

TALLY MANAGER Tally Control System Getting Started Guide

Prior to configuring Tally Manager, assign and configure the control protocols on the Device Controller channels. Refer to the DC20 Device Controller User Manual.

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1. Create Tally Manager DC List

The Tally Manager DC List is used to define all of the Device Controllers (DC) used in your Tally Manager system. This list is used on the Input Table configuration web pages, as a "Source Device" drop down menu. It also is used to populate the Overview page on each unit.

To create the Tally Manager DC List:

- 1) Click on the "System" link at the top of the page. A Log In prompt is displayed. Log in using the DNF provided user name and password.
- 2) Click on the "Tally Manager DC List" link.
- 3) Click on the "Add" link at the top of the web page.
- 4) In the Device Name field, enter a name, maximum 32 characters in length, that easily identifies the device being entered. This name is displayed in the "Source Device" column drop down menu on all the Input configuration web pages. Examples: "Area Router", "PCR 1 Production Switcher"
- 5) In the Device Type field, select the type of device being entered from the pull-down menu.
- 6) In the Description field, enter a description for the device being entered, maximum 100 characters. This description is displayed on the Tally Manager DC List web page, and is only used for user information. It does not affect the operation of the system.
- 7) In the IP Address field, enter the IP address of the Device Controller connected to the device identified by Device Name.
- 8) In the Control Channel field, enter the channel number that the device is connected to on the DC20.
- 9) In the Backup Device field, enter the IP address of the backup DC that connects to the same device as the primary. The same channel number on the primary and backup DC must be connected to the device. If there is no backup IP address, do not include this parameter.
- 10) In the Location Type field, select whether this device is used Facility-wide or is used within a single room. This will affect how the device is displayed in the Overview page.
- 11) In the Location Name field, enter a descriptive name for where the device is located. This location name will be displayed on the Overview page. This is used for user information only, and does not affect the operation of the system. Examples: "PCR 21", "2nd Floor Equipment Room"
- 12) Press the "Save" button to save the entered device. Or press the "Done" to return to the previous page without saving the entered device.

Device Name	Device Type	Description	IP Address	Control Channel	Backup Device	Location Type	Location Name
MCR Aux	Router	Router Channel	192.168.10.58	3	192.168.10.57	Room	MCR Aux Room
PCR 1 Production Switcher	Switcher	Production Switcher in PCR 1	192.168.10.58	2	0.0.0.0	Room	PCR 1
PCR 1 Monitor Wall	Multi-Viewer	Monitor Wall in PCR 1	192.168.10.58	4	0.0.0.0	Room	PCR 1
Main Router	Router	MultiViewer Channel	192.168.10.52	1	192.168.10.58	Facility-Wide	Main Equipment Room
Camera Tallies	Camera & On-air Tally	Camera Tallies in Studios	192.168.10.55	1	0.0.0.0	Facility-Wide	All Studios

Resulting Source Device drop down menu on all Input Configuration web pages:

Input#	Source Type	Source Device	Output Number	System Source (SSN)
0	DYNAMIC	215-1		zero
1	FIXED	215-1 215-2 215-3 215-4 87		one
2	FIXED			two
3	FIXED	215-1		three

2. Backup and Restore the Tally Manager DC List Configuration File

- 1) Launch your web browser and enter the Device Controller's IP address. The DC's Home Page is displayed.
- 2) Click on the "System" link at the top of the page. A Log In prompt is displayed. Log in using the DNF provided user name and password.
- 3) Click on the "Tally Manager DC List" link.
- 4) Click on the "Backup" link near at the top of the page.

Save the current DC List

- The file name may contain up to 32 characters, excluding extension.
- The file name must be unique.
- The file name extension will always default to ".txt".

Saved DC Lists Files:

To copy file into computer, "right click" on the filename and choose "Save Target as" function.

RESTORE.txt 1098 bytes

Enter File Name: .txt

- 5) Enter a file name for the backup file being created, then press the "Save" button. The created backup file will be displayed after saving.
- 6) Right click on the created backup file, and press "Save Link As." Save the file to your PC.

If more Tally Manager Device Controllers need to be configured:

- 7) Launch your web browser and enter the Device Controller's IP address. The DC's Home Page is displayed.
- 8) Click on the "System" link at the top of the page. A Log In prompt is displayed. Log in using the DNF provided user name and password.
- 9) Click on the "Tally Manager DC List" link.
- 10) Click on the "Restore" link near at the top of the page.

Load Tally Manager DC List

- The file name may contain up to 8 characters, excluding extension.
- The file name must be unique.
- **WARNING:** File Uploads may take a long time, do not refresh during transmission.

Select file to upload:

Saved DC List Files:

tm_dc_lst_202_only.txt 246 bytes

tm_dc_lst.txt 300 bytes

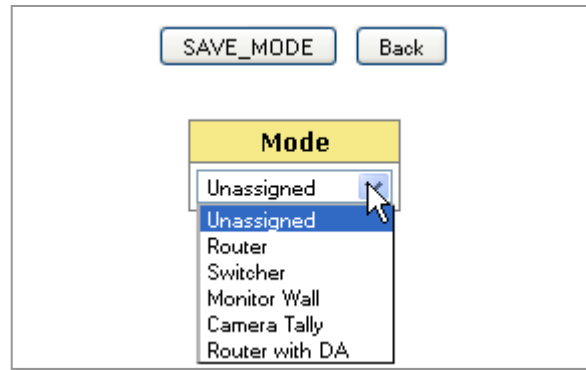
- 11) Click on the "Browse" button, and navigate to the folder where the backup file was saved to on the PC. Double click on the backup file to select it.
- 12) Click on the "Upload to Device" button. NOTE: The file upload may take a few seconds. Do not refresh the webpage while the upload is occurring. Once complete, the webpage will refresh automatically.
- 13) Under "Saved DC List Files:" click on the radio button of the uploaded DC list.
- 14) Click on the "Load" button.
- 15) A confirmation prompt is displayed. Click on the "Load" button to load the file, or click on "Cancel" to exit without loading the file.
- 16) Repeat for every Tally Manager Device Controller.

3. Configure Channel Mode in Protocol Assignment Table

- 1) Launch your web browser and enter the Device Controller's IP address. The DC Home Page is displayed.
- 2) Click on the "Protocol Assignment" link at the top of the page. The Protocol Assignment Table is displayed.

PROTOCOL ASSIGNMENT TABLE							
tion	List Config	Device Config	PHY Config	Definitions	Tally Manager Config	Current Group (First..Last)	Status
tion	N/A	View Edit	View Edit	N/A	Inputs / Outputs Router with DA Global Alias Cfg	0 0..0	Connected
hitor	N/A	View Edit	View Edit	Monitor Source Labels	Inputs / Outputs Switcher	0 0..0	No Comm
ontrol	N/A	View Edit	View Edit	UMD Actions	Inputs / Outputs Unassigned	0 0..0	No Comm
ie	N/A	Unassigned	N/A	N/A	Inputs / Outputs Unassigned	0 0..0	No Comm

- 3) On the Protocol Assignment Table, on the Channel 1 row, in the "Tally Manager Config" column, click on the "Unassigned" link. The Channel Mode configuration web page is displayed.
- 4) Click on the "Edit" link at the top of the web page.
- 5) Select the appropriate channel mode (device type) from the drop down menu that describes the device connected to this DC channel. The available device types are Router, Switcher, Monitor Wall, Camera Tallies and Router with DA. For example, if a router is connected to Channel 1, select "Router".



NOTE: If Router is selected, each router output can assigned to only one production switcher or monitor wall Input. Select "Router with DA" to allow a single router output to be assigned to multiple Inputs.

NOTE: Select "Camera Tallies" device type only on a channel with "Control Protocol" set to "Unassigned".

- 6) Click on the "SAVE MODE" button to save selection, or click on "BACK" button exit without saving.
- 7) Click on the "Go Back" link to return to the Protocol Assignment Table web page. The "Unassigned" link is replaced with the selected channel mode.
- 8) Repeat steps 3 through 7 for each Tally Manager channel.

4. Configure Router Inputs Table

- 1) Launch your web browser and enter the Device Controller's IP address. The DC Home Page is displayed.
- 2) Click on the "Protocol Assignment" link at the top of the page. The Protocol Assignment Table is displayed.

PROTOCOL ASSIGNMENT TABLE							
Function	List Config	Device Config	PHY Config	Definitions	Tally Manager Config	Current Group (First..Last)	Status
Function	N/A	View Edit	View Edit	N/A	Inputs / Outputs Router with DA Global Alias Cfg	0 0..0	Connected
Monitor	N/A	View Edit	View Edit	Monitor Source Labels	Inputs / Outputs Switcher	0 0..0	No Comm
Control	N/A	View Edit	View Edit	UMD Actions	Inputs / Outputs Unassigned	0 0..0	No Comm
Channel Type	N/A	Unassigned	N/A	N/A	Inputs / Outputs Unassigned	0 0..0	No Comm

- 3) On the Protocol Assignment Table, on the Router Channel row, in the "Tally Manager Config" column, click on the "Inputs" link. The Router Inputs web page is displayed.
- 4) From the drop down menu displayed at the top of the Router Inputs web page, select the range of Inputs to be configured.

Edit: 0-99 / [Backup](#) / [Restore](#) / [Go Back](#) / [Refresh](#) / [Remote DC List](#)

Channel 1 Tally Manager Input Configuration

Input #	Source Type	Source Range	Output Number	Level	System Source Name (SSN)	SSN State Primary / Backup	Alias
0	FIXED	0-99			000	VALID	DISABLED
1	FIXED	100-199			001	VALID	DISABLED
2	FIXED	200-299			002	VALID	DISABLED
3	FIXED	300-399			003	VALID	DISABLED
4	FIXED	400-499			004	VALID	DISABLED
5	FIXED	500-599			005	VALID	DISABLED
6	FIXED	600-699			006	VALID	DISABLED

- 5) Click the "Edit" link near the top of the Router Inputs web page.
- 6) For each Input, under the Source Type column, select "Unassigned", "Fixed" or "Dynamic."

Fixed – Video source originates on this device.

Dynamic – Video source originates on another device.

Input #	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	Alias
700	FIXED	Main Router				Disabled
701	FIXED	Main Router				Disabled
702	FIXED	Main Router				Disabled
703	UNASSIGNED	Main Router				Disabled
704	FIXED	Main Router				Disabled
705	FIXED	Main Router				Disabled

NOTE: To set all Inputs to Fixed, press the "Set All to Fixed" button. This will affect all Inputs on the router, not just those within the selected range.

- 7) If Fixed is selected, enter the System Source Name (SSN) for that Input, OR leave the System Source Name field empty to use the System Source Name obtained from the router. In the Alias column, select the Alias mode for that Input from the drop down menu:

Number	Level	System Source Name (SSN)	Alias
			Disabled
			Disabled
			Disabled Local Global Local overrides Global
			Disabled
			Disabled

- i. Disabled – No alias is allowed. Only the System Source Name will be displayed on the UMD.
- ii. Local – A local alias may be assigned to this Input on a monitor wall that displays this Input. The alias will only affect the monitor wall where it is configured.
- iii. Global – A global alias may be assigned to this Input at the router. The alias will affect all monitor walls that display this Input.
- iv. Local Overrides Global – Local and global aliases may be assigned to this Input. If a Local alias is assigned, it will override a Global alias that has been assigned.

8) If Dynamic is selected, select the Source Device from the drop down menu and enter the Output Number that the Input is connected to. If the Source Device is a router, also enter the Level for that Output Number.

Input #	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	Alias
700	FIXED	Main Router				Disabled
701	DYNAMIC	Main Router				Disabled
702	FIXED	Main Router				Disabled
703	FIXED	MC Room 1				Disabled
704	FIXED	MC Room 2				Disabled
705	FIXED	MC Room 3				Disabled
706	FIXED	MC Room Aux				Disabled
707	FIXED	Main Router				Disabled

9) Repeat steps 6 through 8 for all Inputs as necessary.

10) Press the "SAVE_ALL" button to save the entered changes, or press the "Back" button to return to the previous page and discard all entered changes.

5. Configure Switcher Inputs Table

- 1) Launch your web browser and enter the Device Controller's IP address. The DC Home Page is displayed.
- 2) Click on the "Protocol Assignment" link at the top of the page. The Protocol Assignment Table is displayed.
- 3) On the Protocol Assignment Table, on the Switcher Channel row, in the "Tally Manager Config" column, click on the "Inputs" link. The Switcher Inputs web page is displayed.
- 4) From the drop down menu displayed at the top of the Switcher Inputs web page, select the range of Inputs to be configured.

Edit 0-99 / Backup / Restore / Go Back / Refresh / Remote DC List							
Channel 2 Tally Manager Input Configuration							
Input #	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	SSN State Primary / Backup	Alias
0	UNASSIGNED						
1	UNASSIGNED						
2	UNASSIGNED						
3	UNASSIGNED						
4	UNASSIGNED						
5	UNASSIGNED						

- 5) Click the "Edit" link near the top of the Router Inputs web page.
- 6) For each Input, under the Source Type column, select "Unassigned", "Fixed" or "Dynamic." Typically, "Dynamic" is selected for switcher inputs.
 - Fixed – Video source originates on this device.
 - Dynamic – Video source originates on another device.
- 7) If Fixed is selected, enter the System Source Name (SSN) for that Input. In the Alias column, select the Alias mode for that Input from the drop down menu.
 - i. Disabled – No alias is allowed. Only the System Source Name will be displayed on the UMD.
 - ii. Local – A local alias may be assigned to this Input on a monitor wall that displays this Input. The alias will only affect the monitor wall where it is configured.
 - iii. Global – A global alias may be assigned to this Input at the router. The alias will affect all monitor walls that display this Input.
 - iv. Local Overrides Global – Local and global aliases may be assigned to this Input. If a Local alias is assigned, it will override a Global alias that has been assigned.

- 8) If Dynamic is selected, select the Source Device from the drop down menu and enter the Output Number that the Input is connected to. If the Source Device is a router, also enter the Level for that Output Number.

Input #	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	Alias
0	UNASSIGNED	Main Router	0			Disabled
1	DYNAMIC	Main Router	20			Disabled
2	UNASSIGNED	Main Router MC Room 1	0			Disabled
3	UNASSIGNED	MC Room 2 MC Room 3	0			Disabled
4	UNASSIGNED	MC Room Aux Main Router	0			Disabled
5	UNASSIGNED	Main Router	0			Disabled

- 9) Repeat steps 6 through 8 for all Inputs as necessary.
- 10) Press the "SAVE_ALL" button to save the entered changes, or press the "Back" button to return to the previous page and discard all entered changes.

6. Configure Monitor Wall Inputs Table

A monitor wall may be made up of multiple multi-viewer cards, each individually controlled over an Ethernet connection. Tally Manager “sees” all of the multi-viewer cards as one control channel, on the Device Controller. In the Protocol Assignment Table, in the PHY CFG column, select EDIT to enter the IP addresses for each of the cards used.

Ethernet PHY Configuration

Line #	Card Label	IP Address	Port Number	Screen Number
1	Card1 Out1	192.168.10.149	8901	0
2	Card1 Out2	192.168.10.149	8901	1
3	Card2 Out1	192.168.10.150	8901	0
4	Card2 Out2	192.168.10.150	8901	1
5		0.0.0.0	8901	0
6		0.0.0.0	8901	0
7		0.0.0.0	8901	0
8		0.0.0.0	8901	0
9		0.0.0.0	8901	0
10		0.0.0.0	8901	0

1. Enter a unique Card Label for each card. (TSL V5 protocol requires a separate entry for each card output.)
2. Enter the card's IP address.
3. Enter the card's IP address. (Consult the card manufacturer's documentation)
4. For TSL V5 protocol only, enter the screen number. (Consult the card manufacturer's documentation.)

Monitor Wall Inputs Table

Each UMD line in the Input Table has three (3) entries:

UMD	<i>Source Device</i> identifies the router or switcher output that feeds the UMD input. <i>UMD#</i> identifies the UMD on the monitor wall
Left Tally (Primary)	<i>Source Device</i> identifies the switcher or other device output that indicates that the UMD source is on-air, in-record, or in-use. When this tally is "ON", the UMD text is red. <i>Left Tally#</i> identifies the controlled tally object on the monitor wall.
Right Tally (Secondary)	<i>Source Device</i> identifies the switcher or other device output that indicates that the UMD source is in-record or in-use. <i>Right Tally#</i> identifies the controlled tally object on the monitor wall.

- 1) Launch your web browser and enter the Device Controller's IP address. The DC Home Page is displayed.
- 2) Click on the "Protocol Assignment" link at the top of the page. The Protocol Assignment Table is displayed.
- 3) On the Protocol Assignment Table, on the Monitor Wall Channel row, in the "Tally Manager Config" column, click on the "Inputs" link. The Monitor Wall Inputs web page is displayed.

[Edit](#) / [Backup](#) / [Restore](#) / [Go Back](#) / [Refresh](#) / [Remote DC List](#) / [Tally Color](#)

Channel 3 Monitor Wall Input Configuration

Line #	Card Label	UMD Left Tally (T1) Right Tally (T2)	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	SSN State Primary / Backup	Alias	Prefix Selection	Prefix
1	No Card	0	UNASSIGNED							NONE	
		0	UNASSIGNED								
		0	UNASSIGNED								
2	No Card	0	UNASSIGNED							NONE	
		0	UNASSIGNED								
		0	UNASSIGNED								
3	No Card	0	UNASSIGNED							NONE	
		0	UNASSIGNED								
		0	UNASSIGNED								

- 4) From the drop down menu displayed at the top of the Monitor Wall Inputs web page, select the range of Inputs to be configured.
- 5) Click the "Edit" link near the top of the Router Inputs web page.

- 6) Select the multi-viewer card for the UMD identified in the UMD column. The Card Label column is only displayed for Multi-viewers using an Ethernet protocol.

Line #	Card Label	UMD Left Tally (T1) Right Tally (T2)	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	Alias	Prefix Selection	Prefix
0		0	UNASSIGNED	Main Router	5			Disabled	None	
	No Card	0	UNASSIGNED	Main Router	1					
	No Card	0	UNASSIGNED	Main Router	2					
	Card1 Out1	0	UNASSIGNED	Main Router	0			Disabled	None	
1	Card1 Out2	0	UNASSIGNED	Main Router	0					
	Card2 Out1	0	UNASSIGNED	Main Router	0					
	Card2 Out2	0	UNASSIGNED	Main Router	0					
	No Card	0	UNASSIGNED	Main Router	0					

- 7) Enter the UMD ID number in the UMD column.
- 8) Select Source Type from the drop down menu in the Source Type column. Typically, "Dynamic" is selected for monitor wall inputs.
- Fixed – Source originates on this device.
- Dynamic – Source originates on another device.
- 9) Select the Source Device for the Dynamic Input from the Source Device drop down menu and its Output Number. If the Source Device is a router, also enter the Output Level number.

Line #	UMD Left Tally (T1) Right Tally (T2)	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	Alias	Prefix Selection	Prefix
0	1	DYNAMIC	Main Router				Disabled	None	
	1	DYNAMIC	Main Router						
	2	DYNAMIC	MC Room 1						
				MC Room 2					
1	0	UNASSIGNED	MC Room 3				Disabled	None	
			MC Room Aux						
	0	UNASSIGNED	Main Router						
				Main Router					

10) In the Prefix Selection column, select the Prefix configuration that will be used on that UMD.

- ii. None – No Prefix will be displayed.
- iii. Fixed – A fixed text will be displayed in front of the System Source Name (SSN) or Alias.
- iv. Alias – The Alias will be displayed in front of the System Source Name (SSN).
- v. SSN – The System Source Name (SSN) will be displayed in front of the Alias.

Line #	UMD Left Tally (T1) Right Tally (T2)	Source Type	Source Device	Output Number	Level	System Source Name (SSN)	Alias	Prefix Selection	Prefix
0	1	DYNAMIC	Main Router				Disabled	None	
	1	DYNAMIC	MC Room 1					None Fixed Alias SSN	
	2	DYNAMIC	MC Room 1						
	0	UNASSIGNED	Main Router	0			Disabled	None	

11) If Fixed Prefix is selected, enter the fixed text in the Prefix column.

12) Repeat steps 6 through 11 for all monitor wall inputs.

13) Press the "SAVE_ALL" button to save the entered changes, or press the "Back" button to return to the previous page and discard all changes.

7. Configure Camera Tallies Inputs Table

- 1) Launch your web browser and enter the Device Controller's IP address. The DC Home Page is displayed.
- 2) Click on the "Protocol Assignment" link at the top of the page. The Protocol Assignment Table is displayed.
- 3) On the Protocol Assignment Table, on the Camera Tally Channel row, in the "Tally Manager Config" column, click on the "Inputs" link. The Camera Tally Inputs web page is displayed.
- 4) Click the "Edit" link near the top of the Camera Tally Inputs web page.

<input type="button" value="SAVE_ALL"/> <input type="button" value="Back"/>						
#	Type	Label	System Source Name (SSN)	Control Room		
				Source Device	Output Identifier	Output Level
1	GPO	GPO_1	<input type="text"/>	Main Router <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
2	GPO	GPO_2	<input type="text"/>	Main Router MC Room 1 MC Room 2 MC Room 3 MC Room Aux	<input type="text"/>	<input type="text"/>
3	GPO	GPO_3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	GPO	GPO_4	<input type="text"/>	Main Router <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>

- 5) For each GPO or Virtual Tally, assign a video signal System Source Name. When that SSN appears on the output of the selected Source Device, the GPO or Virtual Tally turns on.
- 6) Select the Source Device from the drop down menu and enter the Output Number that will be monitored. If the Source Device is a router, also enter the Level for that Output Number.
- 7) Repeat steps 5 – 6 for each GPO and Virtual Tally that will be used.
- 8) Press the "SAVE_ALL" button to save the entered changes, or press the "Back" button to return to the previous page and discard all entered changes.