SA9227 DSD64 and DSD128 playback on foobar2000

Description

For DSD64 and DSD128 playback on foobar2000, please refer to this AP-Note to set your system environment for SA9227.

Before these steps, please install foobar2000.

Please download these application plug-ins,

- 1. ASIOProxyInstall-0.6.0
- 2. foo-input-sacd.dll
- 3. foo_out_asio_v2p1p2.fb2k-component

<u>Step 1</u>

Double click this file to install component ASIO support (foo_out_asio_2.1.2 for foobar player)



<u>Step 2</u> Click button yes(Y) to continue



<u>Step 3</u>

Click button OK on Preference: Components and then click button OK on foobar2000 preferences to apply the change

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<u>Step 4</u>

Click this file ASIOProxyInstall-0.6.0.exe and then approve this installation



<u>Step 5</u>

Click button NEXT and then click button Install to install ASIO Proxy for foobar2000

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<u>Step 7</u>

Paste on foobar2000 installed folder (...\foobar2000\components)

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Step 8 Open foobar2000 preferences

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Preferences Ctrl+P		
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the preferences dialog.		
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Step 9

Change ASIO Driver Mode: DSD (from Tools -> SACD)

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File Edit View Playback Library	Help			
Default				
Playi Artist/album	Track no Title / track artist	Dura		
	Preferences: SACD	? 🗙		
Components - Display - Keyboard Shortcuts - Nedia Library - Networking - Playback - DSP Manager - Output - ASIO - Shell Integration - Shell Integration - Shell Integration - Shell Antegration - Shell Antegration - Shell Antegration - Advanced - Advanced	ASIO Driver Mode: PCM V PCM Volume: PCM PCM Samplerate: 44100 V DSD2PCM Mode: Multistage (Fixed-Point Preferable Area: None V Editable Tags Editable Tags Edited Master Playback	t) V Load Save		
	Reset all Reset page	OK Cancel Apply		

<u>Step 10</u>

Click button Add New to add ASIO channel mapping (from Playback -> Output -> ASIO)

Components	ASIO drivers		
Keyboard Shortcuts Media Library Networking Playback DSP Manager a Otuput	BRAVO-HD BRAVO-X foo_dsd_asio		
LASIO Shel Integration Fools SACD ▲ Tagging L freedb Tagger Advanced	Double-cick an entry to activate the driver's control panel. Use 64-bit ASIO drivers Run with high process priority Custom channel mappings BRAVO-HD -my channel mapping	Add New Edit	
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Select DSD ASIO driver: foo_dsd_asio

Preferences: ASIO	8 23	ASIO Channel Mapping Editor	
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<u>Step 11</u>

Click button Configure on ASIO Channel Mapping Editor

references: ASIO			ing cultor			
Components	ASIO drivers	Name: fo	o_dsd_asio - m	y channel mapping		
Oispiay Keyboard Shortcuts Media Library Networking	BRAVO-HD BRAVO-X Foo_dd aaio	Driver: fo	o_dsd_asio		Configure	
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ices: ASIO	ASIO drivers		ASIOCI	Name: fee ded aris	mu danagal manajag			
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Custom channel mappings anced RAVO+D - my channel mapping RAVO+D - my channel mapping Add M Edit Remo This feature allows you to configure alternate channel mappings for your ASIO-enabled soundcards. You may need to dose and re-open the foobar2000 preferences dalog for your newly added mappings to appear as output devices in the "output" page. Note: The section of the s	foo_ds Asio DSD f	d_asio v0.6.0 Driver: BRAV Nayback Method: ASIO	OK DHD Native Jative	Cancel	×			
	Reset all Reset page	OK Cancel Apply		to DSD Method: DoP M dCS M exD M	arker 0x05/0xFA arker 0xAA arker			
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<u>) 13</u> ct DSD play e three me em is set to res: ASIO	vback Method among 1.As ethods support DSD64 and asynchronous mode.	SIO Native, 2.Do d DSD128, but A	P Marl SIO Na	ker and 3. tive doesn nannel Mapping Editor Name: Too_dsd_asic	dCS Mark n't suppor	er. rt DSD12	28 whe	n the
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2 13 ct DSD play ce three mo em is set to ces: ASIO ponents May working bard Shortuts la Library working bard Shortuts la Library working bard Shortuts la Library working bard Shortuts la Library morking bard Shortuts la Library morking li Li	ASIO drivers BRAVO+D BRAVO+D BRAVO+D BRAVO+D BRAVO+D BRAVO-H	SIO Native, 2.Dc d DSD128, but A P 2 1. Add New Edit Remove ppings for your ASIO-enabled rences dialog for your newly ut page. OK Cancel Apply	P Marl SIO Na Asio Cl Chann Device BRAVE B	A cer and 3.4 tive doesn hannel Mapping Editor Name: foo_dsd_asic Driver: foo_dsd_asic el map (dick to edit) channel Form D+D_OUT_L 32-bil D+D_OUT_R 32-bil d_asio v0.6.0 Driver: FRAW Nayback Method: ASIO Do DSD Method: DopP	dCS Mark n't suppor	er. rt DSD12	28 whe	n the
o 13 ct DSD play e three mo em is set to er is set to ces: ASIO ponents la Ubrary working board Shortcuts la Ubrary more that sato Tagging freedb Tagger anced	ASIO drivers RAVO-HD RAVO-HD RAVO-HD RAVO-A foo_dsd_ssio Double-click an entry to activate the driver's control panel Use 64-bit ASIO drivers Run with high process priority Custom channel mapping RAVO-HD - my channel mapping RAVO-HD - my channel mapping This feature allows you to configure alternate channel map soundcards. You may need to dose and re-open the foobar 2000 prefer added mapping to appear as output devices in the Youtput Reset all Reset page	SIO Native, 2.Dc d DSD128, but A	P Marl SIO Na 3 Asio Cl Chann Devic BRAV BRAV	cer and 3. tive doess hannel Mapping Editor Name: foo_dsd_asic Driver: foo_dsd_asic edmap (dick to edit) adamed edmap (dick to edit) S2-bit channel Form >HD_OUT_L 32-bit >HD_OUT_R 32-bit d_asio v0.6.0 Driver: Driver: BRAW Mayback Method: ASIO GCS Method:	dCS Mark n't suppor	er. rt DSD12	28 whe	n the

*When you select to DoP or dCS, 24 bits and 32 bits should be selected on ACPL



<u>Step 14</u>

Select Device: ASIO: foo_dsd_asio-my channel mapping (from Playback -> Output)

Jonents	Device					
	E					
oard Shortcuts					 	
a Library	- ASIO : BRAVO-HD - my channel m	ning				
orking	ASIO : foo_dsd_asio - my channel	mapping		-		
CK D Managan	ASIO : BRAVO-HD					
itout	ASIO : BRAVO-A ASIO : foo dsd asio					
ASIO	DS:主要音效驅動程式					
tegration	DS:數位輸出(2-BRAVO-HD HS)	JSB Audio)				
Sec. 2 Conserve	KS : BRAVO-HD HS USB Audio	· L)				
SACD	WASAPI (event):數位輸出 (2-B	RAVO-HD HS USB Audio)	-		
rences: Output Components Diplay Keyboard Shortcuts Media Library Networking Playback -DSP Manager -D	WASAPI (event):喇叭 (High Defi WASAPI (puch): 劇位輸出 (2, BP	nition Audio 转置) AVO-HD HS LISB Audio)				
↓ OSF Manager ↓ Output ↓ ASIO Shel Integration Tools ↓ Fagging ↓ Freedb Tagger Advanced	WASAPI (push):喇叭 (High Defin	tion Audio 裝置)				
	hardware capabilities will only resul	t in degraded performa	nce.			
	Fading					
	Name	Fade in	Fade out			
Components Deplay Keyboard Shortcuts Media Library Networking Playback - OSP Manager - OSP Manager - OSP Manager - SACD - SACD - Tagging - Freedb Tagger Advanced	Pause and stop	100 ms	100 ms			
	Seek	100 ms	100 ms			
	Manual track change	100 ms	100 ms			
	Automatic track change	0 ms	0 ms			
	0					
	Fade in:					
	Fade out:					
	Reset all Reset page		OK Canc	Apply		
	The second s	100		· TEN		

<u>Step 15</u> Finish all setting

Components	Device	
Display Ceyboard Shortcuts	ASIO : foo_dsd_asio - my channel mapping	
	Buffer length	
	Reset all Reset page OK Cancel Apply	

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<u>Step 16</u> When DSD64 playback, foobar shows playback status as below	
Keith Greeninger & Dayan Kai - [Blue Coast Collection] Looking For A Home [foobar2000 v1.2.9]	
File Edit View Playback Library Help Help Help Default	
DSD64 5645 kbps 2822400 Hz stereo 0:11 / 5:53	
The Bravo-HD ACPL shows ASIO information as below	2
Device ASLO State BRAVO-HD RUNNING	
Preferred 16 bits 24 bits 32 bits Buffer size 3 m 5 ms 7 ms 10 ms 15 ms 20 ms 30 ms 50 ms 100 ms	
2 Channel, 32 bits, 176400 Hz, Buffer 10.0 ms	
When DSD128 playback, foobar shows playback status as below	
 ジ 莫文蔚-13 陰天 [foobar2000 v1.2.9] 	
File Edit View Playback Library Help Help Help Default Default	
DSD128 11290 kbps 5644800 Hz stereo 0:32 / 4:01	
The Bravo-HD ACPL shows ASIO information as below	
Device ASLO State BRAVO-HD RUNNING	
Preferred 16 bits 24 bits 32 bits Buffer size 3 m 5 ms 7 ms 10 ms 15 ms 20 ms 30 ms 50 ms 100 ms 2 Channel, 32 bits, 352800 Hz, Buffer 10.0 ms	
	8