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# Deb Installation Manual

## Administrator Guide

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# 1 Overview

This guide describes how to obtain and install UniMRCP binary packages 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.

 UniMRCP 1.4.0 and above

## 1.2 Supported Distributions

UniMRCP deb packages are currently available only for x86\_64 (64-bit) architecture.

Operating System	32-bit	64-bit
Ubuntu 14.04 LTS (trusty)		✓
Ubuntu 16.04 LTS (xenial)		✓

Note: packages for other distributions can be made available upon request. For more information, contact [services@unimrcp.org](mailto:services@unimrcp.org).

## 1.3 Authentication

UniMRCP binary packages are available to authenticated users only. In order to register a free account with UniMRCP, please visit the following page.

 <https://www.unimrcp.org/profile-registration>

Note: a new account needs to be verified and activated prior further proceeding.

## 2 Installing Deb Packages Using Apt-Get

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

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 UniMRCP Client Installation

In order to install the UniMRCP client binaries, including the dependencies, the following command can be used.

```
sudo apt-get install unimrcp-client
```

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

directory */opt/unimrcp*.

Similarly, for installation of development kit(s), the UniMRCP client libraries and header files, the following command may follow.

```
sudo apt-get install unimrcp-client-dev
```

## 2.5 UniMRCP Server Installation

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

```
sudo apt-get install unimrcp-server
```

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

Similarly, for installation of development kit(s), the UniMRCP server libraries and header files, the following command may follow.

```
sudo apt-get install unimrcp-server-dev
```

In order to install a package containing a set of demo plugins to the UniMRCP server, the following command can be used.

```
sudo apt-get install unimrcp-demo-plugins
```

# 3 Installing Deb Packages Manually

UniMRCP deb 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 UniMRCP version
- *distr* is the distribution code name (trusty, xenial, ...)
- *arch* is the architecture (amd64, i386, all, ...)

## 3.1 Package List

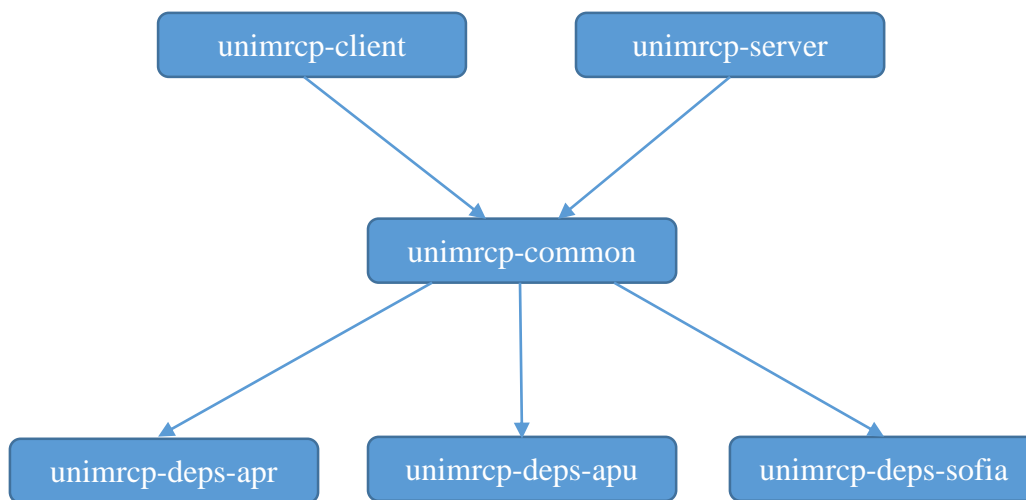
The following is a complete list of deb packages UniMRCP provides.

Package Name	Description
<b>unimrcp-client</b>	Shared libraries and sample applications of the client.
<b>unimrcp-client-dev</b>	Development kit of the client.
<b>unimrcp-server</b>	Shared library and application of the server.
<b>unimrcp-server-dev</b>	Development kit of the server.
<b>unimrcp-demo-plugins</b>	Set of demo plugins to the server. [Optional]
<b>unimrcp-common</b>	Data common for the client and the server.
<b>unimrcp-common-dev</b>	Development kit of the common client and server data.
<b>uniapr</b>	UniMRCP edition of the Apache Portable Runtime (APR) library.
<b>uniapr-dev</b>	Development kit of the corresponding APR library.
<b>uniapr-util</b>	UniMRCP edition of the Apache Portable Runtime Utility (APR-Util) library.

<b>uniapr-util-dev</b>	Development kit of the corresponding APR-Util library.
<b>unisofia-sip</b>	UniMRCP edition of the Sofia SIP library.
<b>unisofia-sip-dev</b>	Development kit of the corresponding Sofia SIP library.

## 3.2 Package Dependency Graph

The following is a graph of package dependencies.



## 3.3 Package Installation Order

Packages for the APR, APR-Util and Sofia-SIP libraries must be installed first.

```

sudo dpkg --install uniapr_${aprversion}-${distr}_${arch}.deb
sudo dpkg --install uniapr-util_${apuverson}-${distr}_${arch}.deb
sudo dpkg --install unisofia-sip_${sofiaversion}-${distr}_${arch}.deb
  
```

Then, a package containing common data for the client and the server should follow.

```

sudo dpkg --install unimrcp-common_${universion}-${distr}_${arch}.deb
  
```

Based on your requirements, either a client package, or a server package, or both of them can be installed

next.

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

Optionally, a package containing a set of demo plugins to the server may follow.

```
sudo dpkg --install unimrcp-demo-plugins_${universion}-${distr}_${arch}.deb
```

The same order should be considered for the installation of the corresponding development packages.