

Powered by Universal Speech Solutions LLC



Deb Installation Manual

Administrator Guide

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Author: Arsen Chaloyan

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1 Overview

This guide describes how to obtain and install Unispeech License Server on Debian-based Linux distributions. The document is intended for system administrators and developers.


1.1 Applicable Versions

Instructions provided in this guide are applicable to the following versions.

 Unispeech License Server 1.0.0 and above

1.2 Supported Distributions


Packages are currently available only for x86_64 (64-bit) architecture.

Operating System	32-bit	64-bit
Ubuntu 16.04 LTS (xenial)		

Note: packages for other distributions can be made available upon request.

1.3 Authentication

An elevated UniMRCP user account is required to obtain the packages. Send a request to

 services@unimrcp.org

2 Installing Deb Packages Using Apt-Get

Using the APT package handling utility (`apt-get`) is recommended for installation of packages.

2.1 Repository Configuration

The content of a typical configuration file of the APT repository, to be placed in `/etc/apt/sources.list.d/unimrcp.list`, is provided below.

```
deb [arch=amd64] https://username:password@unimrcp.org/repo/apt/ distr main unilickit
```

The *username* and *password* fields included in the HTTPS URI must be replaced with the corresponding account credentials.

The *distr* field must be replaced with the corresponding distribution code name such as *trusty*, *xenial*, etc.

2.2 GnuPG Key

For verification of binary packages, UniMRCP provides a public GnuPG key, which can be retrieved and installed as follows.

```
wget -O - - https://unimrcp.org/keys/unimrcp-gpg-key.public | sudo apt-key add -
```

2.3 Repository Update

In order to check for updates and apply the changes in the APT configuration, use the following command.

```
sudo apt-get update
```

2.4 License Server Installation

In order to install the license server, including the dependencies, the following command can be used.

```
sudo apt-get install unilic-server
```

As a result, `apt-get` will check and prompt to download all the required packages by installing them in the directory `/opt/unimrcp`.

2.5 License Toolkit Installation

In order to install the license toolkit only, which provides status retrieval and sample client applications to connect to the license server, the following command can be used.

```
sudo apt-get install unilic-toolkit
```

As a result, apt-get will check and prompt to download all the required packages by installing them in the directory */opt/unimrcp*.

3 Installing Deb Packages Manually

Packages can be installed manually using the *dpkg* utility. Note, however, that the system administrator should take care of package dependencies and install all the packages in appropriate order.

The deb packages have the following naming convention:

```
$packagename_${universion}-${distr}_${arch}.deb
```

where

- *packagename* is the name of a package
- *universion* is the version number of license toolkit
- *distr* is the distribution code name (trusty, xenial, ...)
- *arch* is the architecture (amd64, i386, all, ...)

3.1 Package List

The following is a complete list of deb packages.

Package Name	Description
unilic-toolkit	Unispeech license toolkit.
unilic-server	Unispeech license server.
uniapr	UniMRCP edition of the Apache Portable Runtime (APR) library.

3.2 Package Installation Order

A package for the APR library must be installed first.

```
sudo dpkg --install uniapr_${aprversion}-${distr}_${arch}.deb
```

Then, a package containing the license toolkit should follow.

```
sudo dpkg --install unilic-toolkit_${universion}-${distr}_${arch}.deb
```

Finally, a package containing the license server should follow.

```
sudo dpkg --install unilic-server_${universion}-${distr}_${arch}.deb
```

4 Installing License Files

4.1 Host Information

Host information the license server is installed on needs to be retrieved and submitted for generation of license files.

Use the installed tool *unilicadmin* to retrieve the host information.

```
sudo /opt/unimrcp/bin/unilicadmin -i
```

As a result, a text file *uninode.info* will be saved in the current directory. Submit the file *uninode.info* for license generation to

```
services@unimrcp.org
```

4.2 License Installation

The obtained license files must be placed into the directory */opt/unimrcp/data/license*.

```
sudo cp *.lic /opt/unimrcp/data/license
```


5 System Daemon

This section outlines how to start/stop the license server as a daemon.

Upon installation of the server package, a systemd unit file *unilic.service* is installed in the directory */lib/systemd/system* and can be used as follows.

5.1 Starting Daemon

```
systemctl start unilic.service
```

5.2 Stopping Daemon

```
systemctl stop unilic.service
```

5.3 Retrieving Daemon Status

```
systemctl status unilic.service
```

5.4 Setting Auto-start on Next Boot

```
systemctl enable unilic.service
```