Origin Firmware Update 1.4.1

Pre-Release Notes

December 19, 2012

Welcome to the pre-release of Origin's Firmware 1.4.1. Version 1.4.1 is a bug-fix only release which does not introduce any new features.

You will find the following information in this document:

- Installation procedure
- Bugs fixed in version 1.4.1
- New features in version 1.4
- New features in version 1.3
- New features in version 1.2
- New features in version 1.1

*Please note: **This update does not install additional presets and demos from Arturia. New presets are available as 2 separate banks contained in the downloaded update archive.***

After the update, your Origin should contain your presets untouched. You can instruct the updater to first backup all your presets before starting the update.

Installation:

- The archive contains 2 installers, one for Windows PC, and a 2nd one for Mac computers. When you have decompressed the archive you'll get a folder named OriginUpdate_Version_1.4.1 containing the following files (screenshot from a Mac computer):

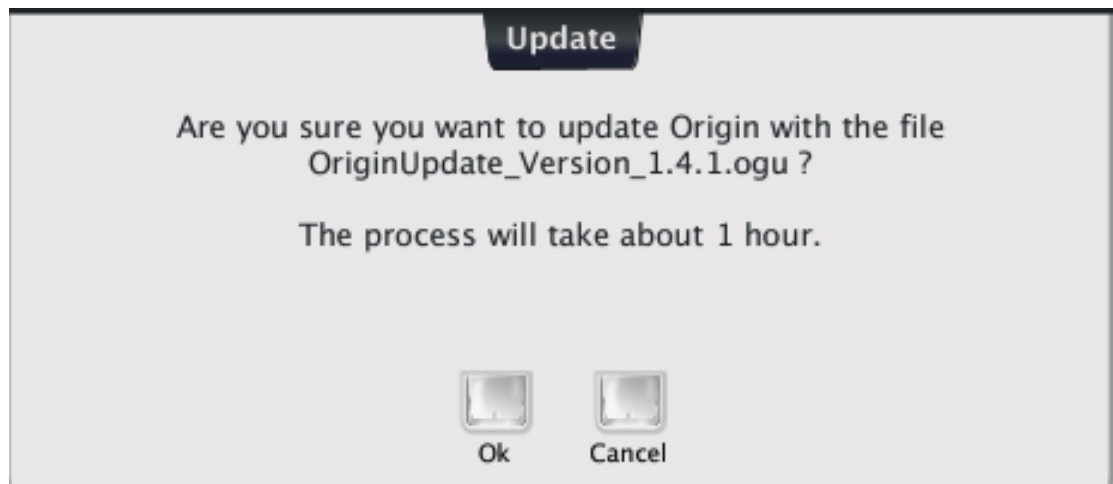| Name	Date Modified
GDarcey_SEM_1.4.ogs	22 Jun 2012 11:43
Kevin_Lamb_1.4.ogs	22 Jun 2012 13:27
▼ Origin Connection 1.4.1 Mac	26 Nov 2012 17:51
Origin Connection.app	26 Nov 2012 17:00
▼ Origin Connection 1.4.1 Windows	Today 17:04
Origin Connection.exe	26 Nov 2012 17:41
pthreadVSE2.dll	24 Oct 2012 12:32
OriginFirmwareUpdate_1.4.1.pdf	14 Jun 2012 15:32
OriginUpdate_Version_1.4.1.ogu	26 Nov 2012 16:41

This pre-release does not contain installer for Mac and Windows "Origin Connection". Instead you'll find inside the decompressed folder the applications themselves (.app and .exe).

- Launch "Origin Connection" by double-clicking on the binary for your system: "Origin Connection.app" for Mac OS X or "Origin Connection.exe" for Windows. Wait for the "sync" between Origin Connection and your Origin to complete, and then choose menu "Action > Firmware Update".

IMPORTANT NOTE: You should avoid sending any MIDI messages to Origin while the update process is running. Shutdown your MIDI software and disconnect Origin from any MIDI source (except the USB port).

- Select the Origin Firmware update file "OriginUpdate_Version_1.4.1.ogu" that you should find inside the decompressed folder.

- Origin Connection will display 2 successive dialog boxes, answer OK to each one of these 2 dialogs (or "Cancel" if you want to leave).

Update

Are you sure you want to update Origin with the file OriginUpdate_Version_1.4.1.ogu ?

The process will take about 1 hour.

Ok   Cancel

Warning

Your presets will be removed from Origin but will still be available in a backup file.

Do you want to continue?

Ok   Cancel

- From now on follow carefully the instructions.

There's a new menu entry under the "File" category which shows the text "Open Log Folder". As it says, it opens the folder where the Origin Connection application writes

the logs of what's happening during the update. This is a much valuable source of information should some problems arise during the udate. In case of an update failure, you simply have to open this folder, to compress its whole content and send the archive to Philippe using the file transfer utility of the Arturia forum.

*Important notice: Installing Firmware Update 1.4 is a long process. It can take up to 50 minute depending on the update options you have selected. The progress bar will stick at 100% at the end of the DSP update step for about 1 minute. This is normal. It will stall again at about 97% for a few minutes at the end of the UI installation step. Again this is the expected behaviour. **Do not kill the process** (unless it last noticeably longer than the 45 minutes…). If there were any problem during update process, Origin could be in an unstable state. However, it should always be possible to launch the update process again.*

It may happen that Origin Connection does not detect an Origin device connected on a USB port when this device is powered up after the launch of Origin Connection. To avoid that, first start your Origin and wait for the OS to start, then double-click on "Origin Connection". When you are requested to reboot Origin, wait for a full restart before clicking OK.

After the update process has completed you'll have to restore your own presets. They have been backed up at the first stage of the update in a file which name is similar to the following: *Origin_1.3.50_Backup_03_Dec_12_09_55.ogb*.

The beginning of the file name contains the firmware version when the backup has been processed. For most of you it will be either *Origin_1.3.50* or *Origin_1.4.0*. The end of the file name is the date and time when the backup has been processed. To perform the backup reload, launch Origin Connection and go to menu "Action", then select the entry "Reload existing Backup". OC will display a dialog box allowing you to navigate thru the list of available backups on your machine.

The dialog proposes the option "Include Extra Factory Presets…". You should leave this option unchecked unless you have made modifications to these extra factory presets that you want to get back. All 1.4.0 users must be aware that if this option is checked, then extra factory presets will be restored with the wrong designer name (see next section: bug #3).

Answer OK when you're ready.

Bugs Fixed in version 1.4.1

1- Fix a crash at start-up of Origin Connection that occurs when the number of Audio-Midi devices is too high.
2- Fix the "low level volume" bug that occurs when Origin starts up (on a machine with the global setting "Knob Mode" set to "HOOK".
3- Fix the overwriting of the sound-designer name when a preset is loaded.
4- Fix the bug that prevented to open a JoyMixer parameter view when used in a new preset.
5- Fix a bug in the IO driver (LINUX) that was causing frequent errors when trying to load sound banks, or reloading a preset backup into Origin.
6- Fix a second driver bug that was affecting messages sent by Origin to the a Host on a computer and which could cause transmission errors
7- Fix various bugs in Origin Connection that could freeze or time-out a backup or sound bank reload.

It is still not possible to change from a Filter to a SEMFilter (and vice-versa). This may be fixed in the next release.

New Features in version 1.4

- **MULTI_FX mode:**

  This new MULTI_FX effect routing is available in a Multi preset only. In SINGLE mode this switch cannot be accessed and everything behaves exactly as it did in the 1.3.50 firmware. In MULTI mode it can be activated by navigating to the page "Multi -> FX" and there by toggling the control named "MULTFX" under the 2nd right most upper switch.

  When MULTFX is **deselected** (we'll call this mode the SLOT_FX mode): everything behaves like it did in the 1.3.50 firmware included that **all** effects' settings are saved in the **slot** preset.

  When MULTFX is selected each slot owns now at most 2 effects which are connected in serial. The "multi" level owns 4 effects – AUX1, AUX2, MST1 MST2 - connected according to the routing shown in the screenshots below. **All** the effects' settings are saved in the **multi** preset

NOTE: The effects' settings are not shared between the 2 modes, so you can retrieve the original 1.3.50 settings simply by deselecting the MULTI_FX mode.
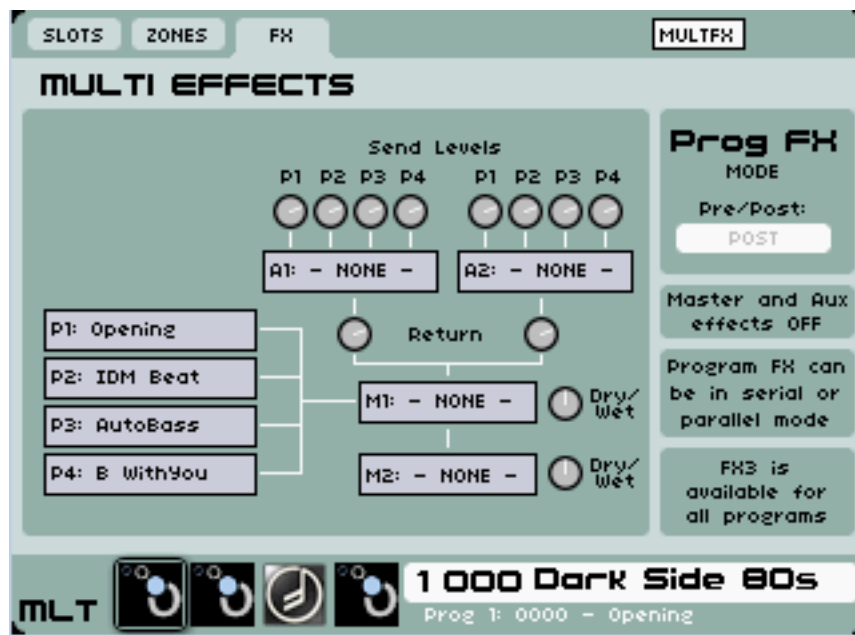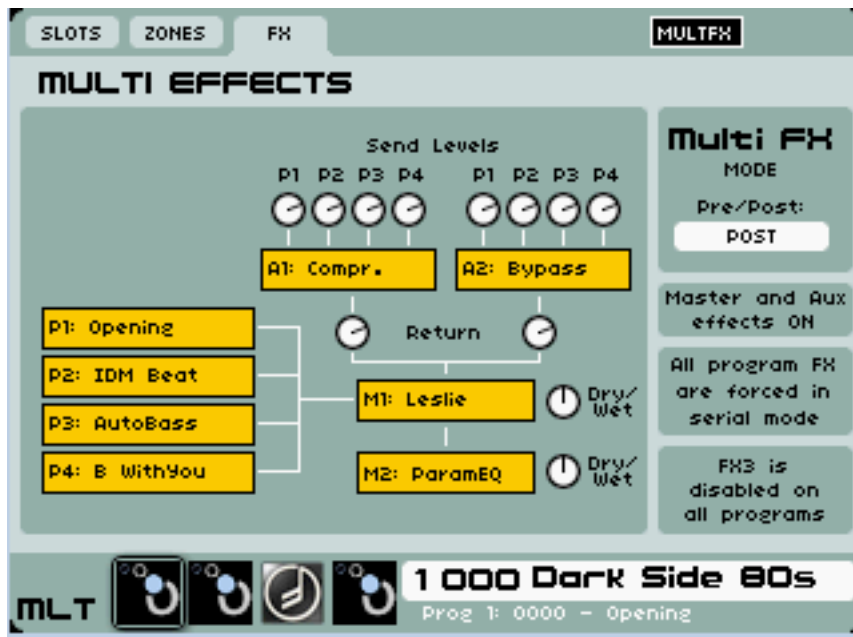
AUX and MST multi effects can be chosen by navigating to the page "FX", and then by choosing AUX1, AUX2, MST1 or MST2. These choices are disabled (greyed) if MULTFX is deselected.

When MULTFX is selected, you can directly go to the edit page of these multi effects by clicking the needed number of time on the FX3 "Edit" switch on the right side of the front panel. When the editor is opened, you can switch the effect ON/OFF by clicking on the FX3 "ON/OFF" switch.

Following 3 screenshots show the appearance of the FX page while the MULTI_FX mode is enabled.
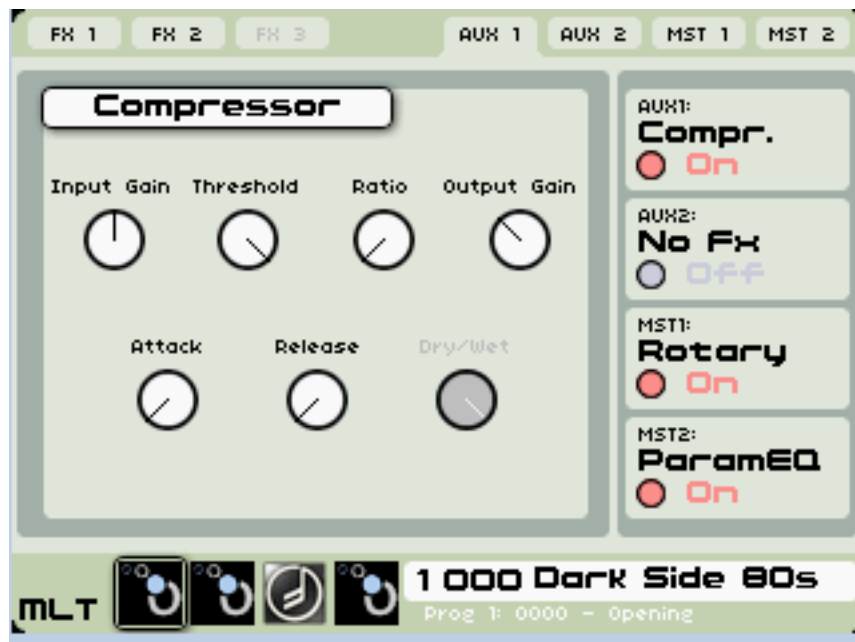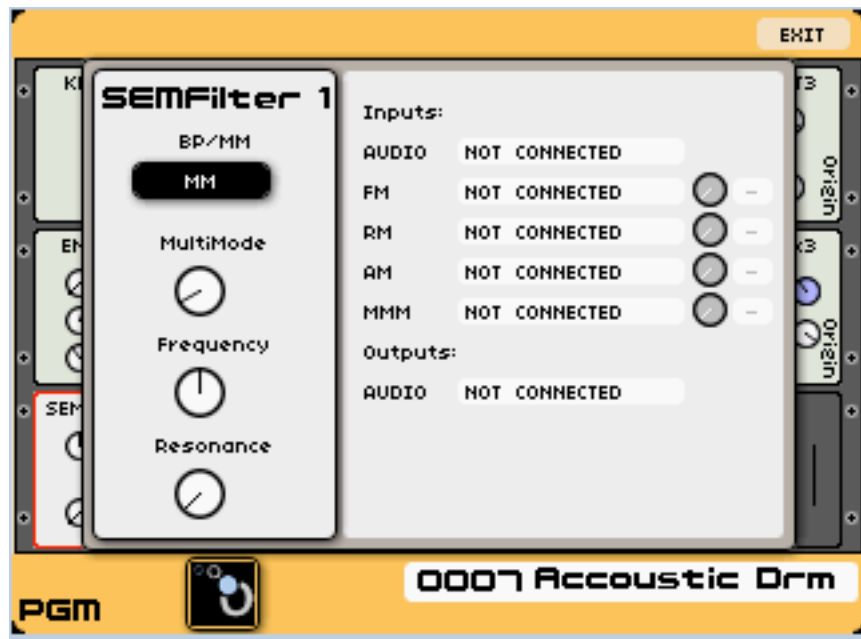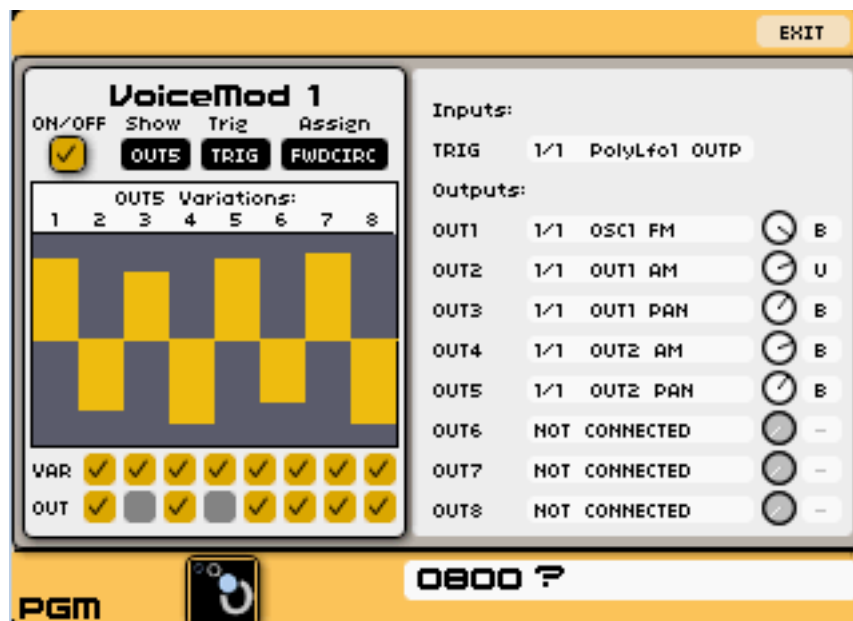
The following screenshot shows the appearance of the FX page while the MULTI_FX mode is disabled.
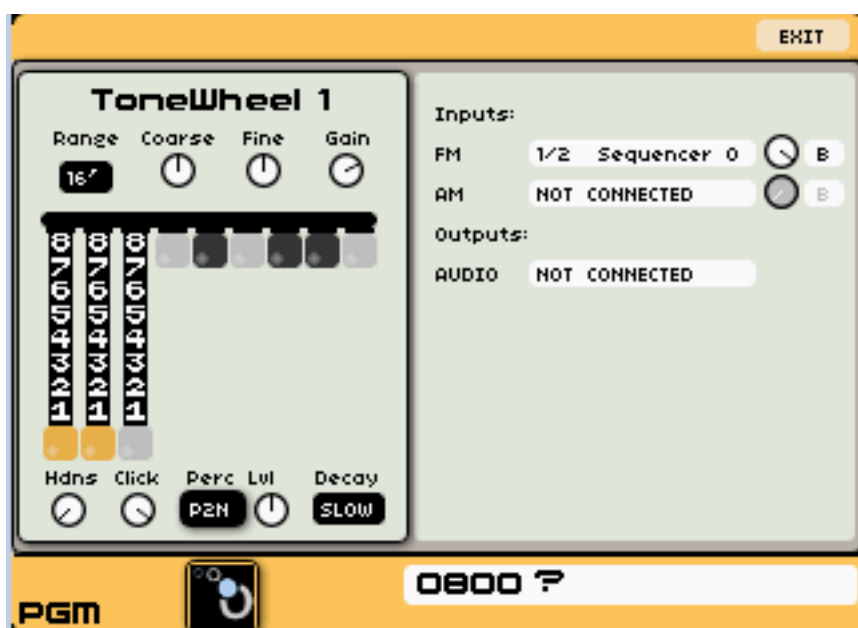
- **New SEMFilter module:**

- **New VoiceModulator module:**

- **New ToneWheel percussion parameters:**

There's now 2 additional values for the ToneWheel percussion mode.

The full list of possible values for the percussion is the following:

- OFF: no percussion

- M2ND: Mono 2ND percussion, the percussion envelope on the 2ND harmonic (ie the 4th bar on a ToneWheel oscillator) is triggered when the Program gate becomes active (like in a real B3 Hammond organ).

- M3RD: Mono 3RD percussion, same as M2ND but it affects the 3RD harmonic (5th drawbar) instead of the 2ND one.

- P2ND: Poly 2ND percussion, the percussion envelope on the 2ND harmonic is triggered within each new voice.

- P3RD: Poly 3RD percussion, same as P2ND but it affects the 3RD harmonic instead of the 2ND one

- **New SEMFilter included in the FILTER MACRO:**
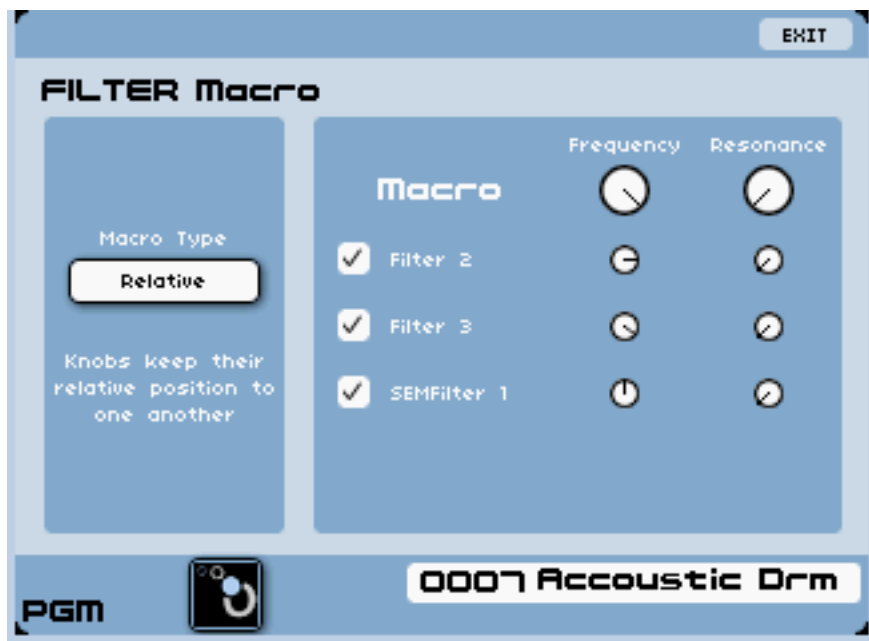
- **New "Multi Level" parameters:**

    This new "Multi Level" parameter allows the setting of the multi output level without tweaking other parameters such as the slice multi levels or the program output level.
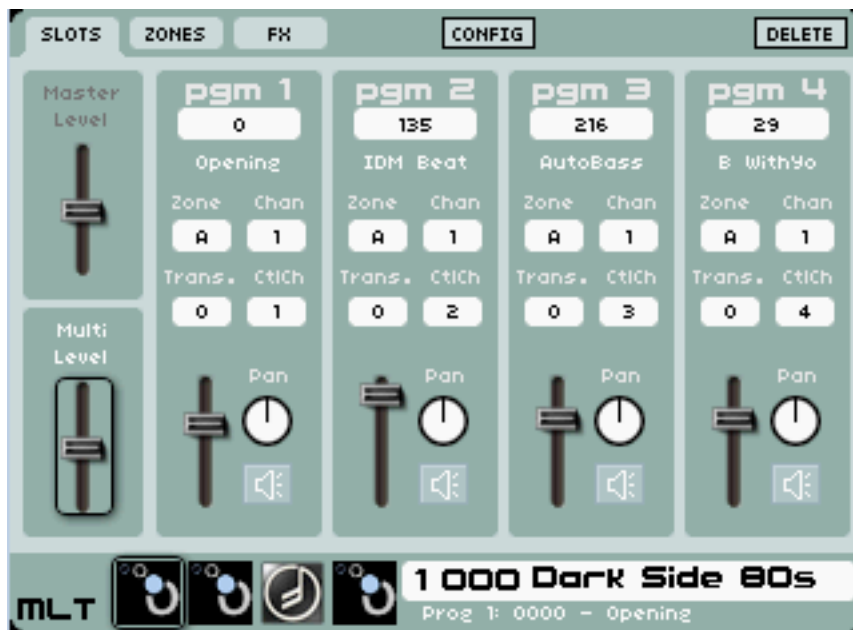
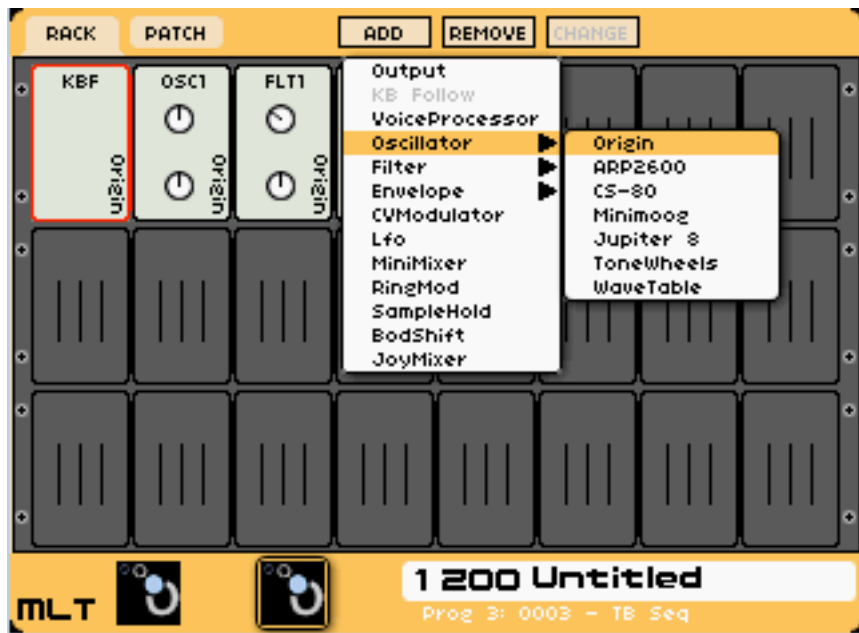- **Any modulation signal can now be connected to a TRIG input**

  The screenshot below shows – as an example - how to connect a modulation output (here the – the connection of the MONO LFO1 output to the new VoiceModulator TRIG input.
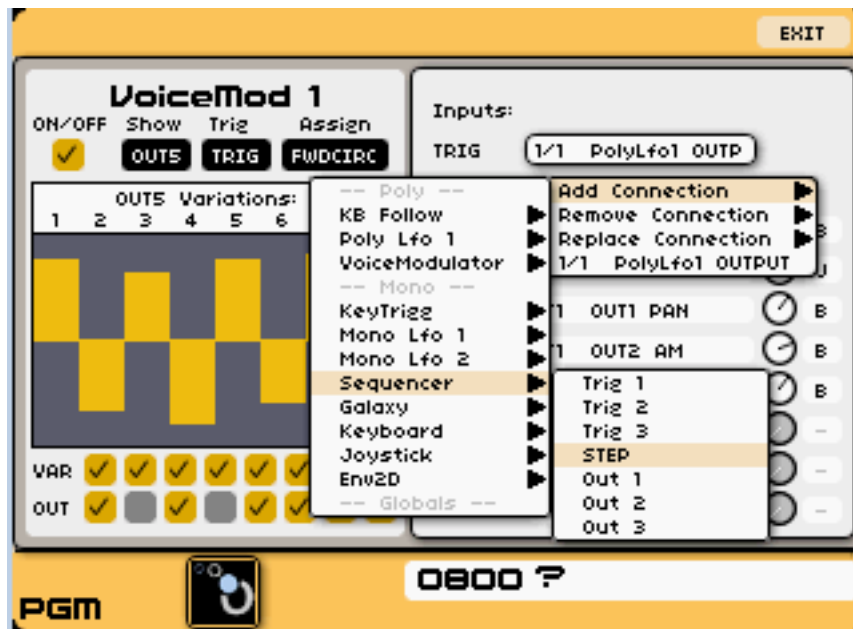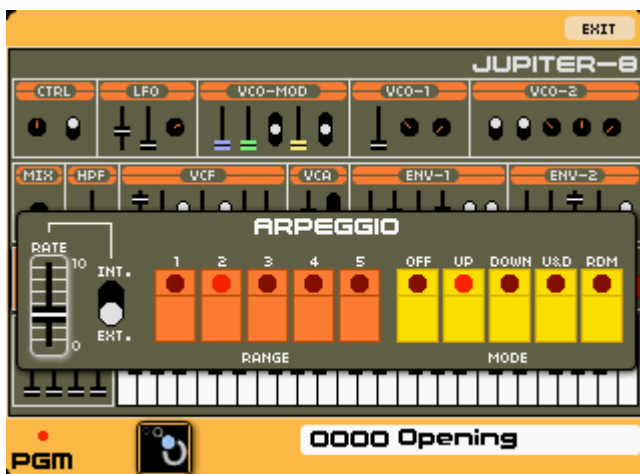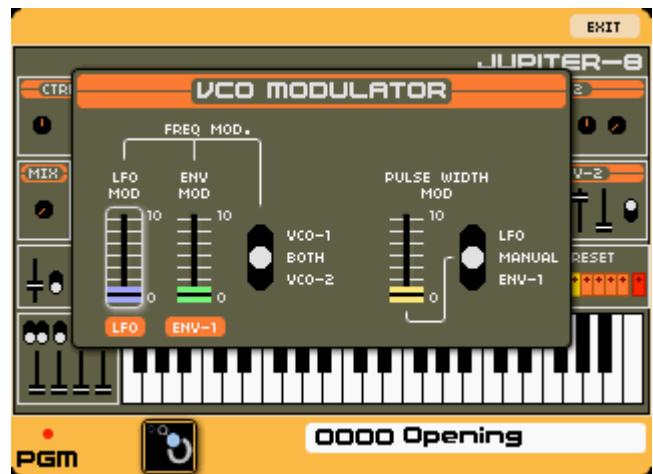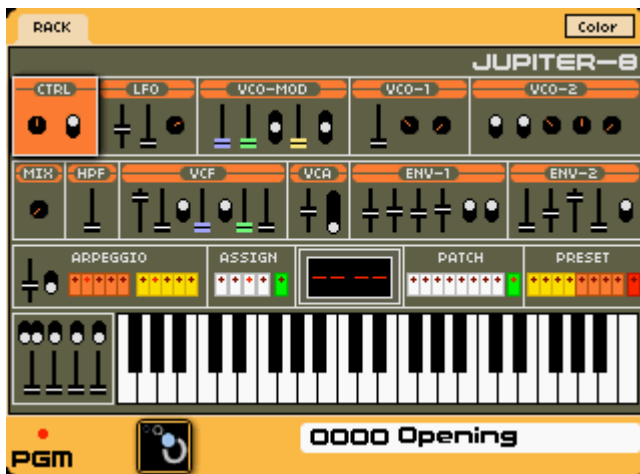

- **Add popup menu for filters:**

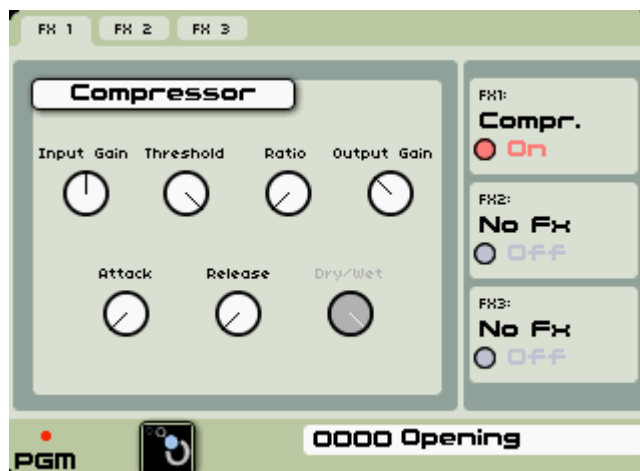- **Add popup menu for oscillators:**
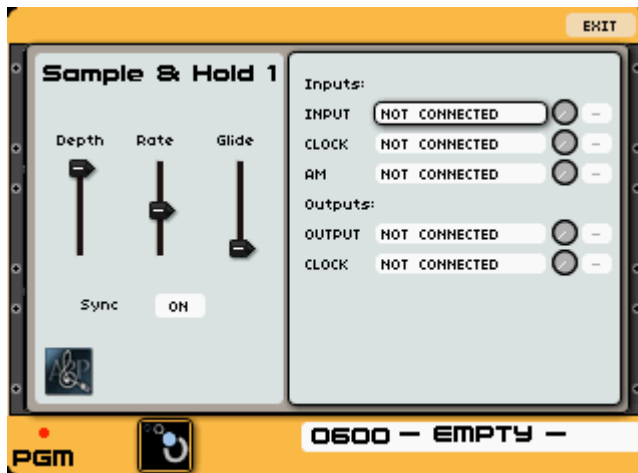
New Features in version 1.3

- **Jupiter 8 template:**

- **2 new modules:**
    - Compressor: FX module.

o Compressor: PATCH module. Derived from the ARP S&H. Takes any modulation (LFO, Env…) signal at its inputs and provides a sampled and hold modulation signal at its outputs.

- **New play modes:**

  o POLY_UNISON: emulates the Jupiter8 "UNISON" mode, that is shares up to 8 voices between the currently active notes. Currently not available for MULTI presets.

  o A new UNISON parameter for MONO programs: allows the user to set the number of voices that will play simultaneously for the MONO program. UNISON "polyphony" can be set to a value between 2 and 8 in SINGLE mode, and is limited to 2 in MULTI mode.

- **Sequencer switches automation:**

  o Actions on the Sequencer "LOOP" and "PATTERNS" switches can be recorded as MIDI CONTROL CHANGES messages and replayed.

- **Portamento glide time:**

  o Adding of a second way to manage the portamento glide time: the user can now choose between a constant time for the whole glide, or a constant time per semi-tone.

- **Switch pedal:**

  o Now possible to configure the switch pedal action in the "Perf" page.

- **User Interface enhancements:**

  o In a number of dialogs you can now navigate between the controls and change their value without pre-selecting them.

  o Possibility to select the slot preset to load using the keypad + the edit switch. Previously it was necessary to use the browser to load a slot preset.


- A new layout of the dialog makes easier the configuration of the "live" macros.

- The user can now define a set of favourite presets and navigate thru them with the Preset Browser or with the +/- keys.

- A clear feedback – using speaker icons - of the mute state of a Voice output on the FxMixer page, of the slot output on the Multi page and on the program icon in the preset bar.

- Possibility to set 2 or more MULTI slots in the hold state in a single action by keeping their "Edit" switches pressed when "Hold" is set ON (or OFF).

New Features in version 1.2

- **The version is supporting the upcoming Origin Keyboard, providing some exclusive features:**

  - "Duophonic" aftertouch. This is a software emulation of polyphonic aftertouch, that makes the aftertouch affect only one note instead of all notes. The affected note can be the highest played, the lowest played, or the last played

  - Multi-mode ribbon controller handling. The ribbon controller can be used as a pitch bender, as a modulation source, or as a trigger source (like a keyboard).


  - Precise velocity / aftertouch curves edition.
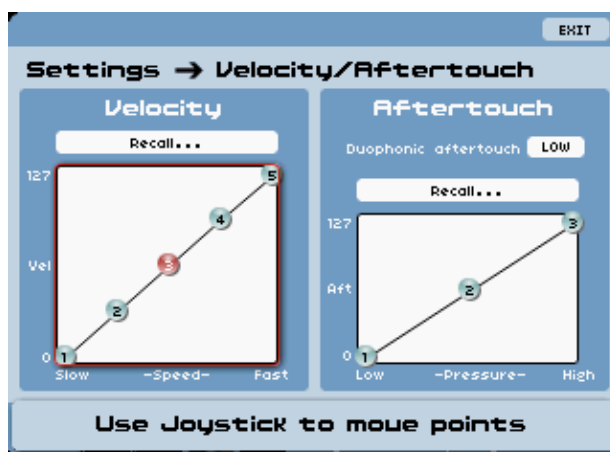
- **More complete configuration of multi mode is possible. Interaction with a MIDI sequencer or DAW is made easier.** The concept of Keyboard Zone has been added. A zone consists of a note range, some MIDI filters, and a MIDI channel. There are 4 zones, and each Origin program in a Multi can be associated with a given zone. A new *zones* page in the *multi* tab shows the zone ranges and allows zone edition. A "Config" menu allows to

quickly recall some frequently used settings for the zones: that way, it is very easy to make a "split", a "layer", etc.
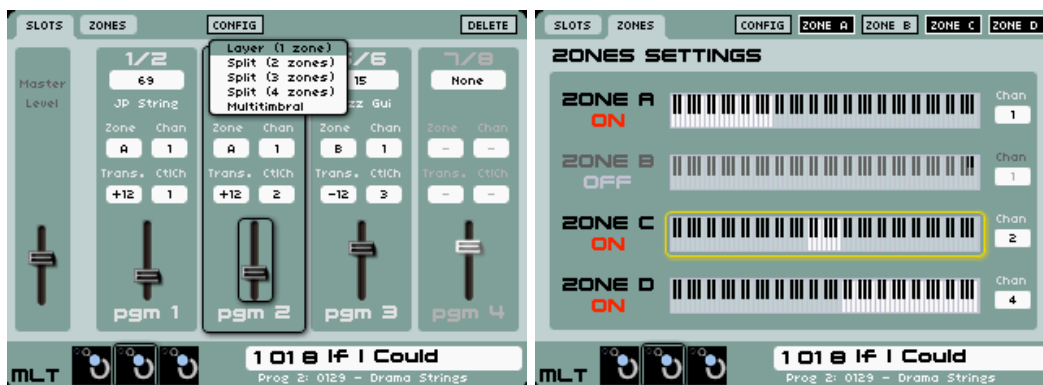
Because of that, the MIDI implementation has been modified. Now MIDI CCs are sent and received on a MIDI channel that is specific to an Origin program. On the other hand, notes, pitch bend messages, etc. are sent regarding the zone channels.

- **Changing programs inside a multi will not interrupt the sound anymore.** You can now automate Program Changes to one of the multi slots while other programs are still playing.

- **Improved settings page.** Origin's settings have been organized in a page with icons that lead to sub-pages, making navigation more coherent.

- **Added a Performance page.** This page is very useful to know what is connected to aftertouch, modulation wheel, pitch-bend wheel, and expression pedal. On Origin Keyboard, this page is also used to edit the ribbon controller settings.

- **All keyboard ranges can now be edited by playing a key on the keyboard.** This, combined with the new visual feedback, makes configuration of a keyboard split much easier.

New Features in version 1.1

- **Dramatic MIDI timings improvements:** Origin's response to a MIDI event such as a NOTE ON is now much faster and less jittery than it was in 1.0.7 firmware. Latency is less than 4 ms with a jitter less than 1 ms.

- **MIDI Improvements:** Origin can be automated via MIDI Control Change Messages. It is now possible to choose a MIDI mapping for a program and to create up to 48 user MIDI mappings.

- **Encoders assignment improvements:** Assignable encoders can now control connection amount (eg amount of an envelope on the filter FM). All knobs of the Minimoog template can now be controlled by assignable encoders

- **Sequencer Improvements:** New Groove page with bank and pattern visualization and loop mode with hardware shortcuts for live performance. Better GUI for Sequence visualization.


- **ToneWheel Oscillator:** Combined with the Leslie Effect, it is possible to obtain stunning vintage organ sounds. This module can be also used in conjunction with other Origin modules and effects to create completely new sounds.
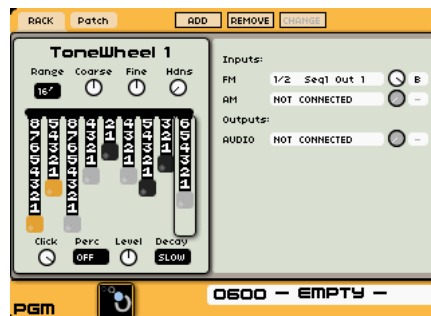

- **A Rotary Speaker Effect:** can be used on tonewheel signals to get Origin sound like a Hammond organ. Can be also used on a guitar signal input or on any other source to create amazing effects.

- **Keyboard Module improvements**:
  - Friendlier GUI with a curve to describe the effect.

o A new keyboard-follow mode has been added (mode II). It is a useful new source of modulation that can be used to emulate the CS80 keyboard follow modes.
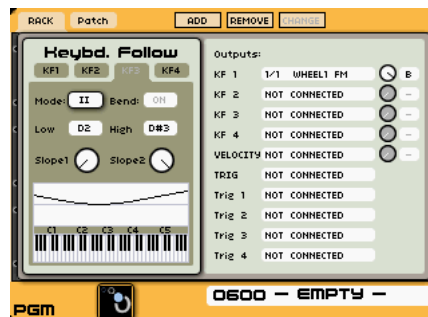
o 4 additional TRIG outputs (1 for each KF output). Can be used to trigger an envelope when the played note is within the KF low-high range, or to open a VCA within the low-high range and mute it outside. This allows to create MIDI driven 4 instruments drum kit.

- **A CS80 envelope:** This envelope is similar to the one used to drive the CS80 filters. This envelope will be used in the upcoming CS80 template.
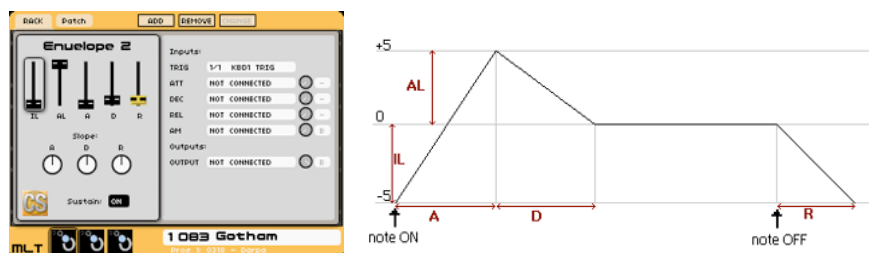

- **New envelope SUSTAIN option:** the sustain stage can be switched OFF allowing to shape percussive sounds.

- **Separate ADR envelope slope settings:** each A, D and R envelope segment can be shaped as anything between a linear to exponential curve.

- **Glissando feature available:** Portamento parameter can be set to: "Off", "Portamento" or "Glissando".

- **Parameter Values Displayed** in a pop-up window when values are changed manually.

- **Several panel and Controls navigation improvements**

- **New Effects:** Bit Crusher, Tube Distortion, Equalizer, Ring Mod
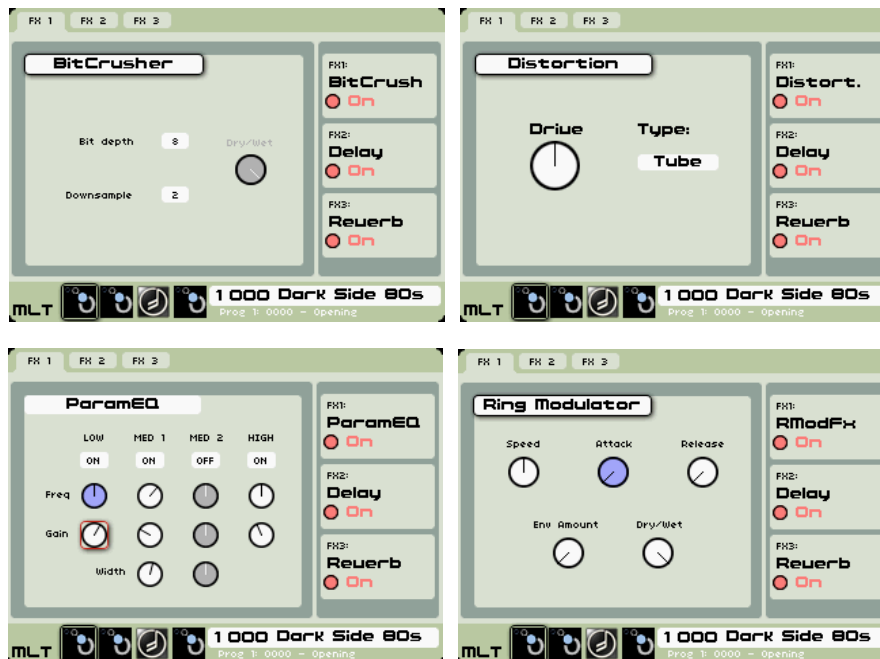
- **Improved GUI of Minimoog template:**