inst to Realtime Inst LTU. As a result, you can use the RTM and RTMA components with the HP Operations Agent.

## Example 2

### Changing from the Glance Software LTU to Glance Pak Software LTU

*On UNIX/Linux nodes only.* If you upgrade an older version of HP GlancePlus to the HP Operations Agent 12.00, the LTU gets automatically upgraded to the Glance Software LTU. If you want to use the features of the HP Operations Agent 12.00 along with HP GlancePlus 12.00, follow these steps:

1. After upgrading to the HP Operations Agent 12.00, view the existing LTU with the following command on the node:  

```
oalicense -get -all
```

The command lists only the Glance Software LTU.

2. Apply the Glance Pak Software LTU with the following command:  

```
oalicense -set -type PERMANENT "Glance Pak Software LTU"
```

The command enables the Glance Pak Software LTU.

3. View the list of LTUs with the following command:

```
oalicense -get -all
```

The command lists the following LTUs: Glance Software LTU and Glance Pak Software LTU.

4. Since the Glance Pak Software LTU combines the features of HP GlancePlus 12.00 with the Performance Collection Component, you can remove the Glance Software LTU. To remove the Glance Software LTU, run the following command:

```
oalicense -remove -type PERMANENT "Glance Software LTU"
```

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