

Using the ProTools PD-1 Session Template

The Template

This example template is supplied as an example of a simple application, once you understand how to use the PD-1 we are sure that you can me much more inventive. The template is for three 5.1 stems (Dx, Mx, Fx) that sum in the master stem (COMP). The COMP outputs feed the monitoring via the main 5.1 analogue output of the 192. The Outputs are arranged to work with an XMON, where 1=L, 3=C, 5=R, 6=Ls, 7=Rs, and 8=LFE. If your monitor setup is different, visit the I/O setup dialogue box and reorder the chiclets in the 'output' tab.

Equipment List

To use this template session, you will need:

From Digidesign:

At least one Pro Tools HD card At least one 192 Interface A SYNC I/O Machine Control option Pro Tools HD 7.2 or higher

From CB Electronics:

A PD-1 Monitoring Controller A USB-422 with appropriate 9-pin cable The driver for the USB-422 can be downloaded here: http://www.colinbroad.com/cbsoft/usbdriver.html The PD-1 Template Session can be downloaded here: http://www.colinbroad.com/cbsoft/pdsoft.html

A note on using Windows XP

If your Pro Tools HD system is running on Windows XP, you will need to renumber the COM ports as Pro Tools can only connect to Comm1 and Comm2. More information on how to do this can be found in Appendix C of the USB-422 manual, which can be downloaded here:

http://www.colinbroad.com/cbsoft/usbdriver.html

Connections

Connect the *Output* port of the PD1 to *Port A* of the USB-422 using a standard 1 to 1 9-pin cable.

Configuring Protools for use with the PD-1 Session Template

Protools Setup

1) Open the PD-1 Template Session.

Sample Rate: 48 kHz	Audio Format: BWF (.WA)	/) Session Start: 10:00:00						
Bit Depth: 24-bit		Incoming Time: 00:00:00:00						
Clock Source: SYNC I/O		Time Code Rate: 25						
System Delay:		Feet+Frames Rate: 24						
SYNC Setup & Time Coo	de Offsets							
SYNC Setup		External Time Code Offsets						
Clock Reference:	Video Reference 📑	MMC: 00:00:00						
Positional Reference:	LTC 💽	Link 🗹 – 9-Pin: 00:00:00:00						
Video Format:	PAL	Sync: 00:00:00:00						
🗆 vso 🦳 🤇	0.00 semitones.cents							
Locke	ed: 🚍 Speed Cal: 🛄							
Time Code Settings								
Generator	Freewheel	Pull Up/Down						
Using SYNC	O None	Audio Rate Pull Up/Down:						
		None						
MTC To Port:	8 frames	Video Rate Pull Up/Down:						
none	🔘 Jam Sync	None						
Time Code	e Reader Offset	samples						

2) Open the Setup > Session Setup dialogue box.

- Ensure that SYNC I/O is chosen as the Clock Source.
- Choose either PAL or NTSC as the Video Format.
- Choose Video Reference as your Clock Reference.
- Choose the appropriate *Time Code Rate*.
- Close the dialogue box.

		Peripherals		
Synchronization	Machine Control	MIDI Controllers	Ethernet Controllers	Mic Preamps
MIDI Machi	ne Control			
	Send to	ID		
🗌 Enable	none	\$ 127		
	Preroll: 90 fra	mes		
9-Pin Seria	I.			
	Port	Machine Type		
🗌 Enable	None 🛟			
p	reroll: 150 frames			
104	les Sucial Time Code	Car Basisianal Dafas		
0.	ise serial time code	For Positional Keler	ence	
0	Requires SYNC I/O U	sing Video Clock Re	ference)	
9-Pin Rem	ote			
	Port	Machine Type		
🗹 Enable	sbs0B12A	Pro Tools	🕄 🗌 Chase LTC	
		Nataroti I.C. Olivio (1		
15				
		Cc	ancel (ОК

3) Open the *Setup* > *Peripherals* **dialogue box.**

Select the Machine Control tab.

- In the 9-Pin Remote section, check the Enable box.
- Choose Port A of the USB-422 in the *Port* drop-down menu.
- Choose *Pro Tools* in the *Machine Type* drop-down menu.
- Click OK.

4) Open the Setup > Preferences dialogue box.

Select the Synchronization tab.

- Check the Allow Track Arm Commands in Local Mode checkbox.

	Pro To	ools Preferences		
Display	Operation Editing N	fixing Processing MIDI	Synchronization	
Machine Control		Remote Mode		
Machine Chases Memory Location Machine Follows Edit Insertion/Scr Machine Cues Intelligently Stop at Shuttle Speed Zero Non-Linear Transport Error Suppre Delay before Locking to Time Code:	ub ssion 0 frame:	☐ Ignore Track Arm ☐ Set Servo Lock Bi ☑ Allow Track Arm Punch In Frame Offs Punch Out Frame Of	ning t at Play (Tamura Suppor Commands in Local Mod et: fset:	t) le 0 frames 0 frames
		Delay after Play Com	mand:	0 frames
Stable LTC Source				
			Cancel	ОК

Select the Operation tab.

- Check the PEC/Direct Style Input Monitoring checkbox.
- Check that the DestructivePunch File Length is appropriate.
- Click OK.

Pro Tools P	references						
Display Operation Editing Mixing	Processing MIDI Synchronization						
Transport	Record						
Timeline Insertion Follows Playback Edit Insertion Follows Scrub/Shuttle Audio During Fast Forward/Rewind Custom Shuttle Lock Speed: Back/Forward Amount: 00:00:05:00.00 Time code Classic Classic Transport Shuttle Video QuickTime Playback Priority: Normal	Record Itach Record Enable Buttons Link Record and Play Faders Audio Track RecordLock Transport RecordLock Disable "Input" when Disarming Track (In "Stop") Mute Record-Armed Tracks while Stopped PEC/Direct Style Input Monitoring Online Options: Record Online at Time Code (or ADAT) Lock Record Online at Insertion/Selection Open-Ended Record Allocation: Use All Available Space Limit to: 60 minutes						
Avid Video Errors Stop Flayback	DestructivePunch File Length: 3 minutes						
Auto Backup	Misc						
 Enable Session File Auto Backup Keep: 10 most recent backups Backup every: 5 minutes 	Auto Region Fade In/Out Length: Calibration Reference Level: - 18 dB Delay Compensation Time Mode: Samples						

Destructive Punch

1) Enable *Options* > *Destructive Punch,* and check that the *Record* key on the transport bar shows '*dp*'.

2) Select all stem tracks.

3) Option-click (Mac) or Alt-click (Windows) on one of the stem tracks' *R* buttons to enable destructive punch recording. Ensure that all *R* buttons on selected tracks are blue.

3) Format the stem tracks by clicking on *Options > Prepare DPE Tracks*.

Solo Safe

To allow for 'solo in-place' style operation when recording 'In the Box', solo-safe the stem tracks by Command-Option-clicking (Mac) or Control-Alt-clicking (Windows) on one of the solo buttons.

See Appendix A for screen shots of the I/O Setup and operation

You are now ready for the PD-1 to read the Stem and Track Names

Configuring the PD-1 for use with the PD-1 Session Template

To read and display the track and stem names correctly the PD-1 must be set correctly. In order to do this you will need to know how to....

Navigate the Menu

To enter the menu depress [Shift] and [Assign] simultaneously, after power on the Root Menu will always be displayed, subsequent entries into the set-up will return to the last accessed menu. To exit set-up depress [Shift] and [Assign] simultaneously.

Once in the Set-up Menu the solo keys numbered 1-8 are used to select parameter values, The [Stem ^] key is used to move up the menu tree, the [Assign v] key is used to move down the menu tree. The Root menu is at the top of the menu tree, two separate menu trees can be accessed from the root menu 'Unit' and 'Serial Out' these are accessed using the the numeric keys (Solo).

Selecting the 24 Track Template from the PD-1 Menu

The easiest way to use the ProTools PD-1 session template is to select the example 24 Track template in the PD-1.

Enter the menu

Read the PD-1 Template							
Menu	Setting						
Unit > Set to Template	2= 24T Name						

Exit the Menu

On exiting the Menu the PD-1 will install the 24 Track Name Template. This will take approximately three seconds.

See Appendix B for definitions the 24 Track Template and the Factory Template

Stem and Track Names

Enter the menu

Read and Assign Track and Stem Names From ProTools								
Menu	Setting							
Unit > Track Assign	4=Auto-Stem							

Exit the Menu

After reading the stem names the display should show the following

Globa	11		Prot 24	00:00:00:										
DX	FX	MX	COMP											
70	1.11			501	7.1									

If you expand the Dialog stem (DX) by depressing [Stem] then [Solo 1] the display Will show the tracks that make up the Dialog stem as follows

DX				4	00:00:00:00							
L	R	С	LS	RS	LFE							

When displaying the tracks in a stem the stem LED is illuminated, to return to the Stem display depress the [Stem] key.

Solo Safe

Solo Safe the Comp Stem by holding the Shift key depressed and using the Solo keys

Protecting your settings

After reading the track and stem names *Unit* > *Track* Assign will be set to 2=T/S Lock

Protecting Track/Stem Assign and Solo Safe									
Menu	Setting								
Unit > Track Assign	3=SS Lock								

Using the PD-1 with the RM-6

To use the PD-1 with the RM-6 you must tell the RM-6 on which port the ProTools is connected.

RM=6 Settings when used with the PD-1									
Menu	Setting								
Ext>DAW Port for PD-1	Port to which the PD-1 is connected								

Note: Setting the DAW port will set the record enable on the selected port, changing the port will not remove the record enable.

Appendix A

					_	_		_	- 2	1/0	56	etu	p	_	_		_			_	_					_	_	
		Inpu	t	Out	put	8	Ins	ert		Bus		Mie	c Pr	ean	ips		H/V	V In	ser	t De	elay)-	_	_	_	_		
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	DX Bus		5.3	1	L	C	R	Ls	Rs	Lf							1	11										
•	FX Bus		5.3	1					1		L	С	R	Ls	Rs	Lf												
•	MX Bus		5.3	1													L	С	R	Ls	Rs	Lf						
•	COMP Bus		5.2	1			-1		1	5					-1		1						L	С	R	Ls	Rs	Lf
	New Path New Sub-Path Delete Path	er 🛊			•	Cor	ntre	oller	r Mi	eter	Pat	th:	0	<i>n</i> 1	-8				•)				C		Def	aul	•
C	Import Settings		Ex	por	t S	etti	ng	s)										C	c	an	cel	D	(C	C	ж	

Appendix B								
Template: PD-1 Configuration after leaving the menu with								
Unit > Set to Template set to 2= 24T Name								
Menu	Setting							
Unit > Stem & Track Name Format	5= Stem Track							
Unit > Stem & Track Display	3=Track & Stem							
Unit >Number of Global Groups	1=							
Unit >Number of Stems	2= 4							
Unit >Number of Tracks	3=24							
Unit >User group Contents	1= Stems only							
Unit >Record Keys	1= Record							
Unit >Link Safe to Pec/Dir keys	1=Yes							
Unit >Solo Cmd	1= Use Mute							
Unit >Solo Safe Setting	1= Internal							
Unit >Record Safe Setting	1= Internal							
Unit >panel type	1= Master							
Unit > Test/Display	1= Norm							

Template: PD-1 Configuration after leaving the menu with	
Unit > Set to Template set to 3= 241 Logical	
Menu	Setting
Unit > Stem & Track Name Format	1= Logical
Unit > Stem & Track Display	1= Track
Unit >Number of Global Groups	1=
Unit >Number of Stems	2= 4
Unit >Number of Tracks	3=24
Unit >User group Contents	1= Stems only
Unit >Record Keys	1= Record
Unit >Link Safe to Pec/Dir keys	1=Yes
Unit >Solo Cmd	1= Use Mute
Unit >Solo Safe Setting	1= Internal
Unit >Record Safe Setting	1= Internal
Unit >panel type	1= Master
Unit > Test/Display	1= Norm

ProTools Specific Configuration	
Menu	Setting
Serial Out > Stem& Track Name Request	1=Combined

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