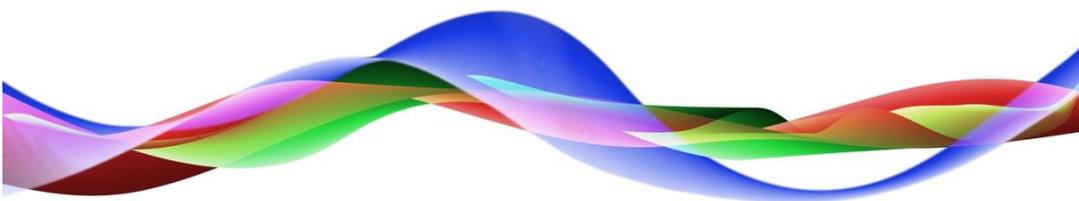


# 14 Tally Management

**vsmStudio**

**Manual**



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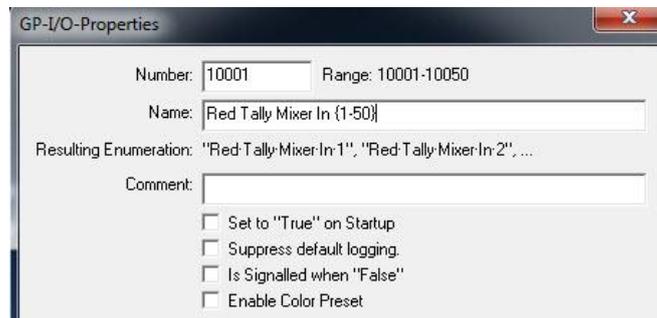
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Tally configuration requires GPIs and GPOs (see chapter 15). GPIs are needed for physical mixer tally and exchange GPOs with the corresponding tally logic.

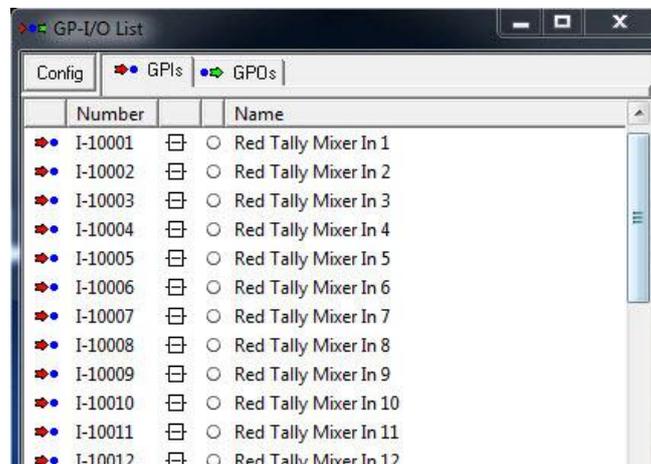
## 1 Setting-up Tally GP-I/Os

First, create around 50 GPIs named *Red / Green / Yellow Tally Mixer In* (for each free colour) in the GP-I/O list (see chapter 15.2 New GP-I/O).



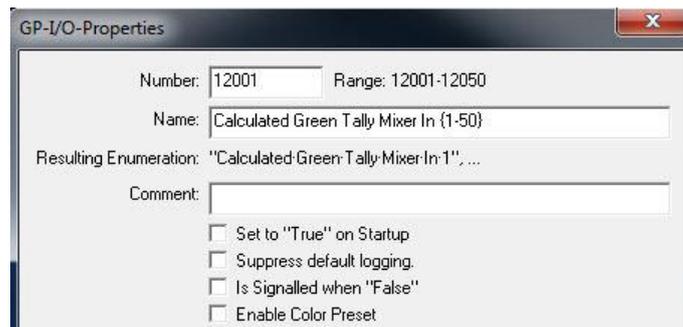
Setting-up tally GPIs

The numbering for the Red Tally GPIs begins at 10,001, for Green Tally at 12,001, and for Yellow Tally at 14,001. These settings also have to be entered in the port.



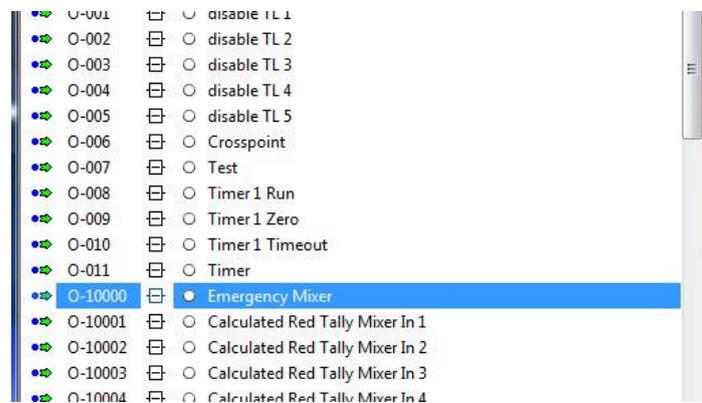
Red Tally GPIs

Next, create the same number of GPOs, named *Calculated Red / Green / Yellow Tally Mixer In*. The different colours begin at the same number as those mentioned above.



Green Tally GPOs

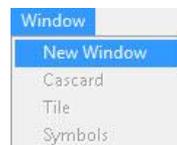
For emergency purposes, an *Emergency* GPO with the number 10,000 should also be created. This GPO can be activated through an emergency panel in the event of a mixer failure. Tally will then be sent from a defined target, for example a program target.



Emergency GPO

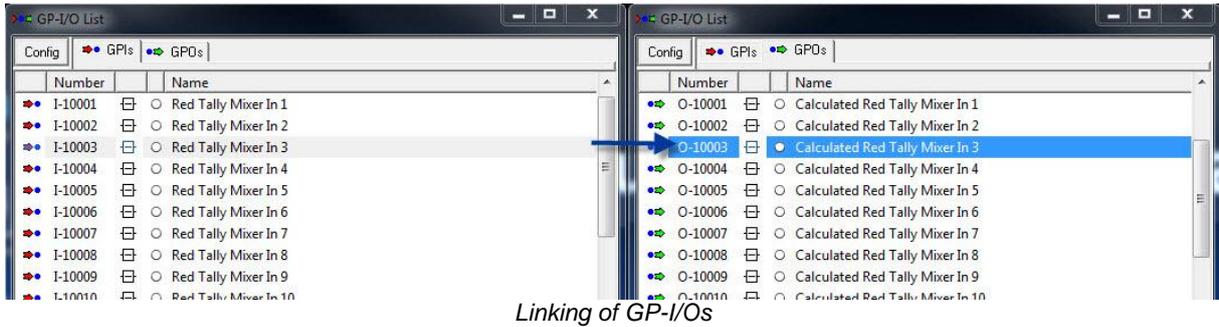
## 1.1 Linking of Tally GP-I/Os

If the GPIs and GPOs have been created, they must be linked with each other. To do so most easily, open a second window so that two GP-I/O windows can be placed side by side.

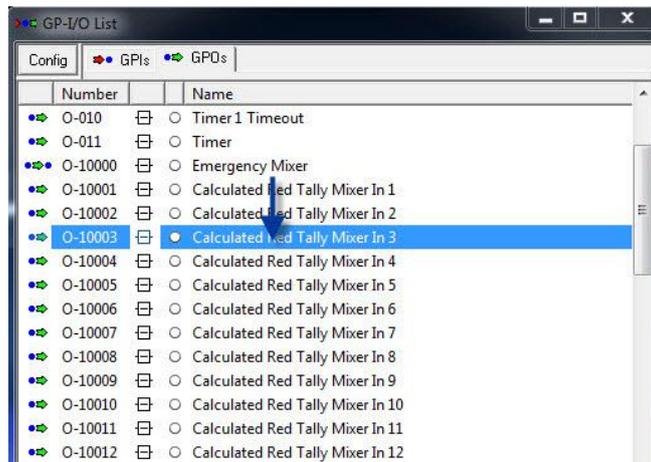


Opening a new window

Next, drag and drop each GPI from the GPI view into the corresponding GPO.

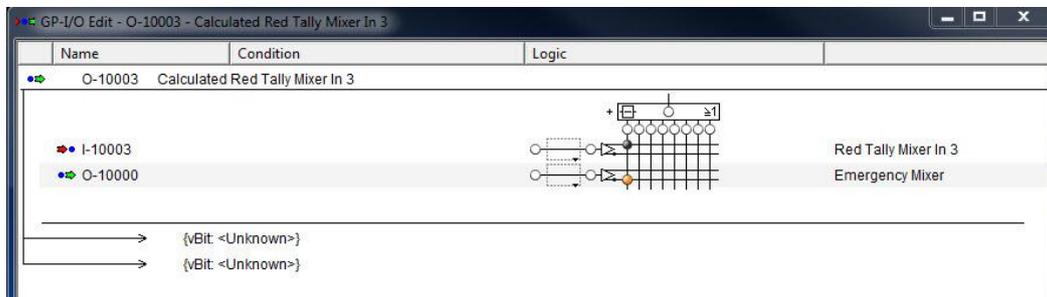


In the event of an emergency, also drag and drop the *Emergency* GPO into every GPO.



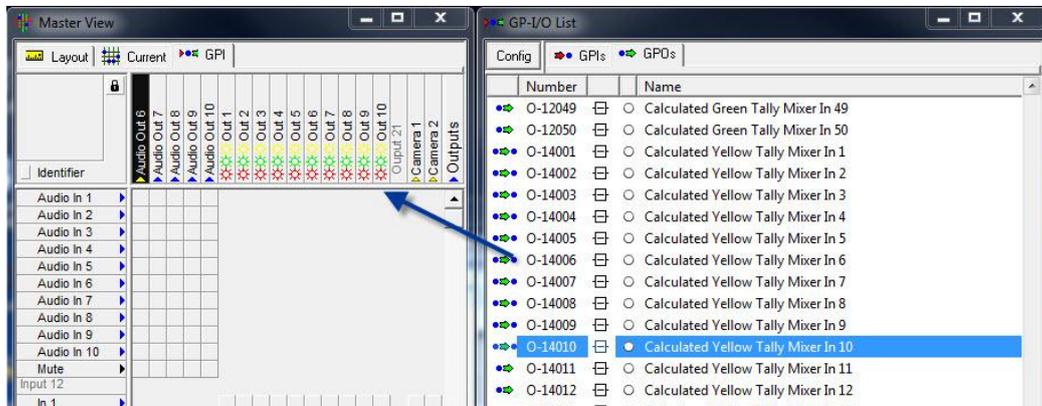
## 1.2 Setting the Tally GPO Logic

Next, set the GPO logic: to do so, turn off the *Emergency* GPO and activate the corresponding GPI. Therefore, if the *Emergency* GPO is not active while the GPI *Red Tally Mixer In* is active, the *Calculated Red Tally Mixer In* GPO will be activated.



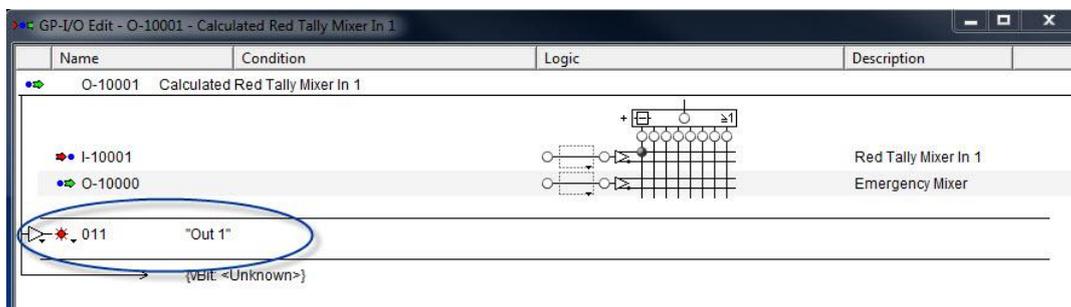
## 2 Linking Tally GPOs with Signal Paths

In the GPI view of the master matrix (see chapter 6.3 GPI View), place the relevant signal so that the GPO tally sends to a target.



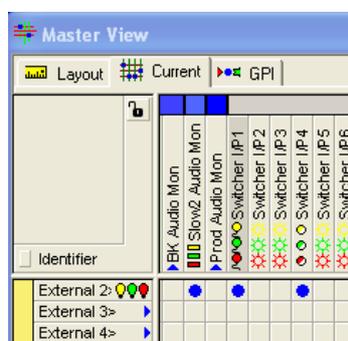
*Dragging GPOs onto signals in the master matrix*

If a GPO is dragged onto a target in the matrix, a coloured sun is displayed next to the signal. It indicates that the target receives tally. An arrow in the GPO logic shows that this GPO sends tally to this target. If a target should only receive Green Tally, the tally colour can be defined in the GPO logic through the small arrow beside the sun.



*Tally display in the GPO logic*

If the tally is active, the GPI is set to ON and triggers a GPO that sends a red light to a target.

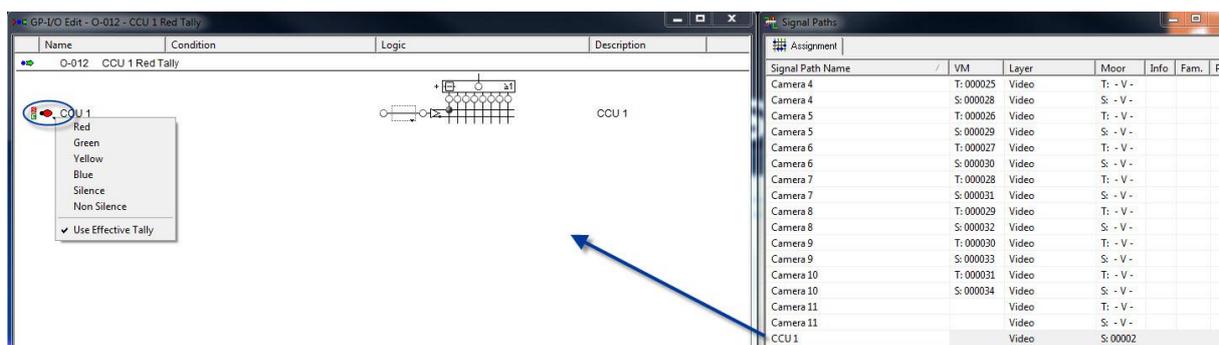


*Tally display in the Current view of the master matrix*

In the Current view of the master matrix (see chapter 6.2 Current View), active tally is shown through small lamps on the relevant signal paths. The sources switched onto that target will also receive tally. This is again indicated by a small lamp. If this source is switched to additional targets, they will also receive tally. Passed-through tally that is inactive is indicated at the target with a half-filled circle.

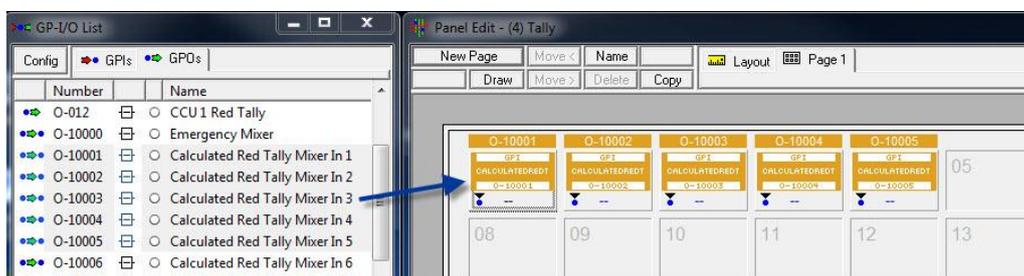
### 3 Tally Forwarding to External Devices

To forward a tally to an external device, for example a CCU, an additional GPO must be created. Drag and drop the relevant signal into that GPO. The signal will now trigger the GPO. If this signal receives tally, the GPO becomes active and the CCU, or an arbitrary external device, receives tally.



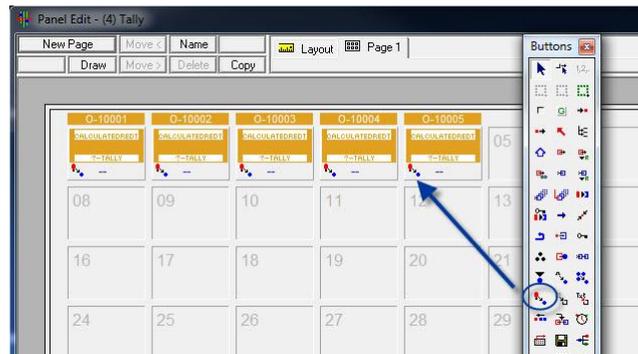
Logic for tally forwarding to an external device

Tally colour as well as *Silence*, *Non-Silence*, and *Use Effective Tally* can be adjusted through the small arrow beside the lamp. Activate *Use Effective Tally* to prevent the tally's self-preservation.



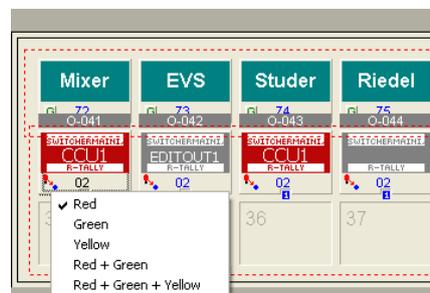
Assigning GPOs to a control panel

Tally can also be forwarded to third party devices via physical GPOs. To do so, place GPOs onto a control panel and assign the function *Assign Tally to GPO* to it.



*Assigning tally*

Configure the buttons so that they jump to the sources. There, the appropriate source is selected, and the GPO that forwards the tally physically to the relevant third party device becomes active. In this configuration, the tally colour can be selected through the tally symbol on the control button in the panel edit.



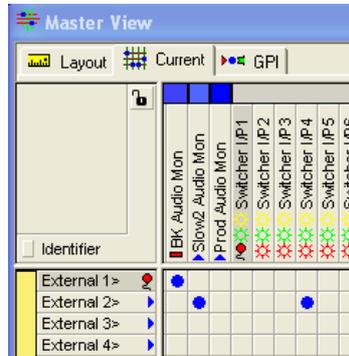
*Selecting tally colour in the panel edit*

## 4 Manual Tally Configuration

To configure tally for a target manually, for example for an EVS server while it is recording, only one GPO must be dragged onto the relevant target. The tally colour can be set in the GPO. The GPO can only be activated at the push of a button or through a logic.

## 5 Source as Tally Trigger

A source can also function as tally trigger. To set it up, the GPO must be dragged onto the relevant source. If the GPO becomes active, a small lamp is displayed at the source in the current view of the master matrix (see chapter 6.2 Current View)



Source tally



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