## Image Video Tally System Crosspoint Logging Utility

The crosspoint logging utility now available for TSI-1000 and TSI-3000 tally systems allows any crosspoint status known to the tally system to be output to a TCP/IP stream for collection and processing by external applications or spreadsheets. The logging utility becomes available as a firmware upgrade to a TSI-1000 or TSI-3000.

Each log entry consists of starting newline character, a real-time stamp and a message comprising the name of a source or destination which has just changed state. In some case both the name of new-selected source and the name of the selecting destination will be provided.

Example test output from existing system:

12/17/2012	6:07:50.54	Destination RTR OUT 1	Source CAM-01 selected
12/17/2012	6:07:51.46	Destination RTR OUT 3	Source CAM-02 selected
12/17/2012	6:07:51.46	Destination RTR OUT 4	Source CAM-03 selected
12/17/2012	6:07:52.10	Destination RTR OUT 2	Source CAM-03 selected
12/17/2012	6:07:53.24	Destination RTR OUT 1	Source CAM-02 selected
12/17/2012	6:07:54.35	Destination RTR OUT 3	Source CAM-03 selected
12/17/2012	6:07:54.73	Destination RTR OUT 4	Source RTR-IN-04 selected
12/17/2012	6:07:55.36	Destination RTR OUT 1	Source CAM-03 selected
12/17/2012	6:07:55.99	Destination RTR OUT 2	Source RTR-IN-04 selected
12/17/2012	6:09:18.78	Destination RTR OUT 3	Source CAM-03 selected
12/17/2012	6:09:19.60	Destination RTR OUT 1	Source CAM-01 selected
12/17/2012	6:09:19.84	Destination RTR OUT 4	Source RTR-IN-04 selected

Fields of the logger output are tab-delimited to expedite spreadsheet processing of the output.

The logger can be programmed to monitor:

Sources selected by a given router destination Sources selected by a given mixer (e.g. production switcher program or preset bus) On-air status of a fixed source GPI input states Other special log entry types are available as requested or by end-user programming of Tally System Console 2 Monitoring Styles.

Logger output programming formats are the product of monitoring styles created in Tally System Console 2. As such the logger output can be flexibly re-programmed. For example for computer processing of the log it may be desirable to eliminate humanfriendly text such as "Destination" and "Source" and leave only the raw logged information. Additional options for controlling timestamp formats, newline variations and other styling modes are being developed into the product. We are open to user input for additional features that may be useful.

The current logger utility requires an external TCP/IP server to receive the log information. This can be a TCP/IP server programmed by the customer. The current logger utility that is has the TCP/IP server built into the TSI will be available in the next TSI-3000 release - in this case the external log receiver will be a TCP/IP client (e.g. Windows Hyperterminal). The external TCP/IP server is recommended for redundant TSI-3000 systems.

Each TSI-1000 or TSI-3000 can be locked to a time code signal for accurate time-stamping. The TSI-3000 will read a play speed (x1 speed) SMPTE or EBU format linear time code signal. The TSI-3000 can also be programmed to read SMPTE 309M or Leitch format date information from the time code user bits. Logger setup: Setting up the logger is similar to setting up a UMD system. A Logger port specifying the server IP address is entered into the tally system configuration.

Tally System Console 2 - LOGGE	R-T¥-Globo.tc2							
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Hardware UMDs GPIS COMM Port Setup - Displays								
Comm Port Setup     Production & M/C Switchers	More Colum	More Columns (0.0) >						
Routers     Displays	Port Name	TSI Tally Controller	Protocol	Group Name	IP Address			
	LOGGER	TSI-243	Image Video Tally Logger (TSI is TCP/IP Client)	-	192.168.0.54			
	UMD-A	TSI-243 💌	Image Video RDU-1500 Tri-color display (serial)	<u>.</u>	0.0.0.0			
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For each kind of record to be logged a display is created, and assigned a Monitoring Style and a source or destination to be monitored.

Tally System Console 2 - LOGGE	R-T¥-Globo.tc2							
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GPIs UD and Signals Plan 🖌 🕨								
Signal Paths	Displa	Display Devices (UMDs)						
<ul> <li>Source Definitions</li> </ul>					- 16			
·· CAM-01	More Colu	nns (1/2) >			60 J. E 40	7		
··· CAM-02								
··· CAM-03	Device	Device Port	Serial	Monitoring Style		Description	Live Display	
Input Definitions	Dest 01	LOGGER	4	Logger Log Source on Destination	-	Log destination RTR 1	Destination RTR OUT 1 source RTR IN-04 selected	
Destination Definitions	Dest-01	LOGOLIN ·		Logger. Log Source on Destination	<u> </u>	Log destination (Chi-	Destination KTK OOT I Source KTK-IN-04 Selected	
· · PCR1-PGM	Dest-02	LOGGER	2	Logger: Log Source on Destination	-	Log destination RTR-2	Destination RTR OUT 2 source RTR-IN-04 selected	
· · PCR1-PST	Dest-03	LOGGER	3	Logger: Log Source on Destination	-	Log destination RTR-3	Destination RTR OUT 3 source RTR-IN-04 selected	
·· RTR-1	Deer 04	LOGGER 💌	4	Logger: Log Source on Destination	-	Log destination RTR-4	Destination RTR OUT 4 source CAM-02 selected	
· · RTR-2	Mixer-01a	LOGGER	5	Logger: Log 1st source on Mixer output	-	Log destination PCR1	Destination OUTPGMA source selected	
·· RTR-3	Mixer-01b	LOGGER	6	Logger: Log 2nd source on Mixer output	-	Log destination PCR1	Destination OUTPGMA source selected	
·· RTR-4	Mixer-01c	LOGGER	7	Logger: Log 3rd source on Mixer output	-	Log destination PCR1	Destination OUTPGMA source selected	
SWR - Input Names	Mixer-01d	LOGGER -	8	Logger: Log 4th source on Mixer output	-	Log destination PCR1	Destination OUTPGMA source selected	
+ SWR - Output Names	Mixer-01e	LOGGER -	9	Logger: Log Source on-air state	-	Log on-air state of so	Source CAM-01Now off air	
RTR - Input Names						-		
RTR - Output Names		· ·						

To dump out the current log click File > Save As in the log receiver application and save the log file to the desired location.

File Options				
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