



**VST Wrapper™ v4.1 User Manual**  
v 4.1 © Audio Ease, [www.audioease.com](http://www.audioease.com)

**\$69.95 at [www.audioease.com](http://www.audioease.com)**

To use the VST Wrapper version 4.1 you need a Power Macintosh™ running  
Mac OS 10.2.3 (10.3.6 recommended)  
Digital Performer™ 4.11 (4.5 or higher recommended), or Audio Desk for OSX  
MOTU Audio System  
Some VST plug-ins have their own requirements regarding specific Power Macintosh™  
models and MacOS versions. Please refer to the plug-ins requirements as provided by  
its manufacturer.

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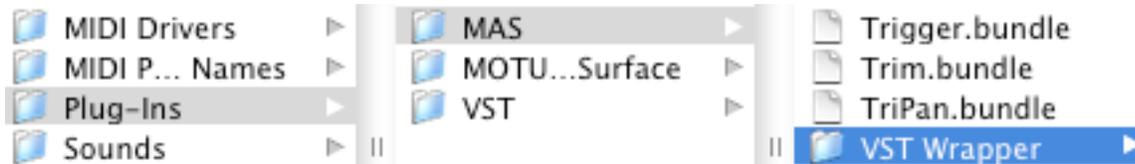
## What is VST Wrapper™ ?

The VST Wrapper™ for MAS™ enables users of Mark of the Unicorn Digital Performer 4™, to run VST™ plug-ins and VST instruments as if they were native MAS plug-ins.

## Installing and using VST Wrapper for the first time

### 1. Double click on the VST Wrapper Installer application.

The VST Wrapper is installed into { startup disk } /Library/Audio/Plug-Ins/MAS



### 2. Launch DP4.

As long as you do not purchase and authorize the VST Wrapper, you will be asked if you want to *Authorize*, or run in *Demo Mode*, which will beep every few seconds. Registration numbers can be purchased at [www.audioease.com](http://www.audioease.com) at \$69.95 each.

Upon launch of DP the folders

{ home }/Library/Audio/Plug-Ins/VST  
{ startup disk }/Library/Audio/Plug-Ins/VST

are scanned for VST plug-ins and instruments.

## Adding a VST Instrument to your song

In DP select from the Project menu : add track - Instrument Track -  
You will see all available instruments in that menu. Select the one you want.

The instrument track will show up in your mixer with the VST instrument in the first slot of the instrument track.

## The options menu

The rightmost popup menu in the VST Wrapper control bar is the options menu. The instrument below shows the complete options menu. The next section addresses each of the items in the options menu.



## VST preset and bank loading and saving.

Each VST plug-in has the ability to maintain an internal list of presets. Some, but not all, plug-in manufacturers store useful things in here that you can use as they are, or modify to your hearts content using the plug-in's controls. You can access the internal bank of presets by using the leftmost popup menu in the VST Wrapper control bar. In the picture above this popup displays 'Factory '84 001

The load/save preset options in the menu save the plug-in settings as they currently are to a file, or set all settings to values coming from a file. This file contains one single set of parameters. The bank files are different in that they contain as many presets as the plug-in has slots for, so the whole list of presets internal to the VST plug-in is saved on 'Save Bank' and replaced when a 'Load Bank' occurs. The format of the files is compatible with the VST specifications, so you can load factory presets or swap bank and preset files with users of other VST hosts.

The number of presets in a bank is particular to the plug-in: a plug-in can have as many as its developer thought necessary. For instance, a VST instrument usually has 128 preset slots that can be chosen via midi program changes as well as via the preset list described above.

Bank files always contain that particular number of presets, it's not possible to save or load partial banks.

The preset and preset bank files are in a standard VST format, so they can be exchanged between different VST host applications.

**Use Separate Window. [Although the option is still there, it's not necessary in VST Wrapper 4.1 anymore. All VST plug-ins will show in the regular plug-in window.]**

With this option you can select whether the VST plug-in is shown in the regular MAS plug-in window, beneath the VST option bar, or in a window by itself. The advantage of the 2nd option is that some VST plug-in generate graphic glitches if they're not aligned to the top of the window. These can now be handled properly. Also, plug-ins that resize their window, e.g. with expanding and collapsing keyboards, work better in separate windows. Try out your favorite plugs and see how they behave. Changing this option is not done directly; you have to close and reopen the plug-in window to see the change.

## Use Automation

You can choose whether or not you want MAS automation enabled for this particular plug-in. This is optional as some VST plugs work better with automation than others. Also, enabling automation may hamper the loading of presets from the preset menu. Enabling or disabling this option requires you to quit and launch Digital Performer or Audio Desk to activate this preference.

Both of the above settings are stored in your VST Wrapper preferences file for every plug-in you have. The preferences file is installed with a configuration for many of the plug-ins tested at Audio Ease.

## Output Settings - Using more than two outputs from a VST plug-in

The 'output settings' item is available in the options popup when a VST plug-in supports more than two outputs. The first two outputs of a VST plug-in will always be routed to the instrument track's outputs.



The output settings dialog, as shown here for Waldorf's PPG Wave lets you route optional plug-in outputs to MAS buses.

Its use is very simple: the left column shows the names of the extra outputs, the second column is a list of buses to route to. The up and down arrows scroll the buses past the outputs, effectively assigning that output to that particular bus.

## What's wrong when the VST Wrapper seems to crash my system ?

Although we have tested a lot of VST plug-ins with the VST Wrapper, Audio Ease cannot guarantee the functioning of any individual VST plug-in. It is recommended that you test your VST plug-in (demo) with the VST Wrapper in Demo Mode before purchasing either a VST plug-in or the VST Wrapper.

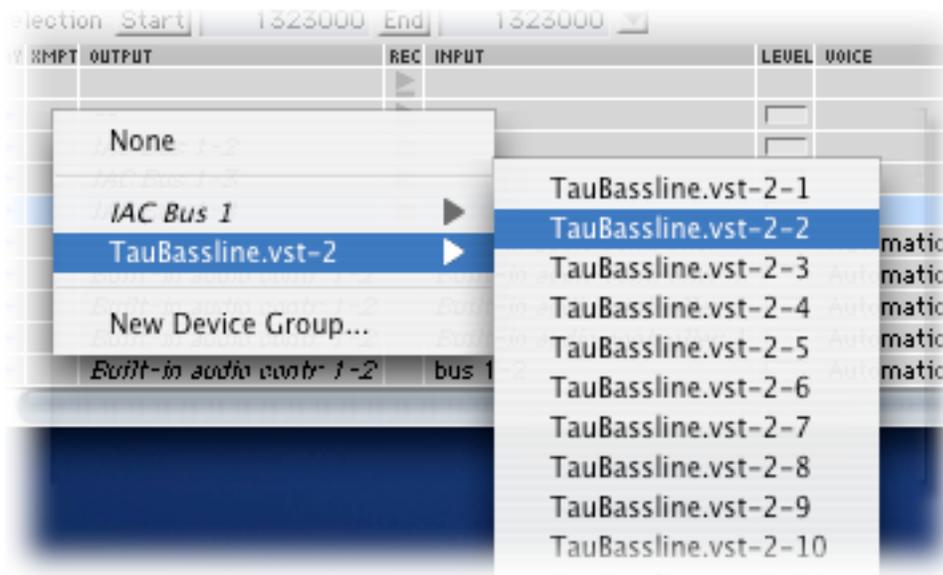
A crash can be caused by an individual VST plug-in, even at load time. We advise that you try out the VST Wrapper with a small set of VST plug-ins at first, just to rule out any crashes caused by the VST Wrapper itself. Also it is a good idea to use the latest versions of your VST plug-ins and check the plug-in's requirements, as they may be stricter than the VST Wrapper's requirements.

## What's wrong when the VST Wrapper doesn't show up at all ?

1. The VST Wrapper plug-in is not in { startup disk } /Library/Audio/Plug-Ins/MAS  
Reinstall the VST Wrapper.
2. { startup disk } /Library/Audio/Plug-Ins/VST nor { home } /Library/Audio/Plug-Ins/VST contain any VST plug-ins or instruments. Install VST Plug-ins or instruments.
3. Finally your system may not comply with the VST Wrapper system requirements. These system requirements are on the front page of this manual.

## What's wrong when my VST Instrument does not react to midi ?

Try sending your midi to channel 1, the instrument may not react to other channels at all. MIDI channels are listed in the pop up menu after the instruments name in the 'output' of a midi track.



## What's wrong when one of my plug-ins does not show up.

1. VST Instruments only show up in the first slot of an Instrument Track
2. Some plug-ins known to cause problems are not loaded by the VST Wrapper. For a list of incompatible plug-ins check out [www.audioease.com](http://www.audioease.com).

## New features in version 4.1

The 'Use separate window' option is obsolete.

Version 4.1 fixes all wayward graphics generated by some VST plug-ins. It uses a more sophisticated graphics model to do the constraints on the window area that a plug-in can draw to.

Although the option is still there, it doesn't do anything.

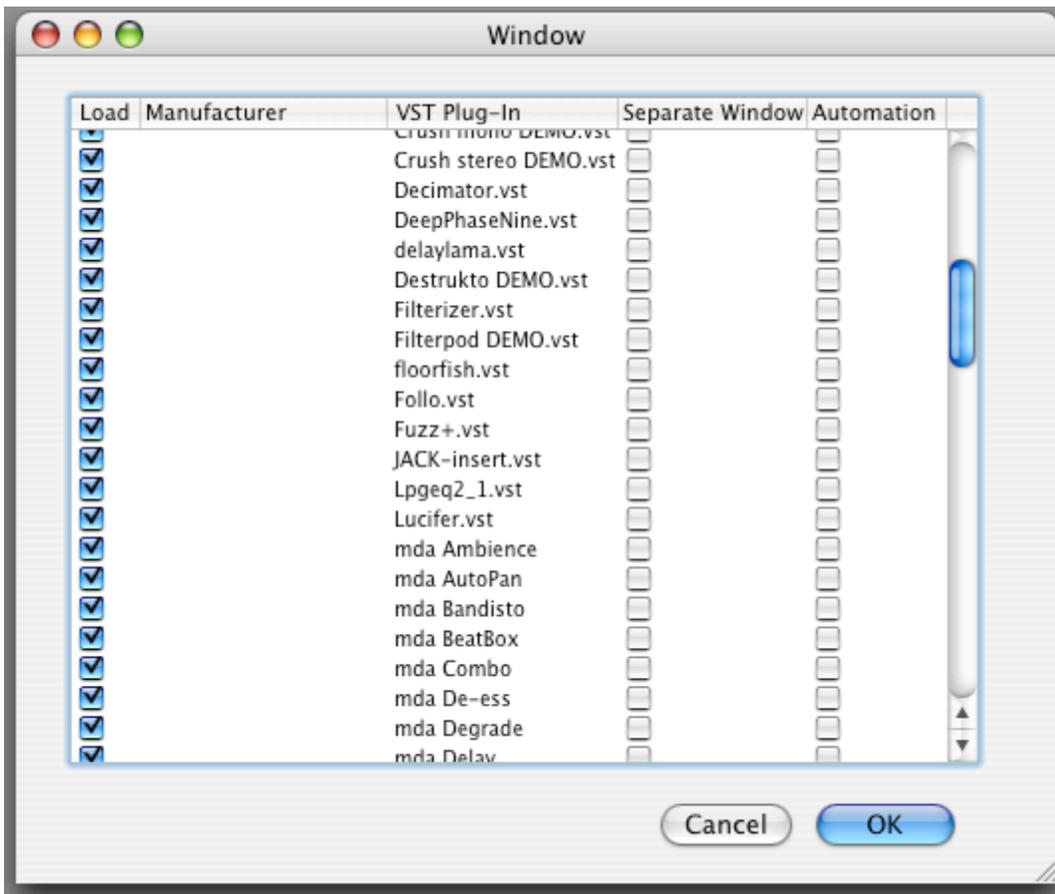
**Latency compensation in DP 4.5 and later.**

VST plug-ins that report their latency amount will benefit from DP 4.5's ability to compensate for the delay they introduce. Note, when a plug-in introducing latency is inserted in a slot, playback has to be stopped to allow DP to recompensate the scheduling.

**VST Wrapper Preference Editor.**

After installing VST Wrapper 4.1 you'll find a small application, 'VST Wrapper Preference Editor', in the folder /Applications/Audio Ease/VST Wrapper.

With this application you can set a couple of preferences per plug-in installed.



The VST Wrapper Preferences Editor lists all the VST plug-ins you have installed, and any preferences (like 'use separate window' and 'use automation') that you have set using the options menu in version 4.0.

By simply clicking the check boxes in the appropriate column, you can determine whether you want to load a plug-in at all, or if you want to use automation for it.

It is advisable to run the editor to make sure the loading process of DP goes well, even if you have plug-ins installed that are not recommended for use with the VST Wrapper.

The following is a list we found not compatible (out of 290 plug-ins tested):

- All Native Instruments Reaktor FX plug-ins (these come with Reaktor Demo, Reaktor Session and Reaktor 4; the Reaktor instruments work very well.)
- Yamaha Pitch Fix, Final Master and Vocal Track.
- Turntablist Pro
- All TC PowerCore plug-ins (the problem with these is that they are used by the TC PowerCore AU plug-ins; if both are loaded, the VST plug-ins will be redundant anyway.)
- All Universal Audio UAD-1 plug-ins: these weren't tested, but the same applies as for the PowerCore plug-ins.

Note that for the changes you make in the VST Wrapper Preferences Editor to take effect, you must quit and relaunch Digital Performer or AudioDesk.