

License Administration  
Tool—Script Edition

Release 2.2

December 2011

# Installation Guide

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# About This Book

This Installation Guide describes how to install the Openwave License Administration Tool—Script Edition (LAT SE) software.

## In this preface

[Audience](#)

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[Conventions](#)

[Getting Support and Sending Comments to Openwave](#)

## Audience

This document is intended for the Openwave field engineers and technical support personnel who are responsible for installing and administering the Openwave License Administration Tool—Script Edition (LAT SE).

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**IMPORTANT** This document assumes that you are familiar with Openwave LAT SE and its components. You must have good experience with Linux.

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For basic information on the LAT SE components, see the *Openwave License Administration Tool—Script Edition 2.2 Administration Guide*.

## In This Document

This document contains the following information:

- [Chapter 1, "Preinstallation" on page 9](#) describes the preinstallation tasks and system requirements for LAT SE.
- [Chapter 2, "Installation" on page 13](#) describes how to install LAT SE.
- [Chapter 3, "Postinstallation" on page 17](#) describes the LAT SE post installation tasks.
- [Chapter 4, "Uninstallation" on page 21](#) describes how to uninstall LAT SE.

## Related Documentation

The following documents are of interest to users and administrators of License Administration Tool—Script Edition:

- The *Openwave License Administration Tool—Script Edition 2.2 Release Notes* summarize new features and documentation, and describe known and resolved issues.
- The *Openwave License Administration Tool—Script Edition 2.2 Administration Guide* summarizes all the reports and their user interface elements.

You can download these documents from the Openwave Technical Support site.

### To access product documentation

- 1 Log in to the Openwave Technical Support site:  
<http://mysupport.openwave.com>.
- 2 Click the **Product Documentation** link.
- 3 If you are prompted for additional credentials, supply the user ID and password that you use to access the Openwave FTP server.
- 4 On the **Product Documentation** landing page, click the appropriate product link.
- 5 Navigate to the document that you want to view.

## Conventions

This document uses the following conventions:

- *Italicized monospace type* indicates a placeholder for a value. For example:  
`imctrl host start server`
- Square brackets denote optional items. For example:  
`imctrl [-lists] [-verbose]`
- A vertical bar separates exclusive items, only one of which can be used. For example:  
`imctrl host start|drain|stop|kill server`
- Braces surround a list of items, one of which is required. For example:  
`imservctrl {start|stop|restart|drain|kill|exit|drainStart|killStart}`
- An ellipsis following an item indicates that the item can be repeated. For example:  
`imservctrl start [server...[server]]`

## Getting Support and Sending Comments to Openwave

The Openwave support site lets you do the following:

- Create, browse, view, and update technical support issues. You can use filters to identify issues that require action.

- Browse and download product documentation.
- View the procedure for contacting technical support.
- Search for product tips and solutions in the knowledge base.
- View technical product alerts.

**To access the support site**

- 1 Go to <http://mysupport.openwave.com/>.
- 2 Log in using your support account credentials.

**Reporting Issues**

To report issues with <http://mysupport.openwave.com>, send email to [mysupport-feedback@openwave.com](mailto:mysupport-feedback@openwave.com).

To provide comments on product documentation, file a support ticket on <http://mysupport.openwave.com/>.

## About This Book

Getting Support and Sending Comments to Openwave

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# Preinstallation

# 1

This chapter describes the preinstallation process of Openwave License Administration Tool—Script Edition (LAT SE) software.

## In this chapter

[About License Administration Tool—Script Edition](#)

[Dependency and Included Components](#)

## About License Administration Tool—Script Edition

License Administration Tool—Script Edition (LAT SE) 2.2 supports processing of Single Line RBA (SLRBA) logs and Multi Line RBA logs for Integra Core and other Openwave products. In this release, the throughput calculations functionality of Media Optimizer has changed, and the report name has changed from GBPS to Throughput. For more information, see the *Openwave License Administration Tool—Script Edition 2.2 Administration Guide*.

LAT SE 2.2 supports processing of the log file formats, and the license measurement requirements of the products shown in the following table.

**Table 1-1.** Supported License Models and Log Formats

Product	Version	TPS	PHT	ASU	TPQ	TPSREG	TPQREG	TOTAL-REGION-TPS	TOTAL-REGION-TPQ	TPS Based PHT	Throughput	Single Line	Multi Line
Guardian	1.0, 1.1	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	1.2.1	Y	Y	Y	N	Y	N	Y	N	N	N	Y	Y
Guardian Anti-Virus	1.0, 1.1	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	1.2.1	Y	Y	Y	N	Y	N	Y	N	N	N	Y	Y

Table 1-1. Supported License Models and Log Formats

Product	Version	TPS	PHT	ASU	TPQ	TPSREG	TPQREG	TOTAL-REGION-TPS	TOTAL-REGION-TPQ	TPS Based PHT	Throughput	Single Line	Multi Line
Integra	2.7	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	2.9	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	3.0	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	3.1.1	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	3.1.2.1	Y	Y	Y	N	Y	N	Y	N	N	N	Y	Y
	3.1.2.3	Y	Y	Y	N	Y	N	Y	N	N	N	Y	Y
3.2	Y	Y	Y	N	Y	N	Y	N	N	N	Y	Y	
Location	2.5	Y	Y	Y	N	Y	N	Y	N	N	N	NA	NA
Media Optimizer	2.0	N	N	N	N	N	N	N	N	N	Y	N	Y
	2.1	N	N	N	N	N	N	N	N	N	Y	Y	Y
	2.2	N	N	N	N	N	N	N	N	N	Y	Y	Y
	2.3	N	N	N	N	N	N	N	N	N	Y	Y	Y
Mobile Messaging Gateway (MMG) Router Edition	3.2	N	N	N	N	N	N	N	N	Y	N	NA	NA
OpenWeb	5.7	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	5.8.1, 5.8.2	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	5.8.3.1	Y	Y	Y	N	Y	N	Y	N	N	N	Y	Y
Passport	2.0	N	N	Y	Y	N	Y	N	Y	N	N	N	Y
	2.1	N	N	Y	Y	N	Y	N	Y	N	N	N	Y
	3.1	N	N	Y	Y	N	Y	N	Y	N	N	Y	Y
Web Optimizer	2.0	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	2.1	Y	Y	Y	N	Y	N	Y	N	N	N	N	Y
	2.3.1	Y	Y	Y	N	Y	N	Y	N	N	N	Y	Y

---

**NOTE** For Passport SLRBA logs, LAT SE 2.2 release supports licensing only for transactions that contain `PASSPORT_LICENSE_RECORD`. For OpenWeb SLRBA logs, LAT SE 2.2 release supports licensing only for transactions that contain OWA records.

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**NOTE** LAT SE backward compatibility means that it also supports earlier versions of these products.

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**NOTE** This release does not support the `rba.cfg` and `slrba.cfg` files of LAT SE Release 2.1 and earlier versions.

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## Dependency and Included Components

There are no dependencies on any other components, except for an out-of-the box vanilla installation of the operating system.

While LAT SE uses Perl, it does not depend on any Perl already installed on the system. It includes an embedded Perl that only LAT SE uses internally. This Perl has no effect on any other Perl installed on the system. This is true for all platforms supported by LAT SE.

Before installing LAT SE, ensure that the following UNIX executables are present on the system in any path present in the `$PATH` variable: `awk`, `cat`, `chmod`, `cp`, `date`, `df`, `find`, `grep`, `ln`, `mkdir`, `mv`, `sed`, `ssh`, `stty`, `tail`, `tar`.

For Linux, in addition to the previous list, the following must be present: `md5sum`, `gunzip`, `gzip`.

If any of these components are missing, then the LAT SE installation script displays an error with the list of missing executables.

# 1

## **Preinstallation**

Dependency and Included Components

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This chapter describes how to install Openwave License Administration Tool—Script Edition (LAT SE).

## In this chapter

[Installing LAT SE](#)

[Confirming LAT SE Version](#)

[Upgrading LAT SE](#)

[Reverting to a Previous Version of LAT SE](#)

## Installing LAT SE

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**IMPORTANT** You cannot use a root user ID to install and run LAT SE. The user ID that runs LAT SE, such as `latuser`, must perform the installation.

---

To create a new user ID, use the following command as root:

```
/usr/sbin/useradd -c 'Openwave LAT-SE ' -d XXXX -m latuser
```

where XXXX is the installation directory of LAT SE, such as `/opt/opwv/latse`.

---

**NOTE** The parent directories of the designated home directory of this user must exist before using the `useradd` command. After creating the `latse` user ID, remember to use the `passwd` command as root to set the password for the `latse` user ID.

---

### To install LAT SE

Perform the following steps:

- 1 Log in as the user that runs LAT SE, such as `latuser`.

- 2 Create a new temporary directory where you plan to expand the tar file.  
`mkdir /tmp/latse`
- 3 Change the current directory to this temporary directory.  
`cd /tmp/latse`
- 4 Expand the tar file.  
`LatSE-2.2-H06-2011-1216-0631-51.tar`

---

**NOTE** The example assumes the tar file is in the `$HOME` directory and has the name `LatSE-2.2-H06-2011-1216-0631-51.tar`. The actual name may be different.

---

- 5 Determine the installation directory for LAT SE. For example,  
`/opt/opwv/latse`.
- 6 Make sure that the user ID that is installing LAT SE has write access to the parent directory of the installation directory; in this example, the parent directory is `/opt/opwv`.

---

**NOTE** The installation renames the existing directory at the installation location with the timestamp appended to its name.

---

- 7 Install LAT SE using the `install.sh` script by providing the absolute full path to the installation directory.  
`./install.sh /opt/opwv/latse`

---

**NOTE** This argument must be an absolute path.

---

A message appears confirming that the installation is successful.

## Confirming LAT SE Version

You can confirm the version of the installation with the help of the `build_id.txt` file in the installation directory. The file contains the build identification information in the following format:

```
LatSE-2.2-HOX-2011-MMDD-HHMM-SS
```

where `X` is the handoff number, and `MMDD-HHMM-SS` is the timestamp of when the version was built. `MMDD` is the month and day, `HHMM` is the hours and minutes in a 24-hour clock format, and `SS` are the seconds.

## Upgrading LAT SE

To install LAT SE 2.2, run the `install.sh` script by providing the absolute full path of the already installed LAT-SE 2.1 to the installation directory.

```
./install.sh /opt/opwv/latse
```

Install the new version with the same installation directory as the previous version so that the data and configuration are preserved, and rollback is possible. The existing installation gets renamed, and the current installation proceeds. If you are installing LAT SE over an existing installation, then you can use the `-saveconfig` and `-savedata` arguments to save any existing data and configuration files. Both the arguments are optional.

If you specify the `-saveconfig` argument to `install.sh`, then the existing configuration files in the `config` directory are copied to the new installation. However, as the form of the configuration files may have changed from one installation to another, the `install.sh` script warns you to compare the old configuration file with the new one, and then make necessary edits. The new files in the `config` directory end with the file name suffix of “.new,” and the old files end with “.cfg.”

You can upgrade to LAT-SE 2.2 from any of the following LAT-SE versions:

- LAT-SE 1.0
- LAT-SE 1.1
- LAT-SE 1.2
- LAT-SE 2.0
- LAT-SE 2.1

---

**NOTE** Do not use the `-saveconfig` argument when upgrading from LAT SE 1.0, 1.1, 1.2, 2.0, or 2.1 to LAT SE 2.2 because configuration parameters for the `rba.cfg` and `slrba.cfg` files have been changed in LAT SE 2.2. For more information, see the Configurations chapter in the License Administration Tool—Script Edition 2.2 Administration Guide.

---

## Reverting to a Previous Version of LAT SE

If you want to revert to a previous version of LAT SE after upgrading, then perform the following steps:

- 1 Rename the installation directory to the same name, but with a distinguishing suffix, such as `.rollback`.
- 2 Locate the previous installation directory at the same location having a timestamp suffix in its name.
- 3 Note the timestamp value, and rename that directory to the name of the installation directory.
- 4 If you had specified the `-savedata` argument at the time of upgrading, move the data directories from the `.rollback` directory to the restored installation directory. These directories are: `input`, `data`, `output`, and `logs`.

See the release notes of the version to which you are reverting to know if you need to delete any data files and original logs reprocessed by the previous version.

# 2

## Installation

Reverting to a Previous Version of LAT SE

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# Postinstallation

# 3

This chapter describes the postinstallation tasks of Openwave License Administration Tool—Script Edition (LAT SE).

## In this chapter

[Postinstallation Tasks](#)

## Postinstallation Tasks

After a successful installation, you need to perform some postinstallation tasks. The notation <INSTALLDIR> refers to the location specified as the argument to the `install.sh` script.

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**IMPORTANT** For detailed steps on all the configuration tasks, see the *Openwave License Administration Tool—Script Edition 2.2 Administration Guide*.

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Perform the following post installation tasks:

- 1 Edit the <INSTALLDIR>/config/download.cfg file to define the locations used by Openwave products, from which LAT SE is downloading log data.
- 2 Add the passwords for use by the downloader, using the <INSTALLDIR>/bin/latse password command. This interactive program reads the download.cfg file, and presents a list of hostname-user combinations. The user then selects the desired hostname-user, and enters the password. These passwords are stored in an encrypted form in a separate file, and are not visible in the download.cfg file.

---

**NOTE** The remote host must be running, and must respond to “ping” when this script is run.

---

If the `download.cfg` file contains only the copy entries, then you need not run the Password module.

Example of invoking the password:

```
% bin/latse password
Validating the list of host configured in
/opt/opwv/latse/config/download.cfg ...
0. To Exit
1. Password for (Host-Userid) ads-dev3-z3-opwv
2. Password for (Host-Userid) ads-dev5-login
Enter Option based on above list : 1
Enter password :
```

```
Do you want to continue(Type e to exit or c to continue) : c
```

```
1. Password for (Host-Userid) ads-dev3-z3-opwv
2. Password for (Host-Userid) ads-dev5-login
Enter Option based on above list : 2
```

```
Enter password :
```

```
Do you want to continue(Type e to exit or c to continue) : e
```

If there are no entries in the `download.cfg` file that require passwords, then the following message is displayed when the Password module is run:

```
WARNING No Hostname enabled in download configuration file
/opt/opwv/latse/config/download.cfg
```

- 3 Edit the `<INSTALLDIR>/config/rba.cfg` file, the `<INSTALLDIR>/config/slrba.cfg` file, the `<INSTALLDIR>/config/metrica.cfg` file, the `<INSTALLDIR>/config/location.cfg` file, or the `<INSTALLDIR>/config/smgstats.cfg` file according to the instructions in the *Openwave License Administration Tool—Script Edition 2.2 Administration Guide*.

To run transform for a product, you need to configure its corresponding configuration file.

---

**NOTE** If you use the `-saveconfig` option for installing LATSE-2.2, then restore the configuration files copied by the installer—`slrba.cfg.new` and `rba.cfg.new`—to `slrba.cfg` and `rba.cfg` respectively. This is because Release 2.2 does not support the `rba.cfg` and `slrba.cfg` files of LAT SE Release 2.1 and earlier versions.

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- 4 Edit the `<INSTALLDIR>/config/notification.cfg` file to define the `SMTP-SERVER`, `EMAIL-FROM`, and `EMAIL-REPORTS-TO` values. You can also configure `EMAIL-ERRORS-TO` if you want to receive email notifications for errors.

- 5 Edit the <INSTALLDIR>/config/report.cfg file to define the Site-Id that uniquely identifies the site running LAT SE, Customer-Name, and Contract-Id. These values are used when generating reports so that the reports identify the proper deployment. If you want region wise reports, then you must configure this in the file region.cfg.
- 6 Add the four cron entries for the LAT SE cleanup, downloader, transformer, and license calculator to your existing crontab by referring to the <INSTALLDIR>/crontab.example file. See the *Executing Crontab Entries* section in the *Openwave License Administration Tool—Script Edition 2.2 Administration Guide*.
- 7 Remove the temporary tree where the tar file is extracted, as it is no longer needed.

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**IMPORTANT** For more details on how to edit each configuration file for enhanced performance, see the *Configuring LAT SE* section in the *Openwave License Administration Tool—Script Edition 2.2 Administration Guide*.

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- 8 Follow the Performance Tuning instructions in the *Performance Tuning* chapter of the *Openwave License Administration Tool—Script Edition 2.2 Administration Guide*.

# 3

## Postinstallation Postinstallation Tasks

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# Uninstallation

# 4

This chapter describes how to uninstall Openwave License Administration Tool—Script Edition (LAT SE).

## In this chapter

[Uninstalling LAT SE](#)

## Uninstalling LAT SE

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**IMPORTANT** As a rule, do *NOT* uninstall LAT SE before installing an upgrade of LAT SE. If you need to uninstall LAT SE for any other reason, follow the uninstallation procedure described in this chapter.

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### To uninstall LAT SE

- 1 Edit the crontab file to remove the LAT SE references.
- 2 Stop any running LAT SE process or wait for them to complete.
- 3 Rename or delete the <INSTALLDIR> directory that is specified at the time of installing LAT SE.

OR

Change the current directory to <INSTALLDIR>, and then run the `admin/uninstall.sh` script. This script uninstalls LAT SE but does not delete the downloaded data, transform data, report output, and LAT SE logs.

The `uninstall.sh` script has the following built-in safety features to prevent accidental uninstallation:

- You must run the `uninstall.sh` script from the installation directory
- Each of the installed directories must be present to ensure that this is a proper installation of LAT SE
- You must supply a confirmation response, "CONFIRM" in capital letters, via standard input to explicitly confirm the uninstallation
- To avoid the interactive confirmation, you can specify an optional `-CONFIRM` argument. A message appears saying:
- The uninstallation will begin in 10 seconds. To abort the uninstallation, just interrupt the script.
- Only the installed directories are deleted, preserving the downloaded logs data, transform output, report output, and the log files from LAT SE; the configuration data is removed even if it is modified after installation.