

## Addendum to Universal Module Programming manual

This file covers new features and improvements in the SoundDiver Universal Module since version 2.0.

New features in Universal Module since version 2.0.2 (which is covered in file SD\_Uni20.pdf):

### \* Global

+W UM/OSX. Adaptations are now loaded/saved in folder "~/Library/Application Support/Emagic/SoundDiver Adaptations"

+I UM. In Layout mode with "Snap to grid" enabled, grid is now shown using dots, not lines.

+F UM. New optional MIDI Strings "Outgoing Bank Dump" and "Outgoing Single Dump". This allows to create Adaptations for devices which have different messages for incoming and outgoing dumps, e.g. Octave Plateau Voyetra 8.

+I UM. If the Universal Module Cache file contained duplicate entries, they are now removed automatically. The removal happens only once, so startup is still fast.

+I UM/Mac. If an Adaptation file does not have the ending ".ADA", you get a warning message.

+I UM. Renamed file "Universal Module Preferences" to "Universal Module Cache".

This will cause a longer startup once, but the Install window list will be intact again.

The file "Universal Module Preferences" is now currently not used and can be deleted.

+I UM. Changing an "internal name" (i.e. an additional name which is not part of the dump) in the editor does now no more send a dump.

+I UM. If a bank has "Use for Scan" enabled, now the entire incoming message (including the trailer)

must match. This is important for separating a Nord Lead Performance dump from a Nord Lead 2

Performance dump. - now scanning Nord Lead or Nord Lead 2 will only find the correct model.

+I UM/SC. Option "Use for Scan": the device is recognized only if the first item of the bank

(or the whole bank if only a Bank Request/Dump exists) could be received, not only the

header is incoming. This feature is necessary for separating Nord Lead from Nord Lead 2.

### \* Adaptation editor

+F AE. New checksum formats "HL Nibbles -> 7 Bit" and "HL Nibbles -> HL"  
+I AE. Manufacturer flip menu now only shows up to 50 subsequent manufacturer IDs which are currently unassigned. This makes the flip menu much shorter.

+F AE. New name format "ASCII Hex ASCII" (required for Eventide devices).

+I AE. New switch "Has Keyboard" allows to enable the Master Keyboard switch independently from the selected icon. When choosing one of the six default icons, this switch is automatically set accordingly.

+F AE. New switch "AutoPlay": you can now disable AutoPlay for the entire Adaptations (the sequencer is not started when transmitting a dump or changing a parameter even if AutoPlay is enabled in SoundDiver).

+F AE. Option to import an Adaptation icon. Choose "Import..." from the Icon flip menu, then a file select box is shown. After importing, the PNG file's data becomes part of the Adaptation file and is cross-platform compatible.

File format conditions: The file chosen must be a PNG file (Mac: file type 'PNGf', Windows: extension ".png"). The icon should have an alpha channel and should be 128 pixels wide plus an optional shadow of up to 5 pixels. The alpha channel should have reduced opacity in the shadow.

+I AE. Data type: new value "Link" (one less than 0) for Name Offset. This means the entry's name gets the name of the entry referenced by the first object with print format "Entry" in the editor. In this mode, the name size defines the number of characters displayed in the Device window.

Note: changing the link renames the entry, but there is no update when renaming the referenced entry.

+I AE. "Export Names" now inserts the text "### Text missing here ###" as a placeholder,

so that SSHC creates individual pages with this placeholder.

+F AE. New Transmission format: Alesis QS / DMPPro:

SEVEN DMPPro (or QS) BYTES:

0: A7 A6 A5 A4 A3 A2 A1 A0

1: B7 B6 B5 B4 B3 B2 B1 B0

2: C7 C6 C5 C4 C3 C2 C1 C0

3: D7 D6 D5 D4 D3 D2 D1 D0

4: E7 E6 E5 E4 E3 E2 E1 E0

5: F7 F6 F5 F4 F3 F2 F1 F0

6: G7 G6 G5 G4 G3 G2 G1 G0

TRANSMITTED AS:

0: 0 A6 A5 A4 A3 A2 A1 A0

1: 0 B5 B4 B3 B2 B1 B0 A7

2: 0 C4 C3 C2 C1 C0 B7 B6

3: 0 D3 D2 D1 D0 C7 C6 C5

4: 0 E2 E1 E0 D7 D6 D5 D4

5: 0 F1 F0 E7 E6 E5 E4 E3

6: 0 G0 F7 F6 F5 F4 F3 F2

7: 0 G7 G6 G5 G4 G3 G2 G1

Thanks to Robert Rampley.

+F AE. Roland Mode: new switch "Wait Send Pause before Request". Required if a device ignores

incoming MIDI while showing "Now sending data..." or similar in the display. Example: Roland R-70.

For non-Roland Adaptations, simply insert a PAU pseudo byte at the beginning of the request message.

+I AE/OE. Offset column is now 4 characters wide.

+I AE/OE. Offset/selection column of MIDI strings now shows correct offsets in

SysEx MIDI strings.

+I AE/OE. Editing of default names and text values is now done with one huge edit field -> removing and inserting lines, copy/paste much easier.

+I AE. Changing data type name size now automatically fixes garbled default name data

+F AE. Default switch for "Preserve Thru Port/Ch".

Enabled this switch in all Adaptations for effects and mixing devices, MIDI and audio patchbays

Added this setting enabled as default in all Patchbay Modules as well as in DP/4 Module.

+W AE. Export Names: now creates a text file which opens SimpleText when double-clicked.

\* Object editor

+I OE/Mac. Text/Box object text can now be edited multi-line.

+I OE. parameter for vertical slider display option improved