# Cakewalk SONAR and TranzPort Plug-in v1.26

#### Changes from v1.24 to v1.26

New Features –described in detail later in this document:

1. New configuration dialog (under Tools Menu)

- \* added easy re-mapping of Shift & Stop key combos
- \* added ability to custom map Foot Switch
- \* set default Jog Resolution
- \* added ability to skip archived tracks
- \* presets can be saved/recalled

2. Meter has peak indicator ("|").

3. Added BIG METER mode (Shift+Stop) with peak indicator and clip indicator.

4. Track Scrolling: hold either Track button and turn wheel for faster track changes. (Note - works faster on slow machines if track inspector is turned off.)

5. Play button now toggles between play and stop (like clicking the onscreen play button).

6. Marker Scrolling: Holding down PREV or NEXT marker button and turning data wheel now "scrolls" through markers.

7. Audio scrubbing (hold Stop+Play, turn wheel).

#### **Bugs** Fixed

- Sometimes Mute/Solo/Rec LEDs would stop working on hyperthreading machines.

- 'Skip Archived Tracks' caused bus track to not work (1.2.6b3).

#### Changes from v1.2 to v1.24

- Fixes one bug to filter out TranzPort data so that TranzPort button presses won't trigger MIDI notes or be recorded onto SONAR tracks. This plug-in works with SONAR v3.1 and later.

This document assumes you have already installed the TranzPort Windows driver and have the TranzPort remote ready for operation. (If not, see the TranzPort Users Guide or Quick Start Guide for installation details.) It is based on using TranzPort v1.2.1 drivers with SONAR 4.0.2 or later, and the v1.26 SONAR control plug-in, but may apply to later versions of software as well.

# SONAR Set-up

If you chose to install the SONAR plug-in file during the TranzPort driver installation procedure then you can skip ahead to the next paragraph. If not, then you will have to run the installer again and check the option box that includes the SONAR plug-in file. See "Installing Drivers in Windows 2000/XP" in the TranzPort User's Guide. This will place the TranzPort 'Plug-in' file called **TranzPort.dll** inside the Program Files\Cakewalk\ Shared Surfaces folder where SONAR is installed on your computer. Then restart your computer.

Start SONAR and open the Options\MIDI Devices window. Enable the TranzPort MIDI port for both the Inputs and Outputs sections of the window, and then click OK. Next, open the Options\Control Surfaces window within SONAR and click the yellow "+" symbol on the right to open the pop-up menu "Control Surface Settings." Select "Frontier TranzPort" from the list, set both the In Port and Out Port settings to the TranzPort, then click OK. You can confirm your selections in the "Connected Surfaces" list then click Close if everything is correct. SONAR is now configured to operate with TranzPort. Sonar does support multiple control surfaces, and allows TranzPort to co-exist with other types of hardware controllers, however it is recommended that the TranzPort is first control device in the list.

# Operation

The TranzPort has 18 function buttons, 2 local control buttons, a data wheel, and a backlit, 2x20 character LCD display. Silk screened labels clearly indicate the basic functions of the buttons. The SHIFT and STOP buttons allow all other buttons to perform more then one function, expanding the range of control that TranzPort has over SONAR. SHIFT and STOP act as momentary buttons that are only active while being held.

When you open a SONAR project, TranzPort's LCD shows the name of the first track in your project, the track number, the track fader level, pan position, and the sequencer location. You may also have one or more status LED's lit indicating the track's solo, mute, record arm status, and loop mode status. Pressing play will cause the project to begin playback just as if you had clicked the play button on the screen. Likewise most of the buttons function just like their on-screen equivalents.

The following chart describes the normal and modified functions of each button. You will also find "SONAR Layout v1.26.pdf" on the TranzPort CDROM, which serves as a quick visual guide for the TranzPort functions with SONAR. You may want to print this document for quick reference.

**Note:** SONAR does not supply a MIDI message to light the Punch status LED. Therefore the TranzPort cannot indicate the on/off state of the Punch mode. This may become active in a future SONAR update.

**Note**: Versions of SONAR prior to v4.02 do not supply Track or Bus metering data for the TranzPort to display. The SONAR 4.0.2 update adds mono metering data which will be displayed by the track or bus currently selected for display.

# **TranzPort Button and Data Wheel Functions**

Name	Normal Function	SHIFT + Function	<b>STOP + Function</b>
REW FFWD STOP PLAY RECORD	Rewind Fast forward Stop Play Record	Return to zero Go to end Toggle Big Meter mode Toggle playback metronome on/off Toggle record metronome on/off	Modifier key Audio Scrubbing Hold and use wheel to scrub audio
PREV ADD NEXT	Go to previous marker Hold to scroll with wheel Add marker at current location Go to next marker Hold to scroll with wheel	User-defined as Shift+F1 User-defined as Shift+F2 User-defined as Shift+F3	Ctrl+Shift+F1 Ctrl+Shift+F2 Ctrl+Shift+F3
IN OUT PUNCH LOOP	Set punch in point Set punch out point Toggle punch mode (LED inactive) Toggle loop mode	Set loop in point Set loop out point Cycle through time formats Toggle level/pan selection for shifted data wheel changes	Ctrl+Shift+F4 Ctrl+Shift+F5 Ctrl+Shift+F6 Ctrl+Shift+F7
< TRACK TRACK > REC	Previous track/bus (left/down) Hold to scroll with wheel Next track/bus (right/up) Hold to scroll with wheel Toggle track's record arm on/off	Show tracks Show buses Clear all record arming	Ctrl+Shift+8 Ctrl+Shift+9 Ctrl+Shift+F10
MUTE SOLO UNDO	Toggle track's mute on/off Toggle track's solo on/off Undo last action	Clear all mutes Clear all solos Redo last undo	Ctrl+Shift+F11 Ctrl+Shift+F12
DATA WHEEL	Scroll timeline	Adjust level or pan	
FOOTSWITCH	User Definable *see below*		

🔛 Frontier TranzPort	
Presets:	0
Functions for Stop-key combinations	
T unctions for Stop-Key combinations	
Prev Ctrl-Shift-F1  Loop Ctrl-Shift-F7	<b>-</b>
Add Ctrl-Shift-F2                Process   Audio   Remove S             Process   Audio   Extract Tir	
Next Ctrl-Shift-F3 Trk Process   Audio   Gain Process   Audio   Normalize	
In Ctrl-Shift-F4  Rec Process   Audio   Remove D Process   Audio   Remove D Process   Audio   Fade/Env Process   Audio   Crossfade	/elope
Out Ctrl-Shift-F5 Mute Process   Audio   Reverse Process   Audio   Reverse Process   Apply Audio Effect	
Punch Ctrl-Shift-F6 Solo Process   Apply MIDI Effect Process   Quantize	
Functions for Shift-key combinations Process   Groove Quantize Process   Transpose	
Prev Shift Add Shift F2 Process   Slide	
Process   Nudge   Left	
Function for Foot-Switch Process   Nudge   Right 1 Process   Nudge   Left 2	
Process   Nudge   Eer 2	
Foot-Switch Transport   Record Process   Nudge   Left 3	
Process   Nudge   Right 3	
Process I Nudge I Up	
Jog Resolution Process   Nudge   Down	
C Measures  © Beats  Process   Nudge   Settings	
Process   Interpolate	
Process   Length	
Track Navigation Process   Scale Velocity	
Skip Archived Tracks     Process   Retrograde     Process   Deglitch	
Thosess Degitering	
Process   Fade Selected Cl	ips 🔤
v 1.2.6 Process   Fit to Time	

A new panel has been added to the SONAR/Tools pull down menu called "Frontier TranzPort". This panel adds several new features including:

- \* Functions for STOP-key combinations
- \* Functions for SHIFT-key Combinations
- \* Function for Foot-Switch

These settings make it easy to configure the user-definable functions of your TranzPort as well as save multiple versions of this setup. If you had previously assigned functions using the "Key Bindings" method described below then they will continue to operate using the default settings in this panel. In this case it is recommended that you save the default settings by typing "Default" into the window labeled 'Presets' at the top, and clicking on the diskette icon.

**Note** - One advantage of the previous method of using Key Bindings to program the user-definable functions is that they offer the ability to use 'contextual' binding. Contextual binding permits you to use the same button combination to control different functions depending on what window is in the foreground. Using this method you can create more then the basic 15 user-definable commands. For more detail on this see **Using Key Bindings** below.

- \* Jog Resolution allows you to select Measures, Beats, or Ticks as the resolution of the Jog wheel.
- \* Track Navigation allows you to select the option to 'Skip Archived Tracks' for faster navigation.
- \* Skip Archived Tracks when checked, the Track up and down buttons will skip over Archived tracks.

### **Track or Bus Control**

TranzPort is able to navigate the split Track/Bus architecture of SONAR. Holding SHIFT and pressing the "< TRACK" button will place the TranzPort into track mode, allowing the display, data wheel and relevant function buttons to control and display individual track parameters. Pressing the "Track <" and "Track>" buttons alone will then let you move from one track to the next. The LCD display will show the currently selected track name, track number, and fader and pan settings. Likewise, LED's for record arm, mute, and solo status will update to reflect the state of the selected track. Use the REC, MUTE, and SOLO buttons as well as the data wheel to change or edit the settings for the current track.

**New** – If the "Skip Archived Tracks" option is checked in the Frontier TranzPort tools panel then any archived tracks will not appear in the TranzPort display. This helps to streamline workflow when working with a project that contains many tracks that are completed, or that you do not need to access.

Holding SHIFT while pressing "TRACK >" will place the TranzPort into bus mode. This mode operates the same as track mode except that you can now select, and control, any of the buses in your SONAR project by pressing the "< TRACK" and "TRACK >" buttons alone. Because a Bus cannot be armed for record, the REC button is not available while in bus mode.

**New** - Track/Bus Scrolling – Holding either TRACK button down while turning the wheel will quickly scroll through all tracks or busses without the need for repeated presses. This is particularly helpful with large track counts.

Beginning with SONAR release 4.0.2 the TranzPorts' 'Clear All' functions, including Solo, Mute, and Record Arm are also affected by the Track or Bus mode selection. For example, pressing SHIFT+SOLO while in Track mode will clear all soloed Tracks only; no soloed Buses will be affected. Likewise, SHIFT+SOLO while in Bus mode will only clear soloed Buses. In earlier versions of SONAR 4 a 'Clear All' command will affect all Tracks and Buses regardless of which mode you are currently in. The TranzPort plug-in will automatically detect which version of SONAR you have installed and behave accordingly.

#### The Data Wheel

In addition to controlling display contrast, backlight level and sleep mode delay when used with the local control buttons, the data wheel performs several functions within SONAR.

- 1. Rotating the data wheel will move the "now" time along the timeline of your project. This is handy for quickly locating a point to begin playback or recording.
- 2. However, if you press and hold the SHIFT button, arrows will appear on the display around the level or pan setting of the selected track or bus. If you continue to hold SHIFT and turn the data wheel, you will now be adjusting the parameter indicated by the arrow. Pressing the LOOP button while holding SHIFT will toggle between level and pan control.
- 3. **New** Holding either TRACK navigation button down and turn the wheel you can quickly scroll through all tracks or busses.
- 4. **New** Holding either PREV or NEXT while turning the wheel will scroll through all current marker locations for fast marker navigation.
- 5. New Holding STOP and PLAY while turning the wheel will scrub audio at the current Now Time.

### Metering

**New** – Big Meter Mode – Pressing SHIFT + STOP toggles the entire TranzPort LCD display into a large calibrated meter. The current track name, number, etc. will appear on the display briefly to remind you of which track you are looking at. This will be repeated if you change tracks while in Big Meter mode. On the far right is a bar that indicates peak. This bar will turn to a box if clipping occurs and hold the clip symbol for approximately 6 seconds.

Pressing SHIFT + STOP again will return you to the normal display with a reduced level meter in the lower left of the display. A bar representing peak has also been added there however no clip indicator is available.

Note - Basic mono track level metering is provided in SONAR starting with v4.0.2. But if you have more than one control surface assigned in the Options/Control Surfaces setup panel, and they are not all turned on or connected, you may not see metering in the TranzPort display. The best way to prevent this is to make sure the TranzPort is first in the list of controllers. This should allow it to receive the meter signal from SONAR regardless of the status of other controllers.

### **Using Key Bindings**

Using the SHIFT and STOP buttons as modifier keys, you can assign any command from the SONAR Key Bindings menu to up to 15 different programmable button combinations on the TranzPort. Also, because the SONAR Key Binding options are very flexible, and allow you to make assignments based on context, a single key combination can perform more than one command based on what view is active in SONAR. This means you can customize your TranzPort with many more than 15 personal commands.

To assign commands to these buttons go to the Options/Key Bindings panel and follow these steps:

- 1. Under "Type of Keys" make sure "Computer" is selected.
- 2. In the "Key" list, select the button combination you want to program, such as Shift+F1 (SHIFT+PREV). As a shortcut you can click on "Locate Key" and press the button combination (SHIFT+PREV) to find it in the list.
- 3. Choose the Bind Context you want. Hint: Global Bindings will perform the selected function regardless of the currently active view. All other context options will create bindings for a specific view. Changing the Bind Context will also change the functions available to match the selected view. (More on this below.)
- 4. Select a function from the list of available commands and click "Bind"
- 5. Repeat steps 2 through 4 with each of the 15 programmable button combinations, or click "OK" to close the window

You can also unbind individual keys or "ZAP" (clear) all bindings for a view list, or the entire list, from this window.

To make this more flexible you can create, name, and save window layouts under the View/Layouts panel, and they will show up as available functions in the Key Bindings menu under the "Global Bindings" context. The result is that you can create combinations of window layouts and window specific functions to get the most out of your TranzPort.

As an example, you can create a window layout that has the Track View in the foreground and save that as Shift+F1 under the Global Bindings context. Then select Track View context and assign the same Shift+F1 as a function like Scrub Tool. Now Shift+F1 can fill two purposes. It will move you to the Track View if you are currently in another view, and it will select/deselect the Scrub Tool once you are there. Repeat this with other window layouts or contexts, and you can come up with any number of helpful shortcuts.

Once you have programmed the desired key-bindings in SONAR you can use them by holding the modifier key, SHIFT or STOP, and pressing the button you have programmed.

Using the SHIFT button as a modifier you can program the PREV, ADD, and NEXT buttons as 'Shift+F1' through 'Shift+F3'. Using the STOP button as a modifier you can program PREV, ADD, NEXT, IN, OUT, PUNCH, LOOP, < TRACK, TRACK >, REC, MUTE, and SOLO as 'CTRL+Shift+F1' through 'CTRL+Shift+F12'.