## **Using the Sony MVS8000 Protocol Extensions**

The normal MVS8000 protocol uses eight "Tally Enables", which can be assigned to any switcher destination in the Sony MVS8000 Engineering Setup menus.

The MVS8000 protocol Extension allows switcher destinations to be tallied directly, similarly to the tally of a GV4000 or Kalypso switcher. The destinations available under the protocol extension are:

Primary Group	PP Group	ME1 Group	ME2 Group	ME3 Group
PP	PPBKGDA	ME1BKGDA	ME2BKGDA	ME3BKGDA
ME1	PPBKGDB	ME1BKGDB	ME2BKGDB	ME3BKGDB
ME2	PPK1FILL	ME1K1FILL	ME2K1FILL	ME3K1FILL
ME3	PPK1SRC	ME1K1SRC	ME2K1SRC	ME3K1SRC
AUX1	PPK2FILL	ME1K2FILL	ME2K2FILL	ME3K2FILL
AUX2	PPK2SRC	ME1K2SRC	ME2K2SRC	ME3K2SRC
AUX3	PPK3FILL	ME1K3FILL	ME2K3FILL	ME3K3FILL
AUX4	PPK3SRC	ME1K3SRC	ME2K3SRC	ME3K3SRC
AUX5	PPK4FILL	ME1K4FILL	ME2K4FILL	ME3K4FILL
AUX6	PPK4SRC	ME1K4SRC	ME2K4SRC	ME3K4SRC
AUX7	PPUTIL1	ME1UTIL1	ME2UTIL1	ME3UTIL1
AUX8				
AUX9				
AUX10				
AUX11				
AUX12				
AUX13				
AUX14				
AUX15				
EPVW				
FM1				
FM2				

Each of the first four destinations are permanently routed to all of the buses in one of the groups in columns 2 through 5.

The extended MVS8000 protocol provides no means of determining the contribution of each of the P/P and M/E sub-buses to the on-air tally. For this reason it is recommended that tally be developed directly from destinations other that the first four, and that on-air tally and next -to-air tally be generated using one of the eight Tally Enables rather than using the protocol extension. In particular the protocol extension is most useful for generated Aux-bus tally.

The inputs reported by the MVS8000 protocol extension *are not the same as the inputs reported by the Tally Enable protocol*. The Tally Enable protocol reports all 128 primary and internal inputs. The protocol extension reports a subset of 64 inputs, and the reported numeric value of these inputs necessarily differs from the value of the same inputs reported by the Tally Enable protocol.

For this reason the inputs reported by the protocol extension are reported with input names "E1", "E2", "E3" etc. rather than the usual "1", "2", "3', to distinguish them from the inputs reported by the Tally Enable protocol. The two sets of inputs then need to be married using virtual inputs and resource interconnects. For example:

Source	End #1	End #2
DA::CAM01	SWR::1	SWR::E4
DA::CAM02	SWR::1	SWR::E5
DA::CAM03	SWR::1	SWR::E6

To determine the inputs reported under the MVS8000 protocol extension:

- 1. Create a test UMD with control string XPT(SWR::AUX1)
- 2. On the MVS8000 switcher aux panel, select AUX1.
- 3. Punch up each of the aux bus inputs and take note of the "Ex" number reported by the test display. These values can then be used to create the switcher input interconnect table.

## Sending Names to the Switcher

It is possible to send input names to be displayed on the switcher input buttons:

- 1. Create a resource item with an "N" -prefixed name e.g. N1, N2, etc.
- 2. Program the name or a short control expression into either the long or short name (long name recommended). The other name (short or long) must be left blank.

For example, programming an input N1 with resource item long name TSX(RTR::001[1],A) would allow the button name on the switcher to track the router input selecting on router output 001[1].

## **Getting Names from the Switcher**

It is possible to extract names for the extension protocol inputs ("E1", "E2" etc.), however the Sony switcher currently appears to ignore the requests for these, which causes receive timeouts and disrupts the proper operation of the interface. Until this issue is sorted out with Sony, the names extraction function is by default disabled in the extension protocol interface. The names extraction function can be enabled with the following global message:

\_SYSVAR\_COMM\_PARAMETER=<port-1>,MVS8000: NameRx=on