

REAPER Update Summary Guide

Main changes, versions 6.72 to 6.76

This document has been produced primarily for the benefit of those users who have a printed, hard copy User Guide.

It reproduces in each case sections which are either new or which have changed significantly. Relatively minor tweaks and twiddles are not included here. The "litmus test" that has been applied is whether these changes seem likely to have, or might possibly have, any significant impact on your way of working.

This document is intended to help keep your documentation up to date. You can print off those pages which are relevant to you, file them, and make a mark or annotation in your hard copy guide to that effect.

This Update Summary Guide will itself be updated regularly with future new releases.

Summary of Contents

Version 6.72

Track and track parameter grouping
New section: Media item with track group edits.
Track manager enhancements
Action list revisions.
Various FX and FX chain option changes.

Version 6.73

Multichannel parent-child relationships.

Version 6.74/6.75

Track wiring diagram: new option on context menu to display input activity indicators..
Routing matrix: new option on context menu to display input activity indicators..
Media explorer: context menu option to calculate loudness stats for media.
FX chain: context menu options to cut/copy with automation.
Item properties: more options including ReaReaRea.
Preferences: playback option move edit cursor to play cursor on stop.
Preferences: context menu option to move exit cursor on razor edit change.

Version 6.76

Zoom settings and behavior: more actions added for vertical zoom behavior.
Track control modifiers: use alt click to toggle between solo and solo in place.
FX presets: use Ctrl click to select multiple files in browser window.
MIDI: global option to chase/not chase MIDI note-on, CC, PC or pitch in project playback.
Automation: option to preserve trailing values when recording automation
Automation items: summary of rules governing automation item behavior.
Render/dry run window: this can now be resized.
Preferences, media item defaults: specify maximum limit (default 50 pixels) for fades/crossfades when splitting.
Preferences, appearance: settings reorganised and reordered.
Preferences, editing behavior: option to specify maximum vertical zoom limit.
Preferences, automation: whether to Always record to automation items and/or to Record to existing non-selected automation items.
MIDI preferences: toggle option to chase CC/PC when splitting MIDI items.

REAPER User Guide

Main changes, version 6.72

December 2022

This document reproduces those sections of the User Guide that are either new or have important modifications.

Any minor tweaks and twiddles are not included here, but are listed on page 13 of the main document.

Pages 102 - 105

Section 5.16

The most important change is the addition to the track grouping matrix (formerly called the grouping matrix) of a column Media/razor edits. When enabled, this allows for all media items in a group to be linked for editing (e.g. copying, moving). Equivalent changes have also been made to the track grouping dialog.

Minor changes include an option to show or hide group flags, the ability to right click over a track name to display that track's grouping dialog, and a button to open the new Track Group Manager.

Track and Track Parameter Grouping

Note: As well as conventional grouping, REAPER supports VCA (Voltage Controlled Amplifier) grouping. To help avoid confusion, VCA grouping will be considered as a separate topic later in this chapter.

By using track and parameter grouping you are able to define relationships between different tracks and their controls so that when you make a change to one control in the group, changes are also made to other tracks. The nature of these relationships can vary from being quite simple to rather complex. Here are some examples.

- You might have two tracks that you wish to keep at a constant volume relative to each other. In this case, you could ensure that whenever one is faded up or down then so is the other.
- You might have two tracks that need to be panned opposite each other. In this case, you can ensure that when one is panned in one direction, the other is automatically panned in the other.
- You might have two or more tracks that you wish to be always soloed or muted together.

In a moment, we'll work thru some examples. There are two main ways to create and manage your groups. This can be done either using the **Track Control Panel** or the **Track Grouping Matrix**. Here is an overview of both methods.

Method 1 uses the Grouping dialog box (shown right), which can be accessed from the Track Control Panel, the Mixer Control Panel. The method is as follows:

- In the TCP or MCP, select the tracks whose parameters you wish to group. Right-click over any track number in the group and choose **Track grouping** then **Track grouping parameters** from the menu (or press **Shift G**).
- When the Grouping window is displayed (see right) specify those parameters that you want to group. Optionally, you can change the group name from its default, which will be Group 1, Group 2, etc. Click on **Close** when finished.
- Make sure that the option **Track grouping enabled** on the TCP or MCP menu is selected (ticked).

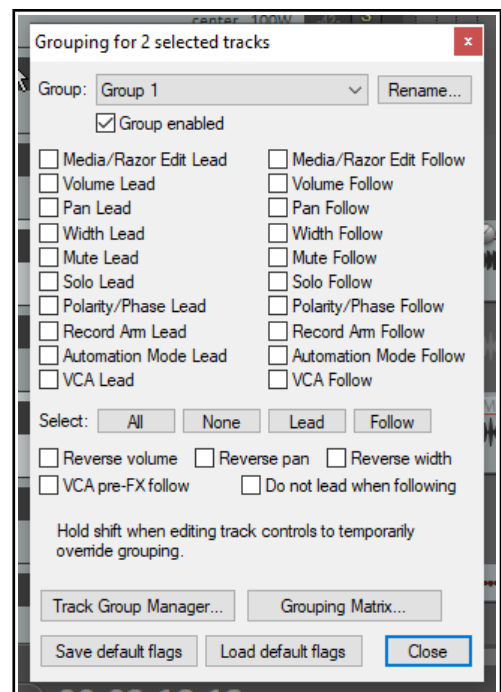
You can use this same method later to make changes to your grouped parameter definitions.

This interface might appear strange at first. For this reason, it may be easier, especially at first, to use the second method.

Method 2 uses the **Track Grouping Matrix**.

The track grouping matrix, which can be docked, can be used to manage up to 64 different groups. To display this, choose the **View** command, then **Track Grouping Matrix**, or press **Ctrl Alt G**. We can create a special project file for our examples. You can then group any selection of tracks that you like: in this example, we will be working with the two guitar tracks enclosed within the track folder. Note that you do not need to place tracks in a folder in order to be able to group them.

First, you should note that track grouping globally is turned on and off using the **Track, Track grouping enabled** command. When this is ticked, grouping is enabled. This command can be used to temporarily disable track grouping without the need for you to redefine or modify your groups.



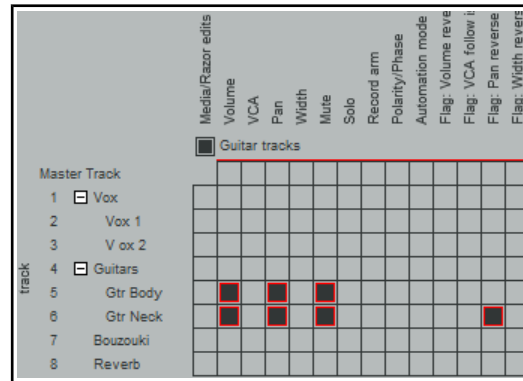
Basic Track Grouping

Example

Open the sample file **All Through The Night FOLDER**. Save it as **All Through The Night GROUPS1**. Use the **View, Grouping Matrix** command to display the matrix..

Each column except the first represents a control that can be grouped - volume, pan, mute, solo, etc. Each row represents a project track. Clicking inside the grid defines the tracks and parameters to be linked. In this example:

- The volume controls of the two guitar tracks are linked. Raising or lowering either volume control will automatically do the same to the other.
- The mute controls are linked. Muting either guitar track will automatically mute both.
- The pan controls are also linked – but note that for one of these tracks the pan reverse option is also enabled. This will ensure that when one of these tracks is panned, the other will also be panned – but in the opposite direction!



Notes:

1. The TCP shows colored ribbons for grouped parameters (see left). The **Appearance, Track Control Panel** preferences page includes an option to change this to edge lines or none.
2. To temporarily over-ride the grouping, you should hold **Shift** while adjusting the parameter of any one group member.
3. You can right click on any track name in the matrix to open the track grouping window for that track.



4. Notice the first Grouping Matrix column, headed **Media/Razor Edits**. This is a more complex topic and deals with matters such as the group editing of media items within a track group or across several groups. This will be explained in Chapter 7, **Managing and Editing Media Items**. The **Track Group Manager**, accessed by a button located above the matrix, will also be discussed and explained in that context.

Track Grouping Matrix Basic Controls

In order to do this ...	Using the Track Grouping Matrix
Display Help window	Click on the ? Button (top left corner of window).
Define the tracks in a new group	Display the Track Grouping Matrix. Select at least one parameter (such as Pan) for each track in the group.
Adjust all linked faders for a group	In Mixer or Track Arrange view, adjust the fader for any one track in the group.
Adjust the fader for only one track in a group containing linked faders	In Mixer or Track Arrange view, hold Shift while adjusting the single fader.
Define a pan or volume relationship as reverse for a track within a group	In the track row, click on the intersection cell for Pan Reverse or Volume Reverse .
Change an existing toggle parameter relationship (such as Solo, Mute or Record Arm) into a reverse one	In Mixer view, hold Shift while clicking on the appropriate button (such as Solo or Mute) for the individual track. Use Shift again to restore the positive relationship.
Display grouping window settings for an individual track	Right click over the track name in the track grouping matrix.
Link more parameters for tracks in an existing group	Click on the intersection cells where the required parameter column meets the track rows.
Add another track to an existing group	Click on intersection cell where the required parameter column meets the row for the track that is being added.
Remove a track from an existing group	Click once, twice or three times on the appropriate intersection cell until it shows blank. If more than one parameter is linked, do this for each parameter.
Enable/Disable group	Click in the group's Enable/Disable box.

In order to do this ...	Using the Track Grouping Matrix
Select all tracks in a group	Click on the group name.
Ensure automation mode of follow tracks automatically follows that of lead	Use the Automation Mode column of for tracks in the group.
Fine tune behavior of groups which share common tracks.	Use the Flag: Do not lead when following settings to ensure, for example, that a track which is a lead in group 1 and a follow in group 2 will not act as a lead in group 1 when being a follow in group 2.

Lead and Follow Group Relationships

Each parameter that is included in a grouped relationship can take one of three states – Lead/Follow (the default), Lead only, or Follow only. The different ways in which this affects that parameter's behavior are:

- A Lead/Follow item can control other Lead/Follow and Follow only items, but not Lead only items. It can itself be controlled by other Lead/Follow and Lead only items. This is the default type, indicated in the matrix by solid black.
- A Lead only item can control other Lead/Follow and Follow only items, but not Lead only items. It cannot be controlled by any other item. This is represented in the matrix by the letter L.
- A Follow only item cannot control any other item, but can itself be controlled by Lead/Follow items and Lead only items. This is represented in the matrix by the letter F.

In the previous exercise, all items within our group had Lead/Follow status. This meant, for example, that when you adjusted the panning or the volume on either of the two guitar tracks, the equivalent parameter on the other guitar track would move according to the defined relationship. This happened regardless of which of the two tracks you used to make the adjustment. Let's now look at some different scenarios.

Example

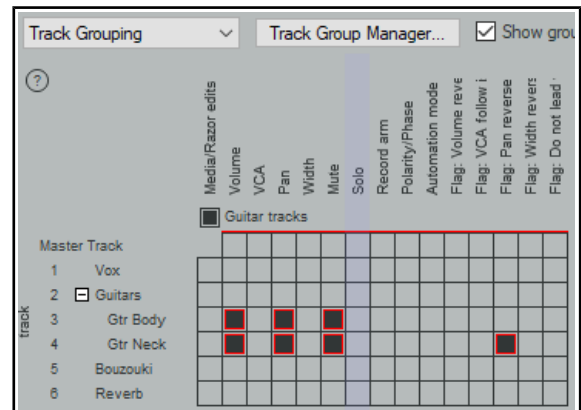
This example illustrates a relatively simple case of how track parameters can be flexibly linked. Again, use the file **All Through The Night GROUPS1**.

The Guitars folder and the Bouzouki track solo controls have been linked, Guitar as lead, the Bouzouki as follow. Click twice on the Guitars/Solo cell to set it to lead, three times on the Bouzouki/Solo to set it to follow only. A fourth click would clear the cell altogether.

You will now find that if you solo the Guitars folder, the Bouzouki track will also be soloed.

If you unsolo this and then solo the Bouzouki track, however, you will hear only the Bouzouki track.

Save the file as **All Through The Night GROUPS 1A**.

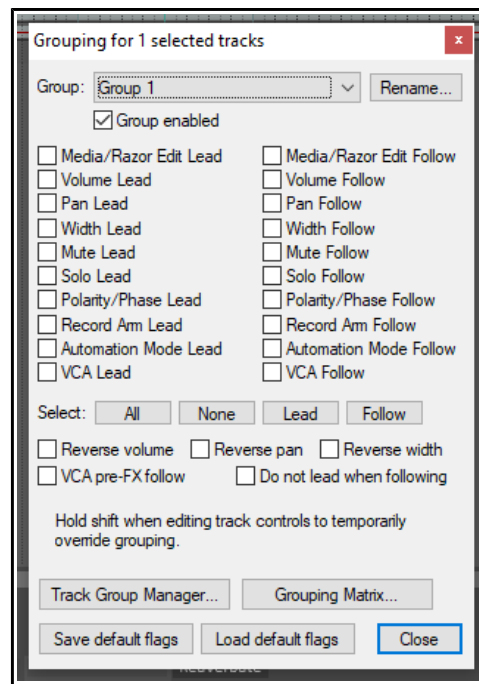
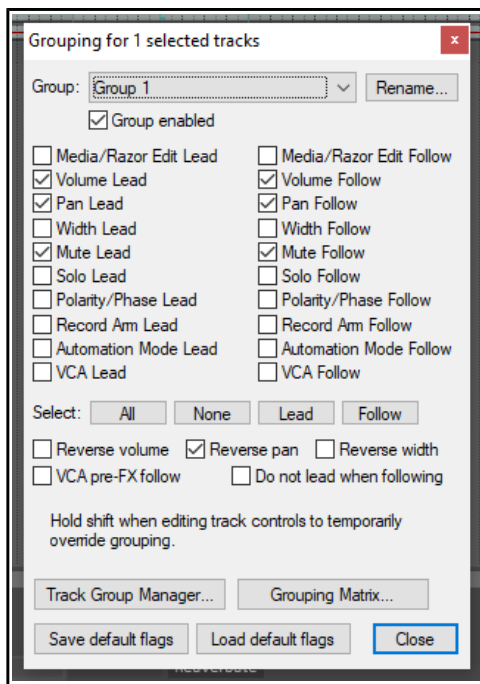


Track Grouping Window

The Track Grouping window displays all group information about the various parameters for any selected track or selection of tracks. Most commonly (and most usefully) it makes sense to use it with individual tracks, one track at a time. Again, this will be more readily understood if you work thru an example.

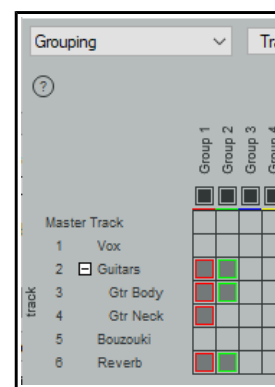
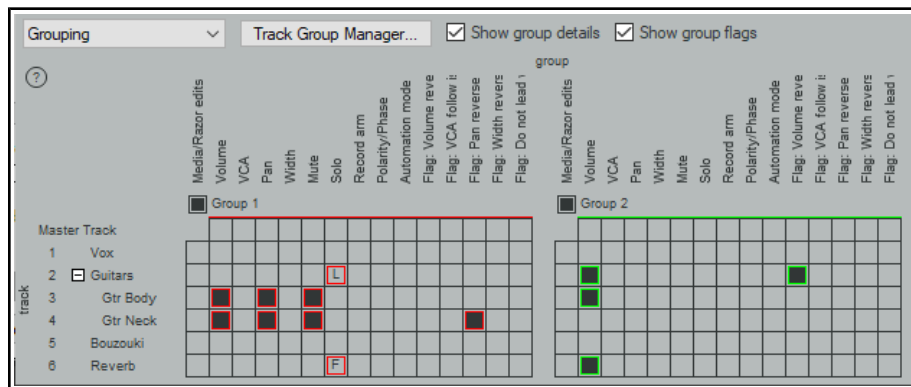
Example

Open the project file **All Through The Night GROUPS1A.RPP**. Select the **Gtr Neck** track in the TCP. Either right-click over the track number and choose **Track Grouping Parameters ...** from the context menu, or press **Shift G**. This causes the Grouping window for the selected track to be displayed (see below left).



In the TCP, select the Bouzouki track. The display in the Grouping window changes (above right), to show the currently grouped parameters for the bouzouki. In this dialog box, click and select **Mute Lead**. This is confirmed by the display in the track grouping matrix.

You can define up to 64 groups in a project file. The [actions list](#) includes actions to select all tracks in any of these groups. In the example below, a second group has been added, to help when adjusting the balance between the volume of the vocal track and the various instruments.



Note: The first of the two check boxes above the matrix allows you to toggle on (above left) or off (right) the option to **Show group details**. The second allows you to show or hide the **Group flags** columns.

Track Grouping Window Basic Controls

In order to do this ...	Using the Track Control Panel
Define the tracks in a new group	Select the tracks in the Track Control Panel, press Shift G then select at least one parameter.
Name a group	Press Shift G , select the required group number and click on Rename .
Adjust all linked faders for a group	Adjust the fader for any one track in the group.
Adjust the fader for only one track in a group containing linked faders	Hold Shift while adjusting the single fader.
Define a pan or volume relationship as reverse for a track within a group	Select track in the TCP and press Shift G . Click on Reverse Volume or Reverse Pan as required.

Change an existing toggle parameter relationship (such as Solo, Mute or Record Arm) into a reverse one	Hold Shift while clicking on the appropriate button (such as Solo or Mute) for the individual track.
Link more parameters for tracks in an existing group	Open the Grouping dialog box for the group and select the required parameters.
Reset a track's volume, pan or width to its default value and adjust settings for other group members accordingly	Double-click on the volume, pan or width value displayed in the track panel.
Add another track to an existing group	Select the track in the Track Control Panel and press Shift G . Display the drop down group list and select the required group. Select the required parameters.
Remove a track from an existing group	Select the track in the TCP and press Shift G Unselect all selected items except Group enabled
Enable/Disable group	Press Shift G , select the group from the drop down list then click in the Group enabled box.

Tip: When playing back a song, you may from time to time wish to reset your VU Peaks without needing to stop and restart playback. To clear one peak, simply click on the peak number shown at the right hand end of the VU meter in the TCP or top of the VU in the MCP. To clear all peaks, hold down the **Control** key while you do this.

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Section 7.3

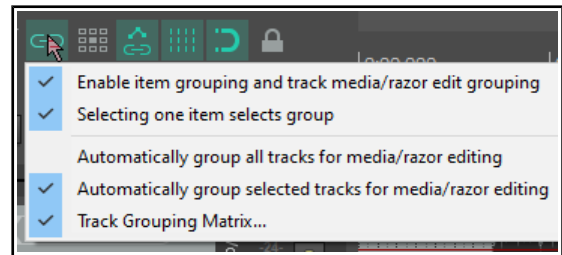
This is a new section, covering media editing and razor editing of items on tracks grouped for this purpose in the track grouping matrix.

This section includes a description of the revised and expanded options on the grouping toolbar on REAPER's default toolbar.

An important aspect of this section is the new track group manager, used to assist you when working with tracks which have been grouped for media editing purposes.

Media Item Editing with Track Group Items

In Chapter 5 we looked at track grouping, including the track grouping matrix. That section covered grouping and linking track controls, such as volume, pan and mute status. In this section we will be looking at grouping not track controls but media items within and across the tracks, so that a selection of such items can be edited together. For example, you might want to move or copy together a selection of items across several tracks, or to adjust the item volume handle for a selection of items on different tracks.



Track item grouping behavior can in part be managed via the item and track media grouping tool on the main toolbar. Right-clicking over this toolbar displays the menu shown above.

The Item and Track Media/Razor Edit Grouping Toolbar

This section requires you to have a basic working knowledge of both [Track Grouping](#) and [Editing Media Items](#)

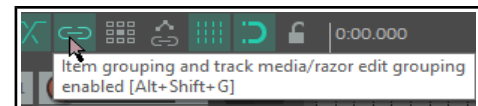
It first deals with how to define and use sometimes complex group selections. These are likely to be temporary groupings for a specific task, such as copying the selection to one or more places in the same project file.

It then explains how to group a number of items across tracks permanently so that (for example) when one item is moved they all move together, or that razor edits can be easily applied to all group members.

You should familiarise yourself with these grouping toolbar options/commands and their meaning:

Enable item grouping and track media/razor edit grouping:

this needs to be set to on whenever you wish to group items for any reason. **Alt Shift G** is a nifty way to toggle it on and off.



Selecting one item selects group:

With this option on you can select all items in a group (defined in the track grouping matrix) by clicking on any one item in the group.

Automatically group all tracks for media/razor editing: With this option on, any razor editing time selection that you make will automatically include media items in all tracks.

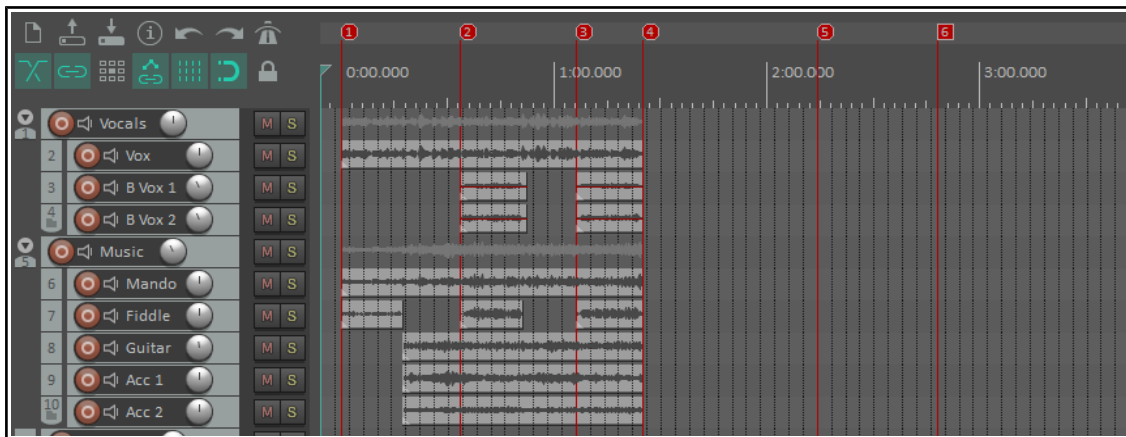
Automatically group selected tracks for media/razor editing: With this option on, razor edits or other media editing activity will automatically include all currently selected tracks, including those tracks included in any active track grouping matrix group or groups.

Track grouping matrix ...: This toggle option will open the track grouping matrix if it is not already open, or close it if it is currently open.

We're now going to look at a relatively simple example, without yet employing either the **Track Group Matrix** or another useful tool, the **Track Group Manager**. After that, we'll go on to examine some of the extra benefits available from also using these tools. The examples chosen in this section are solely for the purpose of illustrating how these features can be used and have no other significance.

Note 1: In the examples that follow, which specific instruments/voices are contained in which tracks is not important. The examples have been constructed solely for the purpose of illustration.

Note 2: For convenience and for illustration purposes, this model uses markers and **snap to marker** has been enabled. This is not essential.



For these examples, we would need to ensure that all group toolbar toggle options except **Automatically group all tracks for media/razor editing** are enabled.

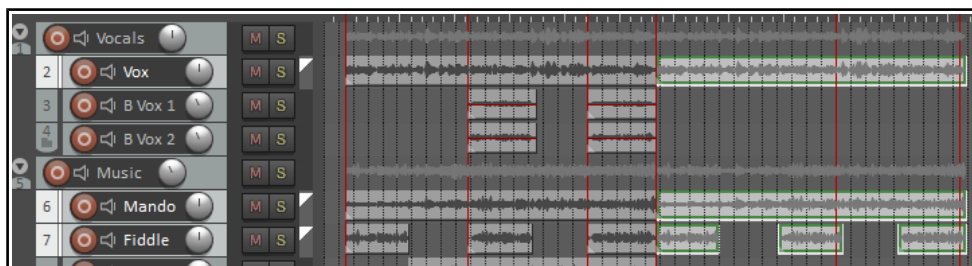
Examples

For the examples that follow, make sure that **Automatically group selected tracks for media/razor editing** is enabled (on the grouping tool).

In this example, we want to copy the contents of tracks 2, 6 and 7 to continue to build the song.

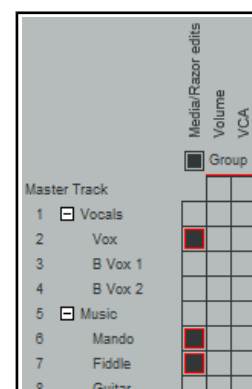
1. In the track control panel, we select tracks 2, 6 and 7 (left click track 2, then Ctrl left click tracks 6 and 7). White flags will be displayed to indicate which tracks are selected (as shown below).
2. We now simply use Ctrl left drag to drag the media item on track 2 to the right to copy them all to their respective required positions (shown below).

However, what if we regularly need to need to perform media editing tasks on these three tracks together? You don't want to be constantly redefining the track selection – especially if you are working with many more tracks, ten, twenty or more.

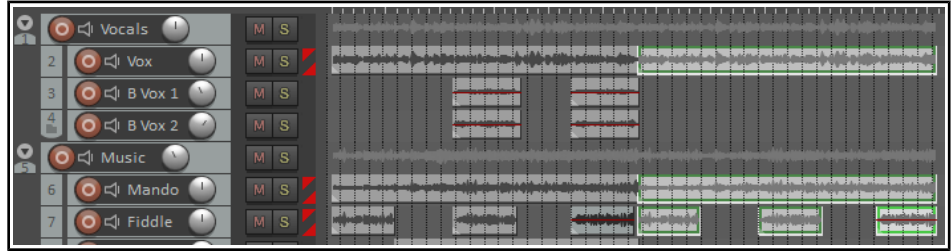


The answer lies in track grouping. Instead of what we have just done, we can do this:

1. To open the **Track Grouping Matrix** we can press **Ctrl Alt G**.
2. We group tracks 2, 6 and 7 and enable **Media/Razor edits** in the first column of this group. As shown here, both tracks are set to Lead/Follow (indicated by the solid black boxes). This will ensure that we can select media items on any of these tracks in order to edit the equivalent items on all tracks in the group.
3. Colored flags will now be displayed for each of these tracks, just inside the right hand edge of the track panel (shown below).
4. We left click on the item on track 2 – as long as **Automatically group selected tracks for media/razor editing** is enabled then the items on tracks 6 and 7 are also selected.



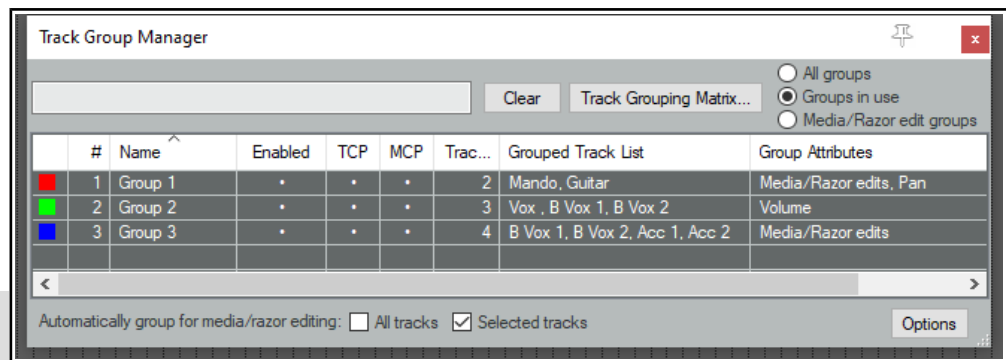
5. Next we use Ctrl left drag to copy the required items.
6. We click anywhere in arrange view to clear the selection.
7. In this simple example we have just two tracks in our group, but remember that this could be a much larger number.
8. We might now encounter the opposite problem from that which we had before – i.e. we might now want to make changes to one media item only, without affecting the other items in the group. This can be done by temporarily disabling the group, in either the **Track Grouping Matrix** or the **Track Group Manager**.



Note: Items grouped for media/razor edits will behave as follows: mouse edits to lead items will affect follow items in the group whether or not they are selected: actions will affect only selected items.

The Track Group Manager

The Track Group Manager is opened from the **View** menu or from a button on the Grouping Matrix. It lets you manage the behavior of the groups created in the Grouping Matrix.



Tip: If you have any track(s) enabled for media/razor edits in more than one group then most likely only one of those groups should be enabled at any one time. Otherwise changes made to items on a track in one group could also affect items on other groups. You should also be wary of any hidden tracks that might be included in a group: group edits would include items on those tracks also!

Use this...	To do this ...
Filter Box (top left)	Filter list of groups, by group name, according to whatever text you input.
Clear button	Clear any current filter, makes all groups available.
Track Grouping Matrix button	Click to open and display the Track Grouping Matrix.
All groups, Groups in use or Media/Razor edit groups	Determine whether to list all groups, only those currently active/enabled, or only those where one or more tracks are active in the Media/Razor edits column.
1st Column	Click to set color, set a random color, or reset color to default.
Name column	Click once to select the group: double-click to rename it.
Enabled column	Toggle group status to enabled/disabled.
TCP	Specify whether to display these tracks in the track panel in arrange view.
MCP	Specify whether to display these tracks in the mixer panel in mixer view.
Tracks	Indicate number of tracks in each group.
Grouped track list	List all tracks in a group. Double click for menu to add tracks to, or remove tracks from, the group.
Group attributes	Indicate which controls/features are enabled for the group – e.g. Media/Razor edits, Volume, Pan, Mute, Solo. Double-click to open the grouping window to edit group characteristics.

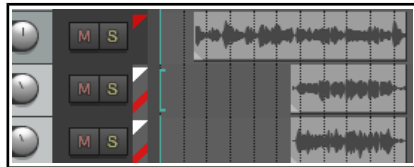
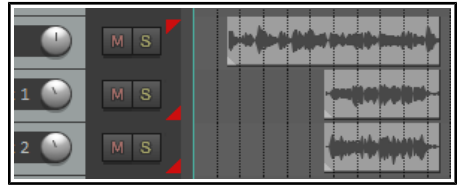
Use this...	To do this ...
Automatically group options	<p>Toggle options to choose whether to automatically group for media/razor editing all tracks in the project, selected tracks only or no tracks. Can be used, for example, to temporarily group all tracks in a file.</p> <p>Note: When automatically group selected tracks is enabled, clicking a media item will change the selection only if that track is not already selected.</p>
Options button	<p>Display menu of toggle options to:</p> <ul style="list-style-type: none"> Select tracks in group when selecting group Add/remove child tracks when adding/removing parent folder Show track dropdown list nested by folders Dock Track Group Manager window in docker
Sort group list	Double-click on any column header to sort list by that column.
<p>Note: Changes to any group status, characteristics or features made here are automatically carried over to the Track Grouping Matrix and vice versa.</p>	

Lead/Follow Track Group Edits

When a track group enabled for media/razor edits includes different lead/follow relationships on different tracks then the following applies:

Changes made on items in a lead track will also be applied to the follow tracks. Changes made to a follow track will only be applied to items in other tracks if those tracks are also selected.

Consider this example (shown above right). Three tracks are grouped. The positioning of the red flags shows that the first of these



(at the top of the track's panel) is lead only while the other two (at the bottom of the track's panel) are follow only. If we apply, say, a fadeout to an item in the leader track it will be applied to all three.

A fadeout applied to an item in the second or third track in the group would be applied to that one item only. However, if you first select both tracks, as shown by the white flags on the left, you could apply the

fadeout to either follower track and it would still be applied to both.

Groups, Items and Mouse Modifiers

Where grouped tracks have grouping enabled for media/razor edits then editing actions made to an item in any one of those tracks will generally also be applied to appropriate items on the other group tracks. Appropriate items are those that start and finish within the time bounds of the selected item. Here's an example.

Example

Shown here are two tracks which have been grouped in the track grouping matrix, with the option for grouped media/razor edits enabled.

If we select the item on track 6, only the first two of the items on track 7 are also selected, because they are fully enclosed within the bounds of the selected item.



Note: Locked media items within a track group will not be included in track group edits. Lock settings enabled on the toolbar will also restrict track group editing options.



Media Editing Mouse Modifiers

Sometimes you will want a particular mouse editing action to behave differently from normal. Typically this might be to perform an editing action to one media item in a group without affecting other group members. Mouse modifiers can come to your aid. By using a booster key (or combination of booster keys), such as Shift or Control while performing a mouse action you will ensure that the mouse behaves differently in that one instance.

REAPER has literally hundreds of such modifiers, and many are discussed throughout this user guide. There's a [general introduction](#) later in this chapter. Below are listed some commonly used item editing examples. This list is not comprehensive. You can find more at **Options, Preferences, Editing Behavior, Mouse Modifiers**.

Media item, left click

- Shift** Add items to selection
- Ctrl** Toggle item selection
- Alt** Select item ignoring grouping

Media item, double click

- Shift** Set time selection to item
- Ctrl** Set loop points to item

Arrange view, right drag

- (default)** Marquee selected items
- Shift** Marquee, add to selection
- Alt** Select razor edit area
- Shift Alt** Add to razor edit area

Razor edit edge, left drag

- (default)** Move edges
- Alt** Stretch areas

Track (background area), left drag

- (default)** Select time range
- Shift** Move time selection

Media item, fade/autocrossfade, left drag (default)

- Ctrl** Move fade, no snap
- Ctrl Alt **** Move fade no snap (relative edge edit)

Media item, left drag

- Ctrl** Copy item
- Alt** Move item contents

Razor edit area, left click

- Shift** Remove/Split media items at area edges
- Ctrl** Move area forward without contents
- Shift Ctrl** Move area backward without contents
- Alt** Remove one area

Razor edit envelope area

- (default)** Move or tilt envelope vertically
- Ctrl** Expand or compress envelope range

Track (background area), left click

- (default)** Deselect all items, move edit cursor
- Shift** Extend time selection

** Allows a fade to be applied to a selection of items whose start and/or end points do not align. With track edit grouping this will only apply if the grouped item lines up with the start/end of the item being edited.

Note that there are many available actions and behaviors that by default are not assigned to any modifier. Double-click in the Preferences, Mouse Modifiers behavior column for any context modifier to explore these.

Track Grouping Actions

REAPER's **Actions List** includes several track grouping actions which you can access via the list, or for which you can create your own keyboard shortcuts, toolbar buttons, or menu items. Some examples are shown here:

- Create new track media/razor editing group from selected tracks

- Remove selected tracks from all track media/razor editing groups

- Toggle all track grouping enabled

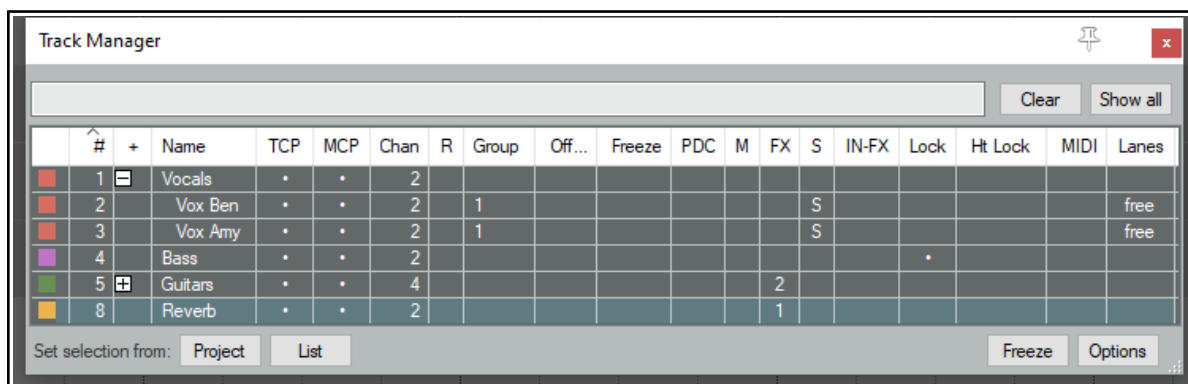
- Set default mouse modifier action for "Razor edit area left click" to "Remove one area ignoring track grouping"

Pages 210-211 (previously pages 206 - 207)

Section 12.7

The Track Manager now supports setting track colors to random, selected, or default, and collapsing/expanding track folders. New group column: double-click to open track grouping dialog.

The Track Manager

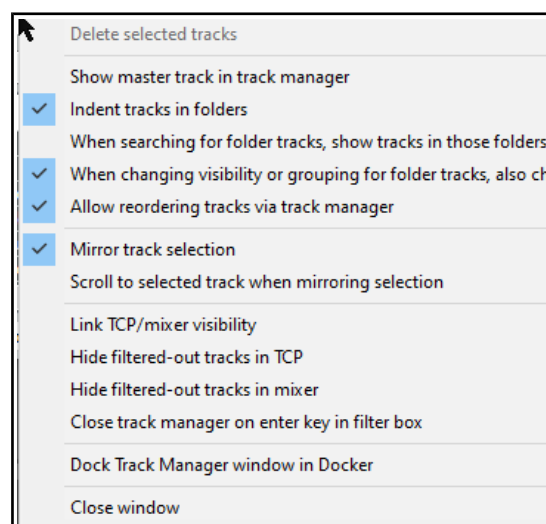


The **Track Manager (View, Track Manager)** gives you overview control of your tracks. It shows a grid similar to a spreadsheet or table. If the grid is empty, click on the **Show All** button (above right) to display the project's tracks.

The **Options** button menu (or right-click on title bar) includes **Mirror track selection**. (so that a track selection made in either the Track Manager or the TCP is also applied in the other) and, optionally, to **Scroll to selected track** in TCP and mixer.

There is an option **When changing visibility or grouping for folder tracks, also change tracks in those folders**.

For projects with folders/child tracks the hierarchy is retained within the track manager. The option to **Indent tracks in folders** can be disabled from the **Options** menu. The other **Options** button menu items are explained in their context in the table below. The table also summarises what you are able to do within the track manager window.



To do this you do this
Change column order	Click and drag column header left or right.
Hide/Show columns	Right click on any header, deselect/select from list.
Expand/collapse folders	Click on the +/- symbol in the column headed + .
Adjust column width	Click and drag left or right on boundaries between column headers,
Filter the track list by name <i>See also the section Using Search Filters for advanced options.</i>	Type text in filter box: e.g. "co" to list only those tracks whose name includes co. Supports use of NOT and OR filters: e.g. "bass OR gut" will find all tracks with either bass or gut as part of their track name. Use the appropriate Options menu commands to also Hide filtered-out tracks in TCP and/or Hide filtered-out tracks in mixer . The Clear button removes the filter. There are options in this menu When searching for folder tracks make sure child tracks in those folders are shown and to Close track manager on enter key in filter box from the Options menu.
Change TCP track order in track manager	Drag and drop tracks up or down. This can be disabled by disabling Allow reordering tracks via track manager from the context menu.
Delete track	Select track row and press Delete . You will be prompted to confirm this.
Show/hide Master	Toggle Show master track in track manager in Options button menu.

To do this you do this
Set/change track color	Click on square in the first column, then Set color or Set to random color .
Show/hide tracks in TCP/MCP	Click in track row in TCP/MCP columns. You can use the toggle option (on the Options button) to Link TCP/Mixer visibility to synchronize track display. Supports " Swipe " (see last row of table).
Open track grouping dialog for any track	Double-click that track's cell in the Group column.
Scroll track into view	Double-click on track number in # column.
Open/show track FX chain	The FX column shows the number of FX in each track's FX chain. Double-click on that cell to open the FX chain for that track.
Add FX to track or open an FX window	Right click over the track's FX cell and use context menu.
Open/show track Input FX chain	The IN-F column shows the number of FX in each track's Input FX chain. Double-click on that cell to open the input FX chain for that track.
Monitor plug-in delay compensation	Any plug-in delay compensation used by a track's FX will be indicated (in ms) in the track's PDC cell. Clicking on this cell toggles track FX bypass.
Open a track's routing window	Double-click in the Chan (channels) column for that track.
Arm/unarm tracks for recording	Click in the R column for any track(s) to arm for recording. The letter R will be shown for armed tracks. Click again to unarm. Supports " Swipe " (below). Right click on any cell in this column to display record menu for that track.
Mute/unmute tracks	Click in the M column to toggle mute status. All the modifier keys used in the TCP can be used here – e.g. Ctrl Mute to unmute all. Right-click for TCP mute context menu – see Chapter 5. Also supports " Swipe " (see below).
Solo/unsolo tracks	Click in the S column to toggle solo status. All the modifier keys used in the TCP can be used here – e.g. Ctrl Alt Solo to solo exclusive. Right-click for TCP solo context menu – see Chapter 5. Also supports " Swipe " (see below).
Lock/unlock track controls	Click in the Lock column to toggle lock status. Locked tracks display a + sign. Supports " Swipe " (see last row of table).
Lock track height	Click in HT Lock column to toggle.
Manage MIDI items	Double-click a track's MIDI cell to open track MIDI items in new MIDI Editor. If item is already open, double-click to close. Right-click in cell for menu of options: Open in new MIDI editor , Open in existing MIDI editor , Open in existing MIDI editor (clear editor first) or Remove from MIDI editor . The third of these options removes from the MIDI editor any tracks/items already open before opening this one.
Lanes	The Lanes column indicates whether free item positioning is on or off.
Freeze/unfreeze tracks	Select track(s) in Track Manager window, then choose whichever action you wish from the Freeze button menu. See also Chapter 6.
Sort Track Manager list	Click on any column header. Click again to reverse sort order.
Manage track groups	The track manager will respect grouped track parameters (Chapter 5). As with the track grouping matrix, you can use Shift to temporarily over-ride these.
Swipe to toggle several adjacent tracks	For example, to arm several adjacent tracks for recording, or to mute several adjacent tracks, or to enable free item positioning on a series of adjacent tracks. Click and drag/sweep down the appropriate column.

In the example shown above this table, the **Guitars** folder is collapsed so that its child tracks (tracks 6 and 7) are not displayed. It has two FX and four channels. The **Bass** track is locked. All tracks are accessible in the TCP and MCP (although to access tracks 6 and 7 you would need to expand the folder). Both the **Vox Ben** and **Vox Amy** tracks are soloed. They are also FIMP enabled and are grouped as track group 1. The **Reverb** track has one FX.

Tip: You can use the **Screensets** window to save different sets of Track Manager settings as Track Views, any of which can be recalled in an instant. Screen sets are explained later in this chapter.

Pages 283-285, 290-291 (previously 279-281, 286-287)

Section 15.2, 15.3, 15.15, 15.16

Various mostly minor GUI and terminology changes in using the action list, creating custom actions, and importing scripts.

Actions List Essentials

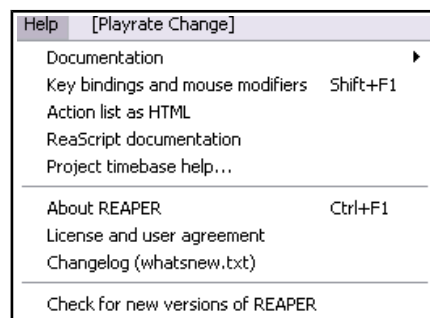
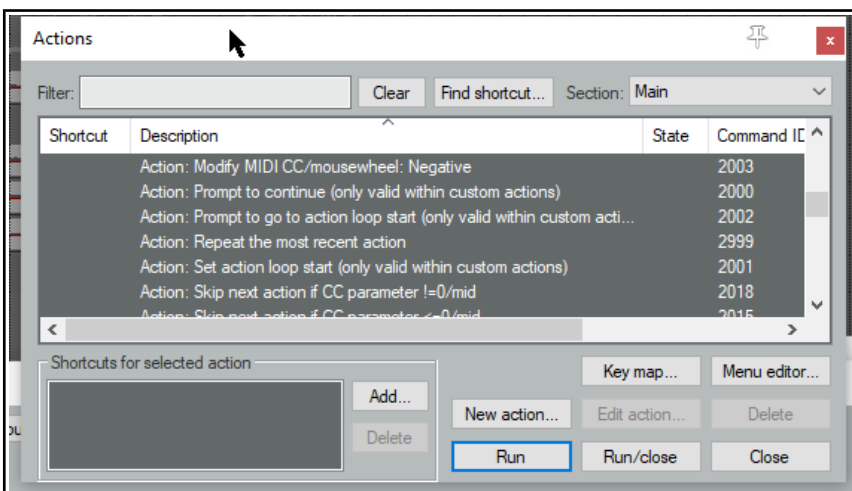
The Actions List and its editor (shown right) are opened by choosing the **Actions** command from REAPER's main menu, then **Show action list...**, or simply by pressing the **? Key**. Before we look inside REAPER's Action List Editor to explore the world of shortcut keys, custom actions, control surface

assignments and more, it's worth taking stock of a couple of useful resources that are available to you.

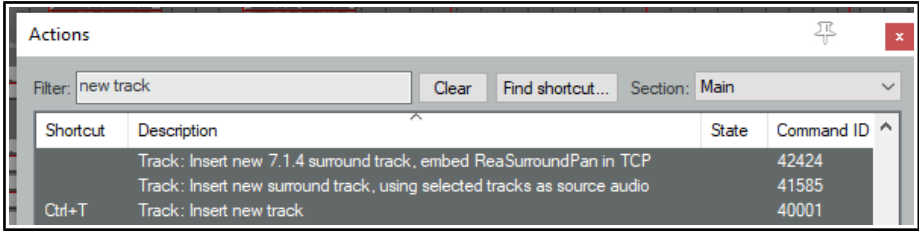
Help, Key bindings and mouse modifiers (from REAPER's main menu) opens your default web browser with a list of all current keyboard shortcut and mouse modifiers. This list is searchable and can be printed.

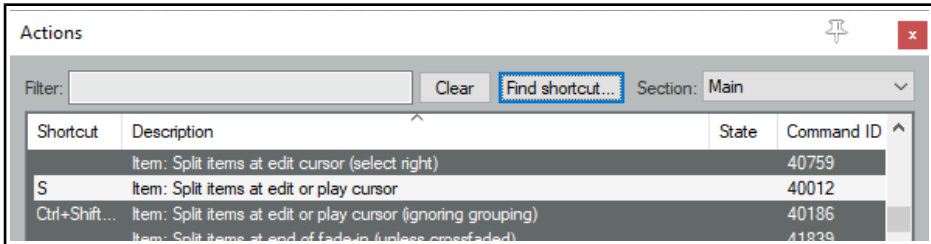
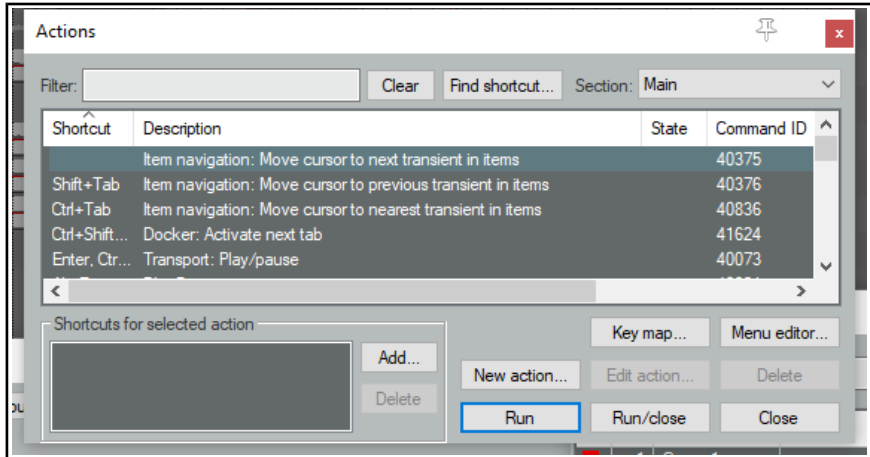
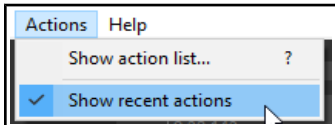
Choose **Action list as HTML** from REAPER's **Help** menu to open your default web browser with a list of all of REAPER's many available actions, any of which can be assigned to a keyboard shortcut and/or combined with other actions into your own custom actions. This list is also searchable and may be printed. This information is also contained within the Action List Editor itself, and this editor is searchable.

ReaScript documentation. Just what ReaScript is will be explained later in this chapter. In brief, ReaScript items can be used to add additional functionality to REAPER. A number of sample scripts can be found at, and downloaded from, **stash.reaper.fm/tag/Scripts**. They need to be placed inside the Scripts sub-folder within your REAPER applications data directory. They can then be selected and executed within REAPER's Actions list editor by clicking on the **Reascript Load** button.



The Action List Editor Environment

Item	Comments
Filter <i>See also section Using Search Filters for more advanced options.</i>	<p>You can filter the list of displayed actions using any text string or strings that you like. For example, in this screen shot the list has been filtered to show only those actions that relate to new tracks:</p>  <p>Notice that one of these actions – Track: Insert new track – already has a shortcut (Ctrl T) assigned to it.</p> <p>Boolean search terms are supported. For example, you could search for any of these:</p> <ul style="list-style-type: none">delete OR remove OR clearinsert (item OR media) (spaces before and after parentheses)properties (take NOT channel) (spaces before and after parentheses) <p>Notice that where an existing keyboard shortcut exists it is shown to the left of the action. For example, the ! Key is used to toggle the action View: Expand selected track height, minimize others.</p>
Clear	The Clear button clears any current filter and restores all actions to the list.

Item	Comments																								
Finding assigned shortcuts	<p>The Find shortcut... button is used to see if a particular keyboard shortcut has already been assigned to any action. Click on this button and you are prompted to type a key or move a MIDI controller. We'll come to MIDI controllers later in this chapter. If the key is already in use, its assignment will be displayed (see below).</p> <div><table><thead><tr><th>Shortcut</th><th>Description</th><th>State</th><th>Command ID</th></tr></thead><tbody><tr><td></td><td>Item: Split items at edit cursor (select right)</td><td></td><td>40759</td></tr><tr><td>S</td><td>Item: Split items at edit or play cursor</td><td></td><td>40012</td></tr><tr><td>Ctrl+Shift...</td><td>Item: Split items at edit or play cursor (ignoring grouping)</td><td></td><td>40186</td></tr><tr><td></td><td>Item: Split items at end of fade-in (unless crossfaded)</td><td></td><td>41839</td></tr></tbody></table></div> <p>In this example above, we have searched to see if an assignment exists for the letter s. For this kind of search, you should only type in upper case if you really are searching for the combination of Shift with the letter. For example, in this case, a search for Alt Shift S would have produced Item: Split item at play cursor.</p> <p>You can also use the search filter to search more generally for existing shortcut assignments. For example, typing alt+shift in the filter box would list all shortcuts which include both the alt key and the shift key.</p> <p>This can be handy to help you establish (by elimination) which keyboard combinations are and are not currently in use.</p>	Shortcut	Description	State	Command ID		Item: Split items at edit cursor (select right)		40759	S	Item: Split items at edit or play cursor		40012	Ctrl+Shift...	Item: Split items at edit or play cursor (ignoring grouping)		40186		Item: Split items at end of fade-in (unless crossfaded)		41839				
Shortcut	Description	State	Command ID																						
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Ctrl+Shift...	Item: Split items at edit or play cursor (ignoring grouping)		40186																						
	Item: Split items at end of fade-in (unless crossfaded)		41839																						
Column headers/ Sort keys	<p>The State column indicates for toggle actions whether their status is on or off. By default, actions are listed in alphabetical order of their description. You can click on the Shortcut column header to sort instead on current keyboard assignments with special characters and numbers at the top of the list (see below).</p> <div><table><thead><tr><th>Shortcut</th><th>Description</th><th>State</th><th>Command ID</th></tr></thead><tbody><tr><td></td><td>Item navigation: Move cursor to next transient in items</td><td></td><td>40375</td></tr><tr><td>Shift+Tab</td><td>Item navigation: Move cursor to previous transient in items</td><td></td><td>40376</td></tr><tr><td>Ctrl+Tab</td><td>Item navigation: Move cursor to nearest transient in items</td><td></td><td>40836</td></tr><tr><td>Ctrl+Shift...</td><td>Docker: Activate next tab</td><td></td><td>41624</td></tr><tr><td>Enter, Ctr...</td><td>Transport: Play/pause</td><td></td><td>40073</td></tr></tbody></table></div> <p>Click on the column header again to reverse the sort order. Click on Description to sort them back into alphabetical order.</p>	Shortcut	Description	State	Command ID		Item navigation: Move cursor to next transient in items		40375	Shift+Tab	Item navigation: Move cursor to previous transient in items		40376	Ctrl+Tab	Item navigation: Move cursor to nearest transient in items		40836	Ctrl+Shift...	Docker: Activate next tab		41624	Enter, Ctr...	Transport: Play/pause		40073
Shortcut	Description	State	Command ID																						
	Item navigation: Move cursor to next transient in items		40375																						
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Ctrl+Tab	Item navigation: Move cursor to nearest transient in items		40836																						
Ctrl+Shift...	Docker: Activate next tab		41624																						
Enter, Ctr...	Transport: Play/pause		40073																						
Sections	<p>The Action List is divided into a number of sections (or contexts). You can assign the same keys to different actions in different contexts – for example, in REAPER's Main section S is used to split an item. This can be assigned to a different action in, say, the MIDI Editor. This is explained in more detail below.</p>																								
Run	<p>An action can be executed within the action list regardless of whether it has shortcut keys. Select the action, then click the Run button.</p> <p>If the toggle Show recent actions is enabled on REAPER's main Actions menu (right) then any actions executed during your current session will be added to REAPER's Action menu. Closing REAPER, clears these actions from the menu.</p> <div></div>																								

Item	Comments
Run/Close	This button is similar to the Run button, the main difference being that after running the selected action it closes the Actions window.
Close	This closes the Actions window.
Remember last action filter	<p>When enabled (from the Action window right-click context menu) REAPER will apply your most recent filter next time the Actions window is opened, even in a future work session.</p> <div> <input checked="" type="checkbox"/> Remember last action filter <input checked="" type="checkbox"/> Search for synonyms of common words <input checked="" type="checkbox"/> Close after action on doubleclick/enter </div>
Search for synonyms of common words	When enabled (from the Action window right-click context menu) REAPER will include common synonyms with your search filter. For example, a search for "display" would also find actions that include "show". If you wish to define your own synonyms you will need to customize a language pack with a section "actionlist_synonyms."
Show action IDs	This toggle option (from the right-click context menu) shows/hides a column displaying REAPER's action IDs.
General	The Action window exhibits the basic characteristics of other REAPER windows. For example, you can use the pin symbol (top right) to keep it on top, or you can dock it in the docker (from the right-click context menu).

Creating Custom Action Macros

You can assign an entire sequence of actions to a single keyboard shortcut if you wish. In fact, there is no preset limit to the number of actions that you can assign to a single keystroke or keystroke combination. The process of assigning more than one action to a keystroke is known as creating a custom action, or macro.

As you browse the actions list, you might at first be somewhat puzzled at some of the items that are there. You might wonder, for example, why would anybody need an action for **Item: Select item under mouse cursor** when it is surely easier just to click on the item.

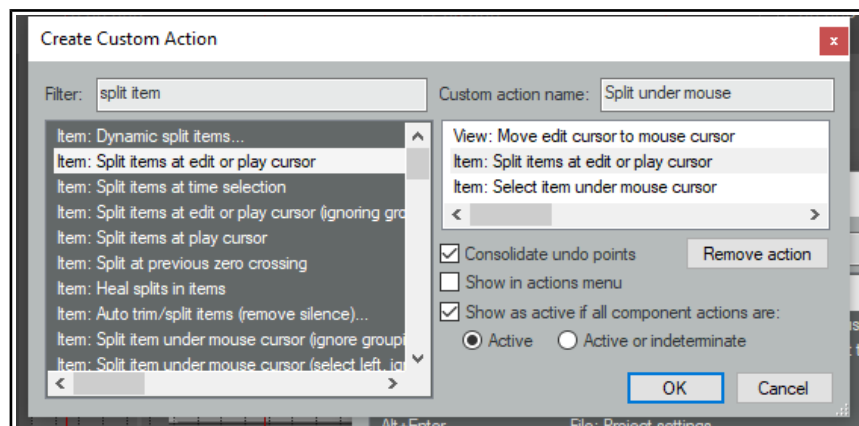
Often with actions like this, the answer is that the real power of these actions comes not from using them on their own, but in combination with other actions.

Managing Custom Actions (Macros) – Summary Table	
In order to do this ...	You do this ...
Create a new macro	Click on New action... button, then choose New custom action... Type a name for your macro.
Add actions to a macro	Drag and drop from action list, or double-click.
Change order of actions	Drag and drop up or down the list.
Remove action from macro	Select action in right hand action list, click on Remove action .
Add macro to main Actions menu	Enable the option Show in actions menu .
Consolidate macro into a single undo point	Enable the option Consolidate undo points .
Show macro as active when running (if added to a toolbar)	Enable the appropriate Show as active option in Create Custom Action dialog.
Save macro	Click on OK .
Assign shortcut key to a macro	Select the macro in the Action List. Click on Add .
Edit an existing macro	Select the macro in the Action List. Click on Edit action .
Run an existing macro	Use shortcut key (if assigned), or select the macro from REAPER's Actions menu (if this option is enabled), or select macro in Action List and click on Run option.
Delete an existing macro	Select the macro in the Action List. Click on Delete .

Here's a simple example. Normally, to split an item you need to select it, position the edit cursor at the required position, and then press S. Using a custom action, we can combine this sequence into a single keystroke.

Example

1. In the Actions List, click on the custom actions **New action...** button, then **New custom action**. This opens the **Create Custom Action** window (see below right). Type a name, such as **Split under mouse**.
2. In the list of actions in the left panel find **View: Move edit cursor to mouse cursor**. Double-click on this.
3. In the list of actions shown in the left panel. Find the action **Item: Select item under mouse cursor**. Double-click on this action.
4. In this list of actions double-click on **Item: Split items at edit or play cursor**.
5. Click on the option **Consolidate undo points** to enable it. Click on **OK** to return to the main Action List with your new custom action selected.
6. Click on **Add** and type lower case **c** to assign **c** to your macro. Click **OK**. **Close** the Actions List.

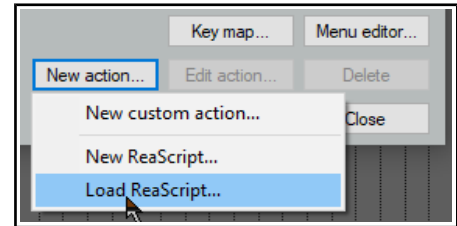


7. Hover your mouse over any media item and press lower case **C**. The item will be split at that point. One of the split items will still be selected. If you don't like this, you can edit the macro.
8. Open the Actions List Editor, find your macro **Split under mouse** and select it. Click on **Edit**. Add to the end of this macro the action **Item: Unselect (clear selection of) all items**. Click on **OK**.
9. Now test the macro again. This time it will split items without leaving anything selected.

This is just one example of a custom action macro in action. Think about other sequences of actions and commands that you use together ... think actions, think macros! You'll also find plenty of ideas and inspiration on **The Useful Macro Thread** on REAPER's **Q&A, Tips, Tricks and How To** forum – at forum.cockos.com.

Importing and Loading Scripts

For more advanced custom programs which go beyond chaining together actions, you can import into REAPER custom scripts that you may have written or obtained (perhaps from the **Reaper Stash** at <https://stash.reaper.fm/tag/Custom-Actions>) and which add extra functionality to the program. Python, EEL and Lua scripts can all be imported. For Windows users, to access actions written in Python, Python will need to have been installed on your computer and ReaScript enabled on the Plug-ins, ReaScript page of Preferences.



Once you have downloaded and stored your required scripts on your hard drive, you can load them into REAPER by clicking first on the **New action** button, then **Load ReaScript**, then navigate to the appropriate directory, then select the required file(s) and click on **Open**.

The topic of writing scripts is outside the scope of this User Guide, although there is a brief introduction to ReaScript in Chapter 23. If you are interested in learning more you should visit the REAPER web site, and in particular: www.cockos.com/reaper/sdk/reascript/reascript.php

ReaScript documentation can also be opened from REAPER's Help menu.

Page 320 (previously page 316)

Section 12.7

Several FX and FX chain options and settings have been reorganised, as shown below.

FX and FX Chain Options

The various menus in the FX chain window menu make available a number of options and preferences:

Options menu	Comments
Auto float new FX windows	Causes a new window to be opened for any FX added to the chain.
Ignore FX keyboard shortcuts	Keyboard shortcuts are all passed through to the main window – e.g. pressing spacebar will start/stop playback.
FX plug-in settings ...	Opens the Plug-ins page of REAPER's preferences.
CPU utilization display	CPU utilization (in the performance meter and elsewhere) can be displayed as a percentage of the total capacity of all cores (e.g. 10% as 10% of all cores), or in terms of the number of cores being utilised (e.g. 0.2c as two tenths of one core).
Individual FX context menu	Comments
Build multichannel routing for output...	If the selected FX (e.g. MT PowerKit) outputs to multiple channels, the necessary tracks are created for you, along with all required routing.
Build 16 channels of routing to ...	For input to multitimbral instruments, 16 tracks will be created, each with MIDI routed on a separate channel.
FX Menu	Comments
Chain PDC mode	Option for plug-in delay compensation to be calculated and applied to the chain or to ignore plug-in delay.
Chain oversampling	Oversampling can increase the rate at which audio is sampled by a factor of typically 2x or 4x that at which it was recorded. This can have the effect of reducing unwanted noise, but is also CPU intensive. Options available are 88.2k/96k, 176.4k/192k, 352.8k/384k, or 705.6k/768k.
FX instance oversampling	
Force auto-bypass on silence for selected FX	This can be used, for example, to prevent a reverb tail during a silent passage. The silence threshold is defined in advanced project settings . Also available on the individual FX context menu.

Various Minor Changes

Page 115: Plug-in delay compensation options in the FX chain window are now available from the window's FX menu as well as from icon context menus of individual FX.

Page 166 (previously page 162): Region/marker manager – first column includes options to select a color, set a random color, or reset color to default.

Page 357 (previously 353): new action added to show envelopes window for last touched track or item.

Page 363 (previously 359): razor edits can now be applied to envelopes on the master track, except for tempo envelopes.

Page 402 (previously 398): Batch file/item converter – Channels dropdown now allows you to split stereo/multichannel items into multiple mono files.

Page 420 (previously 416): Media item positioning preferences now includes an option to arrange overlapping items in the order in which they were created.

REAPER User Guide

Main changes, version 6.73

December 2022

This document reproduces those sections of the User Guide that are either new or have important modifications.

Any minor tweaks and twiddles are not included here, but are listed on page 13 of the main document.

Page 338

Section 17.17

New section

Multichannel Parent Child Relationships

Parent-child track relationships can be defined in the track's routing window, opened by clicking on its Route button in the track panel.

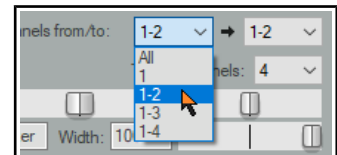
By default, REAPER assumes that you require two channels (1-2) for new tracks, 2 channels (1-2) for the master, and that you require all channels (which in this example are 1 and 2, because that is all there are) to be sent from the track to the master (as shown above right). The first of the paired dropdowns determines the channels to be sent from the track to the master, the second to which master channels they are to be sent.

The exception is when the track is contained within a folder. In that case, instead of *Master send channels from/to* the dialog will display *Parent send channels from/to*, and the output will be directed to the folder track, not directly to the master.

There might be occasions when you will need more than two channels – for example when sidechaining, using parallel FX processing, or if you are producing output in surround sound format. In any such case, you will need to specify the number of track channels required and their relationship to their parent.

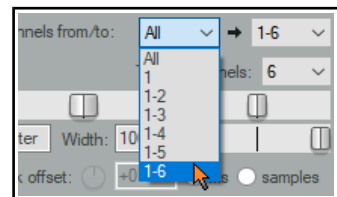
Example 1:

In this case the track has four channels (perhaps reserving channels 3-4 for sidechaining detector input), but only channels 1-2 are to go to the parent (master). We select 1-2 from the first dropdown, and from the second dropdown we select 1-2 as our destination channels in the master.



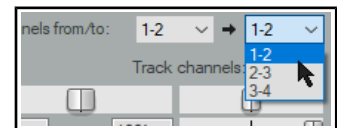
Example 2

This next example would be suitable for surround mixing in 5.1 format. The master has been defined as having six channels, as have the tracks. Hence, from the first dropdown we can select either All or 1-6 channels: 1-6 is automatically selected for the second dropdown, because once we have specified that we wish to send all 6 channels that becomes the only possible option.



Example 3

This final example is for a child track within a folder. The track itself has only 2 channels, but the folder has 4 (perhaps for manipulating FX within the folder's FX chain). Here we select All or 1-2 from the first dropdown: because this track has only two channels, in this case either of these will produce the same result. However, because the parent contains four channels, we must also specify the destination channels on the folder. If you do not make a selection, it will default to 1-2.



Tip 1: You can change the number of default channels for new tracks to any even number up to 64 on the Advanced page of Project Settings. Here you can also change the default number of parent send channels.

Tip 2: There is an option to **Allow snap grid/track envelope/routing windows to stay open** under Options, Preferences, General, Advanced UI/system tweaks. This prevents them from automatically closing when you click away from them.

REAPER User Guide

Main changes, versions 6.74/6.75

February 2023

This document reproduces those sections of the User Guide that are either new or have important modifications.

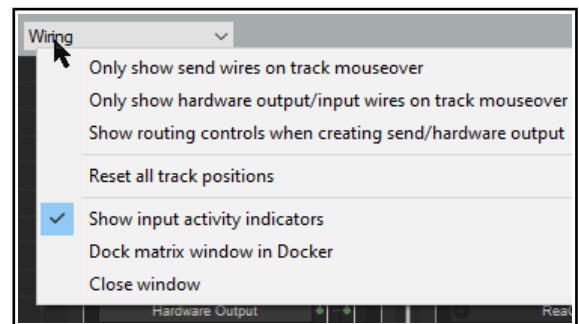
Any minor tweaks and twiddles are not included here, but are listed on page 13 of the main document.

Page 52

Section 2.27

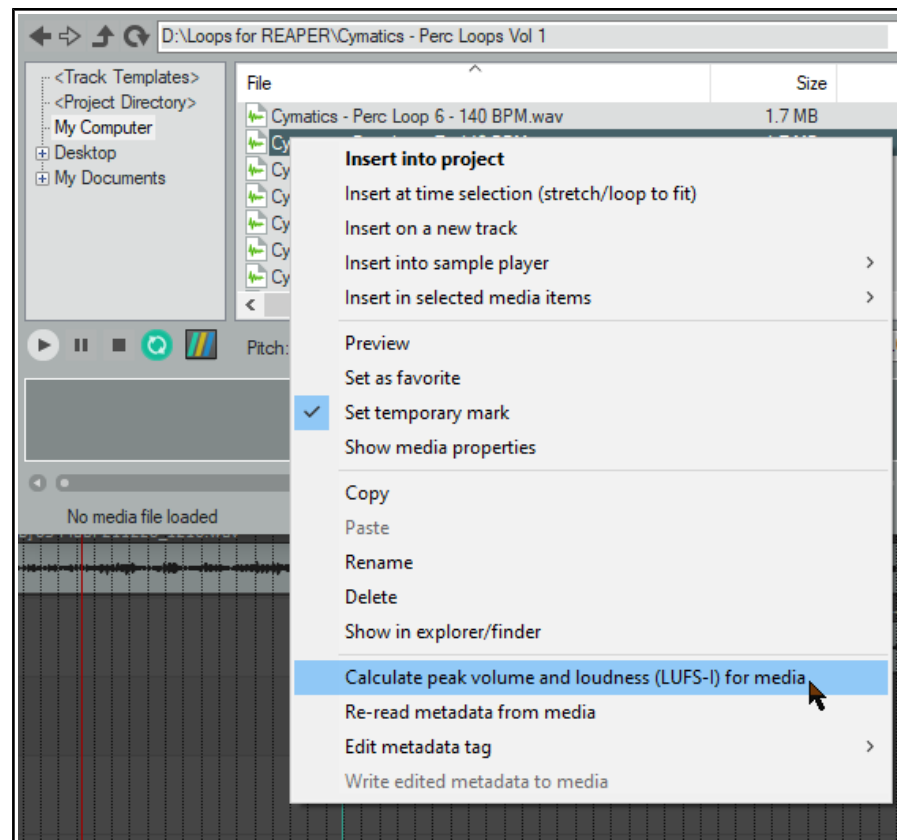
Track Wiring Diagram

Option added to context menu to show input activity indicators.



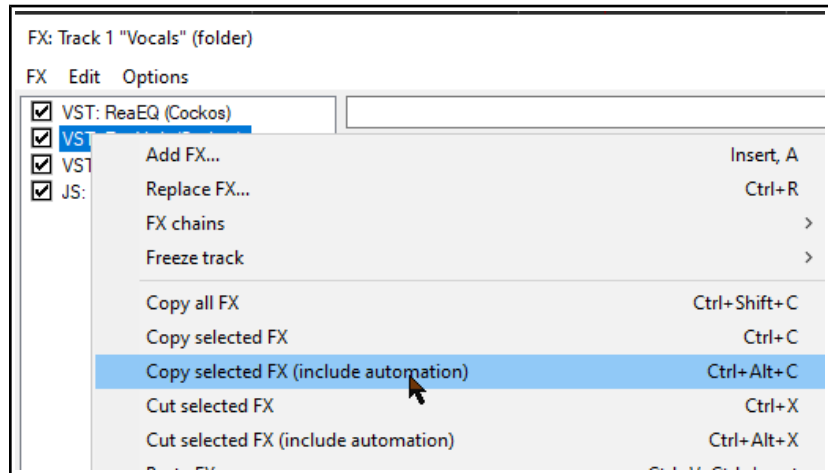
Media Explorer

Context menu option to
**Calculate peak volume
and loudness for media.**



Managing FX: Tips and Tricks

FX chains: context menu options added to cut/copy FX including automation.



Changing Pitch for Individual Media Items

Options rearranged, more information, ReaReaRea added.

An item's pitch can be changed from the **Media Item Properties** dialog. To open this for any item, select the item and press **F2**. The **pitch adjust** value is measured in semitones. Enter a number to raise or lower the item's pitch, or type in a multiplier, such as **x1.5**.

Choose a pitch shift mode from the drop down list:

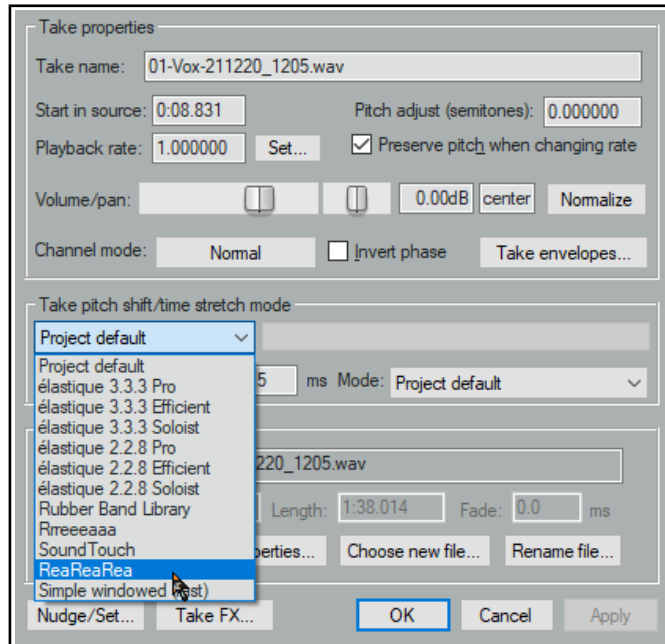
- Project default (from **Project Settings**).
- Élastique 2.2.8 or 3.3.3 Pro (best).
- Élastique 2.2.8 or 3.3.3 Efficient (less resource intensive than elastique Pro).
- Élastique 2.2.8 or 3.3.3 SOLOIST (suitable for monophonic items).
- Rubber band library.
- Rrreeeaaa.
- SoundTouch 1.9.0 (allows stretch rates up to 1,000 times and up to 64 channels).
- ReaReaRea.
- Simple windowed (best).

For any of the **élastique** modes, you should also select an option from the adjacent **Mode** dropdown: options will vary according to the mode selected.

Rrreeeaaa is useful if you want big stretches that do not preserve transients. Application of this mode is defined by an accompanying dropdown list which lets you change FFT, analysis and synthesis options from their defaults. It's unlikely that you would want to use this mode with stretch markers or ReaTune.

For **rubber band library**, available settings include transients, detector, pitch mode and window.

ReaReaRea is similar to a classic digital sampler timestretch algorithm. It processes independent of the signal being stretched, and can be used creatively, being able to be configured in a tempo-synchronized fashion and with different fades, shapes and randomization options.



Play/ Stop Cursor Options

By default, when you use the spacebar to start/stop playback, then on stopping the play cursor will return to join the edit cursor at the position it was at when playback started. However, you also have an option to instead leave the play cursor at its stop position when playback stops, and to move the edit cursor forward to meet it.

Open the **Actions List** and find the action **Transport: Play/stop (move edit cursor to stop)**. This can be assigned to a combination of your choice (e.g. **Shift Space**).

REAPER's Routing Interface

Section rewritten: New routing matrix: context menu option to display input activity indicators.

When using multiple track channels, sends and receives (as do many of the examples in this section) you should consider keeping the Routing Matrix in view. You can use your routing matrix to make adjustments to any of your sends and receives, or to specify the number of channels required for any track. Some examples are summarised below.

Right click over any track name (as shown above right) to display the Track's Routing Window and change the number of Track Channels, or to adjust the parameters of any Send or Receive associated with that track.

Right click over the Send/Receive signal at any intersection on the Routing Matrix to adjust any of the parameters for that Send or Receive (as shown below right). Click over any vacant intersection on the Routing Matrix to create a Send/Receive at that point.

Remember, of course, that you can also create, remove and manage sends and receives in the TCP and the MCP. In either case, you can click on any track's **ROUTE** button to display that track's Routing Window, or right-click over the **ROUTE** button and use the fly out menu to easily add a Send or Receive.

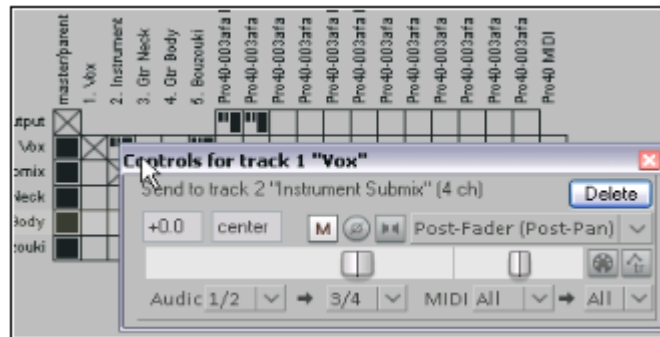
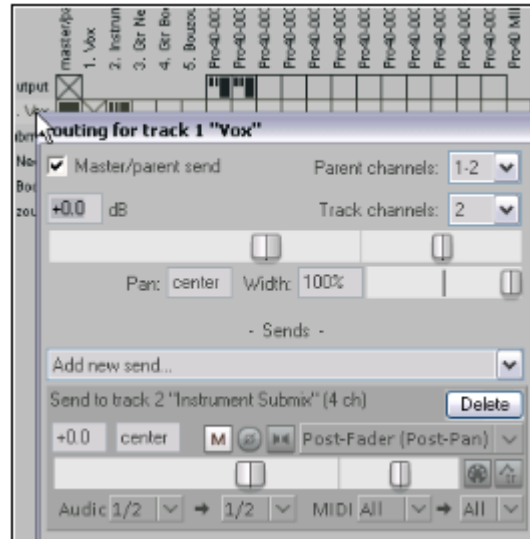
Tip: Sends can be copied in the Routing Matrix from one track to another: if you have created a send from (say) track 1 to (say) an effects bus on (say) track 6, then to create similar sends from other tracks you simply drag and drop that send up and down the matrix column.

Note: The Routing Matrix right-click context menu can be used to limit what is shown as destinations and as sources – for example, any combination of master/parents, tracks, audio hardware outputs, MIDI hardware and MIDI channels.

There are also options to display (or not) tooltips and input activity indicators. The latter causes MIDI and audio input rows to light up in response to any input signal



N.B.: The three different send types are shown in the Routing Matrix by the symbols on the left. From top to bottom these are **Pre Fader (Post FX)**, **Post Fader (Post Pan)**, and **Pre FX**. In each case, the height of the large thick bar indicates the send volume level. The [flow charts](#) in Chapter 6 will help you to understand the differences between these.

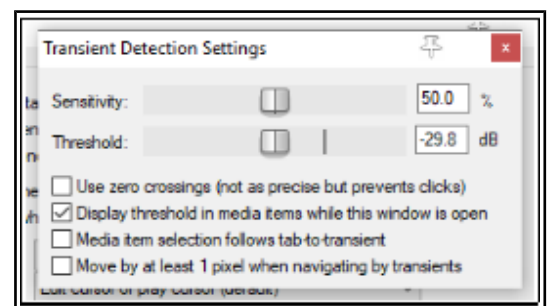
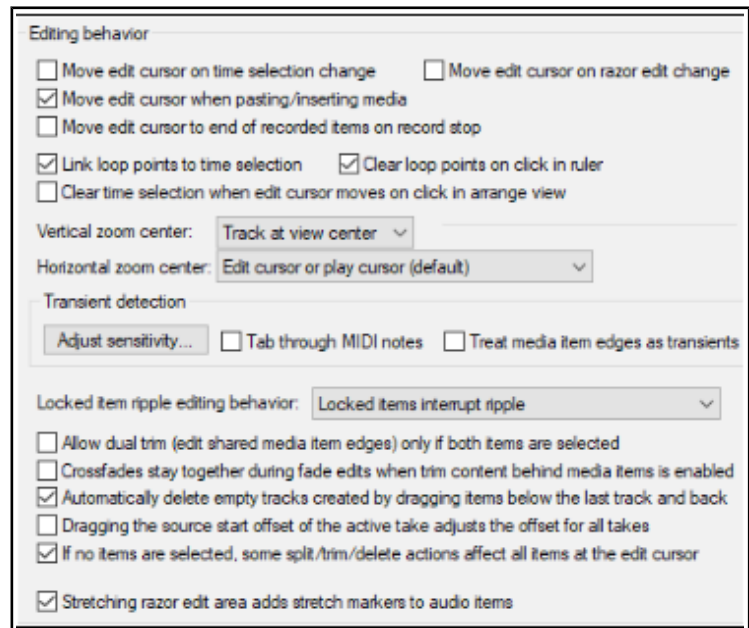


Editing Behavior Preferences

Options added to move edit cursor on edit change, move edit cursor to end of recorded items on stop.

The **Editing Behavior** page of **Options, Preferences** (shown here) includes a number of areas in which you can specify default settings in a range of matters that will affect how you work when editing your REAPER projects. Here is a summary of some of the most useful options:

- Specify your **edit cursor behavior**, in particular which of the following actions should cause the edit cursor to be moved: Changing time selection, Pasting/inserting media, and/or Stopping recording.
- Specify whether or not to **Move edit cursor on razor edit change**.
- By default link (or unlink) **time selection and loop points**.
- Enable or disable the ability for **loop points to be cleared by clicking on the ruler**, and/or **time selection to be cleared by clicking in arrange view**. For example, if you want to click on the ruler as a means of repositioning the edit cursor then you probably won't want loop points automatically cleared.
- Zoom preferences: **Vertical zoom** options are **Track at center of view**, **Top of view**, **Last selected track** or **Track under mouse cursor**. **Horizontal zoom** options are **Edit or play cursor only**, **Centre of view** or **Mouse cursor**. Choosing both mouse cursor options ensures that as you zoom whatever is under the mouse cursor will stay on screen.
- **Adjust tab sensitivity of transient detection**, both percentage sensitivity and dB threshold. Click on **Adjust sensitivity** to access the options in the **Transient detection settings** dialog (right).
- You can also specify whether to **Tab thru MIDI notes** and/or **Treat media item edges as transients**.
- How REAPER should behave when locked items are included in a ripple editing selection. Options are **Locked items interrupt ripple** (ripple edit interrupted at first locked item but can be completed by repeating the action as often as required to choose which items are ripple edited), **Locked items interrupt ripple per-track** (similar but on a per track rather than per item basis), **Locked items unaffected by ripple** (these are edited normally but other items are ripple edited), or **Locked items are affected by ripple (lock ignored)** (all items in selection are ripple edited, including locked items).
- Whether to allow **dual trim options** shared media item edges only if both items are selected.
- Whether **crossfades** should **stay together** during fade edits.
- Whether to **automatically delete empty tracks** created when dragging items below last track.
- Whether **dragging the source start offset** of the active take should adjust the offset of all takes.
- Whether to **split/trim/delete all items at edit cursor** if splitting/trimming/deleting with no items selected. Disabling this will prevent, for example, all items being split if you press **S** with no item selected.
- Whether to **add stretch markers** to audio items when stretching razor edit area.



REAPER User Guide

Main changes, version 6.76

March 2023

This document reproduces those sections of the User Guide that are either new or have important modifications.

Any minor tweaks and twiddles are not included here, but are listed on page 13 of the main document.

This update does not introduce any major new features to REAPER but does include a fair number of useful enhancements to existing features.

Minor Changes

Page 37

Section 2.8

Zooming and scrolling with the Mousewheel

Various zoom management options, such as set zoom center and max zoom level, are set in your Preferences, Editing Behavior (Chapter 22).

Also, the Actions List includes several zoom actions, e.g. to set vertical zoom according to theme defined sizes.

Page 39

Section 2.12

Using the Supplied FX Presets

You can now use Ctrl Click to build up a selection of files within the browser window.

Page 345

Section 18.10

Automation Mode Actions

Automation write action added to preserve trailing values when recording automation.

Page 397

Section 21.3

Rendering a Project

The render/dry run window can now be resized using the normal window resizing techniques.

Page 413

Section 22.3.2

Preferences, Media Item Defaults

Preference added to specify maximum limit (default 50) for fades/crossfades when splitting media items.

Page 422

Section 22.8

Preferences, Editing Behavior

Preference option added to specify maximum vertical zoom limit.

Page 424

Section 22.8.2

Preferences, Editing Behavior, Automation

Option added whether to always record to automation items and/or to record to existing non-selected automation items.

Page 428

Section 22.9.2

Preferences, Media, MIDI

Toggle option added whether to chase CC/PC when splitting MIDI item.

Page 92

Section 5.2

Alt click on the solo button of a soloed track will now toggle between solo and solo in place.

Track Control Modifiers

Mute and Solo Controls

Modifier Key	with Mute Button	with Solo Button
Shift	When more than one track is selected, only the current track is toggled.	When more than one track is selected, only the current track is toggled.
Ctrl	Clears all mutes.	Clears all solos.
Alt	Unmutes selected track(s), mutes others.	Solo selected tracks, excluding any sends.
Ctrl Alt	Mutes selected track(s), unmutes others.	Solo exclusive: Solos selected track(s), unsolos all others.
Ctrl Shift	Not applicable	Toggles <i>Solo Defeat</i> mode. The track(s) will still be heard even when another track or track selection is soloed exclusive.

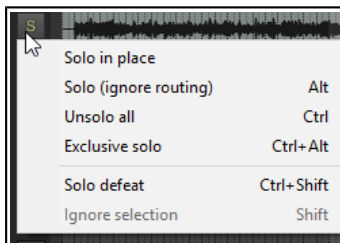
Note: When a track is muted, a small red **M** icon is shown in its VU meter. A **!S** icon indicates that the track is not being heard because another track or tracks is or are soloed.



Solo vs Solo in place

Clicking a track's **solo** button engages **solo in place**: as well as the track, the output of any sends from that track (e.g. to a reverb bus) will also be heard. **Alt click** on the solo button of an already soloed track toggles between this state and plain **solo**, when only the track will be heard, without any sends.

The Mute and Solo control context menus

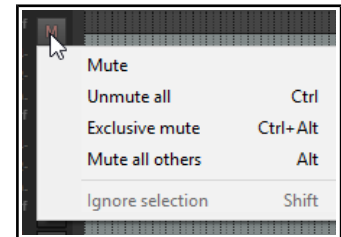


The options shown above are also available by right-clicking over the Mute and Solo buttons respectively. These context menus are shown on the right. They can be applied to an individual track or to a selection of tracks.

Bulk Track Mute/Solo

To mute or solo a range of tracks, click and drag in the TCP from the button of the first

track to the same button on the last track, then release the mouse. Repeat this action to reverse this.



Global options added to action list to chase/not chase MIDI note-on, CC, PC or pitch in project playback,

MIDI Editor Actions

Category/Group	Examples of MIDI Editor assignable actions (not comprehensive)
Note inserting/ editing/ manipulating/ moving/ transposing	<p>Color notes by velocity/channel/media item custom color/using colormap/by track custom color.</p> <p>Delete all notes/trailing notes less than [1/128 to 1/8] note in length.</p> <p>Lengthen/shorten one grid unit/one pixel.</p> <p>Make notes legato, preserving note start times/relative note spacing.</p> <p>Move notes down/up one octave/semitone (transpose)</p> <p>Move notes left/right one grid unit/one pixel.</p> <p>Invert selected/all notes, Reverse selected/all notes, Invert chord voicings.</p> <p>Edit note velocity +/- 01/10.</p> <p>Set note length to grid size/double/half, Set length for next inserted note to grid.</p> <p>Trim left/right edge of notes to edit cursor.</p> <p>Insert note [1/128 to 1] note length.</p> <p>Set note length to [1/128 to 1]</p> <p>Set note ends to start of next note.</p> <p>Set note position to edit cursor.</p> <p>Split notes on grid.</p> <p>Copy/cut/duplicate notes within time selection, Fit notes to time selection.</p> <p>Paste events into active media item regardless of source media item (<i>allows items to be copied from a selection of media items into a single media item.</i>).</p>
Loop/time selection	<p>Loop point: set start/end point. Remove loop point. Double/halve loop length.</p> <p>Set time selection to selected notes, Remove (unselect) time selection, Remove (unselect) time/loop point selection.</p> <p>Move cursor to start/end of loop/time selection.</p>
Cursor movement	<p>Cursor advance [1/128 to 1]. Cursor advance [1/32T to 1/4T].</p> <p>Move cursor left/right one measure, To start/end of current measure.</p> <p>Move edit cursor left/right by grid.</p>
Lyric events	<p>Align lyric events with notes. Import lyrics for selected notes from file.</p> <p>Insert/edit text/lyric event at first selected note.</p> <p>Select next/previous lyric event. Shift lyric events backward/forward one note.</p>
Mouse modifiers	<p>Actions are available to set mouse modifier behavior within the MIDI Editor for each of the categories CC event left drag, CC lane left drag, MIDI editor right drag, note edge left drag, note left click, note left drag, piano roll left click, piano roll left drag, ruler left click and ruler left drag. The list of actions is exhaustive.</p>
Playback	<p>Chase MIDI note-on/CC/PC/pitch in project playback (toggle).</p>
Project sync actions	<p>Timebase: sync to arrange view – <i>syncs midi editor timebase to arrange view.</i></p> <p>Timebase: toggle sync to arrange view – <i>sets sync on/off.</i></p>

Automation Items

New sub-section added, Automation item behavior.

Toolbar Envelope Button

In addition, you can right click the toolbar envelope button to access several toggle options to determine how automation items interact with underlying envelopes. These are:

Bypass underling envelope outside of automation items

Automation items do not attach to the underlying envelope

Automation items attach to the underlying envelope on right side

Automation items attach to the underlying envelope on both sides.

Automation Item Behavior

As well as managing preferences, you should familiarise yourself with a small number of rules governing automation item behaviors:

When automation items are moved they will obey your media item preferences snap start/end options.

When recording automation creates new items, smaller items will be created if they intersect with existing items.

When trim-behind is used to split automation items, your pool on split preference settings will be obeyed.

The Media Explorer

Automation Items can be managed from the [Media Explorer](#) like other media items. Simply navigate to the correct directory to preview. Right click over any item name for a menu of options for inserting into the project.

Preferences, Appearance

Page layout completely reorganised.

The **Appearance** screen lets you specify parameters to determine the look of your REAPER interface, especially the Track Control Panel and Mixer. Settings include:

- Whether to use **tooltips for UI elements** such as buttons and faders, media items and envelopes, etc.: you can specify the length of any delay that precedes the tooltip being displayed.
- Whether to use **faster text rendering** (which reduces antialiasing).
- Whether to **draw vertical text bottom up**.
- Whether to **show the last undo point on the menu bar** (just after the Help command). If you enable this option, clicking on the action shown will open the Undo History window.
- Whether to enclose **floating toolbar windows** with or without **frames**.
- Whether to **limit the scaling of toolbar buttons**. Enabling both these options will prevent the buttons from becoming smaller or larger if you resize the main or floating toolbar.
- **Number of pixels to leave between adjacent tracks** – i.e., between the bottom of one media item and the top of the one underneath it. A higher setting may make defining time selections easier.
- Whether to use **antialiased fades and envelopes**.
- Whether to **show horizontal grid lines** in automation lanes.
- Whether to use **filled automation envelopes**, including when **Drawn over media**: enabled, these color the area below the envelope.
- Whether to **Highlight the edit cursor over the last selected track**.
- Whether to **show guidelines when editing**. Toggle thru three states: on (checked), off (not checked) and on except for item move horizontal guides (filled).
- Whether to **apply solid edges** to time selection highlights. and/or **loop** highlights.
- **Play cursor width**. Default setting is 2 pixels.
- **Ruler label spacing**: length of increments used for ruler display.
- The **width (in pixels) of the play cursor**. Default is 1 pixel, but you can make this wider.
- Whether to show **grid lines** over, through, or under items.
- Show **dotted grid lines** and/or **project regions/markers in grid** and/or **time sig markers in grid**.
- Whether to show **marker lines** over, through or under items.
- Optionally, to **divide arrange view vertically by a specified number of measures**.

