

Remaster-Kit Documentation
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1. What is RemasterKit?

RemasterKit is an application that lets you easily remaster the ZevenOS LiveSystem or any other Ubuntu based Linux distribution. It is based upon a shell script using the tools mount, mkisofs, mksquashfs and chroot.

2. How to use it ?

First of all you will need a working directory and the proper LiveCD iso file. To create a working directory for an iso file just enter the following command as root (this is only an example):

```
remaster-kit create TestProject /home/myname/downloads/zevenos.iso
```

This command will create the folder **TestProject**, located in the root directory of the Linux system, and will start extracting the iso file and the including LiveSystem into this folder. The newly created folder **TestProject** will show several subfolders:

- edit,
- extract-cd,
- mnt,
- squashfs
- and a link to the zevenos.iso file.

Whereby the subfolder called edit contains the LiveSystem root directory.

You will need root rights, of course, to modify the LiveSystem within the subfolder edit. You have the choice of:

- a) either changing the background and the configuration files
- b) or using RemasterKit to execute a changeroot command in order to get directly into the LiveSystem. Being within the LiveSystem, feel free to add or remove software with the package managers apt-get, aptitude or dpkg.

To perform the changeroot you have to switch back to the folder called TestProject (using the command cd). Enter there the following command:

```
~/TestProject$ remaster-kit chroot
```

The command prompt will change then (something like /#) to indicate that you now are working as root in the LiveSystem environment (within the subfolder edit). You may now add or remove carefully (!) software with apt-get, aptitude or dpkg.

Be aware that not all actions will work correctly in the LiveSystem environment. Starting the Xserver for example is highly **not** recommended unless you know how to prepare the environment and how to clean up everything after having done your changes.

Once you have applied all desired changes to the LiveSystem, you need to re-pack the LiveSystem into the filesystem.squashfs image and re-build the final iso file. Additionally, the filesystem.manifest needs to be re-written in order to reflect the software packages included in the

new LiveSystem. Remaster-Kit will do all this automatically for you and even will create a md5 checksum.txt for your iso image file. It's up to you to burn it and to share it with others.

To quit the changeroot environment, execute the following command:

```
/# exit
```

And the changeroot session will be finished.

All you need for building the iso file is to execute the following command within the project folder:

```
~/TestProject$ remaster-kit build VolumeName remastered-zevenos.iso
```

This will create an iso image file called remastered-zevenos.iso which is labeled VolumeName. (Note: VolumeName cannot contain spaces)

3. A listing of typical commands:

create

will create a project directory, will mount the iso file and will copy all the content into the folder extract-cd. Afterwards the filesystem.squashfs will be mounted and will be copied to the folder edit

chroot

will perform a changeroot: the superuser root will switch to the LiveSystem environment (which is located in the folder edit). Root will be able to modify the system, for instance to install some new programs using an existing internet connection or to delete programs which are not suitable any more.

clean

will unmount the temporary directories in the TestProject folder and will delete them afterwards

remove

will delete the TestProject folder completely

4. Warning

Do not remaster LiveSystems with Kernels **below** 2.6.29 as the squashfs version will not be compatible with them.

5. Where to get the source of remaster-kit? How to edit it?

As Remaster-Kit is a simple shell script. The source is included and located in /usr/bin/. The shell script can easily be modified by any text editor.

6. Remaster-Kit is under a BSD license

Remaster-Kit is provided under the BSD license and therefore can be modified and redistributed without any permission, for commercial purposes as well as for free usage. A commercial

redistribution without the source code is granted as well. If you wish to redistribute Remaster-Kit be aware of the specific dependencies: chroot, mkisofs, mksquashfs.

7. Important folders in the LiveSystem

There are some special folders in the LiveSystem you might want to edit. Here is a selection of the most important ones:

Path	Description	Notes
/etc/skel	stores the default profile and config of every user which will be created	put default configs for users here
/usr/share/icons	stores the global icon themes	put new icon themes here
/usr/share/themes	stores the global gtk-themes and mouse themes	put new mouse cursor themes or gtk-themes here
/usr/share/sawfish/themes	stores the global sawfish window decoration	put new window decoration themes here