Uni MRCP

RPM Installation Manual

Administrator Guide

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1 Overview

This guide describes how to obtain and install Unispeech License Server on Red Hat-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
Red Hat / Cent OS 7		✔

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 RPMs Using YUM

Using the Yellowdog Updater, Modifier (yum), a command-line package management utility for Red Hat-based distributions, is recommended for installation of packages.

2.1 Repository Configuration

The content of a typical yum configuration file, to be placed in /etc/yum.repos.d/unimrcp.repo, is provided below.

```
[unimrcp]
name=UniMRCP Packages for Red Hat / Cent OS-$releasever $basearch
baseurl=https://username:password@unimrcp.org/repo/yum/main/rhel$releasever/$basearch/
enabled=1
sslverify=1
gpgcheck=1
gpgkey=https://unimrcp.org/keys/unimrcp-gpg-key.public


[unilickit]
name=Unispeech License Server Packages for Red Hat / Cent OS-$releasever $basearch
baseurl=https://username:password@unimrcp.org/repo/yum/unilickit/rhel$releasever/$basearch/
enabled=1
sslverify=1
gpgcheck=1
gpgkey=https://unimrcp.org/keys/unimrcp-gpg-key.public
```

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

2.2 Repository Verification

In order to verify that yum can properly connect and access the UniMRCP repository, the following command can be used.

```
yum repolist unilickit
```

where *unilickit* is a name of the section set in the yum configuration file above.

In order to retrieve a list of packages the repository provides, the following command can be used.

```
yum --disablerepo="*" --enablerepo="unilickit" list available
```

2.3 License Server Installation

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

```
yum install unilic-server
```

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

2.4 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.

```
yum install unilic-toolkit
```

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

3 Installing RPMs Manually

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

The RPM packages have the following naming convention:

> $packagename-$universion-$packageversion.el$rhelversion.$arch.rpm

where

- *packagename* is the name of a package
- *universion* is the version number of license toolkit
- *packageversion* is the RPM release version
- *rhelversion* is the Red Hat version
- *arch* is the architecture (x86_64, i686, …)

3.1 Package List

The following is a complete list of RPM 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

Note that all the RPM packages provided are signed by a GNU Privacy Guard (GPG) key. Before starting the installation, you may need to import the public key in order to allow the *rpm* utility to verify the packages.

> rpm --import https://unimrcp.org/keys/unimrcp-gpg-key.public

A package for the APR librariy must be installed first.

```
rpm -ivh uniapr-$aprversion-$packageversion.el$rhelversion.$arch.rpm
```

Then, a package containing the license toolkit should follow.

```
rpm -ivh unilic-toolkit-$universion-$packageversion.el$rhelversion.$arch.rpm
```

Finally, a package containing the license server should follow.

```
rpm -ivh unilic-server-$universion-$packageversion.el$rhelversion.$arch.rpm rpm -ivh
```

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.

```
/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*.

```
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 */usr/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
```