INNOVATIVE
AUDIO SOLUTIONS

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AN023 ALLDSP Flash Image manual

The ALLDSP flash image feature gives the developer or administrator of a loudspeaker system the opportunity to backup the complete DSP settings including the firmware of the DSP.
This enables the customer to easily load the whole settings including the firmware to a DSP during assembling procedure.
The installer of a system can make a backup when he leaves the job and be sure to have a recovery file if anything goes wrong at any time.
A loudspeaker manufacturer can upload the newest settings (including firmware) to the website to offer the system administrator an easy option to update the DSP to the latest settings.

*This manual assumes that the user is familiar with the basic software functionality.*

1. Preparations

Please use the ethernet connection of the DSP to connect to the software (USB does only support to load a flash image).
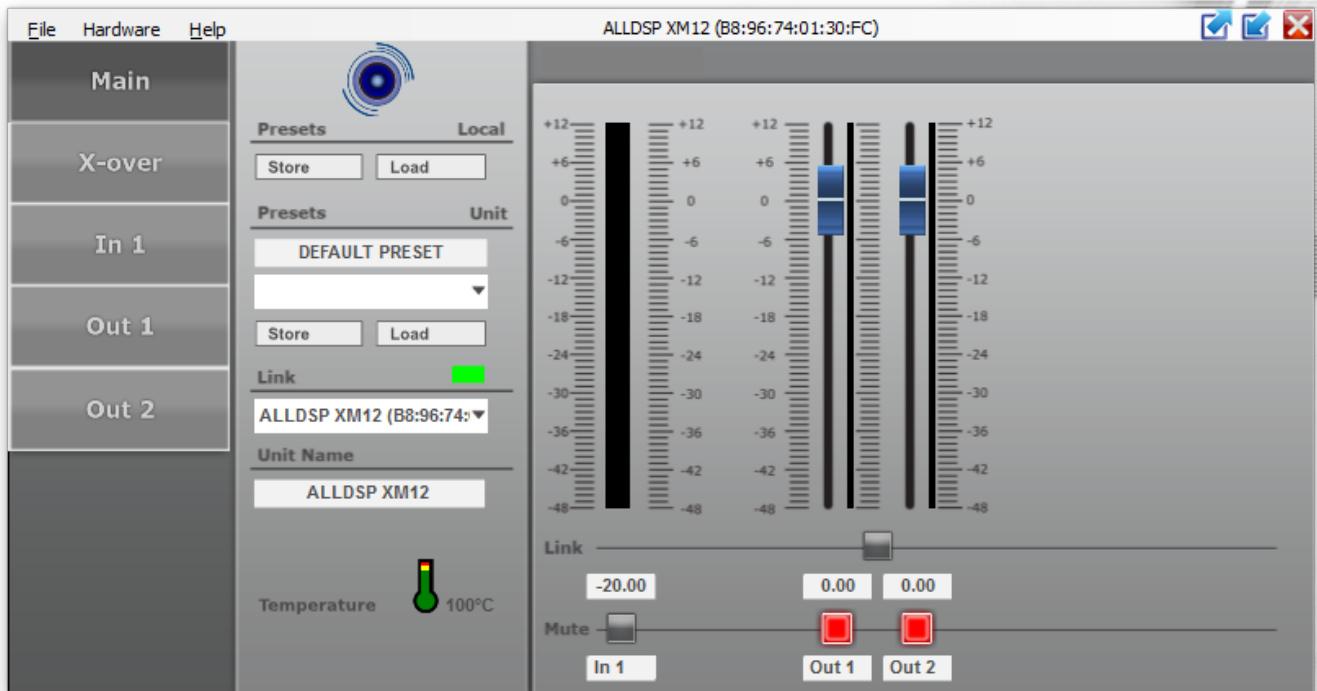We recommend to use a router with a DHCP server to interconnect the computer and the DSP module. It is also possible to use a direct connection or a switch but the   setup with a router is the most reliable option (it is also reliable to use a switch that is   connected to a router with a DHCP server).
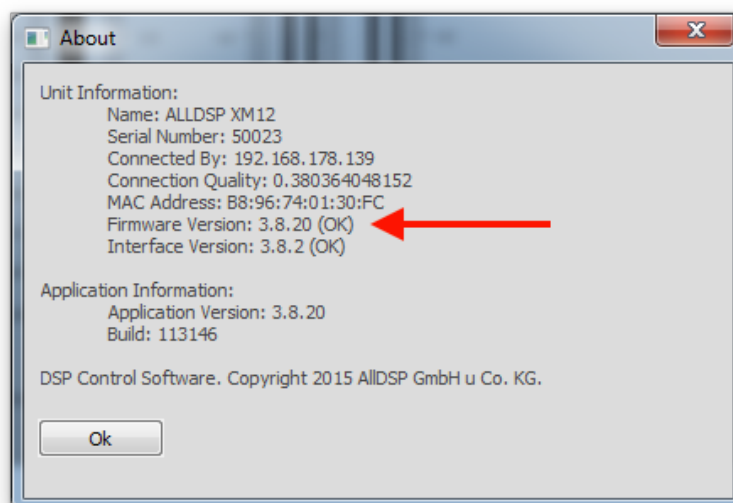
2. Create a flash image

2.1   open the software
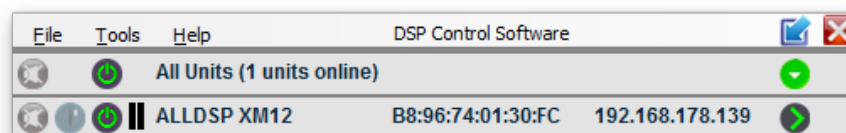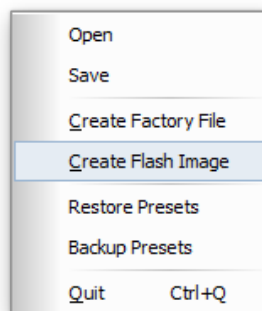
2.2 open the unit window

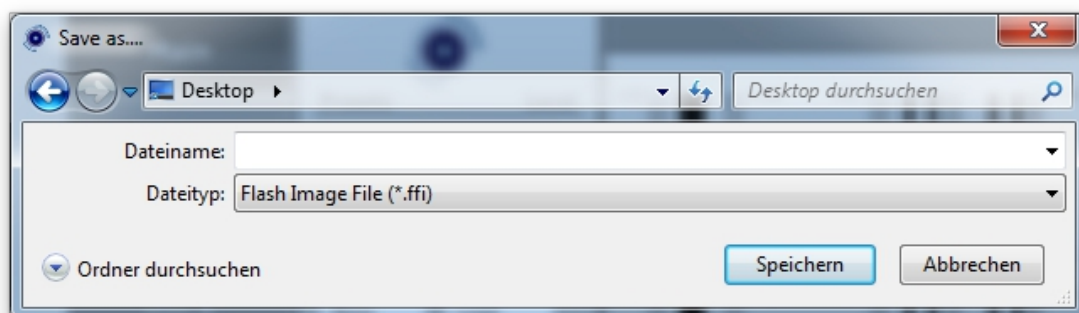## 2.3 make sure the firmware is up to date (help → about)

2.4 **enter the password to switch to Admin or Developer mode**

The function to create a flash image is only supported in admin or developer access   level. Please contact us if you would like to change this.
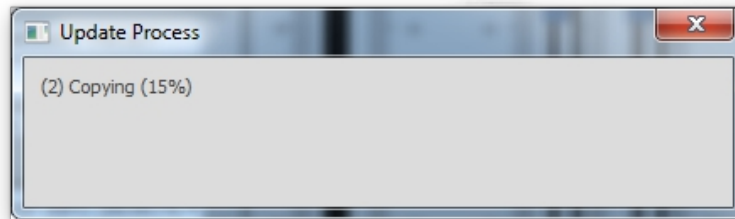
2.5 **create a flash image (file → create flash image)**

Open
Save
Create Factory File
Create Flash Image
Restore Presets
Backup Presets
Quit   Ctrl+Q

2.6 **choose directory to save the flash image**

Save as....

Desktop ▸   Desktop durchsuchen

Dateiname:

Dateityp: Flash Image File (*.ffi)

Ordner durchsuchen   Speichern   Abbrechen

2.7 **click on save and wait for process to finish**

Update Process

(2) Copying (15%)

2.8   click ok once finished

Update Process

(2) Finished

[Ok]
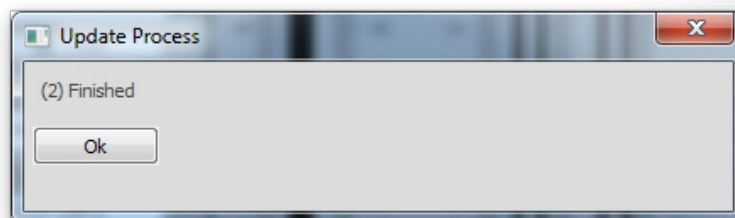
2.9   finished

The flash image is finished and should be saved in the previous chosen folder.
It uses the file extension .ffi .

3. Load a flash image

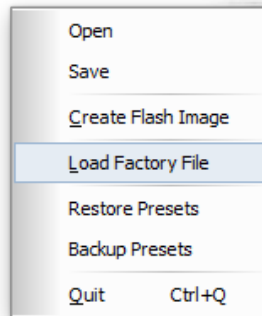It is only possible to load a flash image if the access level is switched to admin   mode.
<u>Very important: It is only possible to load a flash image to the same DSP model.</u>
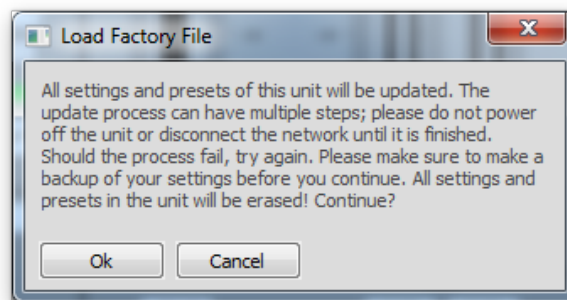For example you can only load a flash file of a 1800B to a 1800B and not to a 1800i   or PLP for example.
It is possible to change the software application to allow the user to load a factory   file. Please contact us for details.
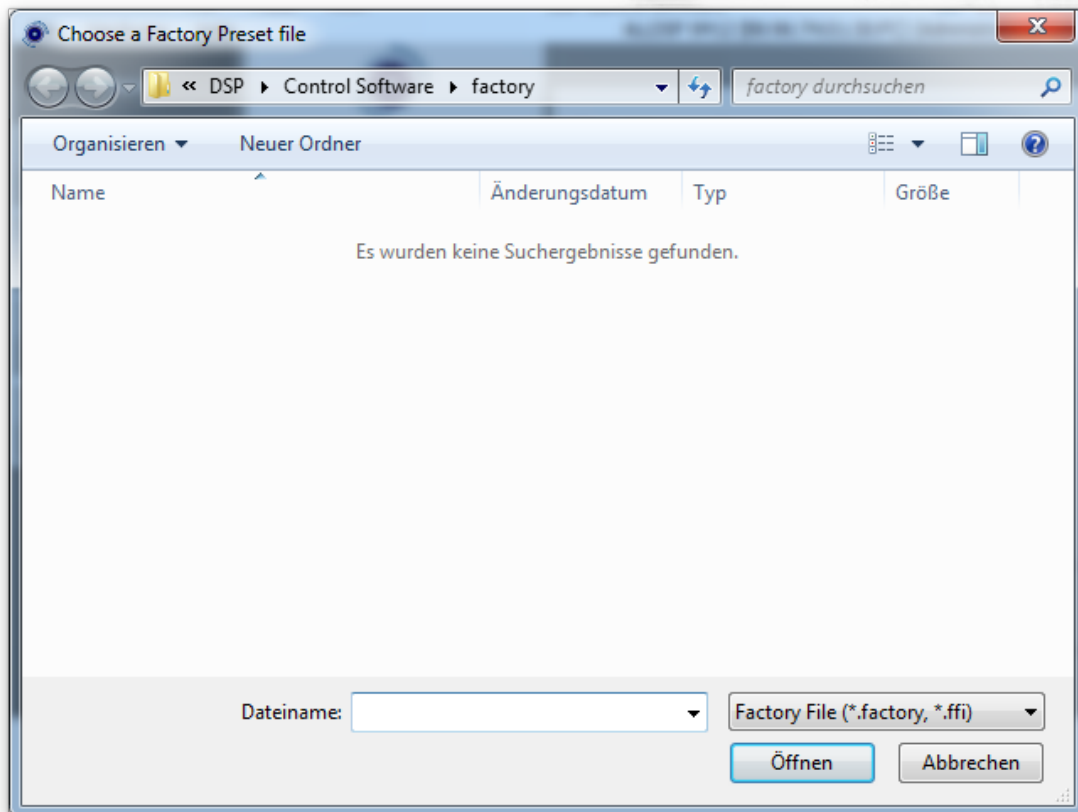
3.1 load a flash image

go to file → load factory file

Open

Save

Create Flash Image

Load Factory File

Restore Presets

Backup Presets

Quit   Ctrl+Q

3.2 confirm warning message

Load Factory File

All settings and presets of this unit will be updated. The update process can have multiple steps; please do not power off the unit or disconnect the network until it is finished. Should the process fail, try again. Please make sure to make a backup of your settings before you continue. All settings and presets in the unit will be erased! Continue?

Ok   Cancel

3.3 navigate to folder where the flash image is saved to and click open

Choose a Factory Preset file

« DSP ▸ Control Software ▸ factory   factory durchsuchen

Organisieren ▼   Neuer Ordner

Name	Änderungsdatum	Typ	Größe

Es wurden keine Suchergebnisse gefunden.

Dateiname: Factory File (*.factory, *.ffi)

Öffnen   Abbrechen

3.4 the flash file will be uploaded to the unit

Update Process

(2) Uploading (3%)
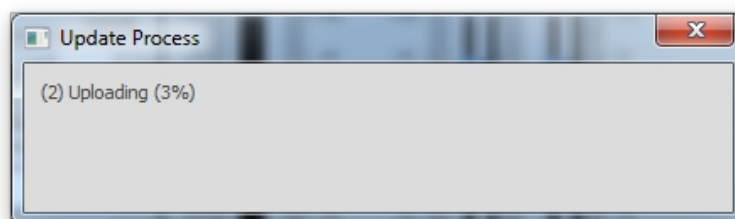
3.5 wait for the process to finish and click ok

Update Process

Finished

Ok
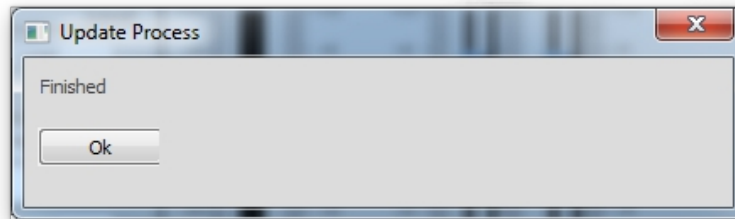
All settings are now applied to the DSP unit.

4. Use a flash image to replace the original firmware

It is possible to use a flash image to replace the original firmware in our control software. The advantage is that all the settings from the flash image will be loaded to the unit every time a firmware update is performed.

Furthermore it is possible for a manufacturer to send a flash image with pre defined settings to ALLDSP so that this flash image can be used as the default firmware in the custom OEM software release.

4.1 find the unique identifier of the unit you've created the flash image from

Open the software and go to tools → enable demo mode
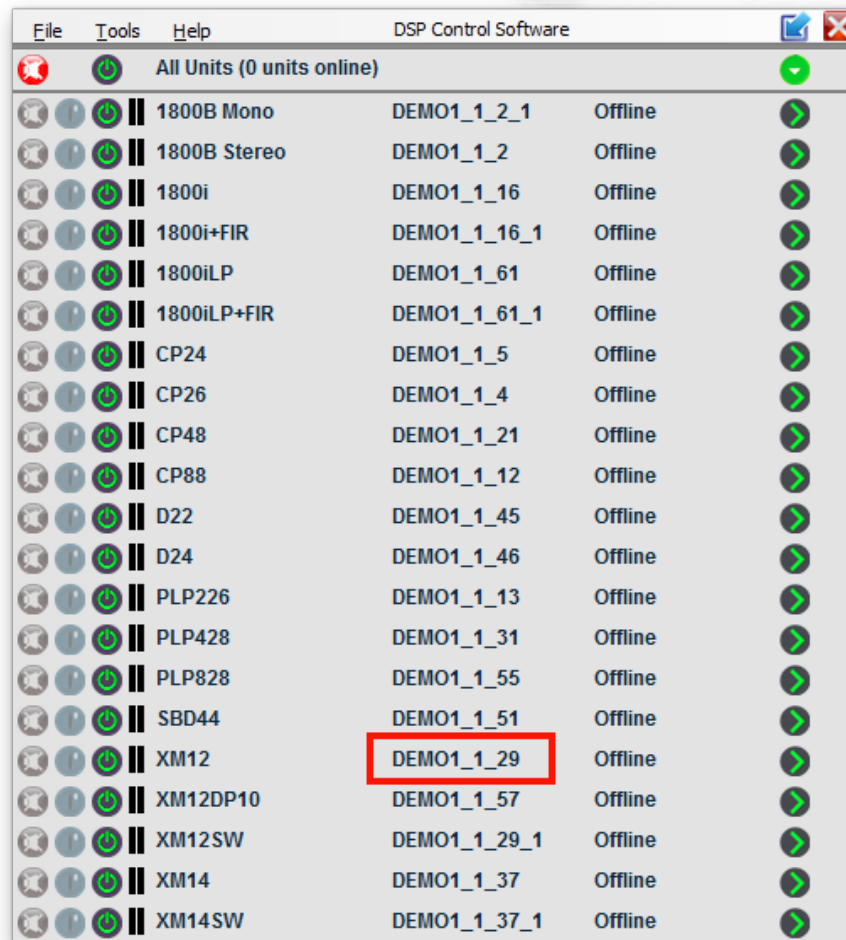
For this manual we used the XM12. The unique identifier for the XM12 is the 1_1_29.

4.2 rename the flash image to 1_1_29.dfi

4.3 navigate to the installation folder of the DSP control software

For the DSP control the folder is in C:\Program Files\DSP\Control Software

4.4 find the dfi folder and replace the original firmware file with the renamed flash   image.

Now you will upload the same settings as saved in the flash image every time you do   a firmware update. It is also possible to use the firmware update all units function to   load this settings to multiple units connected

to the network.

Please contact us if you have further questions.