

How To: Connect an RTS Intercom to TallyMan

Version History

lssue	Date	Change Details
1	28/09/21	First Issue



Contents

Overview	4
Functions	4
Comms	4
Instructions	5
Connect to the frame (includes crosspoint control)	5
Keys – RTS Frame Initial Setup	7
Adding 127 Virtual Keys to the RTS system	7
Keys – TallyMan Initial Setup	11
Keys – Using TallyMan to trigger a UPL statement	14
1. Configure a UPL statement in the RTS with a key as an input.	14
2. Configure an Event in TallyMan to press and release the Key	15
Keys – Using a Key as a Trigger in TallyMan	19
Keys – Using UPL Statements to control virtual Keys	21



Functions

- Crosspoints: read and control
 - Commonly used for routing audio using the frames additional IO. For communications additional setup will be required in the RTS to open mics etc.
- Keys: read and control Key states
 - \circ $\;$ Key reading and control are typically used to interact with UPL statements.
 - By having a UPL statement turn a key on or off, TallyMan can be notified of the change and use this as a trigger for its own logic.
 - By having TallyMan turn a key on or off, the key can be used to trigger UPL statements in the RTS Frame
 - Keys can be real keys on real panels or can be virtual and used just as a form of virtual GPIO over IP.
 - The ADAM frame will allow up to 127 Keys per port. A currently unused port can be configured such that the keys are available to TallyMan and UPL statements so for the loss of 1 port in the frame, 127 virtual GPIO can be created.



Comms

Protocol

- Official protocol name: AZedit Protocol
- Protocol name in TallyMan: RTS Intercom

Connection

- Comms: UDP/IP
- Default Port: 27410
- Component Type in TallyMan: Router
- Third party interface required: None



Instructions

Connect to the frame (includes crosspoint control)

- 1. Add a router component in TallyMan and set it up as per the screenshots below.
- 2. Set the number of ports to match the frame, or the ports you are interested in.

🚺 TallyMan - Untitled	— D	×
File Edit Tools View C	Comms Help	
E 🔁 New System 	Router Properties	
	Name: RTS ADAM-M Apply	
	Type: RTS Intercom	
	Size A 1. Number of Ports	
	[Set Communications]	
	Max Levels: 1 Dirable Cantral	
	Re-entries: 0 Edit Levels Disable Control	
	Configure Size	
	Configure Router Names	
	2. Apoly chanee to number of ports	
Ready	OFFLINE	_//

TallyMan always starts from the first port but if you are not interested in crosspoint status and control of all the ports it can be advantageous to limit the number to the highest numbered port you are interested in. AZedit protocol is not asynchronous (it only provides data when requested) so must be polled for crosspoint data. Reducing the number of ports monitored will improve the update speed.

3. Set the Communications

Products

M lallyivian - Untitled			_		×		
File Edit Tools View C	omms Help						
E INew System EIX RTS ADAM-M	Router Properties			1]		
	Name: RTS ADAM-M		Apply				
	Type: RTS Intercom	•					
	Size		- Assian Interface -				
	Nu	imber 128	<local></local>	~			
			Set Communica	ations			
	MaxLe	evels: 1	_		Set Co	ummunications	
	Virtual Re-entries: 0	Edit <u>L</u> evels	Disable Cor	ntrol L	Jerco	annunications	
	ſ	Configure Size	Configure Bouter	Names			
			Conligare Houter	<u>In</u> dines			
 Ready							
RTS ADAM-M: Setup Comm	unication			?	×		
		🗖 Europet Main and		ПК			
Tupe: Network UDP		Export this com	iponent	OK Cance			
Type: Network UDP	_	Export this com	ponent	OK Cance	4	Click OK wh	en finished
Type: Network UDP General Parameters Port Number: 27410	_	Serial Parameters	iponent	OK Cance		Click OK wh	en finished
Type: Network UDP General Parameters Port Number: 27410 Description:		Export this com Serial Parameters Baud Rate:	iponent	OK Cance		Click OK wh	en finished
Type: Network UDP General Parameters Port Number: 27410 Description:		Export this com Serial Parameters Baud Rate: Parity:	iponent	OK Cance		Click OK wh	en finished
Type: Network UDP General Parameters Port Number: 27410 Description: Network Parameters		Export this com Serial Parameters Baud Rate: Parity: Data Bits:	Iponent	OK Cance		Click OK wh	en finished
Type: Network UDP General Parameters Port Number: 27410 Description: Network Parameters IP Address: 192	▼ . 168 . 206 . 230	Export this com Serial Parameters Baud Rate: Parity: Data Bits: Stop Bits:		OK Cance		Click OK wh	en finished
Type: Network UDP General Parameters Port Number: 27410 Description: Network Parameters IP Address: 192	▼ . 168 . 206 . 230	Export this com Serial Parameters Baud Rate: Parity: Data Bits: Stop Bits:	Iponent	OK Cance		Click OK wh	en finished
Type: Network UDP General Parameters Port Number: 27410 Description: Network Parameters IP Address: 192 Set Backup comms par	▼ . 168 . 206 . 230	Export this com Serial Parameters Baud Rate: Parity: Data Bits: Stop Bits:	nponent	OK Cance		Click OK wh	en finished

TallyMan connects to Intercom frame's IP address

4. Write the configuration to the TallyMan system

The system will now connect to the RTS Intercom and monitor crosspoints, control can be configured as per any router connected to TallyMan using software and hardware control panels and events. By connecting to the TallyMan system, you can see the current crosspoints in the destinations list of the RTS ADAM-M component.

If you do not require Keys, setup is complete



Keys – RTS Frame Initial Setup

Keys in the RTS system are managed by the frame. The frame only monitors and controls Keys that are currently being used by the system.

Real Keys (Keys that exist on a real panel and are on a page that is actively shown when control is needed) no further setup is required and you can proceed to the next step: <u>Keys - TallyMan Initial Setup</u>.

Virtual Keys (Virtual GPIO) (Keys that only exist virtually, TallyMan will monitor and control these to act as virtual GPIO). To enable this functionality some setup is required in the RTS Frame using the AZedit software.

Adding 127 Virtual Keys to the RTS system

Setting up the first 15 virtual Keys

1. Choose a port that isn't currently in use. In this example I will be using port 97. This port is currently empty and there is no real panel assigned to it.





ļ

To force the RTS system to monitor and calculate the states of these keys they must have an assignment, we can use an unused UPL Resource (UR) to do this.

I have renamed UR1 to "TMGP"

(In the navigation bar go to Alphas->UPL Resource, in the list double-click on a resource and name it). We only need 1 UR for this purpose, it will be assigned to all the Keys and used purely to cause the frame to calculate the Key states for this port.

AZedit - [U	ntitled] - UPL Resource Alphas				
File Online	Authentication Edit View Sy	stem Alphas Status Option	s Logging Help		
🗋 🗁 📬	🖬 😂 것 19 년 전 × 1	Ω @ # X ‰ @ Q	🎉 • F • 🔶 🧼 🍕 • 🚺 📴		
	1				
UR 🛆	Alpha (8)	Description			^
001	TMGP				
002	UR002				
003	UR003				
004	UR004				
005	UR005				
006	UR006				
007	UR007				
008	UR008				
009	UR009				
010	UR010				
011	UR011				
012	UR012				
013	UR013				
014	UR014				
015	UR015				
016	UR016				
017	UR017				
018	UR018				
019	UR019				
020	UR020				
021	UR021				
022	UR022				
023	UR023				
024	UR024				
025	UR025				
026	UK026				•
E 111	·	🛶 a 🛛 📥 🔺	🕤 🎲 🗤 🐨 🗤 🖡		9
KDe Die				🚾 🕶 🧰 🖾 👻 📷 🖬	avris .
For Help, press	F1	1000 GF10 OFC ORS 7		The second reprine the post	
i or ricip, press					

3. Go back to the to the Keypanel setup using the KPs button KPs and set the assignment of each Talk key to the UR specified (in this example UR1 "TMGP")

Ē

FOIL	Alpha			Scroll En	able	Keypanel /	Port Setti	ngs			Port	Status		
97	• N097		•			Page 1: N	MAIN	• Ed	lit)	æ			
					` i+						GPI			
						E Lateb I	Diaphla				GPO			
					LCF	Latern	Disable							
Listen K	eys													
□ D														
□ R														
	_			_			_							
1 Tally Kay	2 (Levels)	3 1 and 2)	4	5	6	/	8	9	10	11	12	13	14	15
Tak Ke	s (Levels	1 anu 2)												
D											—			
R 🗆					_		—				—			
TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP
		/												
		/ I												
the keyr														

These 15 keys are now ready to be controlled and monitored from TallyMan. Key 16 on the first page is reserved and won't be used.

4. Push these configuration changes to the frame.



Setting up the rest of the virtual Keys (up to 127 per port)

To setup more than the first 15 keys we must configure the other pages of this port.

1. Navigate to page 2

File Online Alpha Status Options Logging Help Port Alpha Scrul Prevent	AZedit - [U	ntitled] - Keypan	els / Ports														×
Port Alpha Scroll Enable Keypanel / Port Settings Port Status 97 N097 If Trunk Page 2: Edit Hill Image 2: Page 4: Page 5: Page 5: Page 6: Image 2: Isten Keys Image 7: Page 6: Image 7: Image 7: Isten Keys Image 7: Image 7: Image 7: Image 7: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2) Image 7 Image 7 <t< th=""><th>File Online</th><th>Authentication</th><th>Edit View</th><th>System Alpha</th><th>is Status O</th><th>otions Loggir</th><th>ig Help</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	File Online	Authentication	Edit View	System Alpha	is Status O	otions Loggir	ig Help										
Port Alpha Scroll Enable Keypanel / Port Settings Port Status 97 10097 Image 2: Page 2: Page 2: Page 2: Page 2: Page 3: Pa	🗋 🖬 😫	🖬 😂 🖉 🗉	医鼻 医	<u>Ω</u> ⊇ ∅	X 🖻 🖻	Q 🎽 🕈 1	E = 🗰 🕪	-4- 🛈 🛛									
97 Image Im	Port	Alpha	-		Scroll Er	nable	Keypane	l / Port Se	ettings				Port Statu	5			^
Page 2: Page 2: Page 3: Page 2: Page 5: Page 5: Page 6: Page 6: Page 6: I a 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2) Talk Keys (Levels 1 and 2) Talk Keys TMGP	97	÷ N097	,	•	🖂 Loca	· (Page 2		•	Edit	H4)) (5		C				
Azedit Page 3: Page 5: Page 5: Page 5: Page 5: Page 5: Page 5: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2)	· · · · ·				🗆 Trun	k 🛛	Page 2		<u> </u>								
Page 4: Page 5: Page 5: D F PAP / LCP Page 6: Image 6: D F Select Page F					□ AZec	lit	Page 3						GPI				
Page 5: Page 6: Page 6: Page 6: I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2) TMGP TMGP<							Page 4:						GPO				
Listen Keys R Select Page 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2) Talk Keys (Levels 1 and 2) TMGP TMGP TMGP TMGP TMGP TMGP TMGP TMGP					M PAP	LCP	Page 5:										
R Select Page	Listen k	Keys					Page 6										
D F						/											
R Select Page	ΓD	Г	Г	Г	Г		Г	Г	Г	Г	П	Г	Г	Г	Г	Γ	
Select Page						_		—	—		E	Г		E			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2)			Select Pag	ge													
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2)					T I												
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Talk Keys (Levels 1 and 2)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Talk Keys (Levels 1 and 2)	4	2	2	4	F	6	7	0	0	10	4.4	10	12	14	15	16	,
TMGP TMGP TMGP TMGP TMGP TMGP TMGP TMGP		ے ماہریم () میں	ر ۱ میر ۲	7	5	0	/	0	9	TO	TT	12	10	T-t	10	TO	
D C C C C C C C C C C C C C C C C C C C		iys (Leveis	I and 2)													•	
R TMGP TMGP TMGP TMGP TMGP TMGP TMGP TMGP		_	_	-	_	_	_	_	-	_	-	_	_	-	_	_	
K TMGP TMGP <t< th=""><th></th><th>-</th><th>_</th><th>-</th><th>_</th><th>_</th><th>_</th><th>_</th><th>-</th><th>_</th><th>-</th><th>_</th><th>_</th><th>-</th><th>_</th><th>_</th><th></th></t<>		-	_	-	_	_	_	_	-	_	-	_	_	-	_	_	
TMGP TMGP TMGP TMGP TMGP TMGP TMGP TMGP			-	-		1	-	-			1			-			
	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	TMGP	
		-															1
		/															
evs	eys	-															¥
		••• •	E: "E: 5	િ ⊶∋ આ	/ 🔥 🖪	· •	** ++++ *	5°			and a second sec	als.					
top plas the first process of the size of	KPs PLs	IFBS IFB	SLS SLS R	Ys ISOs GP	NL Latai ⊥ Is UPL UR	. ∖_t⊂ ≌ s AGRPs A	DS XPTS R		ains Remu	Gains Alphas	Kevpanel	s MC I/O	Cards				
	For Help, press	F1									1				FIL	E 00	-

2. Repeat for the other pages until enough keys have been configured. Only 8 pages maximum can be used per port.

AZedit - [Untitled] - Keypanels / Ports File Online Authentication Edit View System Alph	nas Status Options Logging Help			
🗋 🖻 🖬 🖬 🎒 🥒 🏦 📾 🥒 🗶 💁 🖉	🐰 🛍 🛍 Q 🎽 + F + 🔶	1		
Port Alpha	Scroll Enable Keypa	nel / Port Settings	Port Status	^
97 - N097 -	✓ Local	8:		
	T Trunk			_
	E AZedit		GPI GPI	
		tak Disabla		
		tch Disable	Edit	
Listen Keys				<u></u>
1 2 3 4	5 6 7	8 9 10	11 12 13 1	L4 15 16
Talk Keys (Levels 1 and 2)				<u>•</u>
TMGP TMGP TMGP TMGP	TMGP TMGP TMG	P TMGP TMGP TMGP	TMGP TMGP TMGP TM	IGP TMGP TMGP
		-		
KPS PLS IFBS IFB SLS SLS RY'S ISOS G	K 🐴 1 ⊙ 👬 ∰ PIs UPL URs AGRPs ADs XPTs	°∰° ∧∨II 🕢 - 🐜 Alphae RVON Vox Gains Rem Gains Alphae	Keypanels MC I/O Cards	
For Help, press F1				HLE OO //

 We will inform the frame that all the pages we are using are being actively shown on expansion panels. Up to 8 pages can be set to be in use by expansion panels. In this example I have specified all 8.

up Advanced Vox				1	N		
Panel	Туре		Setup Page		Nex	t	
Main Panel	Auto-Detect	•	Setup Page 1		Don		
Expansion Panel 1	Auto-Detect	Ŧ	Setup Page 1 🗨		Don		
Expansion Panel 2	Auto-Detect	-	Setup Page 3 🗨			5	2.Click Done when fi
Expansion Panel 3	Auto-Detect	Ŧ	Setup Page 4				
Expansion Panel 4	Auto-Detect	Ŧ	Setup Page 5				
Expansion Panel 5	Auto-Detect	Ŧ	Setup Page 6 🗨				
Expansion Panel 6	Auto-Detect	Ŧ	Setup Page 7 🗨				
Expansion Panel 7	Auto-Detect	Ţ	Setup Page 8				
Default View	Setup Page Options						
 by Panel Type by Setup Page 	Setup Restrict			+	1.	Set pages expa	with virtual keys as nsion panels
Show Type							
Set by User Described by later							

5. Push these configuration changes to the frame.



Keys – TallyMan Initial Setup

Adding keys in The TallyMan's RTS interface.

1. Set the number of buttons on the RTS Intercom component and hit 'Configure Size'.

🚺 TallyMan - offline.tms		– 🗆 X
File Edit Tools View Comms H	Help	
EI-₩ New System	uter Properties Name: RTS ADAM-M Type: RTS Intercom	Apply
_ S	Size Number 128	Assign Interface
Vi Ri Bi	Max Levels: 1 irtual ie-entries: 0 Edit Levels Iuttons: 32 Configure Size	Disable Control Bouter Control Configure Router <u>N</u> ames
1. Set number of buttons		2.Apply this change

2. You will now have a set of buttons in the Tree. Click the button object in the tree then double click one of the buttons in the list to edit it.

🕅 TallyMan - offline.tms					_		×	
File Edit Tools View Con	nms Help							
🖃 🧱 New System	Index Pg	Btn	Button	Tally Channel	Assignment		Level	^
🗄 🗉 🔣 RTS ADAM-M	1		Button 1	1: Program				
	2		Button 2	1: Program				
Destination	3		Button 3	1: Program				
🔁 Button	4		Button 4	1: Program			Double	lick a button to edit
	5		Button 5	1: Program			Double	
	6		Putton 6	1: Program				
	1. Button	s	utton 7	1: Program				
_	8		Button 8	1: Program				
	9		Button 9	1: Program				
	10		Button 10	1: Program				
	11		Button 11	1: Program				
	12		Button 12	1: Program				
	13		Button 13	1: Program				
	14		Button 14	1: Program				
	15		Button 15	1: Program				
	16		Button 16	1: Program				
	17		Button 17	1: Program				
	18		Button 18	1: Program				
	19		Button 19	1: Program				¥
	<						>	
Ready					-== OFFLI	NE	N	h.

Edit Panel Button 1 of R	RTS ADAM-M	×							
Name: Port 9	7 Key 1 Assigned to Lamp Add Tally Delete Selection]							
Tally Channel: 1: Prog	gram 1.Name the button ogic Channel								
Button Function C Latching C Momentary	Camp Control Follow button Assigned								
	Allow user configuration								
Repeat Edit	Lamp Colour								
Auto Inc	On: Dark Green 🔽 🔽 Flash Normal Text	-							
Auto Copy Include Tally	Off: Off Flash Normal Text	-							
	Use on/off text								
	Group: 0 New Group Map to Button								
	2.Click Assignment Cancel DK								

4.

Products

Set the port and key number you wish to monitor/control. Then click ok in both windows to close them and apply the changes.

RTS 3rd party key variables:		×
Bort Number	97	
For thumber.	1	
Key Number:	1	
	,	

🕅 TallyMan - Untitled							_		×
File Edit Tools View	Comms	Help							
🖃 🕎 New System	Index	Pg Btn Button	Tally Channel	Assignment	Level				^
🖻 📲 RTS ADAM-M	1	Port 97 Key 1	1: Program						
	2	Port 97 Key 2	1: Program						
- Destination	3	Port 97 Key 3	1: Program						
Button	4	Port 97 Key 17	1: Program						
	5	Button 5	1: Program						
	6	Button 6	1: Program						
	7	Button 7	1: Program						
	8	Button 8	1: Program						
	9	Button 9	1: Program						
	10	Button 10	1: Program						
	11	Button 11	1: Program						
	12	Button 12	1: Program						
	13	Button 13	1: Program						
	14	Button 14	1: Program						
	15	Button 15	1: Program						
	16	Button 16	1: Program						
	17	Button 17	1: Program						
	18	Button 18	1: Program						
	19	Button 19	1: Program						
	20	Button 20	1: Program						
	21	Button 21	1: Program						
	22	Button 22	1: Program						
	23	Button 23	1: Program						
	24	Button 24	1: Program						
	25	Button 25	1: Program						
	26	Button 26	1: Program						
	27	Button 27	1: Program						
	28	Button 28	1: Program						
	29	Button 29	1: Program						~
Ready						-== OFFL	INE	NUM	

5. Repeat for the rest of the keys you wish to monitor/control.

Products

We can see here that the buttons are freely configurable, you can use any button to represent any key in the RTS system. In my examples below I will be using Port 97 - Key 1 (assigned to Button 1 in TallyMan) to send a trigger to the RTS and using Port 97 - Key 17 (Button 4 in TallyMan) to receive a trigger from the RTS.



Keys – Using TallyMan to trigger a UPL statement

1. Configure a UPL statement in the RTS with a key as an input.

- 1. Start by navigating to the UPLs screen UPL
- 2. Configure a UPL Statement using a key as a trigger.



In this case Key 1 of Port 97 has been specified as the trigger.

If TallyMan triggers a keypress for this button, it will trigger the specified action.

(Port 97 is the empty port we chose to use for our virtual keys in the RTS setup section above)

- This UPL triggers an 'On Air' Icon to appear on one of our real RTS panels (panel 96) and causes it to play a chime.
- 3. Push these changes to the frame

2. Configure an Event in TallyMan to press and release the Key

- 1. Add an Event Monitor Component in the TallyMan configuration
- 2. Set the type to "Trigger Action"
- 3. Set the number of Events (I have set 10 here, 2 are needed to press and release a button and I have set more for future use)

TallyMan - offline.tms	- 🗆 X
File Edit Tools View Comms Help	
Event Monitor Proper	es
Event Monitor	4.Click Apply when done
1.The "Event Monitor" Event type:	
Component we added Number o	Events: 10
	2.Event type = Trigger Action
	3.Number of events (Minimum of 2, one to press, one to release a button
Assign <u>E</u> nable	Termination Character for OD received Strings (Hex) OD = <cr> QA = <lf></lf></cr>
Edit <u>C</u> omms Parar	eters
Ready	- OFFLINE NUM

- 4. Begin configuring the events by expanding the Event Monitor and clicking "Events" to show the Event list.
- 5. Double click the first event to edit it

🔝 TallyMan - offline.tm	s				– 🗆 X
File Edit Tools View	Comms Hel	p			
🖃 🦉 New System	Index	Event	Trigger Type	Action Type	Action Data
🗄 📲 RTS ADAM-M	1	Event 1	No Trigger	No Action	
Event Monitor	2	Event 2	No Trigger	No Action	
Event	3	Event 3	No Trigger	No Action	
	4	Event 4	No Irigger	No Action	
	5	2.Double Click an event to	No Trigger	No Action	
1.Expand the Event	7	edit it	No Trigger	No Action	
monitor and click the	8	Event 8	No Trigger	No Action	
Event object	9	Event 9	No Trigger	No Action	
	10	Event 10	No Trigger	No Action	
	<				>
Ready	,			-	OFFLINE NUM



7. Set the trigger to whatever you want to use to trigger the button press. In this case I will use a GPI on the TallyMan





8. Set the Action to "Press Button"

Edit Event Action 1 of Event Monitor		×
Name: Mnemonic:	Allow user configuration	Cancel OK
Trigger Type: Tally On	Action Type: Press Button	Notes
		1.Set the Action to Press Button
Source:	Source:	2.Click "Set Parent" to specify the button to be pressed
Edit Tally Channel	Delay (x 10 mS): 0	Repeat Edit
OFF to ON		Auto Copy



9. Set the button to press







11. After clicking OK you will return to the events list and will be able to see the setup of the first event

lelp Event Event 1 Event 2 Event 3 Event 4 Event 5	Trigger Type Tally On No Trigger No Trigger No Trigger	Action Type Press Button No Action No Action	Action Data RTS ADAM-M: Buttor	Output Assignment
Event 1 Event 2 Event 3 Event 4 Event 5	Trigger Type Tally On No Trigger No Trigger No Trigger	Action Type Press Button No Action No Action	Action Data RTS ADAM-M: Buttor 	Output Assignment
Event 1 Event 2 Event 3 Event 4 Event 5	Tally On No Trigger No Trigger No Trigger	Press Button No Action No Action	RTS ADAM-M: Buttor	n 1
Event 2 Event 3 Event 4 Event 5	No Trigger No Trigger No Trigger	No Action No Action		
Event 3 Event 4 Event 5	No Trigger No Trigger	No Action		
Event 4 Event 5	No Trigger			
Event 5		No Action		
	No Trigger	No Action		
Event 6	No Trigger	No Action		
Event 7	No Trigger	No Action		
Event 8	No Trigger	No Action		
Event 9	No Trigger	No Action		
Event 10	No Trigger	No Action		

Edit Event Action 2 of Event Monitor		×
Name:	Allow user configuration Cance OK	
Trigger	Action	
	Release Button	1
1.Set the trigger to "Tally off" (so that when the GPI turns off it will trigger this event)	RTS ADAM-M 3.Set the Action to R	elease Button
2.Assign the same GPI as the first event Routed to Dest:	Source: Routed to Dest: Aclick "Set Parent" and specified button as in the first event so we	y the same can release it
Edit Tally Channel		
No trigger on initial pass	Delay (x 10 mS): 0	
ON to OFF	Auto Copy	

13. You will now return to the Events list and see the 2 events configured

🕅 TallyMan - offline.tms						_		×
File Edit Tools View Cor	nms He	lp						
🖃 🕎 New System	Index	Event	Trigger Type	Action Type	Action Data	Output A	Assignment	(
E RTS ADAM-M	1	Event 1	Tally On	Press Button	RTS ADAM-M: Button 1			1
Parallel	2	Event 2	Tally Off	Release Button	RTS ADAM-M: Button 1			1
Event Monitor	3	Event 3	No Trigger	No Action				1
Event	4	Event 4	No Trigger	No Action				1
	5	Event 5	No Trigger	No Action				1
	6	Event 6	No Trigger	No Action				1
	7	Event 7	No Trigger	No Action				1
	8	Event 8	No Trigger	No Action				1
	9	Event 9	No Trigger	No Action				1
	10	Event 10	No Trigger	No Action				1
	<							>
Ready					-== 0	FFLINE	NUM	11

- 14. Write this configuration to the TallyMan system.
- 15. You can now test this functionality by triggering GPI1 on the TallyMan system (this can be done virtually with Tally Mimic while online). This will press the key in the RTS system and trigger the UPL statement defined in the previous section.



Keys – Using a Key as a Trigger in TallyMan

The button on/off state can be used as a trigger for many things in TallyMan exactly as if it was a button on a TallyMan Control Panel, in this example we will control a GPO.

1. Navigate to the physical GPO of the TallyMan and open a GPO to edit it's assignments.



2. Add the button we wish the GPO to follow into the "Mapped Tallies in"





Edit Tally Out 1 of Parallel			×	
Notes Allow user configuration	Name:		-	
Mapped Tallies In	-Active Tally Channel Ou	Invert Output		
	I Program	🗔 Iso 8		
Add Tally Delete Selection	🗖 Iso 1	🗔 Iso 9		
	🗖 Iso 2	🗖 Iso 10		
Port 97 Key 17	🗖 Iso 3	🖂 Iso 11		
	Iso 4	🗌 lso 12		
	□ 13 <u>~5</u>	1. the button can be	seen	in the list
	🗖 Iso 6	I Iso 14		
	🗖 Iso 7	🖂 Iso 15		
Repeat Edit		Override Cance	1	
Auto Inc		Forced Un		
Auto Copy		I Forced Off OK		4. Click "OK"

the next section.



Keys – Using UPL Statements to control virtual Keys.

To control a virtual key with UPL statements, we will need 2 UPL statements, one to press the key and one to release it.

In this example we will use a GPI on the frame to control the virtual key state.



2. Configure a UPL Statement to Press the Key when the GPI turns ON.



We now have a UPL Statement to press the key when GPI 1 is ON For correct operation we also need to release the Key when GPI1 turns off again.

3. Configure a UPL Statement to release the key when the GPI turns OFF



4. This can now be pushed to the frame and tested