

## GPI connecting Inputs to Shared Process

### Request

2 Stereo (AES) inputs should alternatively be patched to a shared "Stereo to Mono" process. The selection is controlled by a GPI input.

### Solution

The GPI assigns the 2 targets (inputs of shared process "stereo to mono") to particular VMC input sources. Inactive and active value correspond to the 2 alternative inputs.

[RMT\_VMC] defines the shared process  
 ....  
 VMC\_STEREO\_TO\_MONO\_1=4/1002/1      4 = shared process; 1002 = Stereo to Mono; 1= number of process

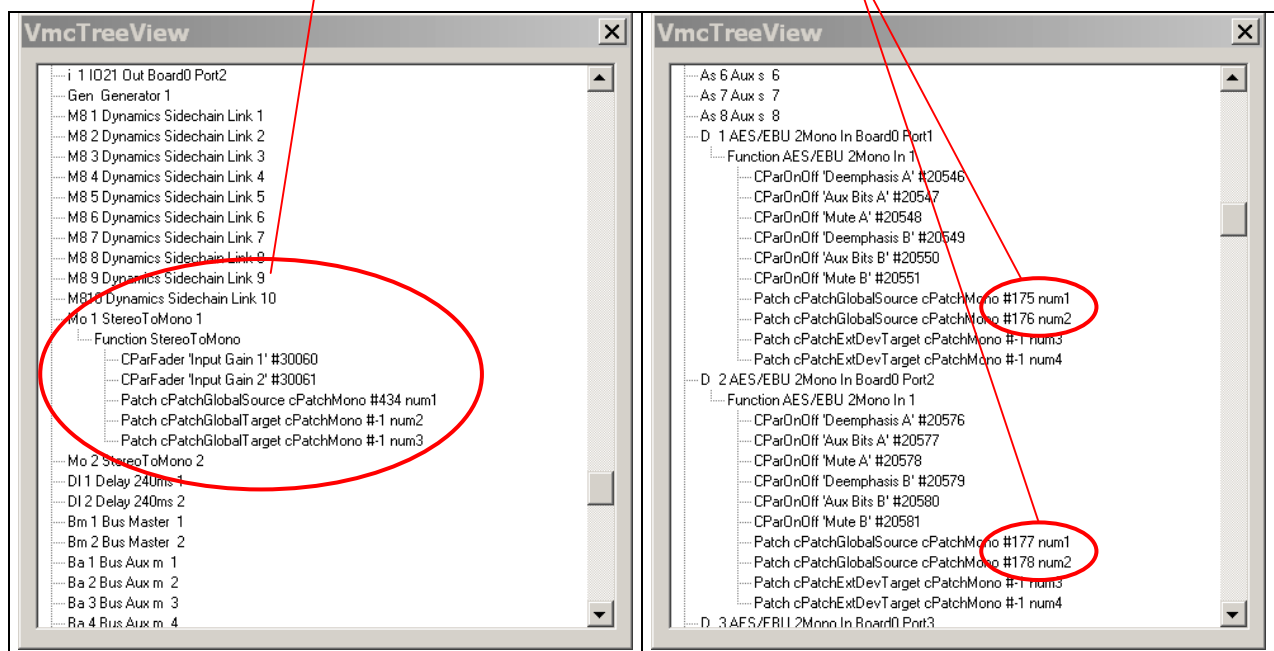
[CID\_FID] assigns opto input to patch settings (2 patches, for left and right channel)  
 ....  
 CID\_SIGIN1\_OPTO22=FID\_VMC\_PATCH\_1/FID\_VMC\_PATCH\_2/TYPE\_UPDOWN

[RMT\_FID\_AID\_DID] identifies function, including patch id parameter (see also vmc tree below)  
 ....  
 FID\_VMC\_PATCH\_1=VMC\_STEREO\_TO\_MONO\_1/1/StereoToMono:GlobalTarget[0]:connect/0:177/0:175  
 FID\_VMC\_PATCH\_2=VMC\_STEREO\_TO\_MONO\_1/1/StereoToMono:GlobalTarget[1]:connect/0:178/0:176

VMC\_STEREO\_TO\_MONO\_1  
 1  
 StereoToMono  
 GlobalTarget[0]  
 connect 0:177/0:175

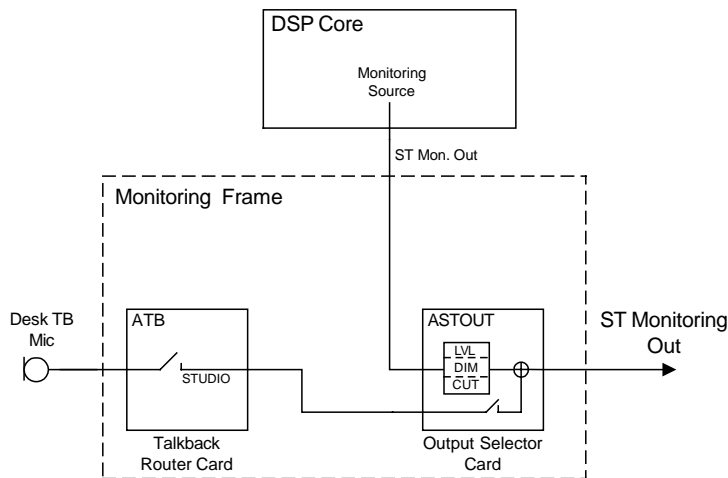
is defined in [RMT\_VMC] : first shared process "stereo to mono"  
 Desk Control Group  
 function (unique string)  
 parameter (1<sup>st</sup> of 2 in this example)  
 patch value : active source patch / inactive source patch

patch id's need to be entered according to AES input which need to be switched



## Analog Processing of Studio Talkback

The analog talkback routing was standard until D950 release V3.1. The Talkback signal is added to the monitoring signal path on the Output Selector Card in the monitoring frame (see block diagram below)



Features and drawbacks of analog talkback routing :

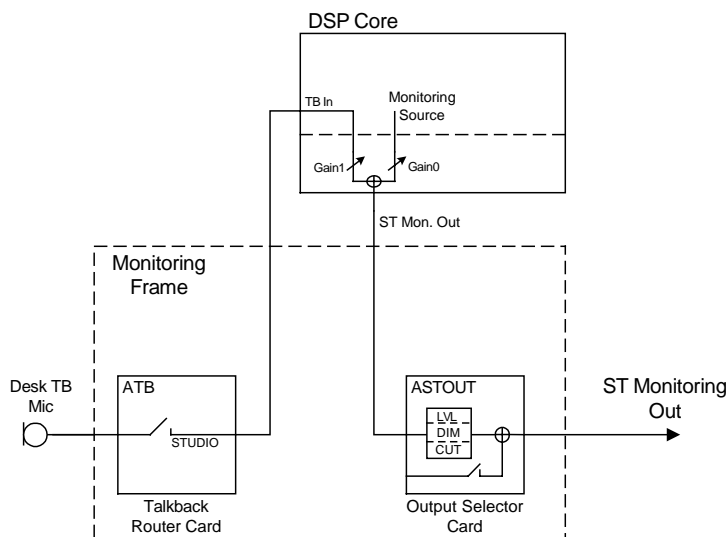
- Level, Cut and Dim functions of Studio monitoring path are applied to the studio monitoring signal only, which is provided by the DSP output. The talkback signal is fed in on a separate path.
- Talkback is sent to studio even if main signal is CUT (e.g. when RED LIGHT condition is valid)
- DIM function only affects selected monitoring signal, talkback level remains unchanged.

The talkback path is selected by using the following FID's in the monitoring/signaling file :

- FID\_TB0\_SEND1\_STUDIO      TB0 = Multi Desk Group 0, selects path in ATB
- FID\_ST\_OUT\_TB              ST = Chanel Name, selects path in ASTOUT

## Digital Processing of Studio Talkback

Since version 3.2, the talkback path is processed in the DSP as default. The output of the DSP already includes the added talkback information (see block diagram below)



Features and drawbacks of DSP talkback routing :

- Level, Cut and Dim functions of Studio monitoring path are applied to the sum of studio monitoring signal and talkback signal.
- TB signal volume cannot be controlled independantly

The Studio Monitoring DSP output signal is controlled by gain0 (monitoring source) and gain1 (talkback)

TB inactive :	gain0 = 0dB
	gain1 = -96dB
TB active	gain0 = -20dB
	gain1 = 0dB

The talkback path is selected by using the following FID's in the monitoring/signaling file :

- FID\_TB0\_SEND1\_INT      TB0 = Multi Desk Group 0, selects path in ATB
- FID\_TB0\_TB\_STUDIO1 or      selects DSP functionality
- FID\_TB0\_TB\_STUDIO2

**Please note:** For making use of the DSP talkback functionality, V3.2 and the modification in the monitoring file is required (new monitoring template). When upgrading systems without adaption of the monitoring file, the system will go on working with the analog talkback processing.