

Updating Firmware

The firmware update package also includes a version history file which has a list of new features introduced by this release, and it has a list of the corresponding software versions.

To prevent incompatibility issues it might be necessary to update not only the D*AP firmware, but also the SDI interface board firmware.

In addition, an update of the Junger Application Manager (J*AM) may be required.

All these files can be downloaded from the Junger Website (www.junger-audio.com).

Updates are performed using the device's web interface. Supporting tools may require a Microsoft Windows environment.

Please note:

The web interface is optimized for the Mozilla Firefox browser (www.mozilla.org). Other browsers may work as well but some functionality might not be available. For the metering to work it is necessary to have Java installed (www.java.com).

Updating the firmware is a delicate process - please be careful.

Under NO circumstances should the power supply be unplugged or switched off during the updating process.

Migrating from firmware 1.x.x to 2.x.x

Updating firmware 1.x.x to 2.x.x brings a major change in functionality and control philosophy. It is highly recommended to give it some time and get familiar with new features and options before going on-line with the device.

Main improvements:

- Signal routing philosophy has changed giving much more options.
- Preset philosophy has changed in a way that every functional block now has its own preset rather than having presets covering the whole device.
- Event management has been added to manage loading of presets and providing lots of options for remote control and monitoring of the device.
- DSP functions have been added: Fail Over, Spectral Signature (license required), 5-Band Parametric Equalizer, Voice Over.
- Existing DSP functions have been improved by the addition of new parameters.

To make the migration process more comfortable, a conversion tool is available from the Junger Website (www.junger-audio.com). Using this tool it is possible to convert device backups created under firmware 1.1.x to backup files compatible with firmware 2.0.x.

The first step before updating a device should be to generate a backup file whilst the device is running the old firmware.

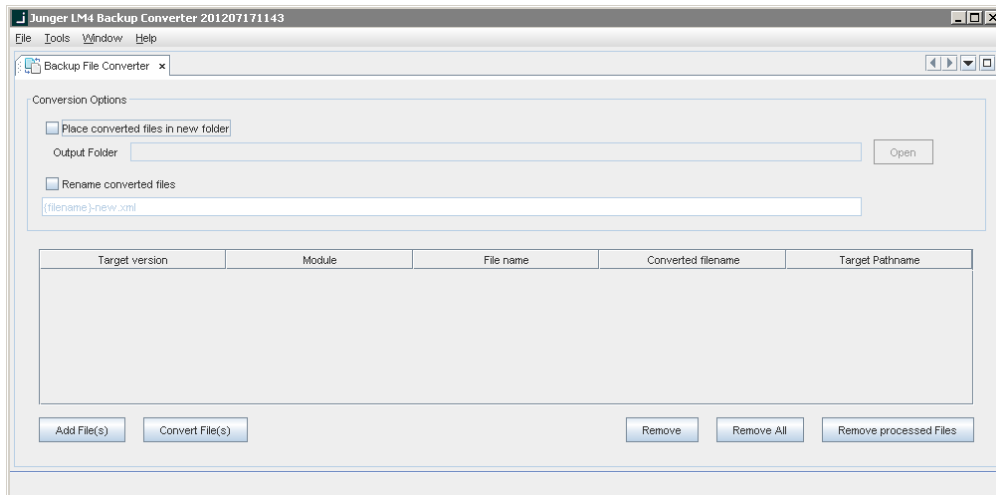
Backup dialog in firmware 1.1.x:

The screenshot shows the Jünger LM4 web interface. At the top, there are three meters: PEAKIN/OUT, GAIN (labeled 'NOT AVAILABLE'), and LIMITER. Below these are tabs for SYSTEM, INTERFACE, ROUTING, AUDIO PROCESSOR, PRESETS, and GPI / O. The SYSTEM tab is active, and the 'Backup / Restore' sub-tab is selected. The 'Backup' section has a 'backup' button circled in red. The 'Restore' section has a 'Backup File' input field, a 'Durchsuchen...' button, a checked checkbox for 'Don't Restore Frame Controller IP Configuration', and a 'restore' button. The 'Diagnostics' section has a 'get diagnostics file' button.

Backup files from firmware 1.x.x need to be converted to version 2.x.x.
 They cannot be restored under firmware 2.x.x without being previously converted.

The backup conversion tool (Jünger LM4 Backup Converter) can be downloaded from the Jünger Website (www.juenger-audio.com). It is not included in the firmware package.
 The program runs on Microsoft Windows systems (XP SP2, 7 32/64 bit).

Backup conversion dialog:

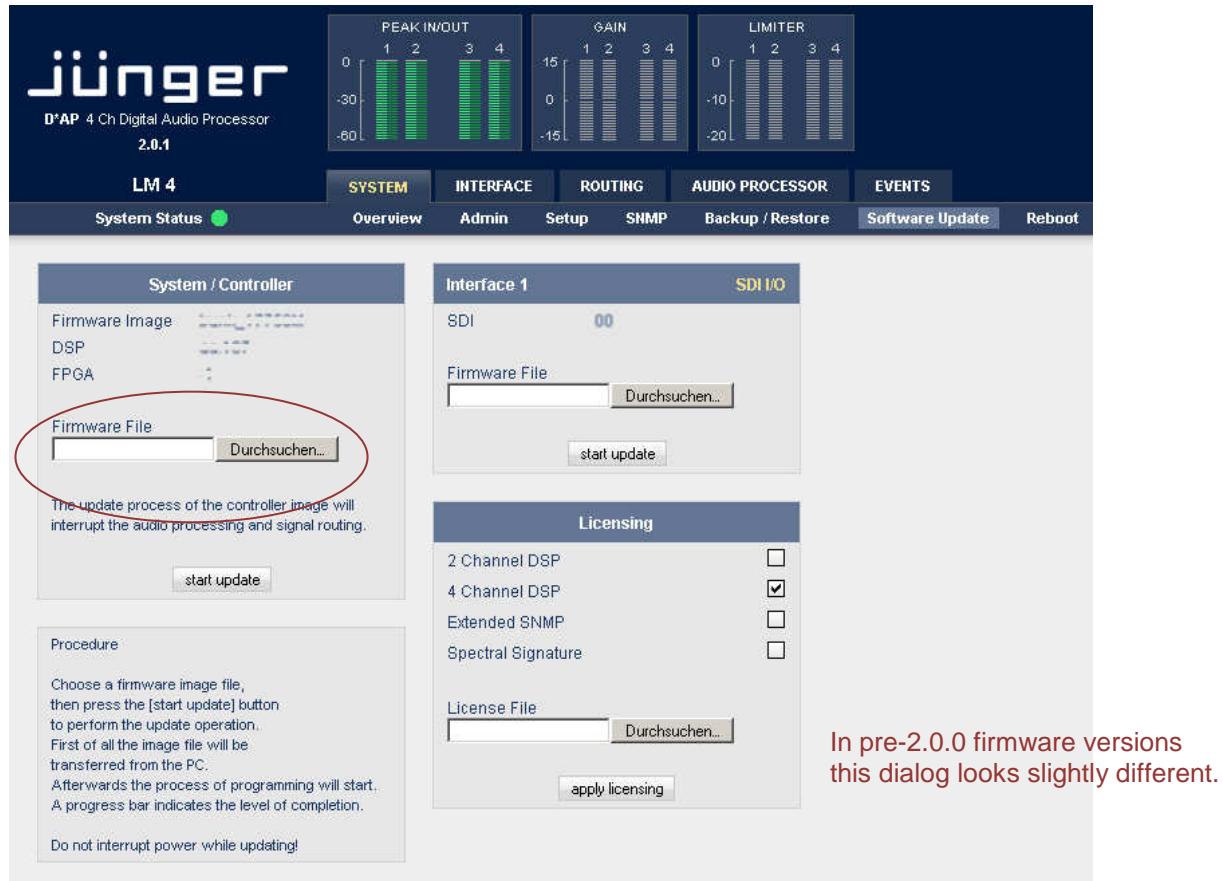


It is possible to convert multiple backup files in a batch process.

Backup files created under firmware 2.0.0 (or newer) do not need to be converted.
 They can be used on any higher numbered firmware.

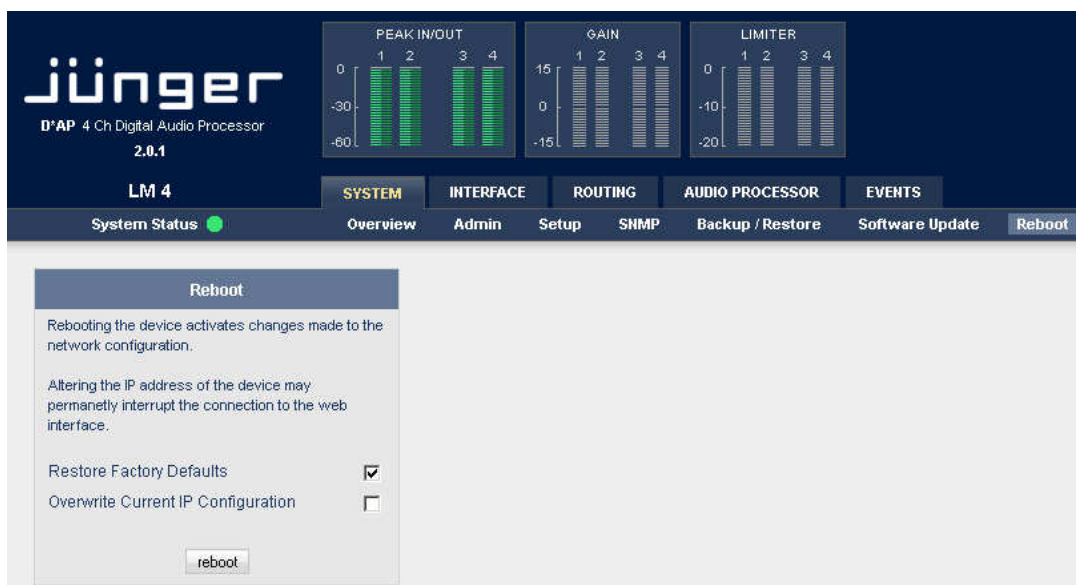
Updating the D*AP

The firmware image needs to be uploaded to the device using this dialog:



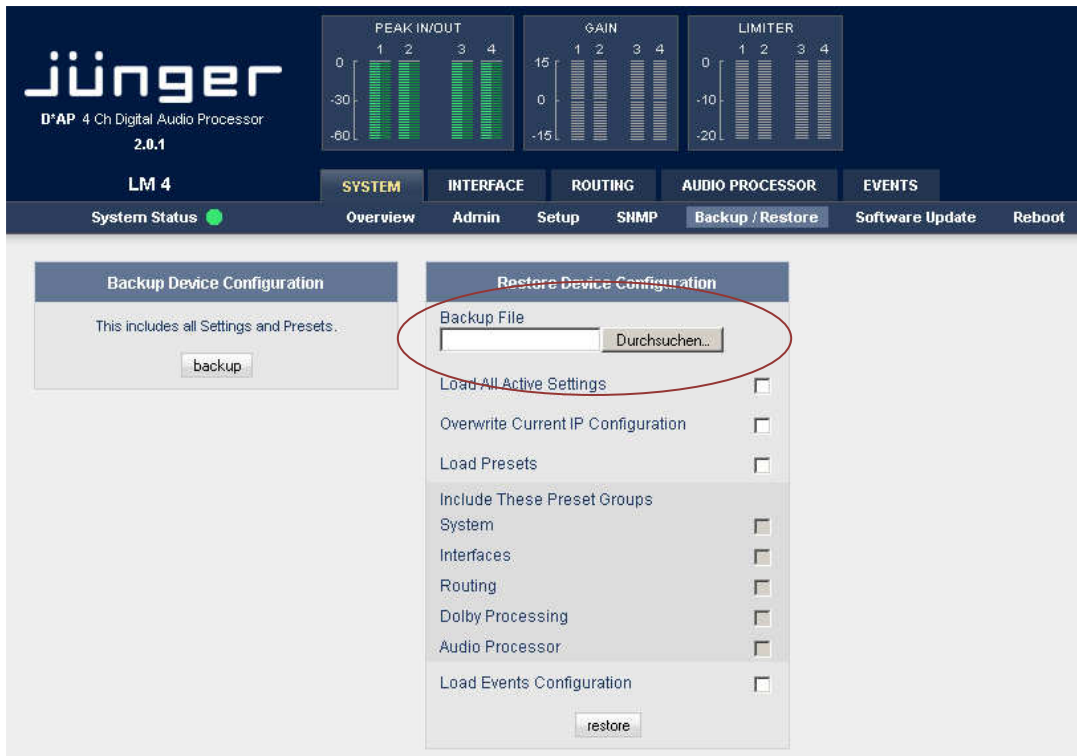
The screenshot shows the Jünger D*AP 4 Ch Digital Audio Processor 2.0.1 web interface. The 'Software Update' tab is selected. The 'System / Controller' section has a 'Firmware File' field circled in red, with a 'Durchsuchen...' button next to it. Below this field, a warning states: 'The update process of the controller image will interrupt the audio processing and signal routing.' A 'start update' button is at the bottom of this section. The 'Interface 1' section shows 'SDI I/O' and a 'Firmware File' field with a 'Durchsuchen...' button and a 'start update' button. The 'Licensing' section has checkboxes for '2 Channel DSP', '4 Channel DSP' (checked), 'Extended SNMP', and 'Spectral Signature', along with a 'License File' field and a 'Durchsuchen...' button, and an 'apply licensing' button. A red text box on the right states: 'In pre-2.0.0 firmware versions this dialog looks slightly different.'

After the update process has finished, it is recommended to re-set the device back to factory defaults. This is especially important when updating from a very old firmware version. **It is strongly recommended when updating from 1.x.x to 2.x.x.**



The screenshot shows the Jünger D*AP 4 Ch Digital Audio Processor 2.0.1 web interface with the 'Reboot' dialog open. The 'Reboot' section contains the text: 'Rebooting the device activates changes made to the network configuration.' and 'Altering the IP address of the device may permanently interrupt the connection to the web interface.' Below this, there are two checkboxes: 'Restore Factory Defaults' (checked) and 'Overwrite Current IP Configuration' (unchecked). A 'reboot' button is at the bottom of the dialog.

If available, a device backup file can now be uploaded to the D*AP:



There is an option to exclude certain components of the backup file from being restored if desired.

A backup file from an old firmware version or even a backup file generated by a conversion tool may not include all parameters. New parameters introduced by a new firmware version will have their default values. For this reason it is recommended to verify the device configuration after a backup file from a different firmware version has been loaded.

Following verification and any necessary adjustments, it is good practice to generate a new backup file from the updated firmware.

Updating the SDI interface board

Referring to the list of corresponding software versions inside the version history file it is necessary to check if the currently installed SDI firmware version is compatible with the newly installed D*AP firmware version.

If the current SDI firmware version is not listed in this file it needs to be updated.

The SDI firmware image can to be uploaded to the device using this dialog:

