



dreambox 7025



Preface:

The filenames mentioned in this document are only examples and over Time the version numbers will change. Always use the latest versions of the available files/kits.

From where ? [here:](#) and this guide was written for **V0.4.4 rx**

This guide is an attempt to explain the most important features of the program. Some menu items are only for expert use, hence they can't be explained completely. Answers for these complex functions you will maybe find in this [Thread](#). Barry Allen is not only a simple boot manager, in the BA-Tools you will also find an comprehensive collection of useful and special features for the DM7025



BARRY ALLEN
the second FLASH

Attention: New !!

Since approximately Juli 2007 in the Images a new compression method is used for the filesystem of the Flash (SquashFS). You can identify this by a) OE 1.5 and b) the Images are significantly smaller (ca. 5MB less). Due to this change lots of Plugin are not working anymore and also Barry Allen < 4.0 doesn't support these images ! Starting from Version 4.1 the SquashFS is also supported when an image is unpacked on CF/USB/HDD.

Hence please use for these images only a Version > 4.2 anymore.

Because Barry Allen uses the Kernel from the Images which is in the flash memory of your box, this flash image has to include the routines for this new compression and up to date drivers, hence you are **forced** to have such an OE 1.5 Image in flash memory.

!! Please read at least the first 4 pages, they include the answers to the frequently asked questions !!

PS:

Everything you do based on this guide is done at your own risk. I have tried to write it as good and accurate as possible, but there is no liability for any damages caused by the usage of this guide.

Introduktion

- Section 1 - [Barry Allen Kit copy to the Dreambox in the directory /tmp](#)
- Section 2 - [Barry Allen installation with the Blue-Panel](#) (Gemini-Image in Flash)
- Section 3 - [Barry Allen installation with Telnet](#) (CVS- or Original DMM Image in Flash)
- Section 4 - [The Barry Allen Plugin Menu](#)
- Section 5 - [New Image adding with Barry Allen](#)
- Section 6 - [The Web interface of Barry Allen](#)
- Section 7 - [erasing Multiboot on the CF-Card by the usage of Multiboot](#)
- Section 8 - [CF-Card erasing with Windows \(Administration\) Tools](#)
- Section 9 - [Hints and FAQ](#)
- Section 0 - [Troubleshooting](#)
- Section A - [Debian](#)

Text Formating:

- Commands that need to be entered are marked in **bold**.
- Keys that need to be pressed are bold in rectangular brackets: **[Enter]**
- Text in normal font is for explanation purpose

Important!! Linux differentiates in the filenames between small and capital letters and also in the line breaks in textfiles. If it is needed to edit a Text in a file you therefore should use an [Unix-compatible Editor](#) like for example: Ultra Edit.

Background information's

On which media will now Barry Allen be installed? Well, quite simply the one you are offering to Barry Allen. This means, if Barry Allen find a CF-Card, it installs itself on it. If Barry Allen doesn't find a CF-Card but an USB-Stick then Barry Allen will install itself there and when Barry Allen finds neither a CF-Card nor an USB-Stick it will simply install on the Hard disk.

Be aware of the priorities that Barry Allen applies. The Installation-Kit from Barry Allen first looks for a CF-Card, then for an USB-Stick und finally for the Hard disk. If you want to use a CF-Card in your box, but want to install Barry Allen on the USB-Stick, then you have to temporary remove the CF-Card during the Installation of Barry Allen. (Caution: never remove or insert the CF-Card while the Dreambox is running, CF-Cards have to be handled like a hard disk)

For an installation of Barry Allen on an USB-Stick I have to remark that you **have** to have in Flash memory an image with kernel integrated USB-Drivers. Unfortunately all original- and most of the CVS-Images are without USB-Support during booting. Currently there is (to my knowledge) only a single plain CVS Image available with this feature to support USB-Sticks already during. This is the CVS-Image from [OoZooN](#), and you can get this image from the same homepage where you can get also the Barry Allen kit from.

Who wants to test Barry Allen and has neither a CF-Card nor USB-Stick should be aware that then Barry Allen and the by him installed images reside then on the hard disk and hence the hard disk will have to run all the time. With prices of less then €10,- for a CF-Card using the hard disk is not really an attractive alternative.

For advanced users: Since Version 0.3.0 there is a hidden feature to do things in the image immediately after the image extraction or copy – if there is on /media/ba a File/Shell script „bapostinst“ existing then this script will be executed after every copy/extract and the image path /media/ba/ba/<nameoftheimages> is passed to the script as argument – with this feature you can when you adapt the bapostinst accordingly copy, link, etc. things directly into the image.

From my own troublesome experience a few **Hints**:

Be especially carefully with the blanks in [Telnet](#)-commands (e.g. between **cd** and **/**). If this blank is missing then Barry Allen could maybe install itself in the Flash memory and will then abort because of insufficient space.

Is there a solution if this happens: Not really, except NEW-FLASHING hence be careful with blanks.

A CF-Card or an USB Stick **has** to be empty during the installation of Barry Allen. The Media is allowed to have a [FAT](#) partition on it. Once Barry Allen is installed, then you could switch to another media **before** booting and then erase the media with Barry Allen.

And... of course an attached Hard disk has to be **initialized** (formatted). And completely without a storage media (CF-Card, USB-Stick or HDD) it will not work either

[return ...](#)

FAQ:

(Some of the questions which get asked too often)

1. Can Barry Allen be simply upgraded?

Yes, simply [ipkg](#) install of the new Kits when booted from Flash, existing Images will be kept

Hint: *when you delete on the Barry Allen media in `/media/ba` the `ba.sh` the media will be erased (formatted) also during an installation*

2. How to get a newer/different image into Flash when Barry Allen is already installed? Do I have to remove the CF-Card for doing this?

No, you can leave the CF-Card in the Dreambox when Flashing with DreamUp or the Web Interface. But removing it should not do any harm either. And instead of a new „ipkg install“ of the BA Kit afterwards it is also sufficient to re-execute the shell script – for example if BA is installed on CF-Card:

:

```
cd /media/cf  
ba.sh patch  
ba.sh info
```

ONLY *when you remove the Plugin with „ipkg remove“ it gets dangerous for the images, because in this case the CF-Card will be cleaned properly including all your images on the CF-Card - which is also the idea behind a remove!*

3. Can I use Multiboot and Barry Allen?

Yes, but not on the same CF-Card / USB Stick / Hard disk. Barry Allen works totally different than Multiboot and uses a much simpler partitions layout on the devices, hence you to use a second CF-Card – then you can use depending which CF-Card you Plug into the Dreambox either Multiboot or Barry Allen alternatively.

4. Can is re-use my Multiboot CF-Card for Barry Allen?

Yes, but the CF-Card should be disabled with multiboot or re-formatted on a PC. Then simply boot with the CF-Card and re-install Barry Allen. Barry Allen will then prepare this CF-Card for his images.

PS: removing `multiboot.sh` on `media/mb` or `ba.sh` on `/media/ba` will be sufficient too so that BA installation will erase and prepare CF-Card.

5. Can I continue to use my Multiboot Images with Barry Allen?

Yes, but they would need to be exported in Multiboot to `/MB_Images` with copy `N` and can then be imported from there with Barry Allen (remark: copy `X` produces `.tar.bz2`, copy `N` produces `*.nfi` images)*

6. Is the /MB_Images directory of Multiboot and Barry Allen the same ?

Yes ,when you put it on the same device (e.g. /media/hdd/MB_Images)

7. How many images fit on a CF-cart or an USB-Stick?

Because with Barry Allen the Images all share the same File system, you have slightly more space available then with Multiboot, but per Image you still should calculate with 60-70MB to be able to do something sense making. And the total max number of images is 12 to fit the boot menu on the TV screen.

8. Will a CF-Carte or an USB-Stick be formatted during installation of Barry Allen?

Yes, for assuring that the media works properly it will be formatted, except Barry Allen (with Images) is already installed, then it will only upgrade. Barry Allen checks this by verifying the existence of `ba.sh`

7. Do I always have to boot from Flash for installing new images?

No, only in the BA Tools there are things like `autofs` which work only in Flash (but you then would get an information message) and of course things like removing or re-extracting the booted Image will (hopefully) not work

8. Does the Image in Flash have to be setup (Bouquets, Skins, EMU's etc.)?

No, not really and this is intentionally. In Barry Allen the Flash image is only for booting the [Kernel](#) from there. So the image in Flash doesn't need to be setup at all. But it doesn't do any hard if you setup Flash too.

9. I want to do a Filesystemcheck but get an Error message (unmount)?

This can happen for example if you have a [Swap](#) File there or you are standing in telnet on the device so that the unmount fails

10. What happens if I define a PIN?

When you define a PIN during the Image Selection while booting you will first have to enter this PIN, otherwise without correct PIN you can only boot the Flash. And without PIN in the wizards you will not allow you to do things like „boot, copy, rename“ which would do things with images on the CF card – so you are limited to „info“ and selecting the „flash“ for booting

So don't forget your PIN ! If you really have forgotten you're PIN in telnet doing `rm /media/ba/.blocked` Will remove the PIN File (or with `cat /media/ba/.blocked` you can read the PIN there in clear text) – hence don't let the kids read this hint ☺)

11. Does Barry Allen also works with OE 1.5 images?

*Yes, but then you have to have such an image also in Flash due to the Kernel dependency. And backups of such images into an *.nfi File could take very long (30-45 min), but there is a progress bar to entertain you.*

For such a Backup you will also need a Swap file of at least 128MB (see the BA Tools Menu for doing this)

But this is only the case if the `keepsquashfs` Option was disabled, because in case of `keepsquashfs` (which is default since version 4.1) the `squashfs` File system will be kept and hence it doesn't need to be re-created in case of backup

Troubleshooting

1. I have installed Barry Allen on a 1GB CF-Card.

In Flashmemory Gemini 2.3 which runs there nicely;

As N°1 the Gemini 2.3, which runs also nicely.

As N°2 the OoZooN Image from 01.05.2007. – It is impossible to get this image booting !

There are two typical problems with Barry Allen when an Image is not booting:

- *too old Image in Flash (because of secondstage Loader, Kernel and Drivers like squashfs - OE 1.5)*
-> **Solution:** Flashing an newer Image!
- *Filesystem of the CF-Card is dirty*
-> **Solution:** boot from Flash and choose a Filesystemcheck of the CF Card in the Barry Allen Tools!

2. Can I remove an image from CF-Card manually? (I have an Image which is not disappearing when using the delete command of the Wizard for installed Images)

- *Boot from Flash, and try before the remove of the Image a Filesystemcheck of the CF Card.*
- *and yes, you can also remove manually in Telnet:(but the plugin uses the same command)*
- **[rm -r /media/ba/ba/<nameoftheimage]**
- *PS: And a Swapfile should not cause any problems in this case, this is disturbing only during a Filesystemcheck because it could cause the CF-Card not to be unmountable.*

2. I have the OoZooN-Image in Flash and would like to install Gemini on an USB-Stick. Barry Allen is installed, but after a reboot it is not shown anymore under Games/Plugins. (?)

It can be that your USB-Stick works only with an USB-Hub. Most USB sticks are simply causing troubles. Check if the LED of the USB-Stick blinks after the Boot selection!

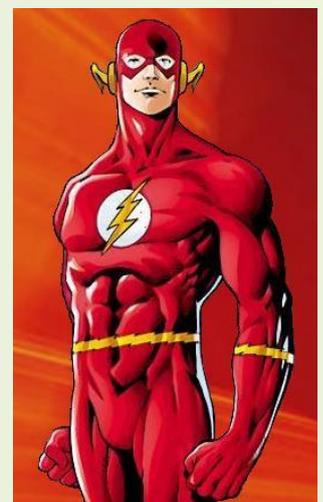
[return ...](#)

And finally a Thank You to **gutemine** for the Plugin Barry Allen und also for asking me to write this guide for you. And...also that **gutemine** corrected this guide.

For suggestions, Improvements and Error corrections I'm always open

And now have fun with

romeo-golf



BARRY ALLEN
the second FLASH

[return ...](#)

Section 1 - Barry Allen Kit copy to the Dreambox

1. What is needed for installation of Barry Allen ? Recommended is a CF-Card with at least 128MB.
(for the Neutrino-Image or an OE 1.5 Image also a 64MB Card could be sufficient)

And of course the Plugin kit itself:

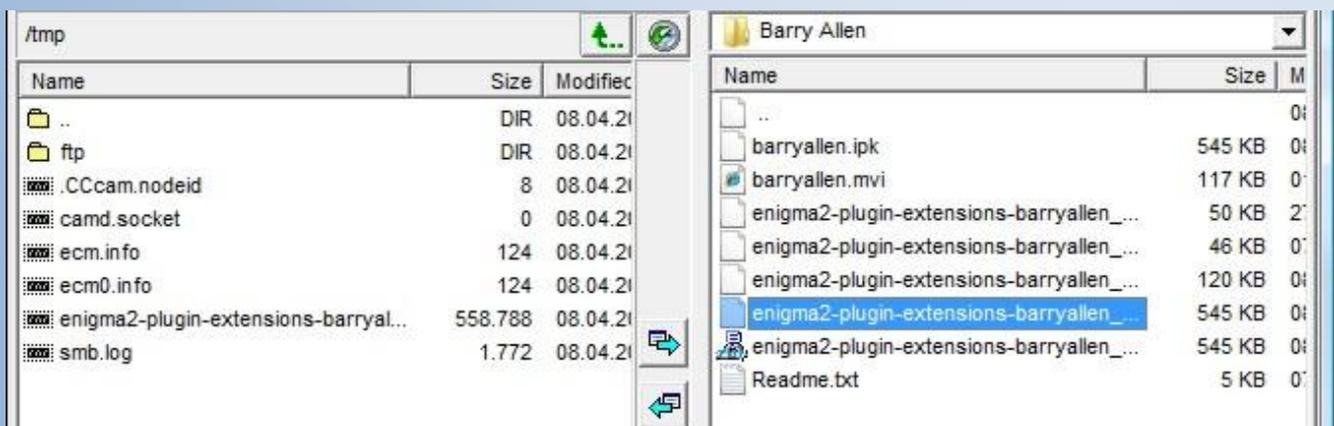
enigma2-plugin-extensions-barryallen_x.x.x-rx_mipsel.ipk

2. we also need a FTP-Program for copying the Barry Allen Kit but also the *.nfi Images to the Box and for those who don't use a Blue-Panel we have to be able to execute Telnet commands on the Box. For this we can take the (hopefully) well known Dreambox Control Center (DCC).



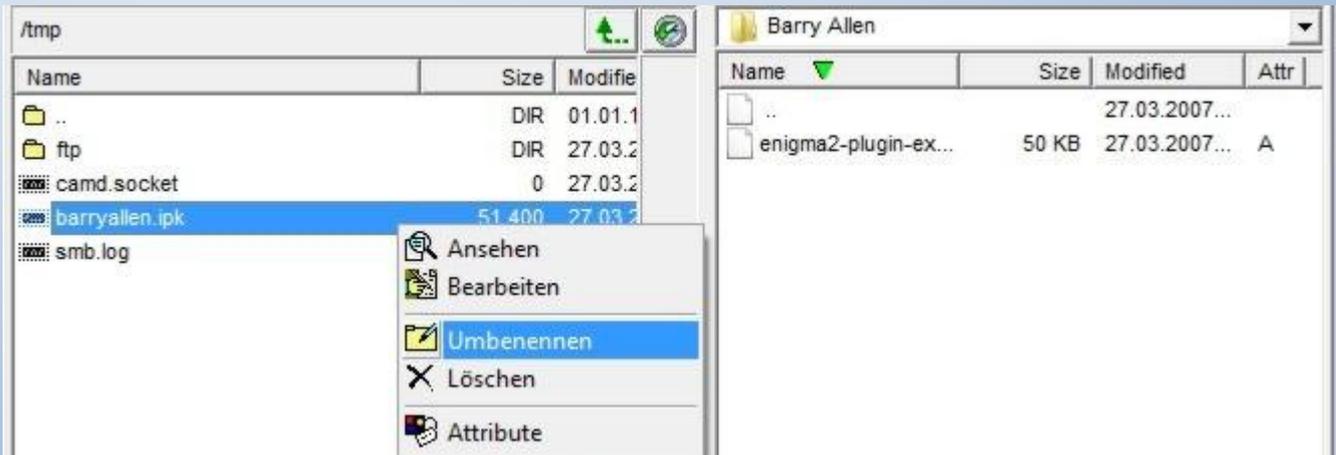
I will not explain DCC in more details, look into the How-to for DCC for configuring it. Imported are the two „Connected“ (see arrow) Protocols in the Controlwindow.

3. First we press in DCC den FTP Button and copy the Plugin to /tmp



1.

4. I recommend for avoiding later typos to rename the Plugin here. In the below example you can see that I renamed it to **barryallen.ipk**.



Hint: if you want to avoid the renaming then copy the text simply and insert it gain in DCC.

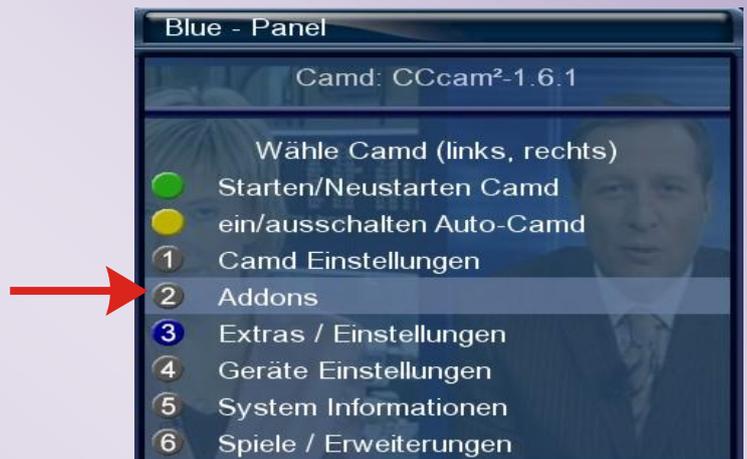


[return ...](#)

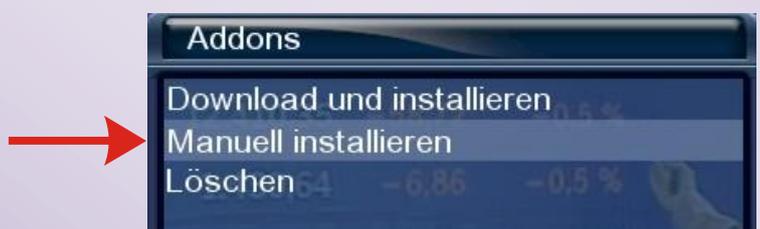
Section 2 - Installing the Plugin with the Blue-Panel of the Gemini-Images

Those of you who have a Gemini-Image in the Flashmemory of the Dreambox 7025 can install the Barry Allen Kit off course also with the Blue-Panel. For this do

1. press **Blue Button** and
choose **Addons** and press **[OK]**



2. activate **Manual install**
and press **[OK]**

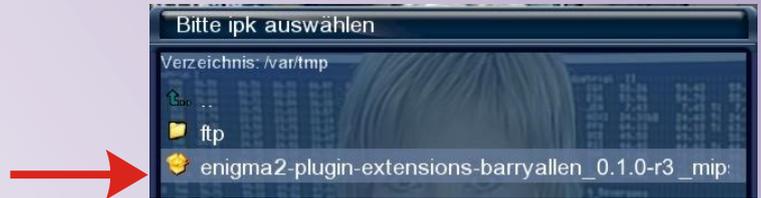


[return ...](#)

3. activate ipkg Packages (ipk) and press **[OK]**



4. activate the Plugin and press **[OK]**



5. the info message that the Addon was successful installed



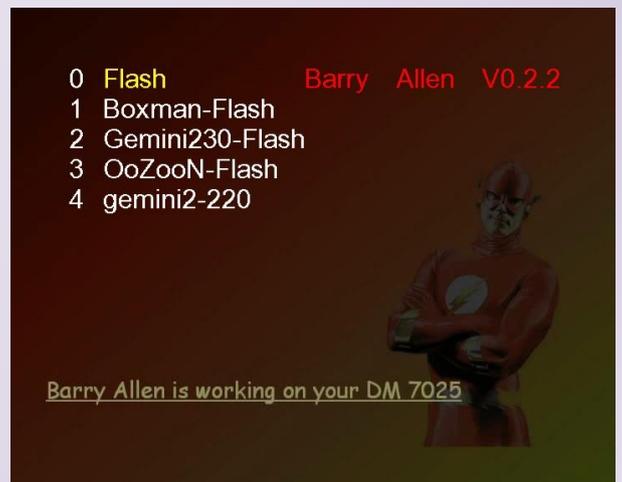
6. now Barry Allen is already installed.

(Putting Barry Allen in Flash) and the CF-Card is partitioned and formatted with the Linuxformat "ext3"

Now Barry Allen is ready to be used and the Dreambox has to be rebooted

7. After the reboot we see, that Barry Allen is installed. On the first reboot we only have one image for selection. And this is the current image in Flashmemory.

Either you now press **[OK]** Button or You wait approx. 12 sec.



Remark: in this example I also switched to the dark bootlogo in the Barry Allen settings Wizard.

- white text = selectable Image
- yellow text = pre-selected image
- green text = selected image

after approx. 12sec. starts automatically the pre-selected Image, or when you later enable a PIN it will be approx. 30sec.

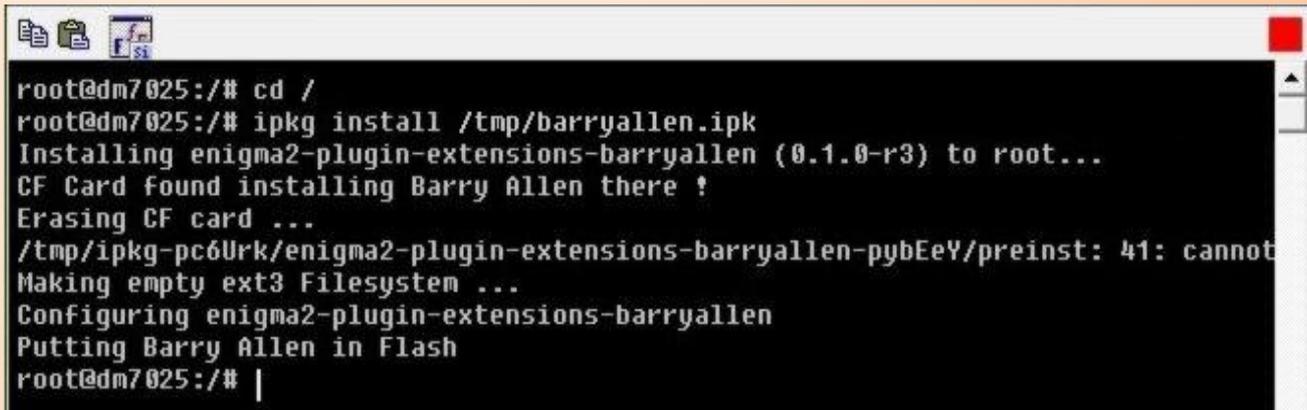
[return ...](#)

Section 3 - Installing the Plugins with Telnet for CVS-/Original DMM-Images

5. Who has an original or CVS Image in Flashmemory has to use a small but fast Telnet session. For this we press in DCC the Telnet Button und type in the following commands:

```
cd /  
ipkg install /tmp/barryallen.ipk
```

[ENTER]
[ENTER] (!! be aware of the blanks !!)



```
root@dm7025:/# cd /  
root@dm7025:/# ipkg install /tmp/barryallen.ipk  
Installing enigma2-plugin-extensions-barryallen (0.1.0-r3) to root...  
CF Card found installing Barry Allen there !  
Erasing CF card ...  
/tmp/ipkg-pc6UrK/enigma2-plugin-extensions-barryallen-pybEeY/preinst: 41: cannot  
Making empty ext3 Filesystem ...  
Configuring enigma2-plugin-extensions-barryallen  
Putting Barry Allen in Flash  
root@dm7025:/# |
```

Who has not renamed his Plugin can copy the commands into the Telnet Windows from DCC

```
cd /  
ipkg install /tmp/enigma2-plugin-extensions-barryallen*.ipk  
[ENTER]
```

6. now Barry Allen is already installed (Putting Barry Allen in Flash) and the CF-Card is partitioned and formatted with the Linuxformat „ext3“. Now Barry Allen is ready for use and you only need to reboot the Dreambox.

7. after the Booting we see that Barry Allen is already installed. On the first reboot we only have one image for selection. And this is the current image in Flashmemory.

Either we now press the **[OK]** Button or
We wait for approx. 12sek. until our Flashimage
Will be bootet or 30sec. in case we have entered a PIN.



Section 4 - The Barry Allen Plugin Menu

We press **[Menu]** and then **[OK]**, activate **Games/Plugins** and press again **[OK]**

Now we entered the Plugin Browser, which has a new entry.

„**BarryAllen, the second Flash**”

Activate it and press again **[OK]** ... and

it opens this Menu with its 6 Menu-Items.

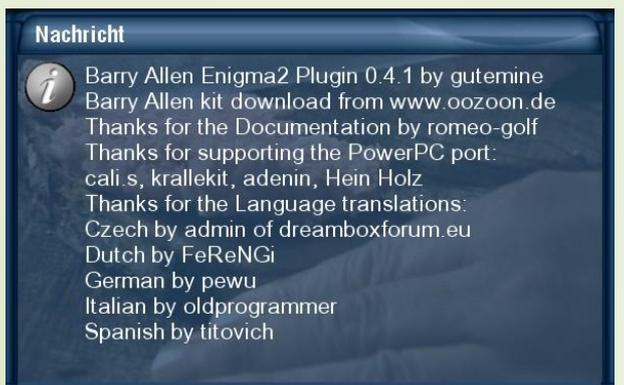
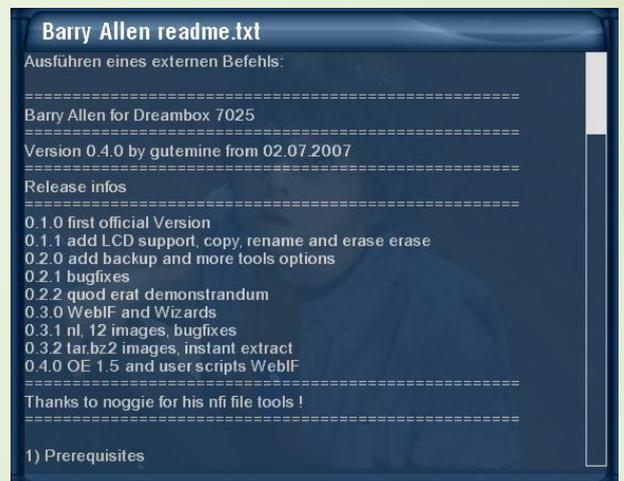
[Wizard for installed Images](#)
[Wizard for Images at MB Images](#)
[Wizard for Debian](#)
[Wizard for Tools](#)
[Wizard for Setup](#)
[Multiboot Downloadcenter](#)
[Barry Allen readme.txt](#)
[About Barry Allen Version 0.4.3](#)

readme.txt:

the readme.txt File from gutemine is shown on the screen. The text is in english (unless you switched language in another Barry Allen menu).

about Barry Allen Version 0.4.1

Information's about the installed Barry Allen Version and who helped in the development.
(PS: the „Thanks“ feels good)

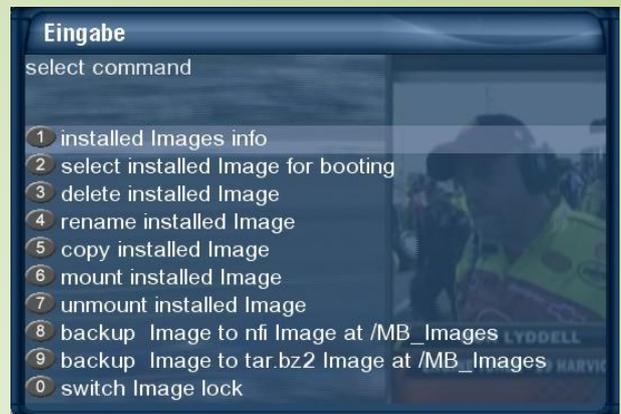


Wizard for installed Images:

1. installed Images info:

Shows me which Images are installed.
How much space they use and how much space is left on the device.

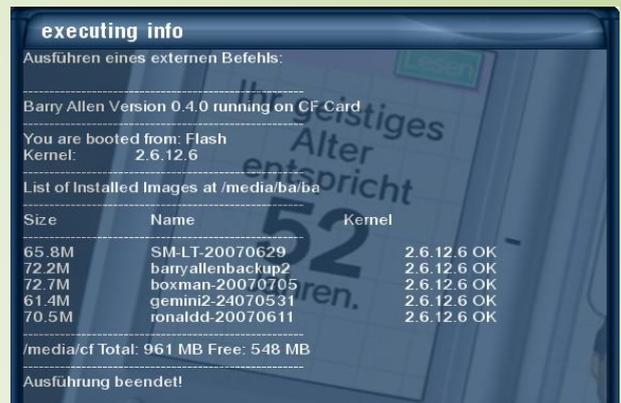
Important! You can see that the Kernel from Flash has Version number 2.6.12.6 and all installed Images also. If this would show different versions there could be problems, so take care that only images with same kernel version are installed! At least Flash should be higher then the rest.



2. select installed Image for booting:

Select here, which image should be booted.

(You see that you can choose similar to Multiboot (for the people who know it) here also the Image for Booting)



3. delete installed Image:

4. rename installed Image:

delete and rename of installed Images



5. copy installed Image:

For copying installed Images

6. mount installed image

7. unmount installed image



8. backup Image to nfi/tar.bz2 Image at

9. /MB_Images

On special request this creates an flashable backup of the choosen image. Including all Addons, Plugins and Files.

- 0. switch Image lock:** Here you can protect the Images on CF-Card with a PIN, but for 100% protection you should switch also to booting from Flash (otherwise the last booted image will be still bootable) – This is by intention so that recordings from deepstandby work without re-entering the PIN.



Wizard for Images at /MB_Images:

1+2 - list nfi/tar.bz2 Images at /MB_Images:

Shows these files at /MB_Images.

**.nfi Backup's can be flashed again via WebIf or DreamUP*

**.tar.bz2 Backup's can be installed only with Barry Allen or Multiboot,
And they can be also unpacked and partly extracted*

3+4 - extract: install an Image from /MB_Images

5+6 - remove: delete an Image from /MB_Images

7+8 - rename: rename an Image from /MB_Images

Wizard for Tools:

1 - restart options:

reboot and halt Dreambox - Restart, and Halt of the Dreambox 7025 are Features which are also available in the Standard image

- **restart Enigma2 on Dreambox** - the enigma2 restart was added to the Plugin because CVS and DMM Standard image .

- **enable WebIF flashing** - the Kernel is deleted to force that on next Reboot the WebIF for flashing is entered without pressing the Stop Button on the Dreambox

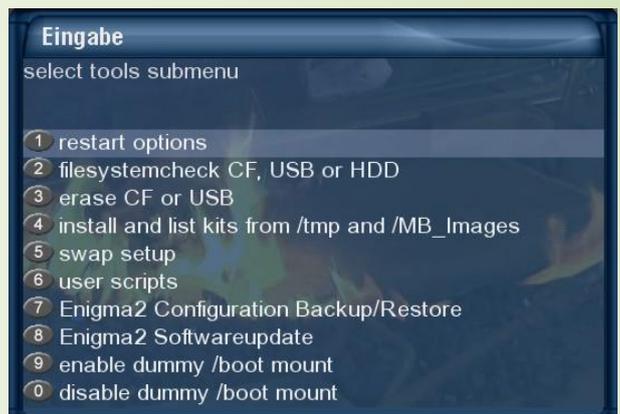
2 - filesystemcheck CF, USB, HDD:

Filesystemcheck of the CF-Card, the USB-Stick or the Hard disk. But this works only when you are not booted from this media. Hence it is better to use it when booted from Flash.

normal = simple errors are fixed

read only = testet only analyzing if errors are found

forced fix = also severe errors are automatically fixed, even when data loss could occur



3 - erase CF or USB:

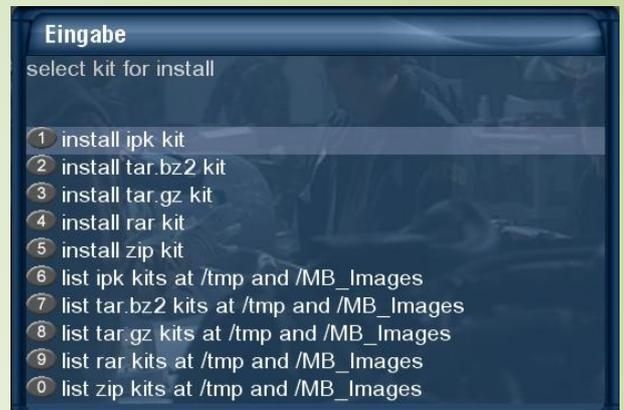
- Erase of CF Card - **Attention** all Data
- Erase of USB Stick - is deleted !!!



4 - install and list kits from /tmp and /MB_Images:

This will list you from /MB_Images and /tmp all found File With the requested extensions and on install you can choose one for installation. If a File is available both on /tmp and also on /MB_Images, so it will be shown only from /tmp and is installed from there.

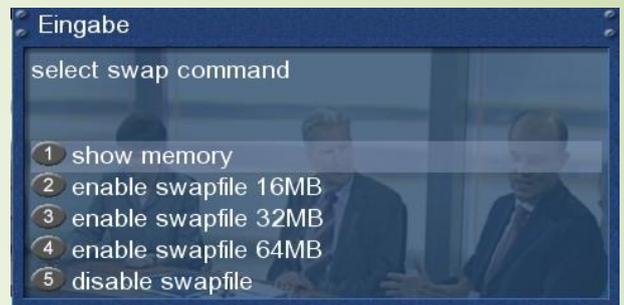
Kits on /MB_Images will be copied to /tmp before installation. So if the kit has this as prerequisite that is lies on /tmp this is taken care for, so don't be worried it works to have it on /MB_Images (because /tmp is emptied on every reboot)



5 - swap setup:

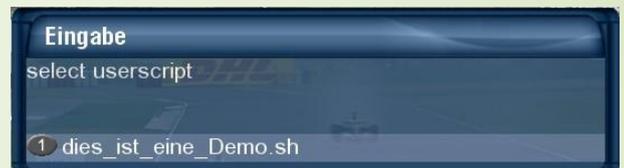
- **show memory:** shows the (free/used) memory of your Dreambox
- **enable swapfile:** created an x MB Swapfile on /media/ba and with
- **disable swapfile** this is removed again.
You see the difference when you call **show memory** before and after

*Remark: The Swapfile is added to /etc/fstab of the current Images, if you want to have a swapfile in multiple images you have to „enablen“ it in each image **Attention**, when the script says that the Swapfile already exists it could be that you need to “disable“ and „enablen“ multiply, but finally the Images would share a Swapfile on /media/ba (the Barry Allen Device CF/USB/HDD – depending where it was installed)*



6 – user scripts:

- You can put scripts at /media/ba/script and execute them in every image where they are useful. /usr/script per image is also supported



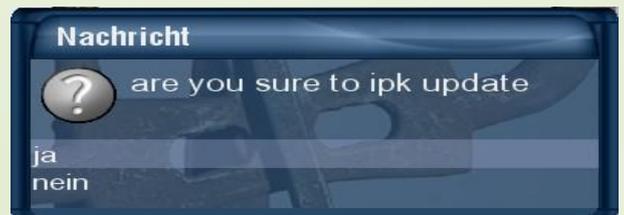
7 – enigma2 Configuration Backup/Restore:

- Backup-Modus (*recommended is only: /etc/enigma2*)
- Backup location (*if you have one choose: Hard disk*)



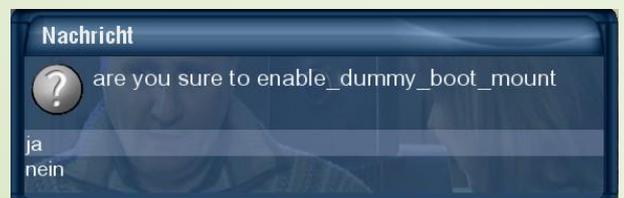
8 – ipk update

is equal to the normal software update as when it is done with the softwareupdate plugin, only /boot is automatically added temporary to the fstab, so that when Iso kernel is updated you don't get problems with images no in Flash (should avoid the famous can't find boot in fstab error)



9 – enable/disable dummy_boot_mount

there you can add/remove the /boot dummy mount by the plugin if you prefer to do the ipk update via telnet manually



Wizard for Setup:

1 - driver load:

- **load USB drivers** - selfexplaining
- **ifconfig, ifup, ifdown und netstat** – Network commands for checking existing Sockets/Connections and starting and stopping of networks
- **mount image temporary** – Normally other OE 1.5 images and especially the Flash are not mounted by BA, when you are booted from CF, USB,... Here you can do this temporary for copying things, etc,
- **force Kernel and Drivers onto Flash** – if you have compatibility problems between Flash and booded image it is worth a try, but use with care
- **toggle load of autofsf drivers** – If you have an original or for example a Boxman CVS Image in Flash and want to use the automount from Gemini you have to execute this 1x, when we are booted from Flash for installing autofsf. autofsf driver will then be loaded into the CVS Kernel during booting, so there is a chance that it works also in Gemini-Images to use automount
- **do not keep squashfs of OE 1.5 images** - Standard is now to unpack OE 1.5 Images in BA 4.1 in a way that the squashFS is kept (this is faster and saves space)

2 - sharing tools:

- **copy automount.conf**
- **copy timers.xml** - In both cases the image specific file will be linked to a shared File (which is then linked to from /media/ba) and for removing this the shared file at /media/ba will be copied into the image. By sharing you have your „automount“ Mountpoints and reoccurring Timers, when you have copied them in Flash with the same Menupoints to /media/ba.
- **shared timers xml**
- **shared epg.dat** – This will copy the timers.xml files and epg.dat to /media/ba, and when you then do this in another image these files will be linked to and you have a shared times.xml and epg.dat
Remark: be aware that the sharing increases the risk that one Image corrupts the file. Then all other images would have also a problem. Therefore generally said a „copy“ of the timers.xml is safer then a „share“, because the files stay individually within the images and are only copied via /media/ba between the images.
- **backup+restore shared** backup and restore on hard disk of these shared files
- **deactivate bapostinst** - starting with BA 4.1 there is a bapostinst template included which you can enable. This template will extract from /media/ba/backup a saved settings file which was created from the Configuration Backup Plugin immediately when you extract an image.



3 - /MB_Images link setup:

- Here you can setup on which Media you want the directory /MB_Images to be linked to.

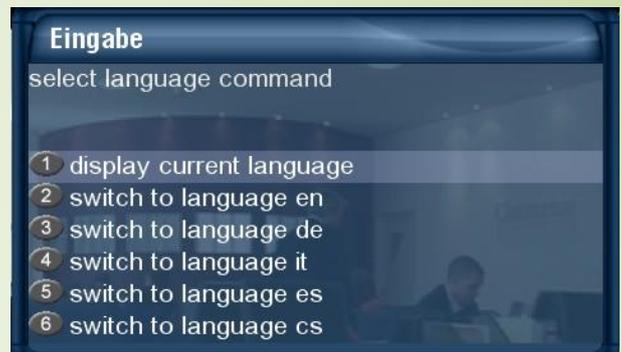


4 – patch Enigma2

- For example: When you do a WebIf update you will lose the patched BA WebIf, and when you execute this Menu item it will be re-patched. Also the Configuration Backup Plugin will be patched, so that CF is offered as Backup device even when booted from there. And it will also do all these modifications in elder images already unpacked before this was included.

5 - language setup:

- Shows current language
- Switch to the chosen language



6 - disable bootmanager:

- If you don't want a Bootmanager. Advantage is also that then no Flash drivers are used (only Kernel) and you save the 12 sec on booting.

7 - bootlogo barryallen_standard:

- bright bootlogo



8 - bootlogo barryallen_dark:

- dark bootlogo



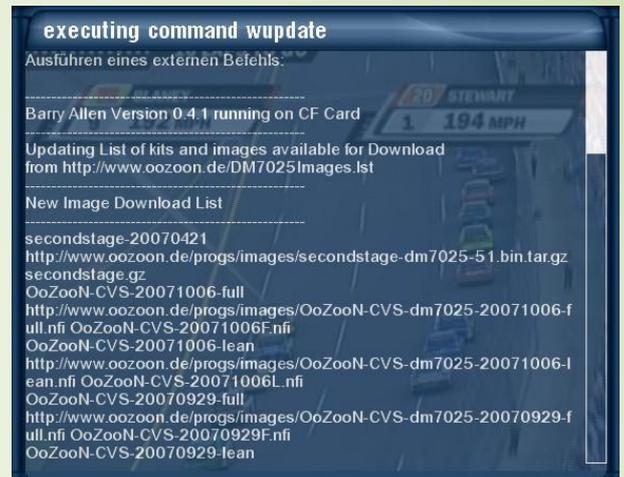
Multiboot Downloadcenter:

- **list /MB_Images** - your Files in /media/hdd/MB-Images
- **get updated list** – for getting the full list you have to choose this point at least once
- **remove /MB_images/secondstage.gz gz** – removes the secondstage.gz, this will then re-download on the next Image Backup automatically the current 5.1

on the second call the (full) List will be shown and you can choose to download the requested files, simply by choosing and **[OK]**.

(as you see on the slider on the right there are more files for download available as you see on the screenshot)

Besides other things you can download there also the latest Version of Barry Allen and then install with Tools without starting further programs !



get updated list – here the List from 07. October 2007

[return ...](#)

Section 5 – adding an Image in Barry Allen

Barry Allen expects the *.nfi Image files in the Directory MB_Images on the Hard disk of your Dreambox. For this we copy the files with DCC to the Dreambox. As you can see on the following picture it could be useful to rename the images. On the TV screen you can see only about 40, which means you should limit the image name length (to approx. 15 Characters).

For the lazy users: The „**instant extract feature**“: copy the Image (*.nfi) File simply to /media/ba and do a simple reboot, the rest (extract) Barry Allen will do automatically for you. 2. Difference: the installed Image will be booted after the extract.

(How to copy image files with DCC I don't want to explain here again. If you have difficulties with this read again Section 1 – copy Barry Allen Kit on the Dreambox in the Directory /tmp and replace /tmp with /MB_Images and of course we copy the image files (*.nfi). If your FTP-Program can't follow the Link MB_Images the use the real path /media/hdd/MB_Images.)

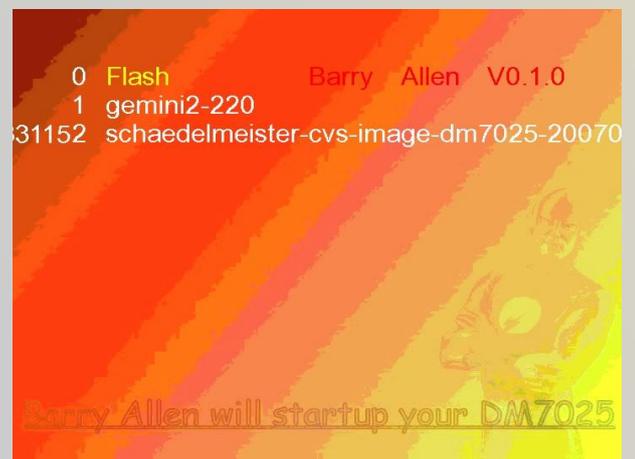
Too long Filenames are hard to read because they will not fit on the screen. Please be aware that image names are used in the menu as they are (unless you specify a target name)

This way renamed the Filenames are simpler to read and I choose here the OoZooN Image for installation. Then I activate the selection and press **[OK]**

As before here's the last chance to Stop the image extract. But we don't to stop... Except for example there is a recording running and you have forgotten about this, If not simply press **[OK]**

Now we read that we should not panic, because the running TV program will be stopped for about 3min. And we will have to watch a blank. When the TV program is back running we control with the MenuPoint [installed Images info](#) if the Image is now listed.

Then you can also choose this image for restart and setup



Section 6 - The Webinterface

Type in the Adress box of your Web-Browsers:

192.168.x.x/barryallen

(IP-ADRESS of DM7025/barryallen)

And confirm with [ENTER]



this Interface will appear.



In Principle all these 3 Wizzards are used the same way then the ones in the Plugin, but you enter everything in a single screen for better usability – choose command , choose source, enter target and optionally enter PIN. This are the fields of the Wizard in the WebIf

And because the WebIf executes in background like the Plugin the real work with a Shell Script you will see in the WebIf the Output of the Schell Scripts. Because of the background execution to prevent blocking enigma2 it could be that the full output is not available yet when you press (you can see this by the command finished on the end of the results WebIf screen and that you have a return to main menu button) If this is not the case then simply use the refresh button of the browser until full output is available. And then use the back to main menu button because only then the main menu will be refreshed (for example if you deleted or renamed an image it should be adapted in the choice box) If you forgot this there is also in the main menu screen a refresh main menu button.

Imagenames are taken as they are - IF you don't enter a target name

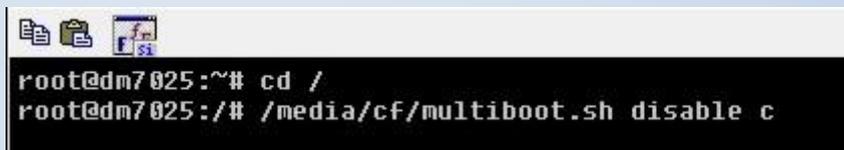
Remark: When you are in the bootmanager and press Mute (Speaker off) the Kernel will be deleted (rm -r /boot), but because kernel is already running (was extracted to memory) system will continue booting, only on the next restart the Box will enter the Flash Modus for Flashing with the WebIF without pressing stop button on boot (DHCP should be enabled in this case). A Feature which was developed for the 600er where you don't have LCD buttons which is now working also on the 7025

Section 7 - Multiboot deleting on the CF-Card

How to delete an existing Multiboot on a CF-Card, remove all Partitions and prepare the CF-Card for a new Installation of Multiboot or Barry Allen.

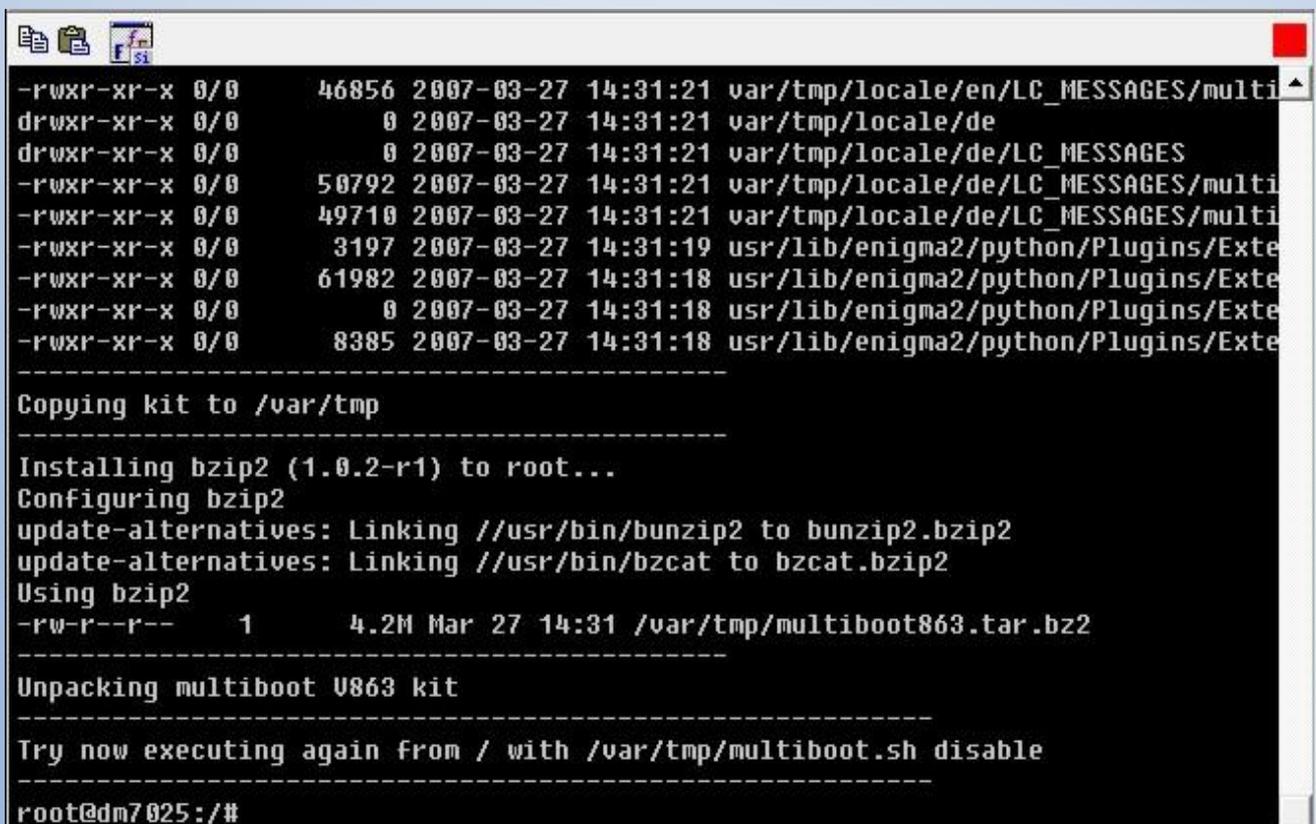
1. We boot with CF-Card inserted the image **from the Flashmemroy**. Then we start DCC and activate Telnet. There we enter:

```
cd / [ENTER]
/media/cf/multiboot.sh disable c [ENTER] ( !! be aware of the spaces !! )
```



```
root@dm7025:~# cd /
root@dm7025:~# /media/cf/multiboot.sh disable c
```

2. What happen? We'll, you can't change tires on your car while driving, so you have first to lift the car. This analogy means that the Multiboot Plugin is copied into the /tmp Directory. Now you can deinstall Multiboot by executing this script and the CF-Card is cleaned from all existing data.



```
-rwxr-xr-x 0/0 46856 2007-03-27 14:31:21 var/tmp/locale/en/LC_MESSAGES/multi
drwxr-xr-x 0/0 0 2007-03-27 14:31:21 var/tmp/locale/de
drwxr-xr-x 0/0 0 2007-03-27 14:31:21 var/tmp/locale/de/LC_MESSAGES
-rwxr-xr-x 0/0 50792 2007-03-27 14:31:21 var/tmp/locale/de/LC_MESSAGES/multi
-rwxr-xr-x 0/0 49710 2007-03-27 14:31:21 var/tmp/locale/de/LC_MESSAGES/multi
-rwxr-xr-x 0/0 3197 2007-03-27 14:31:19 usr/lib/enigma2/python/Plugins/Exte
-rwxr-xr-x 0/0 61982 2007-03-27 14:31:18 usr/lib/enigma2/python/Plugins/Exte
-rwxr-xr-x 0/0 0 2007-03-27 14:31:18 usr/lib/enigma2/python/Plugins/Exte
-rwxr-xr-x 0/0 8385 2007-03-27 14:31:18 usr/lib/enigma2/python/Plugins/Exte

-----
Copying kit to /var/tmp
-----

Installing bzip2 (1.0.2-r1) to root...
Configuring bzip2
update-alternatives: Linking //usr/bin/bunzip2 to bunzip2.bzip2
update-alternatives: Linking //usr/bin/bzcat to bzcat.bzip2
Using bzip2
-rw-r--r-- 1 4.2M Mar 27 14:31 /var/tmp/multiboot863.tar.bz2
-----

Unpacking multiboot U863 kit
-----

Try now executing again from / with /var/tmp/multiboot.sh disable
-----

root@dm7025:~#
```

3. Now „our car is lifted“ and we re-execute the Telnet Command with slightly different paths.

[return ...](#)

cd /
/var/tmp/multiboot.sh disable c

[ENTER]
[ENTER]

(!! be aware of the spaces !!)

```
root@dm7025:/# cd /
root@dm7025:/# /var/tmp/multiboot.sh disable c
-----
Disabling Multiboot ...
-----
Multiboot will be disabled on CF card only
Erasing CF card ...
Making empty Filesystem ...
Cleaning fstab ...
Cleaning up Multiboot directories ...
-----
Disabling multiboot finished
Multiboot devices should be mounted again EMPTY
Enigma2 needs to be restarted now ...
-----
root@dm7025:/# |
```

And now the CF-Card is again virgin and can be re-used.

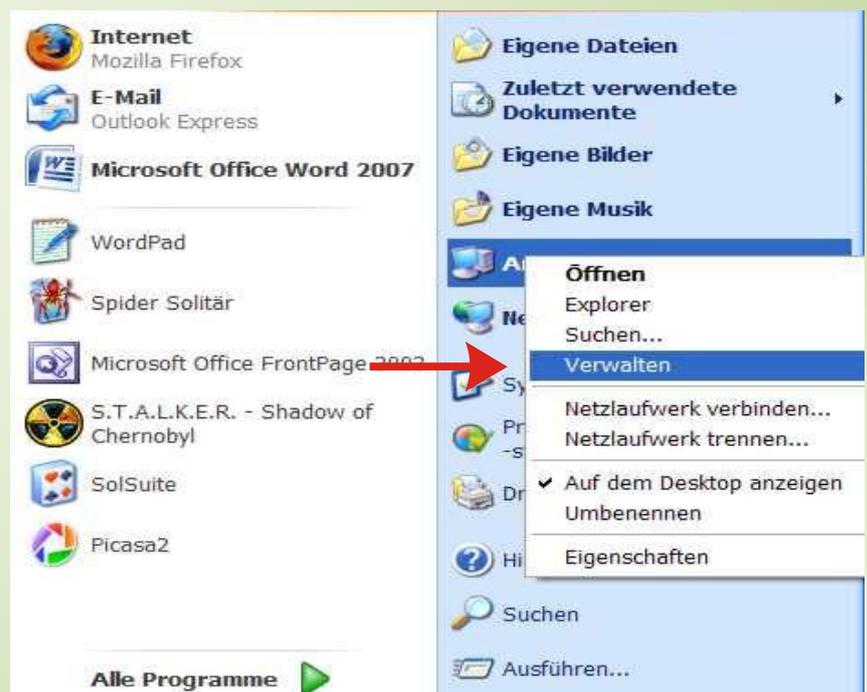
(for experts: a simple remove of /media/cf/multiboot.sh would be sufficient so that Barry Allen accepts the CF-Card formats it an prepares it)

[return ...](#)

Section 8 - CF-Card deletion with Windows XP

Left mouse button on Start

right mouse button on Administration

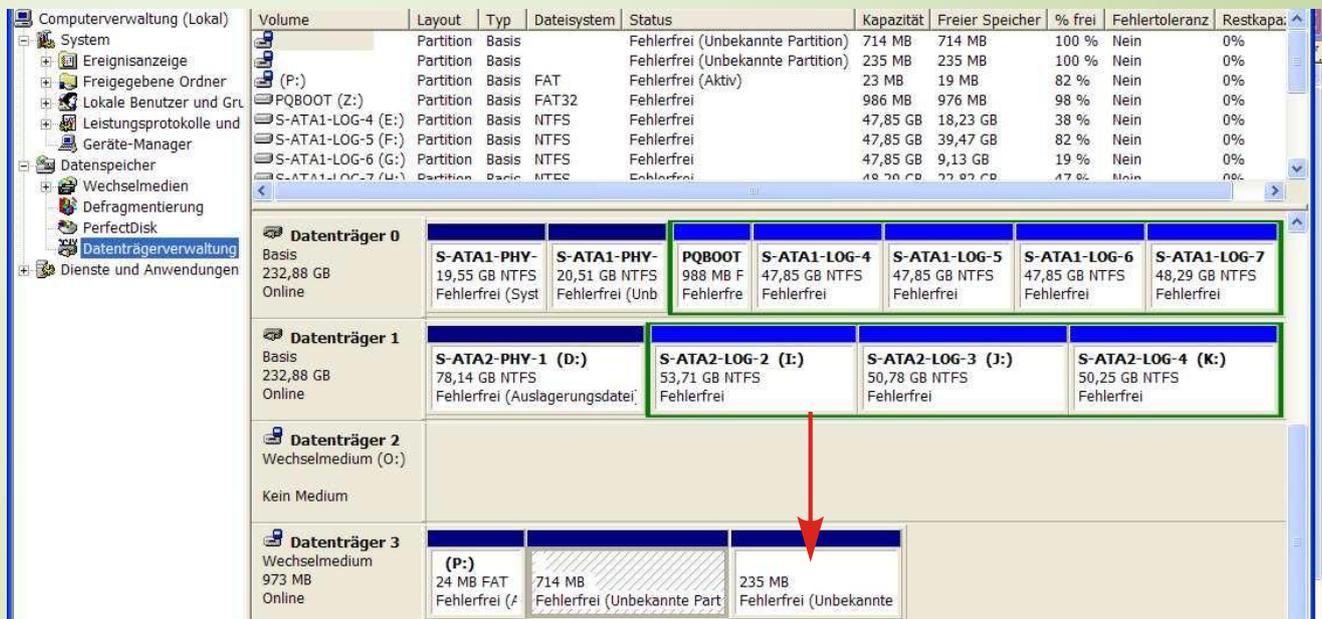


[return ...](#)

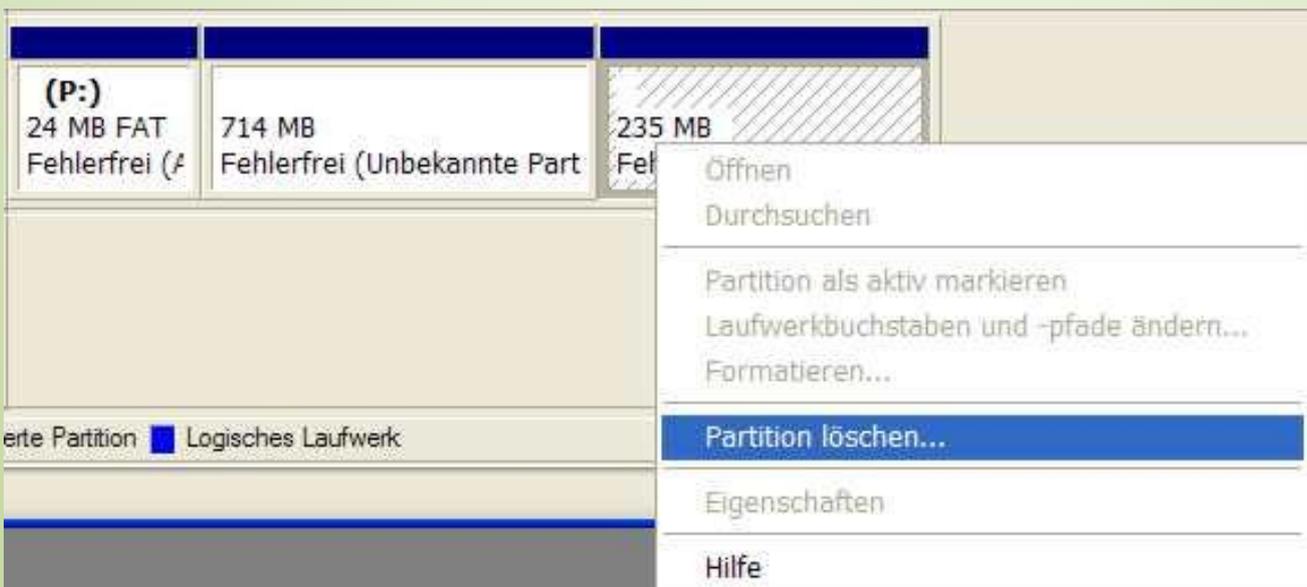
With the left mouse button click on the Storageadministration will show this picture

Storage 0 and 1 are my two 250GB big S-ATA Hard disk
Storage 2 and 3 are two of the many Drives of a Cardreaders/-writer

In Drive 3 is my 1GB big CF-Card, which I want to delete and format

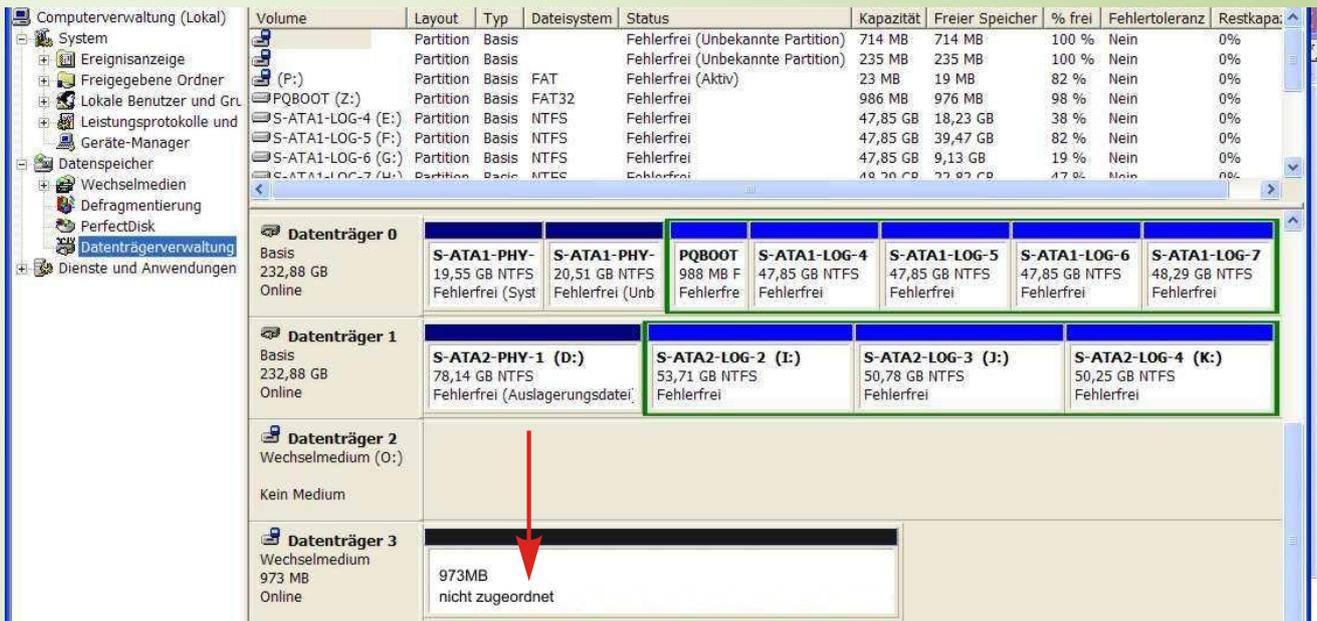


For this I click with the right mouse button on the **last** Partition and now choose with the left mouse button „Partition delete“



The Safety Question you answer with YES and the CF-Card will be deleted

What is really shown because the Partitions are not any more shown, simply the whole Card will be shown as „not used“.



again with the right Mouse Button you click on this Area and choose „New Partition“



Now you choose the Assistant and choose FAT and Standard

Click on continue and the CF-Card is finished after a few Seconds



Section A - Debian

Since Version 4.3 Barry Allen both for 7025 and 7020 and 600 as a new feature, that you can do a complete basic installation of **Debian** with Barry Allen on CF / HDD / USB. This installation will unpack **Debian** for you and allow it to boot as any other image, or even enter **Debian** with chroot while the enigma is running!

The only requirement is approximately 250MB free space on your Barry Allen CF card and the box must be online to download the mipsel / powerpc **debian** kit (about 50MB) from the **Debian** server on the Internet. Upgrade to version 4.3 of Barry Allen as usual if needed. Then either use the plugin (on the 7025 is also the WebIF possible) or telnet ba.sh to install a **Debian** image.

In Barry Allen plugin you can now find in version 4.3 the Menu entry **Debian** Wizard, if you choose this, at the moment only one menu item will be shown to install **Debian** Linux, and if you select it will ask you for the imagename for the **Debian** Image (debian is proposed as default). And then the plugin will execute already the ba.sh extract_debian imagename (with this command, you can also do it directly in telnet if you prefer this, because then the log in telnet is easier to be seen because it is quite long and scrolling in enigma could be painful)



After approximately > 1h (depending on the speed of your Internet connection it could be also 2h), you will then have an image with a **Debian** base installation of about 180MB on the Barry Allen device which then can be quite normal selected during booting with the boot manager from Barry Allen ! It will then also allow you to telnet, ftp, ssh into the installed **Debian** and there is a user **debian** created for you too, because **Debian** in the default installation is secure and there is no root logon with telnet via allowed (with ssh root would work).

CAUTION:

The root and the debain user still have NO default password !

Therefore after you extract with Barry Allen the **Debian** image you have to enter the **debian** image with chroot at least once to set the passwords of the **Debian** image !!!!;

For doing this I have extended the ba.sh so that (almost) everything is mounted as if **Debian** would be booted, although enigma2 still running. For entering the **Debian** distribution from an enigma2 image you have to enter:

```
cd / media/ba
ba.sh chroot nameofdebianimage
```

You are then already root user in the **Debian** image, and can do:

```
passwd
2 x enter password for root user
passwd debian
2 x enter password for user debian
```

With exit you can get back out of the chroot environment to a normal enigma image. And when you have entered these passwords you can now boot **debian** and logon with the **debian** user via telnet. Caution, if you ONLY chroot the devices / media/hdd and /media/cf are not mounted, it can be necessary to manually mount them, because in the fstab they are already included (do mount /media/hdd for example if needed)

Alternatively, you can now select the **Debian** image as usual in the BA plugin for booting next, or with the Barry Allen boot manager. Of course, the **Debian** image shows an appropriate boot logo, but because (yet?) no graphical user interface is included in your minimum **Debian** installation you can enter the **Debian** image only with telnet, ssh and FTP. The TV screen itself will show nothing except the Boot Logo.

As I said due to the security settings you must first logon as **debian** user (or use ssh then also root will be allowed) with the password you set, and then you can do the following to become root:

```
# su -
```

Then you are root and can administrate **Debian** as you want (ba.sh then of course will work also as usual).

You can now use root for example to start with apt-get install paketname or aptitude for selecting further **Debian** packages from the distribution to be installed (all that are available from **Debian** server via Internet download). Actually, almost everything available in **debian** you should be able to install (apache, php, mysql, ... even X-Windows, ... - although of course this could not (yet?) run), but you must be aware that through Memory, CPU performance of the Dreambox and the free space on the Barry Allen device you have some limitations, especially when **debian** is only running in chroot, and the enigma is still running.

With adduser btw. you then can add further **Debian** users on your own. And, of course, the normal Dreambox devices such as CF / HDD are mounted when **Debian** is booted with Barry Allen and you can also do a ba.sh Flash (or nameofmage) to select something else to boot. If you know **Debian** you then can decide yourself what to do next, with your **debian** installation on the Dreambox and then you can post here in the thread your experiences and documented what and how you managed to install setup and run !

Well, what's the added value of **Debian** on the Dreambox ? First of all of course, a lot (!) of Software from the **Debian** distribution. This software is compiled and tested, including all necessary kits, libs .., Furthermore, you get the man pages, apropos when you look for an unknown command, by searching on the Internet you can find lots of documentation on how to setup various things. You can use your dreambox in your TV-free time as a complete web server as far as the hardware permits it to operate, you can install other user interfaces,...

And you certainly will find a lot more usefull things !

[return ...](#)