2802 Setup Summary

The diagram of this setup shows the Control 2802 being used in conjunction with two **Saffire Pro40s** and two **OctoPre MkII Dynamic** units in a manner that will accommodate maximum flexibility for the usage of the 2802 whilst minimising the need for repatching and changing cables on the rear of the unit.. This setup can be adjusted to work with **Liquid Saffire 56** units in place of either of the **Pro40s**.

In addition to the units themselves, relevant power supplies and cables for chosen monitoring methods (ie. Monitors connected to Main Speaker and Alt Speaker outputs of the **2802** or headphones connected to the headphone outputs of the **Pro40** or **2802**), the following cables will be required to achieve this setup:

- **4 x TRS – XLR cables**
- **16 x TRS cables**
- **3 x TRS DB25 cables**
- **4 x Optical Lightpipe cables**
- **1 x BNC cable (for clocking purposes)**
- **1 x Firewire 400-400 cable**
- **1 x Firewire 400-400 cable, 400-800 cable or 400-800 cable with Thunderbolt adapter**

This setup can function at samples of up to 48kHz – sample rates above this will restrict the number of channels transferrable between the units due to limitations of optical ADAT specification.

Syncing the setup

- Connect **Pro40 #1** to the studio computer via *Firewire 400, Firewire 800 or Thunderbolt.*

- Connect **Pro40s** in dual unit mode ie. using a *Firewire 400-400 cable* to connect Firewire port 2 of **Pro40 #1** to Firewire Port 1 of **Pro40 #2.**

- Connect the optical output of Pro40 #1 to an optical input of **OctoPre MkII D #1** using an *optical lightpipe cable.*

- Connect the optical input of Pro40 #1 to an optical output of **OctoPre MkII D #1** using an *optical lightpipe cable.*

- Connect the optical output of Pro40 #2 to an optical input of **OctoPre MkII D #2** using an *optical lightpipe cable.*

- Connect the optical input of Pro40 #2 to an optical output of **OctoPre MkII D #2** using an *optical lightpipe cable.*

- Connect the word clock output of **OctoPre MkII D #1** to the word clock input of **OctoPre MkII D #2** using a *BNC cable.*

- Set the sync source of **Pro40 #1** to ADAT in Saffire MixControl (this will automatically adjust the sync settings of **Pro40 #2**).

- Set the sync source of **OctoPre MkII D #1** to Internal.

- Set the sync source of **OctoPre MkII D #2** to Word Clock.

- Check that all units display a locked sync status.

Signal Flow

There are two notable signal paths present in the diagram; signal flowing from the DAW to the **2802** (green) and signal flowing from the **2802** to back the DAW (red). A summary and explanation of each connection present in the setup diagram follows:

- DAW Mix Stereo Input from **OctoPre MkII D #2** Outputs 5-6

Connected by *2 TRS-XLR cables*. This connection will allow a stereo mix from the DAW to be assigned to the main mix or cue/FB bus of the 2802 when the appropriate 'DAW Mix' buttons are pressed on the busses' respective control sections.

- Mix Insert Returns from **OctoPre MkII D #2** Outputs 7-8

Connected by *2 TRS cables*. This connection will allow the return from the main mix insert to be fed back in to the main mix bus. This is controlled by the IN (routes exclusively the insert return to the main mix; no dry main mix is routed to the main mix bus when this button is pressed) and SUM (sums the dry main mix with the main mix insert return) buttons on the main mix control section.

- FX Returns from **OctoPre MkII D #2** Outputs 1-4

Connected by *TRS cables*. This connection will allow the FX returns to be added to any of the 2802's 8 channels when the AUX 1 and AUX 2 knobs are turned up on the selected channels. These returns can be summed to mono using their respective MNO buttons on the FX Returns control section of the 2802 – this will also enable the pan knobs on this control section. These returns can also be assigned to the cue or main mix busses using the CUE and MIX buttons on this control section appropriately.

- Mix Insert Sends to **Pro40 #2** Inputs 5-6

Connected by *TRS cables*. This connection will allow the main mix signal to be routed to the DAW for the main mix insert on the 2802.

- Line Outputs 1-8 of **Pro40 #2** to **2802** Summing Input

Connected by a *TRS DB25 cable*. This will allow 8 channels of audio to be sent from the DAW to the 2802's summing input. This can then be routed to the main mix or cue bus using the appropriate MIX and CUE buttons on the summing input's control section. This input can also be summed to mono and panned using the MNO button and pan knob on this control section.

- Mix Output to Inputs 7-8 of **Pro40 #2**

Connected *by 2 TRS-XLR cables*. This connection allows the output of the main mix bus to be fed back in to the DAW.

- DAW Inputs to **2802** from **Pro40 #1** Line Outputs 1-8

Connected by a *TRS DB25 cable*. This connection will allow 8 channels to be sent from the DAW to the 8 channel strips of the 2802. The inputs from this connection can individually be activated on their respective channels using the 'DAW' button on each channel – this will override the selected channel's mic and line input.

- Line Outputs 1-8 of **OctoPre MkII D #1** to Line Inputs of **2802**

Connected by *8 TRS cables*. This will allow 8 channels to be sent from the DAW to the line inputs of the 2802 feeding the 2802's channel strips. This connection can be activated using the LINE button at the top of each channel strip.

- Direct Outputs of **2802** to Line Inputs of **OctoPre MkII D #1**

Connected by a *TRS DB25 cable*. This connection will allow 8 channels to be sent from the 2802 to the DAW as points in the channel strip that vary according to the setting of the direct out buttons on each channel (this is explained with a diagram on each channel).