

STEVEN SLATE TRIGGER 2.0

The interface is divided into several functional areas:

- Left Panel:** Includes buttons for "Browser", "Triggering", "Settings", "View Mixer", "View Curves", "FLIP ALL PHASES", "SAVE PRESET", "MIDI CAPTURE", "DRAG ON TRACK", and "CLEAR BUFFER".
- Top Left Controls:** "GATE" (Off), "ATTACK" (0.5 ms), "HOLD" (4 ms), "RELEASE" (450 ms), "INPUT" level meter (-48 to 0), and "VOLUME" (0.00 dB).
- Top Middle Controls:** "LOWCUT" (0 hz), "HIGHCUT" (20000 hz), and "SUPPRESS" (0%).
- Center:** A waveform display showing a blue signal with red vertical markers.
- Top Right Controls:** "SENSITIVITY" (50), "RETRIGGER" (30 ms), "DETAIL" (30), and "OUTPUT" level meter (-48 to 0).
- Bottom Section:** Eight identical channel strips, each with "PAN" (0), "TUNE" (0), and phase buttons (S, M, Ø). Each strip also has a "0.00 dB" gain control.

STEVEN SLATE TRIGGER 2

Version: 1.0.2

Plug-in Formats: -

Mac OS X - AAX2 64-bit, AAX 32-bit, RTAS, AU 64/32-bit, VST 64/32-bit

Windows - AAX2 64-bit, AAX 32-bit, RTAS, VST 64/32-bit

Sergey Danilov : Algorithms, Programming, Plug-in Design

Alex Semichev : GUI, Instruments Programming, Plug-in Design

Steven Slate : Project Management

Ashley Smith : Beta Management and Manual

System Requirements

Mac

This plug-in requires an Intel-based Mac running OSX 10.6 (Snow Leopard) or later. It is recommended to use multicore CPU with a clock speed in excess of 1.7 GHz, 2 GB RAM or above, and a display resolution of 1024 x 768 or above.

Windows

This plug-in may be operated on Windows 7 or above as a 32 and 64 bit plug-in. It is recommended to use multicore CPU with a clock speed in excess of 1.7 GHz, 2 GB RAM or above, and display resolution of 1024 x 768 or above.

iLok

This plug-in works with first-generation iLok's and with second-generation iLok's (iLok2). iLok is a product of Pace and may be purchased directly from <https://www.ilok.com> or from any music retailer.

SUPPORTED PLUG-IN FORMATS

Mac

- Audio Units 32/64-bit
- VST 32/64-bit
- RTAS 32-bit
- AAX 32/64-bit

Windows


- VST 32/64-bit
- RTAS 32-bit
- AAX 32/64-bit

Installation

For new TRIGGER 2 users:

Please download and install the new iLok License Manager from <https://www.ilok.com/ilm.html>. This will allow you to register your plug-in onto your iLok Dongle.

In order to download your iLok license to your iLok Dongle, please go through the following steps: -

1. Launch the iLok License Manager and sign in to your account.
2. Click the  button in the upper right corner of the window labeled "Redeem An Activation Code."
3. Enter your Activation Code and click "Next."
4. Select your iLok Dongle from the "Activation Location" dialog and click "Activate."
5. You'll receive a confirmation when the license is moved to your iLok Dongle.
6. Please now move to the **Installation Steps** on page 6...

For users updating from TRIGGER 1:

Important Note

TRIGGER 2 is not a substitution of the previous "TRIGGER 1". TRIGGER 2 is a completely new, separate plug-in, with a new name, etc... So, you can use both TRIGGER 1 and/or TRIGGER 2 alongside one another. This means, your projects with TRIGGER 1 will still work, as long as you **do not change its library location**.

A new iLok license is **not** required for TRIGGER 2, but you will need to update to [iLok License Manager](#) to install the latest required PACE drivers. TRIGGER 2 and the repacked library data is authorized via your original iLok license for either TRIGGER EX or Platinum.

TRIGGER 1 library data has had to be repacked due to new protection implementations.

The original "stock data" (i.e. data in Deluxe, Kicks, Snares, and Toms folders) from TRIGGER 1 **will not work in TRIGGER 2**. Should you try to load TRIGGER 1 data into a slot you will see an error loading message.

If you choose, you may create a separate folder just for TRIGGER 2 use, and use that for the base directory path. If you have "Expansion Packs", simply copy the data folders over to this new folder, and the respective .tlc licenses also, for authorization.

For all users:

Important Note

All user created **.prs** Presets, user created **.tci**'s, and all our **"Expansion Packs"** (i.e. to date... Deluxe, CLA, Terry Date) will continue to work in both TRIGGER 1 and TRIGGER 2.

Installation Steps

1. Download and extract (with 7Zip for Windows, the default Archive Utility for Mac OSX) the repacked TRIGGER 2 Library Content: -

Trigger 2 Deluxe | Trigger 2 Kicks | Trigger 2 Snares | Trigger 2 Toms | Trigger 2 Presets

2. Place these folders into your Trigger Instruments folder.

* New users, please create a new folder where you choose to store sample data, and place these extracted folders inside.

3. Download, extract and run the TRIGGER 2 installer.

* Note, for Windows users, you will need to set the VST plug-in directory path for installation. Once set, this will be remembered for future installs.

4. Open your DAW, create a new session with 1 audio track, and insert TRIGGER 2.

* You will find TRIGGER 2 under a new sub-heading, "Steven Slate".

* In Pro Tools, the plug-in will be under "Dynamics" by Category and "Steven Slate" by Manufacturer. You can change list view in Pro Tools' Preferences > Display tab.

5. Go to the "Settings" page.

6. Look at the top of the page. Next to "Plugin" you should see either EX or Platinum written.

* If you do not see either of these, please contact us for review at the [Support HelpDesk](#).

7. Click the Select Base directory button and choose your Trigger Instruments folder

8. If you have any Expansion Packs, click the Select License button and choose your .tlic license file, one at a time.

Browser

TRIGGER 2 employs a newly designed Browser for easy navigation of samples within your Trigger Instruments folder, by tree view listing.

Important Note

The Browser will show files contained in your set base directory path “only”. Unlike in TRIGGER 1 where you can navigate to other folders, to do so in TRIGGER 2, you will need to change the base directory back and forth (to/from the Trigger Instruments folder). To optimize our file system for the new plug-in, this was required.

Sample Identification



= Instrument - i.e. a .tci file

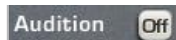


= Preset - i.e. a .prs file

Sample Loading

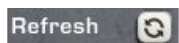
- To load an “Instrument”, you may double click (with Setting option on) or drag/drop to one of the 8 slots below.
- To load a “Preset”, double click and the slots will be populated with the Instrument samples.

Browser Audition Button



Turning Browser Audition ‘On’ will enable auditioning of samples with a “**single click**”.

Refresh Button



Selecting the Refresh button will refresh the Browser listing. Click this, if for example you add a new folder or file to your set base directory and wish to see it available for selection.

Automatic Searching

TRIGGER 2 employs a new automatic search feature to find and locate missing samples within your Trigger Instruments folder (base directory). If any noted data is missing, please ensure it is in the correct path and Trigger 2 will find it. A red italic message will be shown in the slot denoting the missing sample name.

Triggering

Operational Key Commands

Reset Parameter to Default

- Double Click, or ALT+Click (Mac and PC)

Fine Control

- Hold the CTRL key (PC) or CMD key (Mac) and adjust

Clear Slot (Single)

- Right Click for Pop-Up, CTRL+Click (PC) or CMD+Click (Mac). This can be done in the Browser area also!

Clear Slots (All)

- ALT+Click (Mac and PC)

Text Entry

- Double click on value display, enter value and press Enter.



Input Section

Shows volume control and input metering. Input metering will show blue for normal use, and blue (left - for original source audio) and red (right - for audio suppressed) when leakage suppression is utilized.



Output Section

Shows master output volume control, and Mix control to blend original source and triggered sample audio.

Detail



Sets the level (threshold) below which the plug-in will not trigger from the incoming signal.

* Try to avoid setting Detail to high levels, or to zero. Set it according to the original source audio leakages, and other noise level.

Sensitivity



Sets the engines sensitivity level, and has been vastly improved from TRIGGER 1. With a much wider range, it now works smarter!

Kicks, Snares and Toms can be triggered with a default setting (50). Set higher (90-95), you can trigger low volume details, for example: "ghost notes".

* Optimal Sensitivity values will let you trigger ghost notes and still not trigger bleed; even if the bleed level is louder! The Sensitivity parameter works in conjunction with both 'Detail' and 'ReTrigger'. Specifically in conjunction with 'Detail', it will enable you to precisely set the optimal value for TRIGGER 2 to not trigger bleed. If you push too far however, bleed will naturally trigger, so adjust accordingly.

ReTrigger



Sets the ReTrigger time (minimal interval between hits).

Depending on the ReTrigger value, you can see the red colored part of the waveform in the Wave Display. This red part of the wave, which appears just after the detected hit, is a visual representation of the ReTrigger interval. It shows how long TRIGGER 2 remains "blind", and will not analyze incoming sound data for a new hit occurrence.

Filters

Low-Cut



Attenuates all frequencies below the set cut-off point, leaving those above unaffected.

High-Cut (New to TRIGGER 2)



Attenuates all frequencies above the set cut-off point, leaving those below unaffected.

Both filters can be utilized to remove unwanted frequency content from the triggering circuit for original source material. TRIGGER 2 will perform its detection based on the frequencies received from the filter section (such like a side chain filter of a compressor). Adjust these for improved triggering quality.

Usage/Setup

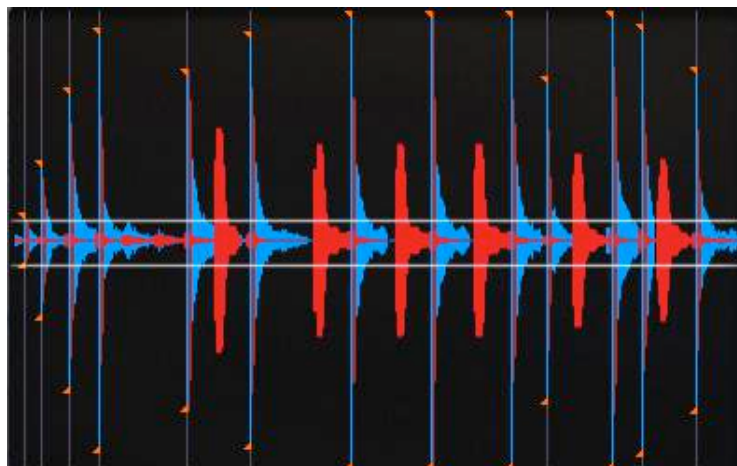
- Set the input volume first, and raise the level until most hits are peaking near the top of the display. This will ensure maximum range for dynamic velocity triggering of our samples.
- Set the 'Detail' to the edge of the bleed waveforms
- Set the 'ReTrigger' value
- Then, set the 'Sensitivity'

Suppression

TRIGGER 2 has the unique functionality to be set in a way that it can automatically be instructed to NOT trigger certain leakages on a drum track using it's Leakage Suppression mode. Using Leakage Suppression technology, you can trigger a drum track with 100% accuracy, even if it has a lot of bleed from other drum tracks.

To use the Leakage Suppression, first create a stereo group or aux track in your workstation and instantiate TRIGGER 2 on the first insert. Using aux sends, route the drum track that you wish to replace/augment to the LEFT channel of this new group track (in some workstations this can be done via panning the original track. Consult your host's user manual for further instruction).

Before we go further, let's assume that we are triggering from a snare drum and it has both bass drum and hi hat leakage. Assuming you have individual bass drum and hi hat tracks, use the aux sends on these tracks and send them to the RIGHT side of the TRIGGER 2 stereo group channel. So now we have the snare drum track being sent to the LEFT side of the TRIGGER 2 group, and both the bass drum and hi hat tracks being sent to the RIGHT side of the TRIGGER 2 group. Now find a section of the mix where there is a lot of bass drum and hi hat leakage on the snare drum track. Adjust the Suppression control in the upper left portion of the display until TRIGGER 2 starts to ONLY trigger the snare drum hits, while suppressing bleed from other drums. It should look like this:



Blue is the original track. Red is the leakage suppressed on the original track.

Note: Red waveform peaks should be a bit higher than the leakage peaks. If the red waveform peaks are too high, you need to decrease the Suppression value. If you are using several tracks for Leakage Suppression (lets say that it's a kick drum and toms) and the red peaks of kick drum track are good (a bit higher than the kick drum leakage peaks), but red peaks of the toms track are much higher than the toms leakage peaks, you need to decrease the volume of the toms track which you're routing into TRIGGER 2's right channel.

When you use the Leakage Suppression you can set the Detail control to very low values. However, do not set it to 0.00, because TRIGGER 2 can start triggering noise from the original audio. Set the Detail depending on the tracking noise level when you are using Leakage Suppression.

* Here's a tip... If you nudge your tracks with the bleed for suppression, the detection will follow the bleeds earlier or later. So, you can fine tune suppression tracking to get it precise.

Articulation Selector



In the 'View Mixer' page, just above the slot for a channel, you will see a boxed area to select the articulation for the loaded sample. Click to access the list menu, and select the articulation.

Triggering Continued...

Gate

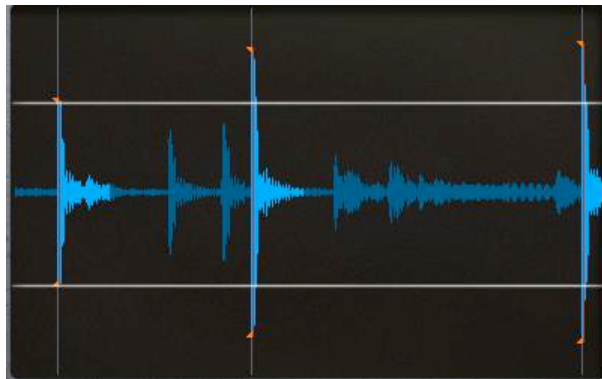


Important Note

'Gate' is only activated with a TRIGGER Platinum license (with an EX license, Gate will be greyed out).

'Gate' is an awesome new feature of TRIGGER 2. The Gate algorithm is the first in its class as "transient driven", for drum triggering.

Turning 'Gate' On, you will see in the Wave Display area, the waveform tail (based on Gate settings) is now shown removed/no longer detected (in dark blue). The audio passing is shown in light blue.



Because the Gate is transient driven and not threshold based like those common for plug-ins of this nature, you will need to adjust how the gate will react by first setting up 'Detail', 'ReTrigger', and 'Sensitivity', as documented in the "Usage/Setup" section. Those three main

parameter settings are shared for 'Gate' and detection, for triggering sample replacement/enhancement. Once you set the detection for triggering, you can simply use 'Gate' and its controls to shape the incoming/original source audio.

* The Gate only applies to/processes **the original source material** and not TRIGGER 2 samples. To hear it in action, you will need to turn down the Mix control (less than 100%).

Gate Controls

Attack

Sets the initial time it will take for the gate to open.

Hold

Sets the time the gate is left open before Release.

Release

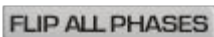
Sets the time taken to close the gate.

Save Preset



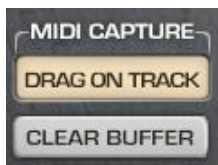
Click to save a .prs Preset file.

Flip All Phases



This will flip all phases for the 8 slots... Useful if you mix both original source audio and TRIGGER 2 samples and feel the need to for coherency.

MIDI Capture



Since the 1.65 update, TRIGGER has had a MIDI Capture feature, which may be used to capture a MIDI track from an audio signal.

* The MIDI track created using this feature will be much more accurate than a MIDI track created using MIDI out.

If you wish to capture a MIDI track from an audio track (let's say it's a snare drum track), then firstly you need to adjust the triggering settings for optimization as discussed in the "Usage/

Setup” section. Then, you need to clear the MIDI buffer by pressing “CLEAR BUFFER” button, and then you can start to capture a MIDI track.

* The MIDI Capture process works only in real-time mode. This means that if you want to capture MIDI from the whole snare track, you have to: -

- Adjust triggering settings
- Clear MIDI buffer
- Place a cursor at the beginning of the snare drum track
- Press Play in your host application
- Wait until TRIGGER 2 will trigger the whole snare drum track
- Press Stop in your host application
- Drag and drop the captured MIDI track into your host application from the “DRAG ON TRACK” button.

Important Note

TRIGGER 2 will create a temporary MIDI file with captured data from bar 1. When you “DRAG ON TRACK” MIDI data from the plug-in window to your DAW it will place a snippet of this whole file as captured from the play head position. Remember this when aligning your midi data.

* Cockos’ Reaper (and possible other DAW’s) will however display the whole file from bar 1 when dragged from TRIGGER 2.

Important Note

Every time you trigger any audio using TRIGGER 2, the MIDI Capture button will turn to orange color. This means that TRIGGER 2 is getting audio signal and converting it to MIDI. If you do not use the MIDI Capture feature then just don’t pay attention to these buttons. If you going to use MIDI Capture feature then use step by step instruction, which you can find a few lines above.

View Mixer

Shows Volume, Pan, Tune, Solo, Mute, and Phase flip parameter controls for per slot adjustments, and the Articulation Selector.

View Curves



Attack

Sets the initial time it will take the envelope of the selected Instrument to reach its maximum level after it has been triggered. Larger values will smooth out the attack phase that corresponds to increasing audio levels.

Sustain

The fixed time that the envelope of the selected Instrument will stay at its maximum level after it has completed the Attack phase, and before it enters the Release phase.

Release

The time it will take the envelope of the selected Instrument to fall from its Sustain level back to zero.

Dynamics

The Dynamics control is used to increase or decrease the dynamic range of the Instrument. Lower values will make the softer velocity layers sound louder (decrease the dynamic range). Upper values will make the softer velocity layers sound softer (increase the dynamic range).

Velocity

The Velocity control is used to adjust the response of the Instrument. The '50' value of the Velocity Curve sets a linear response for the selected Instrument.

* Values more than 50 set a positive non-linear response (which means if you trigger a soft hit on your drum track, it will be replaced by a hard hit from TRIGGER 2, or if you trigger the 64 velocity, TRIGGER 2 will transform it to, for instance, 80).

* Values less than 50 set a negative non-linear response (which means if you trigger a hard hit on your drum track, it will be replaced by a soft hit from TRIGGER 2, or if you trigger the 64 velocity, TRIGGER 2 will transform it to, for instance, 40).

So, using the Velocity control, you can adjust the response of TRIGGER 2 Instruments in any way you want. In other words, use this function to set how light or aggressive you want your triggered drum tracks to sound in the mix.

Range

The Range controls allow the user to limit velocities on an Instrument channel. Using the controls you can make TRIGGER 2 play, for instance, only Hard hits for Instrument channel (slot) one, and Soft or Medium hits on Instrument channel (slot) two.

Curve Link



The Curve Link section offers feature to selectively link either Attack, Sustain, Release, Dynamics, Velocity, or Range Min/Max controls for all Instrument channels (slots) control simultaneously. I.e. with Attack On, you may control all Attack parameters for the 8 channels via a single control.

* With link engaged, the Operational Key Commands for Parameter Reset and Fine Control are engaged/available.

Settings

Respect OS Display Scaling Setting

Setting this option 'YES' will enable support for DAWs supporting Retina Displays, and will work correctly in conjunction with Windows' (PC) window scaling display preference option (to rescale the plug-in GUI at different set resolutions).

Enable Instrument Loading With Double Click

Turning this option on, you will be able to double click "Instruments" in the Browser area to load them to the selected slot. A blinking light above the slot will indicate this the selected slot for loading to.

Latency

* Values below are respective of a 44.1k sample rate...

Live - introduces 176 samples delay.

Low - introduces 511 samples delay.

Normal - is the "optimal setting", and introduces 1023 samples delay.

* Latency is calculated by the setting time in milliseconds times the sample rate. Live (4ms), Low (11.6ms), Normal (23.2ms).

Important Note

Should you change latency setting in TRIGGER 2, you will need to reload the plug-in for latency value to be correctly passed to your host, for delay compensation. ** Please save a preset for recall. **

MIDI Input

Using MIDI Input, you can play TRIGGER 2's internal sounds from a MIDI track, or external device, such as MIDI keyboard.

To set up MIDI input, you need to turn it "On" via the check box, choose the MIDI Input channel and note in the Settings page. As soon as this is done, you can play TRIGGER 2's internal sounds by routing a MIDI track or MIDI device to the track with TRIGGER 2 inserted.

MIDI Output

Using TRIGGER 2's MIDI output you can transform an original audio into a MIDI track, or you can send MIDI directly to any virtual instrument.

To set up MIDI output, you need to turn it "On", choose the MIDI Out channel and note in the Settings page. Then, you need to route MIDI from the track with TRIGGER 2 inserted to a MIDI track in your audio host application.

* Please read your audio application's user manual for further instructions.

Important Note

MIDI implementation is host dependent and MIDI's behavior depends on the host type, hardware buffer size and other factors. In some situations you might have plus or minus 50-100 ms timing errors using MIDI in hosts which don't directly support MIDI output from plug-ins.

Due to the fact that MIDI output from FX plug-ins is not directly supported on most audio host applications, TRIGGER 2's MIDI output may be less accurate than its audio mode. If you need 100% accurate triggering, use TRIGGER 2's internal sounds or custom built instruments to trigger your drum tracks, or use the MIDI Capture feature for precise tracking of your audio.

3rd Party iLok License Transfer Fee

When reselling any Slate software product, there will be a \$10 License Transfer Fee in order for us to process the new customer into our user database. It is the responsibility of the seller to inform the buyer of this fee at the time of sale.