Tally System Console 2 Overview

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## Tally System Console 2 Overview

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## **Differences From Original Tally System Console**

- Uses tabular format rather than dialog boxes for configuration editing
- Connects over IP rather than serially
- Drag & drop interface for easy assignment of signals to UMDs and GPIs
- Pre-selectable control styles to avoid user editing of tally control language

### Overview

| 🔚 Tally System Console 2 (?   | ** BETA **) - TV2-61.> | ml                 |          |         | _ 🗆 🗙        |
|-------------------------------|------------------------|--------------------|----------|---------|--------------|
| Eile Edit View Expressions    | Management Help        |                    |          |         |              |
| Hardware UMDs 1/0 and Signals |                        |                    |          |         |              |
| TSI1000 Systems               | Display Devi           | ces (UND)          |          |         |              |
| Comm Port Setup               | LIMD Device Name       | Device Port        | ID /     | Section | Monitoring C |
| Switcher or Houter Devices    |                        | Devicer oit        | Serial # | #       | Monitoling 5 |
|                               | SRU-1                  | MVP                | 201      | 1       | DESTSTAT     |
| Lontroi Panels                | SRC-2                  | MVP                | 202      | 1       | DEST STAT    |
|                               | SRC-3                  | MVP                | 203      | 1 💌     | DEST STAT    |
|                               | SRC-4                  | MVP                | - 204    | 1 💌     | DEST STAT    |
|                               | SRC-5                  | MVP                | 205      | 1 💌     | DEST STAT    |
|                               | SRC-6                  | MVP                | 206      | 1 💌     | DEST STAT    |
|                               | SRC-7                  | MVP                | ▼ 207    | 1       | DEST STAT    |
|                               | SRC-8                  | - M <sup>Y</sup> P | (20) R   | 1 💌     | DEST STAT    |
|                               | SRC-9                  | MVP                | • 209    | 1 🔽     | DEST STAT    |
|                               | SRC-10                 |                    | - 210    | 1 💌     | DEST STAT    |
|                               | SRC-11                 |                    | - 12H    | 1       | DEST STAT    |
|                               | SRC-12                 | MVP                | - 212    | 1 💌     | DEST STAT    |
|                               | SRC-13                 | MVP                | - 213    | 1 💌     | DEST STAT    |
|                               | SRC-14                 | MVP                | - 214    | 1 💌     | DEST STAT    |
|                               | SRC-15                 | MVP                | - 215    | 1 💌     | DEST STAT    |
|                               | SRC-16                 | MVP                | - 216    | 1       | DEST STAT    |
|                               | SRC-17                 | MVP                | • 217    | 1       | DEST STAT    |
|                               | SRC-18                 | MVP                | - 218    | 1       | DEST STAT    |
|                               | SRC-19                 | MVP                | - 219    | 1 -     | DEST STAT    |
|                               | SRC-20                 | MVP                | - 220    | 1       | DEST STAT    |
|                               | SRC-21                 | MVP                | - 221    | 1       | DEST STAT    |
|                               | lege m                 | 1000               | -1       | 1       | DECT CTAT    |
|                               |                        |                    |          |         |              |
|                               |                        |                    |          |         | .:           |

- Left pane of console is a menu tree
- Right pane of console is the editing area
- Menu tree has two purposes
  - Allows selection of editor type
  - o Allows drag and drop of various tally system elements into the editor
- Menu tree tabs are used to select various types of menu trees.

| 🖶 Tally System Console 2 🛛 T                   | ]        | 🔚 Tally System Console 2 -                 |
|--|----------|--|
| <u>Eile E</u> dit <u>V</u> iew Expressions №   | <b>`</b> | <u>E</u> ile <u>E</u> dit ⊻iew Expressions |
| Hardware UMDs 1/0 and Signals I                | 1        | Hardware UMDs 1/0 and Signals              |
| TSI1000 Systems                                |          | TSI1000 Systems                            |
| ⊕ mm Port Setup                                |          | TSIA                                       |
| <ul> <li>Switcher or Router Devices</li> </ul> |          | TSIB                                       |
| GPI Outputs                                    |          |  |
| Control Panels                                 |          | E Switcher or Router Devices               |
| I I  |          | GPI Outputs                                |
| I I  |          | Control Panels                             |

Clicking on the plus and minus buttons in menu tree will open or collapse the tree structure, revealing further configuration details for each menu type.

| Eile Edit View Expressions                     | TV2-6<br>Manage | inent Help |                |               |  |
|--|-----------------|------------|----------------|---------------|--|
| Hardware UMDs 1/0 and Signals                  | ТЗ              | 11000 Sy   | stems          |               |  |
| Comm Port Setup     Switcher or Router Devices | Active          | TSI Name   | Interface<br># | IP Address    |  |
| GPI Outputs                                    |                 | TSIA       | 2              | 192.168.48.16 |  |
| Control Panels                                 |                 | TSIB       | 2              | 192.168.48.17 |  |
|  |                 |            |                |               |  |
|  |                 |            |                | de.           |  |

Clicking on a title bar within the menu tree area selects a different type of editor into the edit area. Clicking a tab selects a different menu tree.

| 🔚 Tally System Console 2 - T                   | V2-61.  | xml       |                |               |  |
|--|---------|-----------|----------------|---------------|--|
| <u>Eile E</u> dit ⊻iew Expressions M           | anageme | nt Help   |                |               |  |
| Hardware UMDs 70 and Signals G                 | TS      | 311000 Sy | /stems         |               |  |
| Source Definitions     Destination Definitions | Active  | TSI Name  | Interface<br># | IP Address    |  |
|  |         | TSIA      | 2              | 192.168.48.16 |  |
| SWR - Output Names                             |         | TSIB      | 2              | 192.168.48.17 |  |
| ■ RTV2 Level 1 · Input Names                   |         |           | 1              |               |  |
| RTV2 Level 1 - Output Names                    |         |           |                |               |  |
| RTV2 Level 2 - Input Names                     |         |           |                |               |  |
| ■ RTV2 Level 2 - Output Names                  |         |           |                |               |  |
| TEXT - Input Names                             |         |           |                |               |  |
| TEXT - Output Names                            |         |           |                |               |  |

| 🔚 Tally System Console 2 - TV     | '2-61.xml      |           |               |
|-----------------------------------|----------------|-----------|---------------|
| Eiledit ⊻iew Expressions Ma       | nagement Help  |           |               |
| UMDs 1/0 and Signals GPI Inputs F |                |           |               |
| 🗉 Signal Paths                    | ISI1000 S      | ystems    |               |
| E Source Definitions              |                | Interface | 126.0         |
| ⊕ Destination Definitions         | Active TSIName | #         | IP Address    |
| E SWR - Input Names               | TSIA           | 2         | 192.168.48.16 |
| . SWR - Output Names              | TSIB           | 2         | 192.168.48.17 |
| ■ RTV2 Level 1 · Input Names      |                |           |               |
| ■ RTV2 Level 1 · Output Names     |                |           |               |
| RTV2 Level 2 · Input Names        |                |           |               |
| ■ RTV2 Level 2 · Output Names     |                |           |               |
|                                   |                |           |               |
| TEXT - Output Names               |                |           |               |

Clicking one of the arrow controls to the right of the tabs selects more tabs.

| C  | Display Dev     | ices (UN  | /ID)       |          |               |
|----|-----------------|-----------|------------|----------|---------------|
|    | UMD Device Name | Section # | Tally Area | Location | Raw Control 🔶 |
|    | SRC-1           | 1 💌       | •          | VIP 💌    |               |
|    | SRC-2           | 1         | •          | VIP 💌    |               |
|    | SRC-3           | 1 💌       | •          | VIP 💌    |               |
|    | SRC-4           | 1 💌       | •          | VIP 🗾    |               |
|    | SRC-5           | 1 💌       | •          | VIP 💌    |               |
|    | SBC-6           | 1 💌       | <b>•</b>   | VIP 💌    |               |
|    | A 7-7           | 1 💌       | <b>•</b>   | VIP 💌    |               |
|    | SRC             | 1 💌       | •          | VIP 💌    |               |
|    | SRC-9           | 1 💌       | <b>•</b>   | VIP 💌    |               |
|    | SRC-10          | 1 💌       | <b>•</b>   | VIP 💌    |               |
| ÷. | SRC-11          | 1 💌       | •          | VIP 💌    |               |
|    | SRC-12          | 1 💌       | <b>•</b>   | VIP 💌    |               |
|    | SRC-13          | 1 💌       | •          | MVP 💌    |               |
|    | SRC-14          | 1         | •          | MVP 💌    |               |
|    | SRC-15          | 1 💌       | •          | MVP 💌    |               |
|    | eonie           | 1         | _          | MM/D     |               |

In some editors, clicking on the vertical control bar at the left edge of the editor allows different sets of columns to be selected.

| ٦                      | Display Devices (UMD) |             |   |                  |           |                    |  |  |
|------------------------|-----------------------|-------------|---|------------------|-----------|--------------------|--|--|
| Π                      | UMD Device Name       | Device Port |   | ID / Serial<br># | Section # | Monitoring Style 🔶 |  |  |
|                        | SRC-1                 | MVP         | • | 201              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | SRC-2                 | MVP         | • | 202              | 1 💌       | DEST STATUS 🔄      |  |  |
|                        | SRC-3                 | MVP         | • | 203              | 1 💌       | DEST STATUS 🔄      |  |  |
|                        | SRC-4                 | MVP         | • | 204              | 1 💌       | DEST STATUS 🔄      |  |  |
|                        | SRC-5                 | MVP         | • | 205              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | SRC-6                 | MVP .       | • | 206              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | ▲ \$-7                | MVP         | • | 207              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | SRC-3                 | MVP         | • | 208              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | SRC-9                 | MVP         | • | 209              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | SRC-10                | MVP         | • | 210              | 1 💌       | DEST STATUS 📃      |  |  |
| $\left  \right\rangle$ | SRC-11                | MVP         | • | 211              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | SRC-12                | MVP         | • | 212              | 1 💌       | DEST STATUS 🔄      |  |  |
|                        | SRC-13                | MVP         | • | 213              | 1 💌       | DEST STATUS 📃      |  |  |
|                        | SRC-14                | MVP         | • | 214              | 1 💌       | DEST STATUS        |  |  |
|                        | SRC-15                | MVP         | • | 215              | 1 💌       | DEST STATUS        |  |  |
|                        | SRC-16                | MVP         | • | 216              | 1 💌       | DEST STATUS        |  |  |
|                        | SRC-17                | MVP         | • | 217              | 1 💌       | DEST STATUS 💽      |  |  |

To go online with the active TSI1000 tally interface units, click File > "Connect to TSI1000 System(s)". Individual changes made of configuration are sent immediately in this mode.

| File Edit View Expressions I | Management Help |             |
|------------------------------|-----------------|-------------|
| New<br>Open                  | isplay D        | evices      |
| Import                       | JMD Device Name | Device Port |
| Save TV2-61.xml Ctr          | +S RC-1         | MVP         |
| Save TV2-61.xml As           | RC-2            | MVP         |
| Export                       | RC-3            | MVP         |
| Connect to TSI System(s)     | RC-4            | MVP         |
| Update TSI Configuration Ctr | + RC-5          | MVP         |
| Exit                         | RC-6            | MVP         |
|                              | TI SRC-7        | MVP         |
|                              | SRC-8           | MVP         |

To send the entire configuration to the active TSI1000(s) click File > "Update TSI Configuration, or simply press Ctrl-U. The entire configuration will be sent to the active TSI1000(s).

| File Edit View Expressions | Management Help |        |
|----------------------------|-----------------|--------|
| New<br>Open                | isplay [        | Device |
| Import                     | JMD Device Name | Device |
| Save TV2-61.xml            | Ctrl+S RC-1     | MVP    |
| Save TV2-61.xml As         | RC-2            | MVP    |
| Export                     | RC-3            | MVP    |
| Connect to TSI System(s)   | RC-4            | MVP    |
| Update TSI Configuration   | Ctrl+U RC-5     | MVP    |
| Exit                       | RC-6            | MVP    |
|                            | SRC-7           | MVP    |
|                            | SRC-8           | MVP    |

Connection to the TSI1000s is opened automatically if "Connect to TSI1000 System(s)" was not previously selected.

| PGM D  | isplay             | Devices     | (UM   | D)      |                  |     |  |         |
|--------|--------------------|-------------|-------|---------|------------------|-----|--|---------|
| 8596   | UND Device<br>Name | Device Port | ID /  | Section | Nonitoring Style |     | Monitoring Description   | Text 6- |
| R\$98  | SRC-1              | M/P         | 201   | 1       | DEST STATUS      |     | Destination MON107: Show 4 digit state of so   | -       |
| #S99   | SRC-2              | MVP.        | 202   | 1       | DEST STATUS      |     | Destination VZ FIS70: Sh Soft name of  |         |
| R\$100 | SRC-3              | M/P         | 203   | 1       | DEST STATUS      | 100 | Destination TV2/RS71: Show 4-b, sense of   |         |
| 15101  | SRC-4              | M/P         | 204   | 1 5     | DEST PTATUS      | -   | Destination TV2-RS72 Show 4-digit name of  | 1       |
|        | SRC-5              | M/P         | 205   | 1       | DEST STATUS      |     | Destination TV2/RS73, Show 4-digit name of   |         |
|        | BC-6               | M/P         | 206   |         | DEST STATUS      | -   | Destination TV2-R574 Show 4-digit name of  | - 8     |
|        | SRC-7              | M/P         | 120   | 1       | DEST STATUS      |     | Destination TV2/R57, Show 4-digit name of s  | -3      |
|        | SPC-8              | ME          | 208   | 1       | DEST STATUS      | -   | Destination 1V2/RSB Show 4-disk name of a  |         |
|        | BC-9               | MP          | 209   | 1       | DEST STATUS      |     | Destination TV2-BS9: Show #-digit name of a  | 1       |
|        | SFE TO             | MP 1        | 210   | 1       | DEST STATUS      | +   | Destination 1V2 (8510, Show 4-dial name of   |         |
|        | BC-11              | MP .        | 211   | 1       | DEST STATUS      | -   | Destination TV2 ES11: Show 4-dial name of  | -       |
| • I al | BC-12              | M/P .       | 212   | 1 1     | DEST STATUS      |     | Destination TV2-BS12 Show E-diatination of   |         |
|        | BC-13              | MUP I       | 213   | 1       | DEST STATUS      |     | Destination 197,8513 Show 4 digit same of  |         |
|        | BC.14              | M/P         | 214   | 1 1     | DEST STATUS      | 141 | Destination TV2-8518 Show 4-dat pares of   | -       |
|        | SBC-15             | MAP 1       | 215   | 1 5     | DEST STATUS      | -   | Destroying TV2-8515 Show Edge arrend   |         |
|        | BC16               | MP 4        | 1 715 | 1 1     | DEST STATUS      | -   | Destruction 107.8516 Share Adapt name of   |         |
|        | BC-17              | MAP .       | 217   | 1       | DEST STATUS      | -   | Dectination 7/2/8517 Show (whit name of  |         |
|        | BC-18              | MP 1        | 718   | 1       | DEST STATUS      | -   | Destantion TV2-8518 Share E-dist some of   |         |
|        | BC.19              | MP .        | 219   | 1       | DEST STATUS      |     | Destination TU2.8519 Show Adhit same of  |         |
|        | PC-20              | 160         | 1 220 | 1       | DEST STATUS      | -   | Devices TV2.0530 Show Lider serve of   |         |
|        | EPC 31             | 1012        | 1 220 | 1 1     | DEST STATUS      |     | Destroiter 1/2 H522 Show Edge I deal esteroid  |         |
|        | BC.22              | MAR 1       | 229   | 1       | DEST STATUS      |     | Destination TV2/8523 Show 4-digit half come of   |         |
|        | 200.20             | 100         | 1 222 | 1       | DEGT STATUS      | 100 | Particular TV2029 Chau Lided   |         |
|        | inc at             | 100         | 1 774 |         | Dest STATUS      | -   | Designation reactions and the data and   |         |
| 25 1 2 | 4                  | and C.      | 1     |         | Lear alvirus     | -   | Construction of the state of th | -       |

Drag and drop of various tally system elements such as router and switcher I/O, GPI inputs and control styles onto UMD, GPI outputs and Output Controls allows tally output devices to be easily reprogrammed.

# Display Devices (UMD)

| UMD Device Name | Device Port             | ID /<br>Serial # | Section<br># | Monitoring Style |
|-----------------|-------------------------|------------------|--------------|------------------|
| SRC-1           | MVP                     | 201              | 1 💌          | DEST STATUS      |
| SRC-2           | MVP                     | 202              | 1            | DEST STATUS      |
| SRC-3           | MVP                     | 203              | 1 💌          | DEST STATUS      |
| SRC-4           | Command Window          | -                |              | 🗵 US             |
| SRC-5           | Command Window          |                  |              | US               |
| SRC-6           | Enter in command below: |                  |              | US               |
| SRC-7           |                         |                  |              | US               |
| SRC-8           | SBC01.50                |                  |              | US               |
| SRC-9           |                         |                  |              | US               |
| SRC-10          |                         |                  | i i          | , US             |
| SRC-11          | _                       | <del></del>      | <u> </u>     | Cancel US        |
| SRC-12          | MVP                     | 212              | 1            | DEST STATUS      |
| SRC-13          | MVP                     | 213              | 1 💌          | DEST STATUS      |
| SRC-14          | MVP                     | 214              | 1 💌          | DEST STATUS      |
| SRC-15          | MVP                     | 215              | 1 💌          | DEST STATUS      |

When it is necessary to enter a series number of names with a category-number format into a column, pressing **F1** allows a series of names to be built and entered with a few keystrokes. For example typing SRC01-50 into the command window and pressing Enter will automatically enter the name SRC01, SRC02, SRC03, ... SRC50 into the cursored column. Other possible entry patterns are:

CAM1-10 CAM01-10 (uses leading zero in number) SRC2,4,6,8 SRC1A,B,C,D

Another method of making quick data entries is through the use of **Ctrl-Enter**. Pressing Ctrl-Enter in an editor column, depending on the context can either (a) copy the entry from the row above and increment the ending number or letter by one or (b) copy the dropdown selection from cell in the row above and enter into the cursored cell.

To create a new line in the middle of an editor, press Ctrl-Insert.

## **Menu Structure**

#### Hardware Tab

| TSI1000 Systems | The TSI1000s defined here appear in other dialog boxes in order to assign hardware to each TSI1000.   |
|-----------------|---|
| Active Checkbox | Selects which TSI1000s will be sent a copy of the configuration.  |
| TSI Name        | User name for TSI1000, can be freely chosen, and is not referenced elsewhere in configuration.  |
| Interface #     | Each element of the tally system configuration, and each TSI1000, is associated with an interface number. The interface number determines which TSI1000 will accept and host the configuration element. For example a particular UMD associated with interface number 2 will be hosted by whichever TSI1000 is programmed with interface 2. |
| IP Address      | IP address of the TSI1000.  |
| Network Name    | Reserved for future applications.   |

| Comm Port Setup    | Assign physical communications ports for hardware connected to   |
|--------------------|--|
| for Production     | TSI1000(s)   |
| Switchers, Routers |  |
| and Displays       |  |
| Port Name          | Name of port, in various device setups to assign the appropriate |
|                    | port to the device.  |
| TSI1000 System     | Name of the TSI1000 hosting the port.                            |
| Protocol           | Communications protocol used on the port.                        |

| Comm Port Setup | Parallel interface units may be either serially-interfaced Model  |
|-----------------|---|
| for Parallel    | 4211 units, IP-interface TXI-series units, or RCP-series control  |
| Interface ports | panels.   |
| Port Name       | Name of port, in various device setups to assign the appropriate  |
|                 | port to the device.   |
| TSI1000 System  | Name of the TSI1000 hosting the port.                             |
| Туре            | Model 4211 GPI unit, TXI series GPI unit, or RCP-series control   |
|                 | panels (dumb panels appear as GPI I/O devices).                   |
| Port            | Physical port to which external devices are wired (COM3, COM4,    |
|                 | etc.)   |
| Address         | All GPI devices, including control panels, map into the GPI input |
|                 | space, using an address. This address sets an I/O address for the |
|                 | entire port.  |

| Parallel Interface     | The TXI parallel interface unit operates over a serial connection. |
|------------------------|--|
| <b>Devices - Model</b> |  |
| 4211                   |  |
| Name                   | User name for device.  |
| Device Port            | Name of TSI1000 port hosting the device (See Comm Port             |
|                        | Setup)   |
| Address                | Starting GPI I/O address of device within port. Lowest             |
|                        | numbered device starts at zero, and each device occupies 40        |
|                        | addresses (first device address is zero, second is 40, etc.). This |
|                        | value is automatically calculated for each 4211 device.            |

| Parallel Interface  | The TXI parallel interface unit operates over IP.                  |
|---------------------|--|
| Devices - TXI       |  |
| Series (GPI control |  |
| units operating     |  |
| over IP)            |  |
| Name                | User name for device.  |
| Device Port         | Name of TSI1000 port hosting the device (See Comm Port             |
|                     | Setup)   |
| Address             | Starting GPI I/O address of device within port. Lowest             |
|                     | numbered device starts at zero, and each device occupies 40        |
|                     | addresses (first device address is zero, second is 40, etc.)       |
| Туре                | TXI-80 or TXI-48 devices   |
| IP Address          | IP address of TXI-series device                                    |
| Address             | Starting GPI I/O address of device within port. Lowest             |
|                     | numbered device starts at zero, and each device occupies 80        |
|                     | addresses (first device address is zero, second is 80, etc.). This |
|                     | value is automatically calculated for each TXI-series device.      |

| Parallel Interface      | Control panels are considered as GPI inputs (button presses) and    |
|-------------------------|---|
| <b>Devices - Remote</b> | GPI outputs (LED controls). The RCP serial number is entered        |
| <b>Control Panels</b>   | to identify each panel.   |
| Name                    | User name for device.   |
| Device Port             | Name of TSI1000 port hosting the device (See Comm Port              |
|                         | Setup)  |
| Serial Number           | Serial Number of control panel.                                     |
| Address                 | Starting GPI I/O address of panel within port. Lowest numbered      |
|                         | device starts at zero, and each device occupies 40 addresses (first |
|                         | device address is zero, second is 40, etc.)                         |

| Switcher or<br>Router Devices | These are virtual or "real" routing and switching crosspoint<br>matrix devices. A "real" matrix provides crosspoint information<br>to the TSI1000 over a serial or IP connection. Virtual matrix<br>devices have crosspoint settings which generated by the internal<br>logic of the TSI1000 configuration for various tally calculation<br>purposes. |
|-------------------------------|---|
| Device Name                   | Name used to identify router or switcher in other parts of the configuration.   |
| Device Port                   | Name of port used to communicate with device (see Comm Port Setup)  |
| Level                         | Router level, used for routing devices only   |
| # of Inputs                   | Number inputs in router.  |
| # of Outputs                  | Number of outputs in router.  |

| GPI Outputs      | Parallel outputs are supported by outboard GPI controller units    |
|------------------|--|
|                  | which are controlled over a serial or IP connection.               |
| GPI Output Name  | User name of UMD, not referenced in other parts of the             |
|                  | configuration.   |
| Device Port      | Name of port used to communicate with the GPI output hardware      |
|                  | (see Comm Port Setup)  |
| Output Address   | Each physical GPI output is numbered. The address is a number      |
|                  | given with respect to the GPI output unit which hosts the GPI      |
|                  | output.  |
| # Outputs        | More than one physical GPI output can be grouped together for      |
|                  | control purposes.  |
| Monitoring Style | Type of control logic used to turn on the GPI output.              |
| Monitoring       | Detailed description of GPI output function, including the signals |
| Description      | it is monitoring and how it is triggered. Dragging, router or      |
|                  | switcher inputs or outputs or other items into this field          |
|                  | reprograms the GPI output function with new information. For       |
|                  | example, depending on the selected control style, dragging a       |
|                  | source definition into this field can cause the GPI output to      |
|                  | activate whenever the source is found on air.                      |
| Raw Control      | Accepts Image Video control language to override the               |
|                  | monitoring style.  |
| Raw Expression   | Displays control logic information for diagnostic purposes.        |

| Control Panels | Control panels are "dumb" and are considered as GPI input and<br>output devices. GPI inputs represent button press and releases,<br>GPI outputs represent LED control. |
|----------------|--|
| Device Name    | User name of UMD, not referenced in other parts of the configuration.  |

| Device Port  | Name of port used to communicate with the control panel         |
|--------------|---|
|              | hardware (see Comm Port Setup)                                  |
| RCP Serial # | Serial number of control panel.                                 |
| Address      | Location of control panel for control purposes; specifies where |
|              | button presses can be read and where LED control commands are   |
|              | written.  |

#### UMDS TAB

| Display Devices  | UMDs (Under Monitor Displays) include a wide variety of UMD        |
|------------------|--|
|                  | types. UMDs receive text, color and other control information      |
|                  | from the TSI1000.  |
| UMD Device Name  | User name of UMD.  |
| Device Port      | Name of port used to communicate with UMD hardware (see            |
|                  | Comm Port Setup)   |
| ID / Serial #    | Number used to identify UMD, usually matches a value encoded       |
|                  | in UMD hardware.   |
| Section #        | For certain types of UMD that can have multiple sections.          |
| Tally Area       | The area of the broadcast facility (usually a control room) for    |
|                  | which the UMD is indicating on-air or other kinds of tally         |
|                  | information.   |
| Location         | ??   |
| Monitoring Style | The kind of information displayed by the UMD, for example,         |
|                  | status of a router output or the name of a fixed signal source.    |
| Monitoring       | A description giving a detailed description of the function of the |
| Description      | UMD, including the signals it is monitoring and how it is          |
|                  | displayed. Dragging, router or switcher inputs or outputs or other |
|                  | items into this field reprograms the UMD output function with      |
|                  | new information. For example, depending on the selected control    |
|                  | style, dragging a destination definition into this field can cause |
|                  | the UMD to begin displaying the source selected by the given       |
|                  | router or switcher destination.                                    |
| Override         | An area where the user can type in text which will override the    |
|                  | normal text information without disturbing the UMD tally logic.    |
| Raw Expression   | Displays control logic information for diagnostic purposes.        |

## I/O and Signals Tab

| Signal PathsUsed to define signal paths from a signal output of a router or<br>switcher to one or more router or switcher input(s).Interconnect nameUser name of interconnect path, not referenced in other parts of<br>the configuration.Signal Origin<br>DeviceName of the router or switcher device hosting the signal output<br>that is the origin of this signal path. This name is programmed in<br>the Switcher or Router Devices editor (see Hardware tab).Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device Input<br>ColumnsNames of router or switcher device inputs that are fed by this<br>signal path |                   |  |
|---|-------------------|--|
| switcher to one or more router or switcher input(s).Interconnect nameUser name of interconnect path, not referenced in other parts of<br>the configuration.Signal Origin<br>DeviceName of the router or switcher device hosting the signal output<br>that is the origin of this signal path. This name is programmed in<br>the Switcher or Router Devices editor (see Hardware tab).Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device Input<br>ColumnsNames of router or switcher device inputs that are fed by this   | Signal Paths      | Used to define signal paths from a signal output of a router or    |
| Interconnect nameUser name of interconnect path, not referenced in other parts of<br>the configuration.Signal OriginName of the router or switcher device hosting the signal output<br>that is the origin of this signal path. This name is programmed in<br>the Switcher or Router Devices editor (see Hardware tab).Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device InputNames of router or switcher device inputs that are fed by this<br>signal path   |                   | switcher to one or more router or switcher input(s).               |
| the configuration.Signal Origin<br>DeviceName of the router or switcher device hosting the signal output<br>that is the origin of this signal path. This name is programmed in<br>the Switcher or Router Devices editor (see Hardware tab).Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device Input<br>ColumnsNames of router or switcher device inputs that are fed by this<br>signal path   | Interconnect name | User name of interconnect path, not referenced in other parts of   |
| Signal Origin<br>DeviceName of the router or switcher device hosting the signal output<br>that is the origin of this signal path. This name is programmed in<br>the Switcher or Router Devices editor (see Hardware tab).Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device Input<br>ColumnsNames of router or switcher device inputs that are fed by this<br>signal path   |                   | the configuration.   |
| Devicethat is the origin of this signal path. This name is programmed in<br>the Switcher or Router Devices editor (see Hardware tab).Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device Input<br>ColumnsNames of router or switcher device inputs that are fed by this<br>signal path.  | Signal Origin     | Name of the router or switcher device hosting the signal output    |
| the Switcher or Router Devices editor (see Hardware tab).Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device Input<br>ColumnsNames of router or switcher device inputs that are fed by this<br>signal path   | Device            | that is the origin of this signal path. This name is programmed in |
| Signal Origin I/OName of the router or switcher device output that is the origin of<br>this signal path.Device InputNames of router or switcher device inputs that are fed by this<br>signal path   |                   | the Switcher or Router Devices editor (see Hardware tab).          |
| this signal path.Device InputNames of router or switcher device inputs that are fed by thisColumnssignal path   | Signal Origin I/O | Name of the router or switcher device output that is the origin of |
| Device Input Names of router or switcher device inputs that are fed by this signal path   |                   | this signal path.  |
| Columns signal path   | Device Input      | Names of router or switcher device inputs that are fed by this     |
| Signa paul.   | Columns           | signal path.   |

Ι

| Source Definitions | Used to define alias names for router or switcher inputs, which<br>are used within the tally console configuration, along with<br>displayable UMD names. A source definition can be identified<br>with more than one router or switcher device signal input (for<br>example a source called CAM1 might feed both a router and a<br>production switcher). |
|--------------------|--|
| Source name        | Name of source   |
| Short Name         | Text that is displayed in UMDs programmed to show a short<br>name wherever this source is displayed.   |
| Long Name          | Text that is displayed in UMDs programmed to show a long name wherever this source is displayed.   |
| Device Input       | One of these columns contains the name of the router or switcher   |
| Columns            | device inputs that this source represents.   |
| Style A            | Determines what king of text is displayed for UMD programmed<br>to show style-A names. The options are primary names,<br>secondary names, short names, long names and style B.   |
| Style B            | Determines what king of text is displayed for UMD programmed<br>to show style-B names. The options are primary names,<br>secondary names, short names, long names and style A.   |
| Priority           | Used to order sources in UMDs that show multiple sources.  |

| Destination      | Used to define alias names for router or switcher destinations,    |
|------------------|--|
| Definitions      | which are used within the tally console configuration, along with  |
|                  | displayable UMD names and crosspoint selection control logic.      |
| Destination name | Name of Destination  |
| Short Name       | Text that is displayed in UMDs programmed to show a short          |
|                  | name wherever this destination is displayed.                       |
| Long Name        | Text that is displayed in UMDs programmed to show a long           |
|                  | name wherever this destination is displayed.                       |
| Device Input     | One of these columns contains the name of the router or switcher   |
| Columns          | device output that this destination definition represents.         |
| Style A          | Determines what king of text is displayed for UMD programmed       |
|                  | to show style-A names. The options are primary names,              |
|                  | secondary names, short names, long names and style B.              |
| Style B          | Determines what king of text is displayed for UMD programmed       |
|                  | to show style-B names. The options are primary names,              |
|                  | secondary names, short names, long names and style A.              |
| Raw control      | Control expression cause to a crosspoint switch. This overrides    |
|                  | the Control Style field (see below in this table).                 |
| Raw expression   | Displays control logic information for diagnostic purposes.        |
| Output device    | Name of the router or switcher device hosting this signal output.  |
|                  | This name is programmed in the Switcher or Router Devices          |
|                  | editor (see Hardware tab).   |
| Output device IO | Name of the router or switcher device output represented by this   |
|                  | destination definition.  |
| Control style    | This control style determines the logic used to cause a crosspoint |
|                  | switch. The control style field is a dropdown selector box that    |
|                  | allows the user to pick a control style for the destination.       |
| Control style    | Detailed description of the selected control style function.       |
| description      | Dragging GPI inputs, router or switcher destinations or other      |
|                  | items into this field reprograms the control function with new     |
|                  | information. For example, depending on the selected control        |
|                  | style, dragging a router input into this field can cause a         |
|                  | crosspoint switch.   |

| Source Definitions | Used to define alias names for sources, which are used within<br>the tally console configuration, along with displayable source<br>names used in UMDs. |
|--------------------|--|
| Source name        | Name of source   |
| Short Name         | Text that is displayed in UMDs programmed to show a short<br>name wherever this source is displayed.   |
| Long Name          | Text that is displayed in UMDs programmed to show a long name wherever this source is displayed.   |
| Device Input       | One of these columns contains the name of the router or switcher   |
| Columns            | device inputs that this source represents.   |
| Style A            | Determines what king of text is displayed for UMD programmed to show style. A names. The options are primary names                                     |
|                    | secondary names, short names, long names and style B.  |
| Style B            | Determines what king of text is displayed for UMD programmed   |
|                    | to show style-B names. The options are primary names,  |
|                    | secondary names, short names, long names and style A.  |
| Priority           | Used to order sources in UMDs that show multiple sources.  |

| <b>Poutor</b> or  | These many items become available as router or switcher         |
|-------------------|---|
|                   | These menu items become available as fouter of switcher         |
| switcher-specific | devices are defined in the Router or Switcher Devices editor    |
| input and output  | under the Hardware tab.   |
| names             |   |
| IO name           | Name of source  |
| Short Name        | Text that is displayed in UMDs programmed to show a short       |
|                   | name wherever this source is displayed.                         |
| Long Name         | Text that is displayed in UMDs programmed to show a long        |
|                   | name wherever this source is displayed.                         |
| Style A           | Determines what king of text is displayed for UMD programmed    |
|                   | to show style-A names. The options are primary names,           |
|                   | secondary names, short names, long names and style B.           |
| Style B           | Determines what kind of text is displayed for UMD programmed    |
|                   | to show style-B names. The options are primary names,           |
|                   | secondary names, short names, long names and style A.           |
| Priority          | Used to order sources in UMDs that show multiple sources.       |
| Dependent UMDs    | UMDs that are programmed to monitor this input or output        |
| Dependent GPIs    | GPI outputs that are programmed to monitor this input or output |

## Plant Layout Tab

| Tally Areas        | A tally is an area of a broadcast facility served by a control room   |
|--------------------|---|
|                    | of other entity that places signals on air or routes signals. The     |
|                    | activities of the control room are monitored by the tally system      |
|                    | and signals selected in special ways by the control room are          |
|                    | "tallied" using UMDs or GPI-driven display devices. A broadcast       |
|                    | facility can be divided up into a number of tally areas, usually      |
|                    | dependent on the number of different control rooms, and within        |
|                    | each tally area can be a number of different tally types, such as     |
|                    | on-air (program) tally, next-to-air (preset) tally, iso-tally, remote |
|                    | signal use tally, etc.  |
| Tally area name    | User name for tally area (e.g. CR1, M/C-2, etc.)                      |
| Symbol             | Mnemonic name used for programming tally areas.                       |
| Tally type columns | Selects a list of router or switcher (usually production switcher)    |
| (PGM, PST, etc.)   | destinations that are checked for the presence of signal sources,     |
|                    | which are in turn marked as "on-air", "next to air", etc. in order to |
|                    | generate UMD and GPI tally outputs. For example the PGM tally         |
|                    | type is usually assigned with the program bus of a production         |
|                    | switcher.   |

| Monitor walls     |   |
|-------------------|---|
| Monitor wall name | User name for monitor wall  |
| Status            | Clicking this button opens a drag-and-drop driven monitor wall<br>editor, which can be used to create a virtual monitor wall and<br>program the UMDs within it. |

## Tally Logic Tab

| UMD, GPI, LED      | These control expressions are used for control of UMDs, GPI          |
|--------------------|--|
| Control            | outputs and control panel LEDs.                                      |
| Expressions        |  |
| Style Name         | Name of style which appears in Control Style selection drop-down     |
|                    | boxes in UMD and GPI and LED editors                                 |
| Default for:       | One of Resource Output, Resource Input, GPI Input. If one of         |
|                    | these items is dragged into the UMD, GPI or LED control that         |
|                    | does not have a control style selected, this control expression will |
|                    | be automatically applied.  |
| Symbol             | Optional symbol used to store this control expression as a           |
|                    | subroutine for use in other expressions.                             |
| Control Expression | Image Video control language expression.                             |
| Description        | Detailed description of the control style that gets displayed in the |
|                    | UMD, GPI output or LED control editor in which the control           |
|                    | expression is selected.  |

| <b>Crosspoint Control</b> | These control expressions are used for crosspoint switching, in      |
|---------------------------|--|
| Expressions               | either a virtual or "real" router device.                            |
| Style Name                | Name of style which appears in the Control Style selection drop-     |
|                           | down boxes in the Destination Definition editor.                     |
| Default for:              | One of Resource Output, Resource Input, GPI Input. If one of         |
|                           | these items is dragged into a Destination Definition that does not   |
|                           | yet have a control style selected, this control expression will be   |
|                           | automatically applied.   |
| Symbol                    | Optional symbol used to store this control expression as a           |
|                           | subroutine for use in other expressions.                             |
| Control Expression        | Image Video control language expression.                             |
| Description               | Detailed description of the control style that gets displayed in the |
|                           | Destination Definition editor in which the control expression is     |
|                           | selected.  |

| Subroutines        | These subroutines can be used by the control styles and by other     |
|--------------------|--|
|                    | subroutines for easier programming.                                  |
| Name               | Name of style which appears in the Control Style selection drop-     |
|                    | down boxes in the Destination Definition editor.                     |
| Control Expression | Image Video control language expression.                             |
| Description        | Detailed description of the control style that gets displayed in the |
|                    | Destination Definition editor in any record in which the control     |
|                    | expression is selected.  |