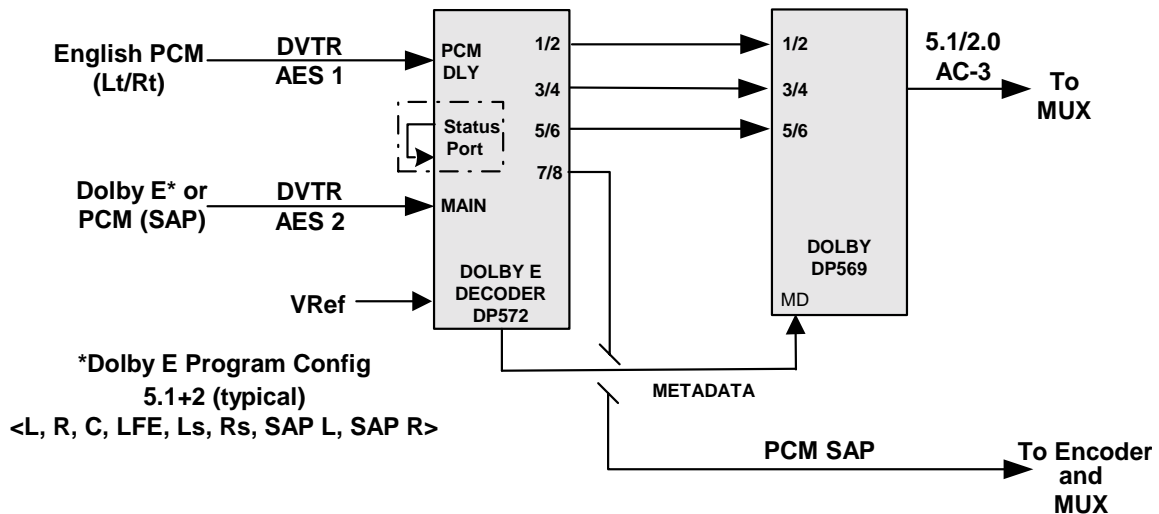


DP572 and DP569 Configuration for Legacy Tape Format Compatibility

For DP569 software v1.22 and higher,
For DP572 software v1.05 and higher

This document describes the setup and configuration of Dolby DP572 and DP569 products intended for use in maintaining legacy (non-Dolby E) tape format compatibility, in facilities that broadcast using both Dolby E and non-Dolby E encoded programming.



DP572 and DP569 Setup/Connections

This application uses **Switched Out** mode in the DP572 to feed a PCM (non-Dolby E) signal present on the PCM Delay input (from DVTR AES pair 1), to DP572 Outputs 1/2, while continuing to pass the PCM (non-Dolby E) signal present on the Main input (from DVTR AES pair 2), of the DP572 to Outputs 3-8 (i.e., AES pairs 2-4).

Legacy Tape Track Configuration

Audio tracks 1/2 (DVTR AES1) = English Lt/Rt
Audio tracks 3/4 (DVTR AES2) = SAP or Silence

Dolby E Tape Track Configuration

Audio tracks 1/2 (DVTR AES1) = English Lt/Rt
Audio tracks 3/4 (DVTR AES2) = Dolby E data
Dolby E Program Configuration = 5.1+2

Dolby E Decoder Output Channel Assignments:

AES 1/2	AES 3/4	AES 5/6	AES 7/8
5.1-Channel Program			Two-Channel SAP
Left/Right	Center/LFE	Left Surr./Right Surr	Left SAP/Right SAP

Note: The default behavior of the DP572 (i.e., without the use of **switched out** mode as described in this document) will bypass PCM (non-Dolby E) signals present on the main input to all outputs simultaneously!

DP572 Dolby E Decoder Setup & Check

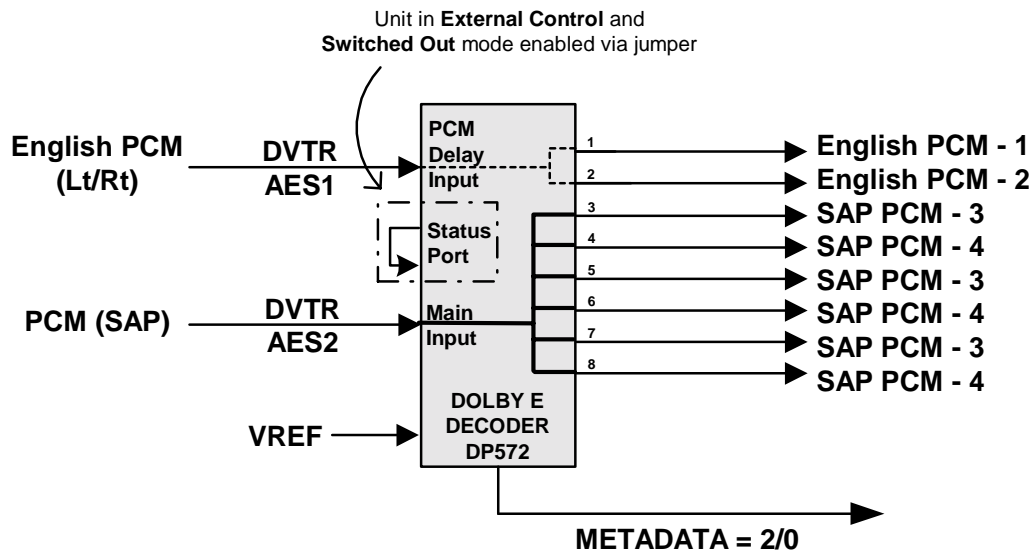
1. Enable PCM Bypass Mode on DP572
(via menu selection: Setup/Operating Mode/PCM Bypass)
2. Enable External Control Mode on DP572
(via menu selection: Setup/PCM Chan. Config/Output Routing)
3. Disable Program Play Mode on DP572
(via menu selection: Setup/Operating Mode/Program Play)
4. Disable 48 kHz Pull Down Mode on DP572
(via menu selection: Setup/Operating Mode/48 kHz Pull Down)
5. Enable Bypass Metadata on DP572
(via menu selection: Setup/Operating Mode/Bypass Metadata)
6. Set Bypass Latency to 1 Frame on DP572
(via menu selection: Setup/Operating Mode/Bypass Latency)
7. Attach jumper wire on DP572 Status Port from Pin 1 to Pin 8
8. Attach a male DB9-to-male DB9 cable, wired straight through (pin to pin), from the Metadata connector on the rear panel of the DP572 to the AUX data connector on the rear panel of the DP569.

DP572 Behavior

When the Main input on the DP572 detects a PCM (non-Dolby E) stream, the DP572 will revert to PCM **Bypass** mode and, simultaneously, the unit will be signaled (via the jumper on the status port) to enter **Switched Out** mode.

Switched Out mode allows the PCM audio present on the PCM Delay input connector to be passed to outputs 1/2 only (AES pair 1). Metadata will indicate 2/0 in this mode. See the diagram below.

The PCM (non-Dolby E) signal present at the DP572 Main Input while operating in **Switched Out** mode is passed to outputs 3–8 (AES pairs 2–4). Note the DP569 will ignore any signals present on channels 3–6 (AES pairs 2 and 3) due to the metadata indication of 2/0. See the diagram below.



**DP572 Switched Out Mode Behavior
with Non-Dolby E (i.e., "Legacy") Tapes**
Channels 1/2 (AES1) = English PCM
Channels 3/4 (AES2) = SAP PCM

Latency Specifics

The DP572 latency while operating in **Switched Out** mode is ~ 10.41 microseconds (i.e., from the PCM Delay input to outputs 1/2, AES pair 1). See the diagram above.

However, as noted above, the latency from the main input on the DP572 to outputs 3–8 (AES pair 2–4) remains at ONE VIDEO FRAME!

DP569 Dolby Digital (AC-3) Encoder Setup & Check:

Menu steps for DP569 software versions are shown below each item.

1. Set Data Rate = 384kbs <if applicable>
v1.22 = Setup/Audio Service/Data Rate
v2.0 = Setup/Metadata Params/Data Rate
2. Set Input Channel Mapping = L/R C/LFE Ls/Rs
v1.22 = Setup/IOControl/Input Channels
v2.0 = Setup/IOControl/Input Channels
3. Set Clock Source = Digital Input <if applicable>
v1.22 = Setup/IOControl/Clock Source
v2.0 = Setup/IOControl/Clock Source
4. Set Output Format = Pro 32-bit
v1.22 = Setup/IOControl/Output Format
v2.0 = Setup/IOControl/Output Format/Output Mode
5. Set Metadata Source = Program 1 <if applicable>
v1.22 = Setup/Metadata Control/Metadata Source
v2.0 = Setup/Metadata Control/Metadata Source
6. Set Metadata Reversion Mode = Last Used <if applicable>
v1.22 = Setup/Metadata Control/Reversion Mode
v2.0 = Setup/Metadata Control/Reversion Mode
7. Save these settings as a **Preset**
v1.22 = Setup/Encoder Control/Save Preset
v2.0 = Setup/User Presets/Save Preset