TECHNICAL NOTE

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ref 445

Raised by: RW

Distributed to: as required

Soundtracs - Digico(UK) Ltd. unit 10 Silverglade Business Park Chessington Surrey KT9 2QL England
Tel: +44 1372 845600 Fax: +44 1372 845656 email: support@digiconsoles.com

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## SD12 - Changing worksurface Baud Rate for V1090+

In order to improve the performance of SD12 PC to worksurface communications, changes were made in the SD12 V1090+ application and the worksurface code was updated to V47.

With this combination of application and worksurface codes a change in the Baud Rate for the worksurface communications is critical for the system to function correctly.

The following notes describe how to make these Baud Rate adjustments after upgrading SD12 to V1090+

Upgrade the console software application in the normal way (refer to TN454 (Upgrading SD12 V1069-V1090).pdf.
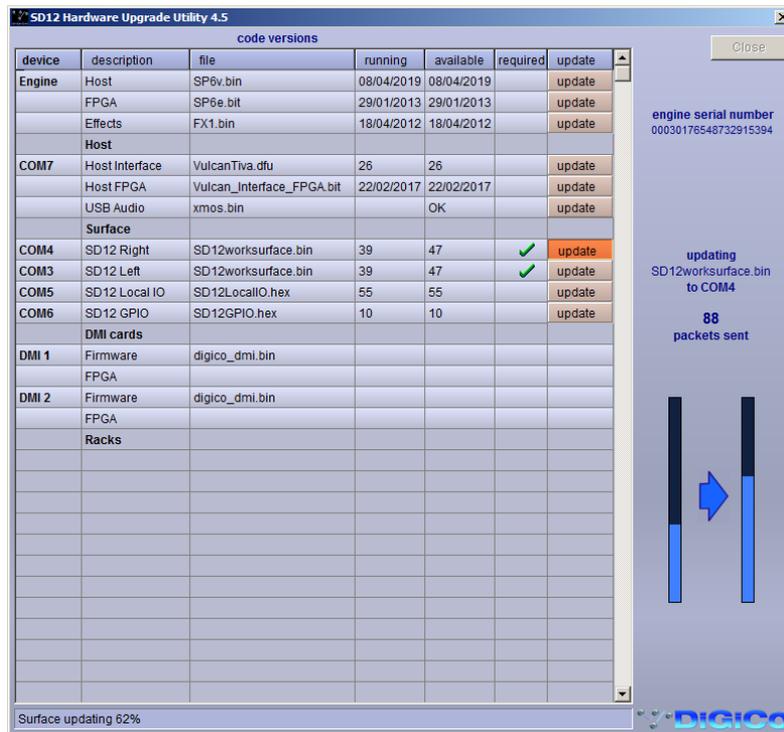
When the upgrade is complete there is an option to run the upgrade hardware application, confirm this or access the same application from the Windows Start Menu as in the image below.
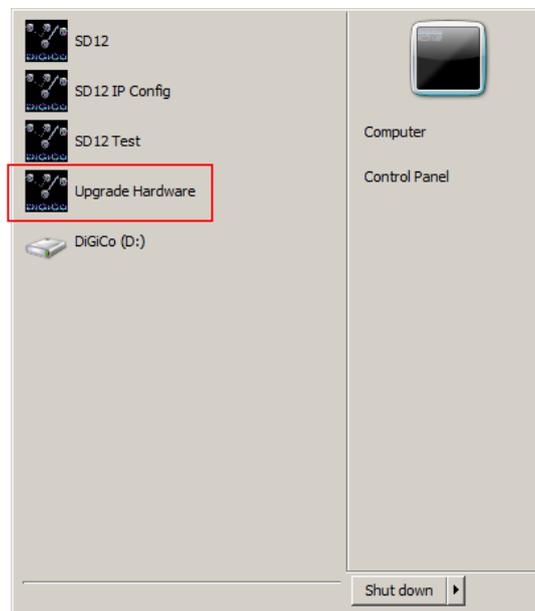
The following panel will be displayed:
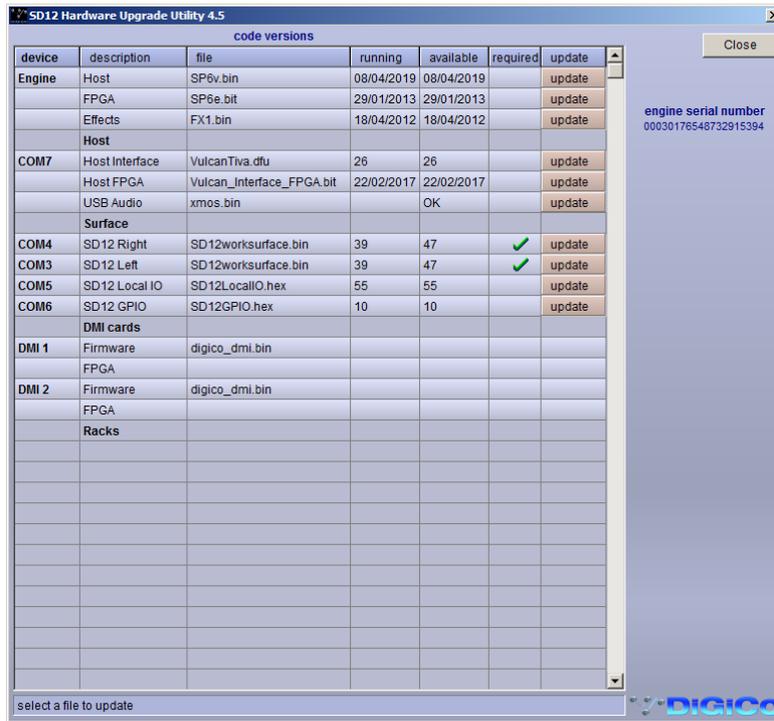
Click the "Update" button for "SD12 Right" – updating will start – wait for it to complete and then repeat the process for "SD12 Left"

When both surfaces have been updated the panel should look like this – please note that it appears to still require an update – this is just a symptom of not having completed the following part of the process involving the change of Baud rate – see next step…
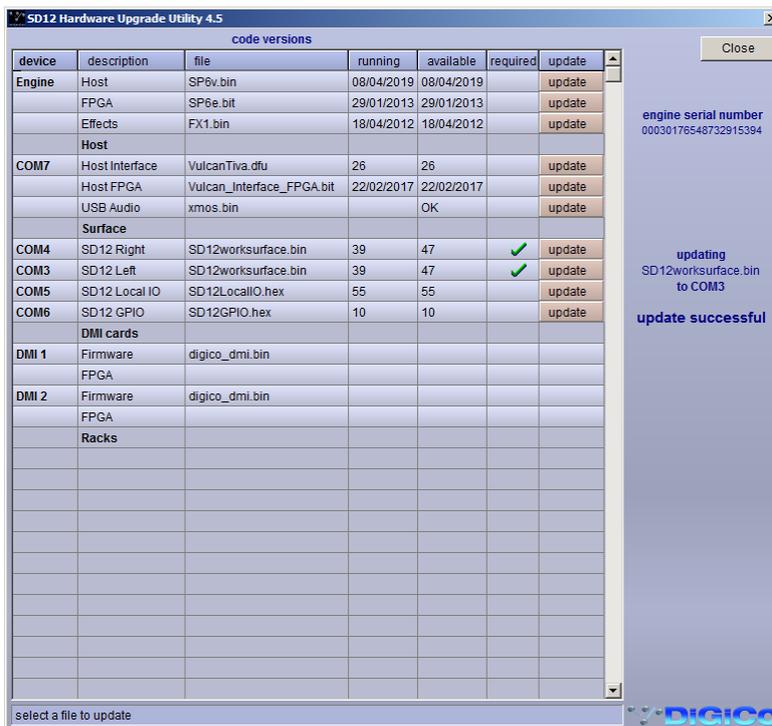
If you close and reopen the update hardware application the panel will now appear like the image below and not indicate any "Running" surface code – don't worry about this – just proceed to the next step.
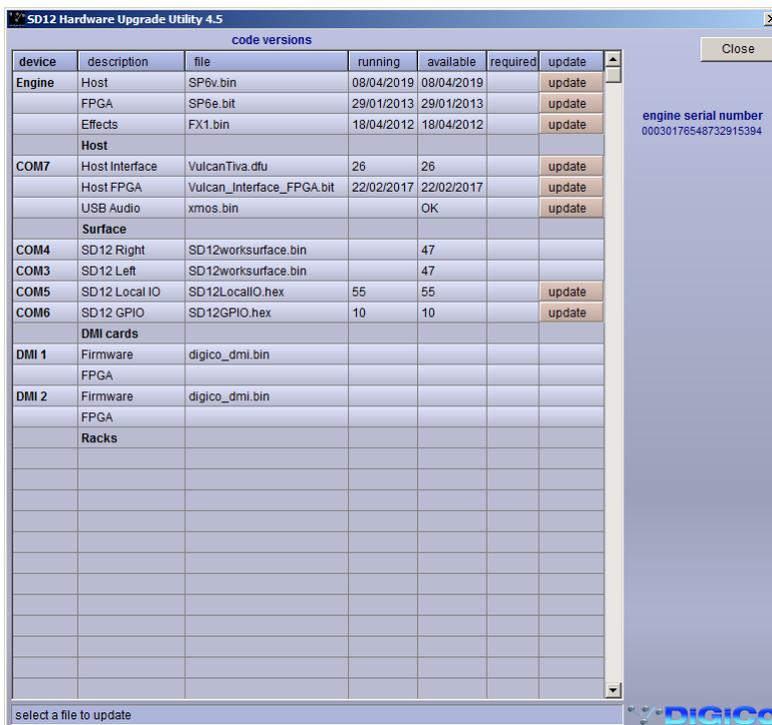
Close the Update Hardware application.

From the Windows Start Bar, run the "SD12 Test" application as in the image below:
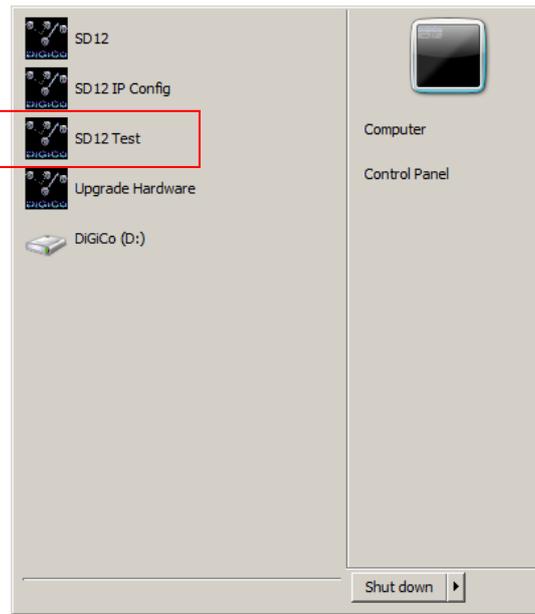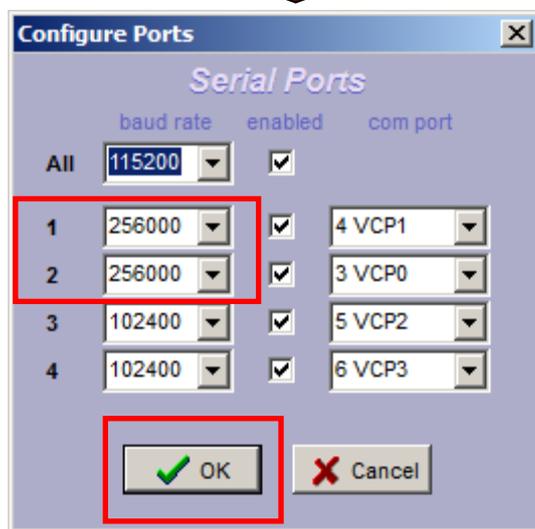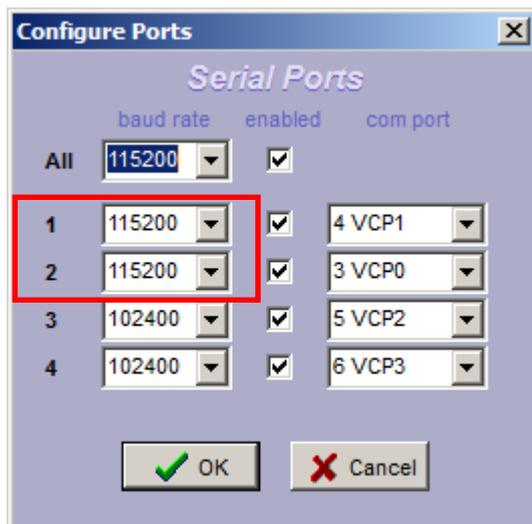

The application looks like the image below – click on the "Configure Ports" button in the top right corner of the panel.

Another panel will open as below:

The Baud Rate or Ports 1 and 2 which should be set to 115200 must be changed to 256000 by typing into the relevant text boxes and then clicking OK at the bottom of the panel.

Configure Ports

Serial Ports

	baud rate	enabled	com port
All	115200	☑	
1	115200	☑	4 VCP1
2	115200	☑	3 VCP0
3	102400	☑	5 VCP2
4	102400	☑	6 VCP3

✔ OK   ✗ Cancel

Configure Ports

Serial Ports

	baud rate	enabled	com port
All	115200	☑	
1	256000	☑	4 VCP1
2	256000	☑	3 VCP0
3	102400	☑	5 VCP2
4	102400	☑	6 VCP3

✔ OK   ✗ Cancel

Now close the "SD12 Test" application shut down the console and power cycle.
When the SD12 application is running again, open the Master screen > System > Diagnostics Console tab and check the SD12 Right and SD12 Left "code" column entries now read **47** as in the image below.

Diagnostics   CLOSE

Console | Engine | Audio I/O | Optocore | Queues | Logging

engine comms [OK] no errors   engine running
surface comms [OK]
optical comms [OK] [1] ID   sample rate 96000
                                      timecode QF 3440
midi   IN ● ● ●
        OUT ● ● ●   average temperature 29 °C

port	hardware	id	code		temp
0					
1	SD12 Right	64	47	act	30
2	SD12 Left	65	47	act	28
3	SD12 Local IO	150	55	act	
4	SD12 GPIO	134	10	act	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

PSU: A 12V 12.1 B 12V LO

Local I/O: 5V 5.0   +12V 11.9
              48V 50   -12V 12.0

console IP address
192.168.8.52
host interface IP
192.168.8.53