ADVANCED CONTROL SYSTEMS

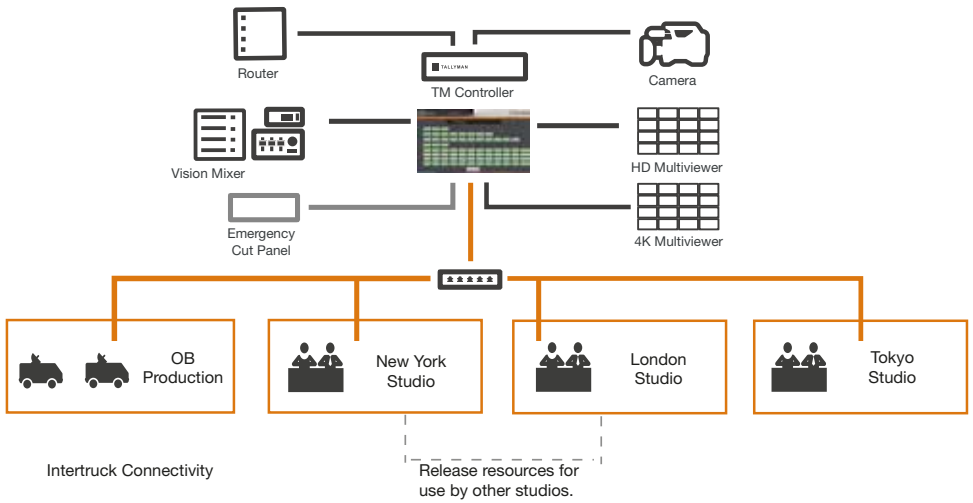
FUNCTIONALITY DEEP-DIVE SERIES

Issue One: Router Control

Every customer has their own workflows and challenges to address; users should be able to leverage the full capabilities of their systems. In this series of How-To Guides, we will help engineers understand how to configure systems with added-value functionality to help solve issues in existing and future projects.

Customers will be able to use a control platform as a simple unified system to deliver professional output and make simple day-to-day modifications without the need for expensive support calls.

This How-To Guide showcases TSL's Router Control capabilities.



SCENARIO

Imagine that users need to be able to manage signal routes throughout a facility via an operational control interface between the sources and destinations. This might include routing video, audio and data signals between the various elements of a network. You might need to:

- Route a camera signal to a vision mixer, as well as through other processors, before it arrives at its destination
- Have an external event trigger a complete reconfiguration of a multi-router setup
- Route several sources simultaneously
- Make set routes or multiple routes via a single button press.

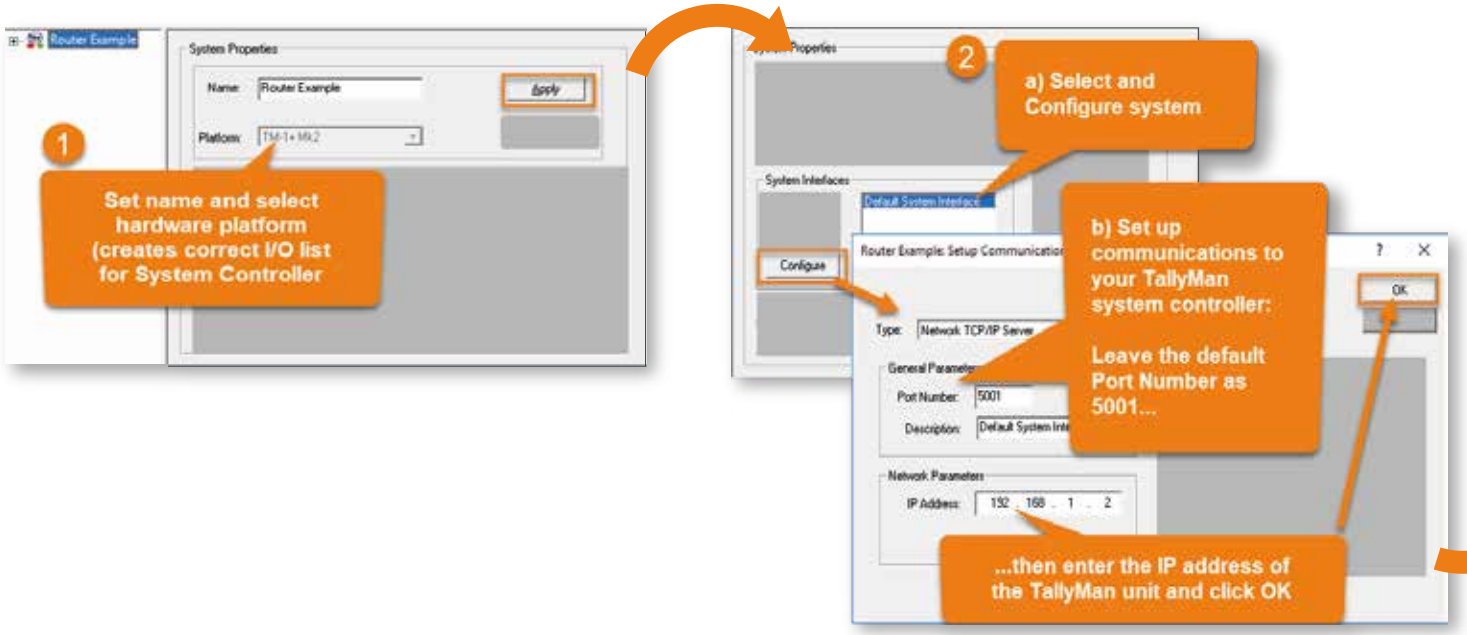
Users need a system that will send a signal precisely where it's needed to maintain clear and efficient production. TSL's router control functionality provides the flexibility and control to build an appropriate signal path for any given operation.

This guide provides in-depth instructions on how to:

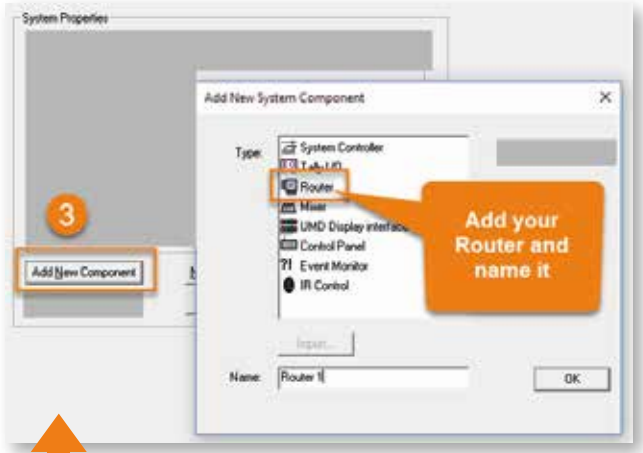
- Set up targeted signal routing between a System Controller and a Router using TSL's TallyMan software
- Design a user-friendly virtual panel (TMVP) that will help operators use the platform as a simple unified system delivering professional output
- Use the configured Router to connect to a physical TallyMan Control Panel (TMCP).

1. SET UP ROUTER CONTROL

First, we need to set up the system.

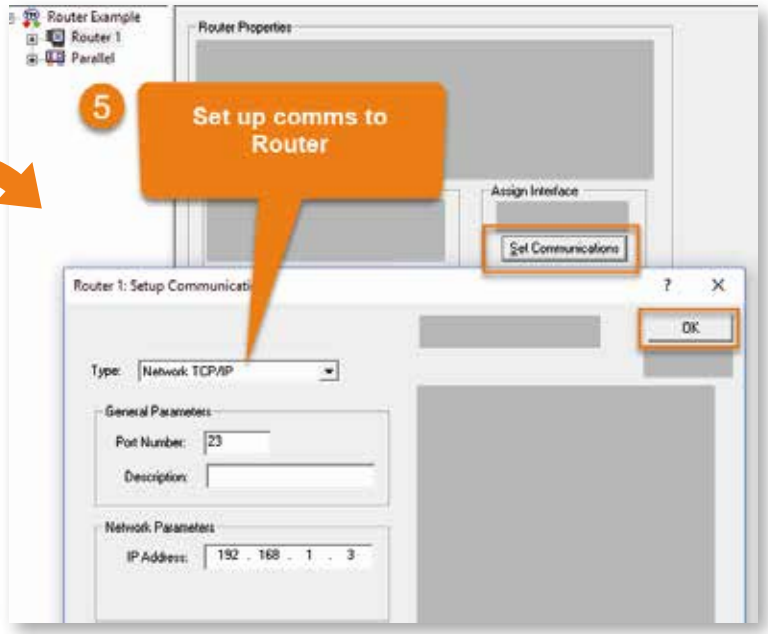


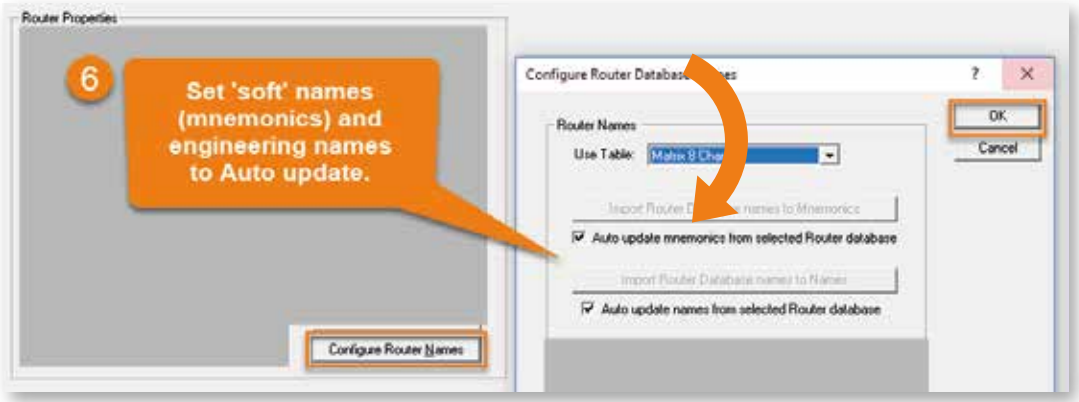
Now we can configure the router to our configuration.



Set the type to the correct protocol for your router and set the size.

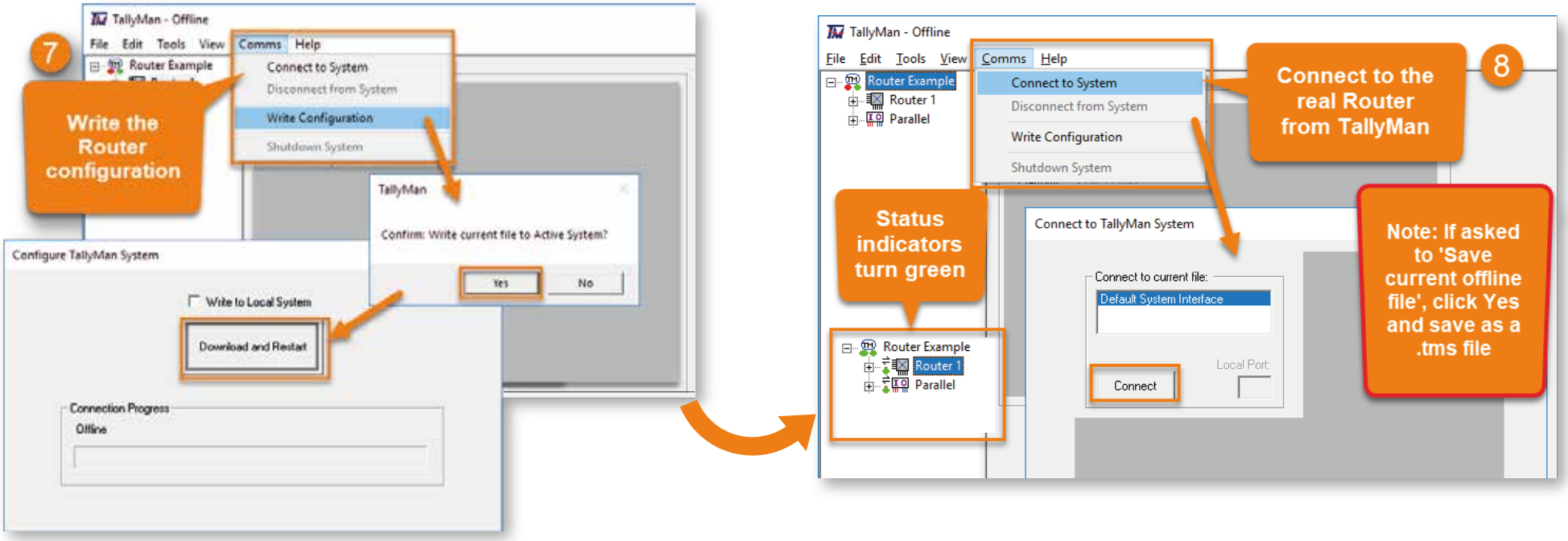
Setup the communication settings for the router.





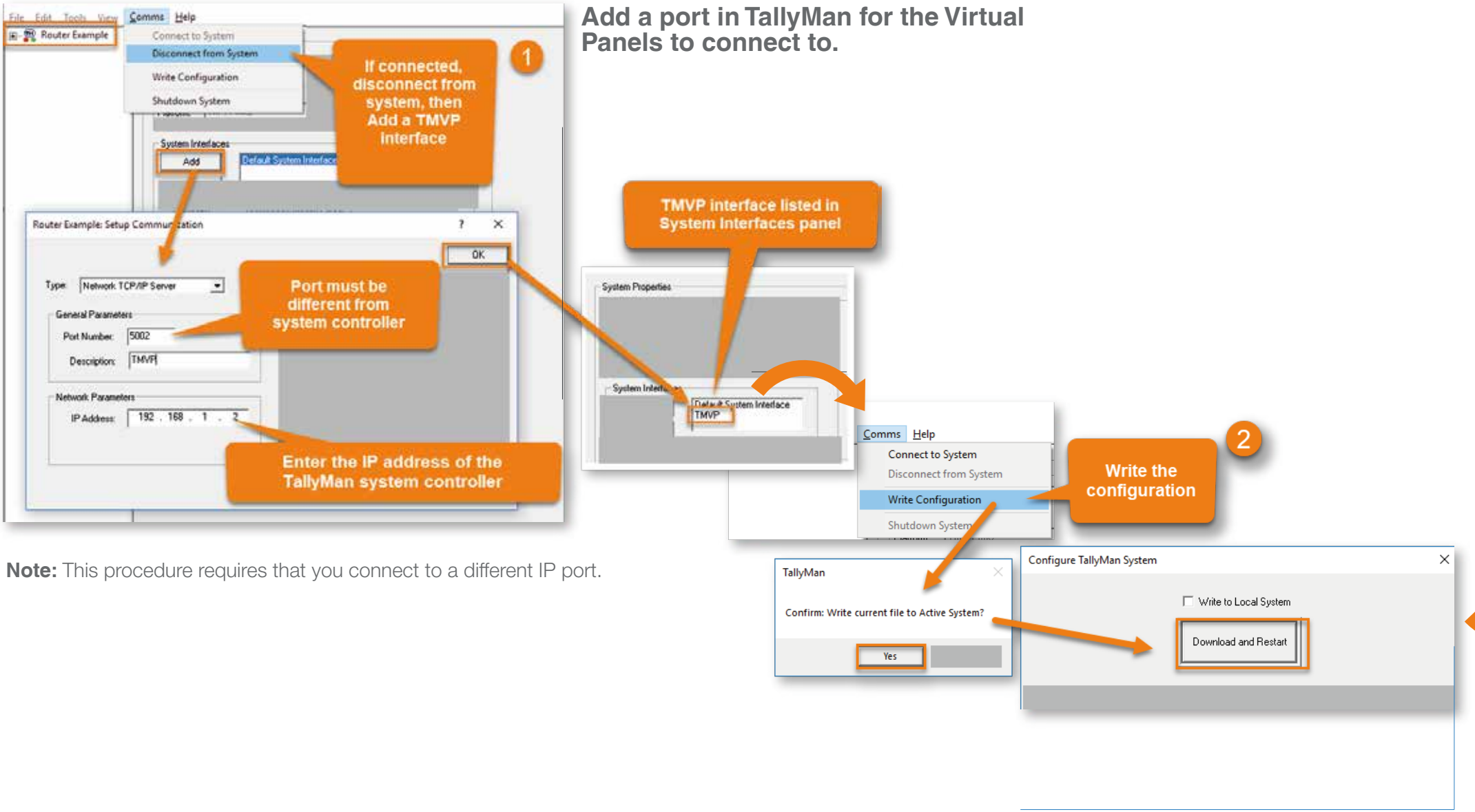
Write the configuration to the TallyMan System Controller.

Connect to the system controller to check the router is connected.

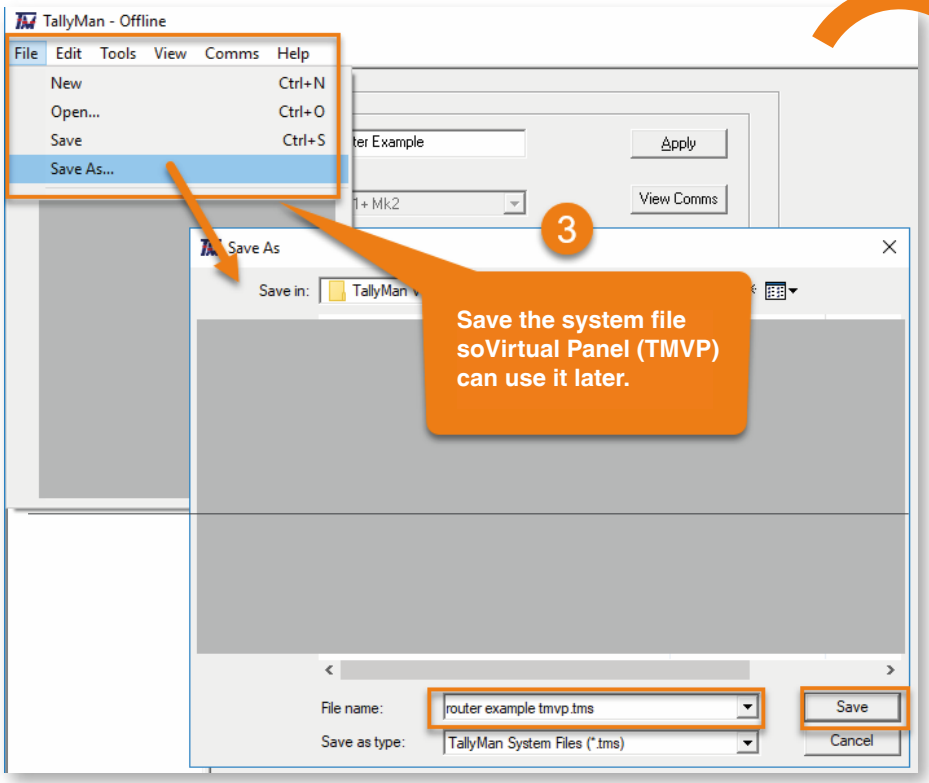


2. SET UP VIRTUAL PANEL

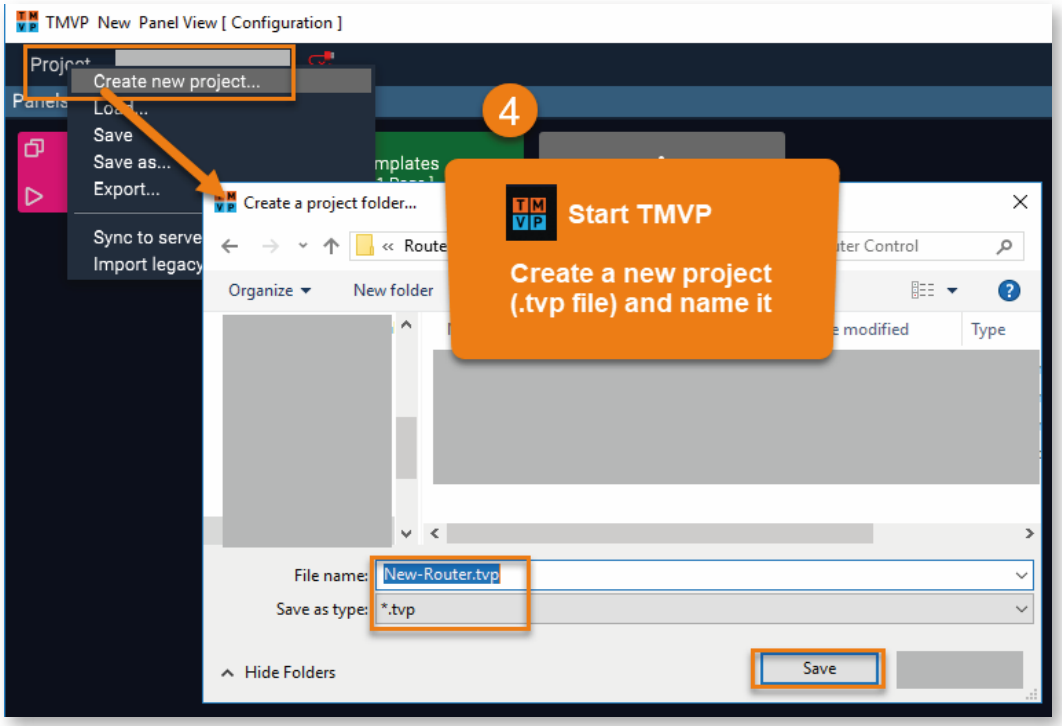
Add a port in TallyMan for the Virtual Panels to connect to.

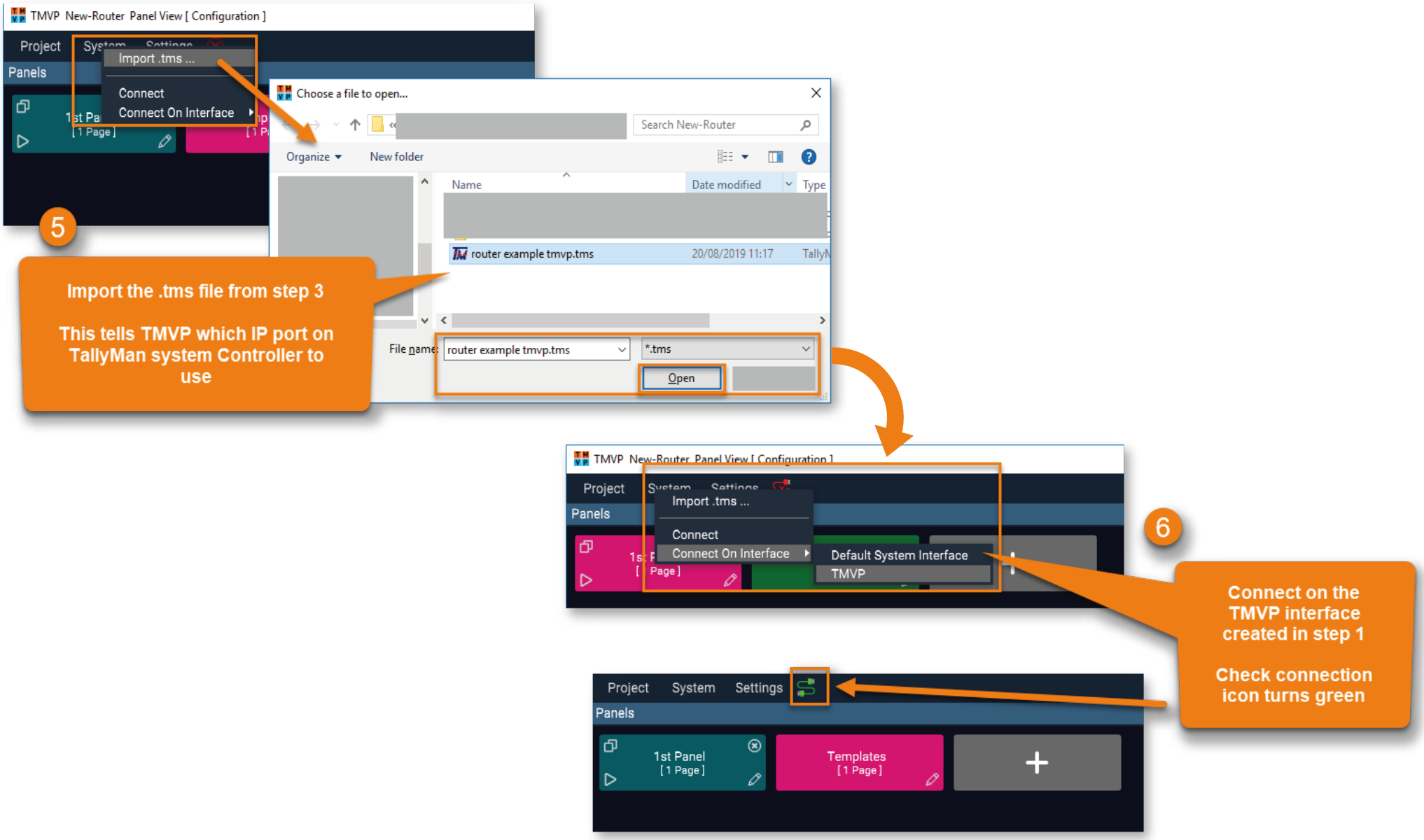


Note: This procedure requires that you connect to a different IP port.

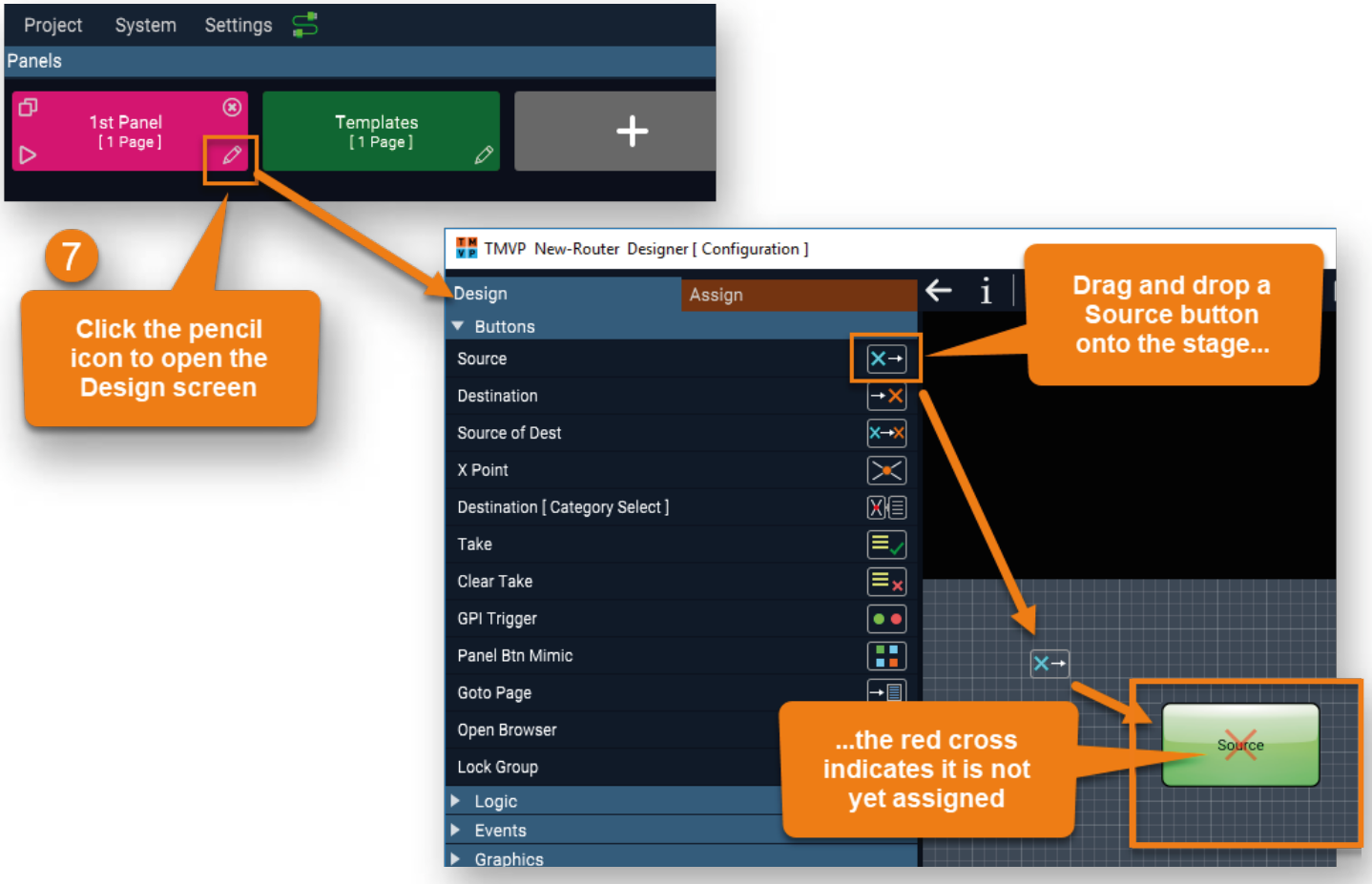


Open up TMVP Software to setup Virtual Panels that will connect to the TallyMan Controller.

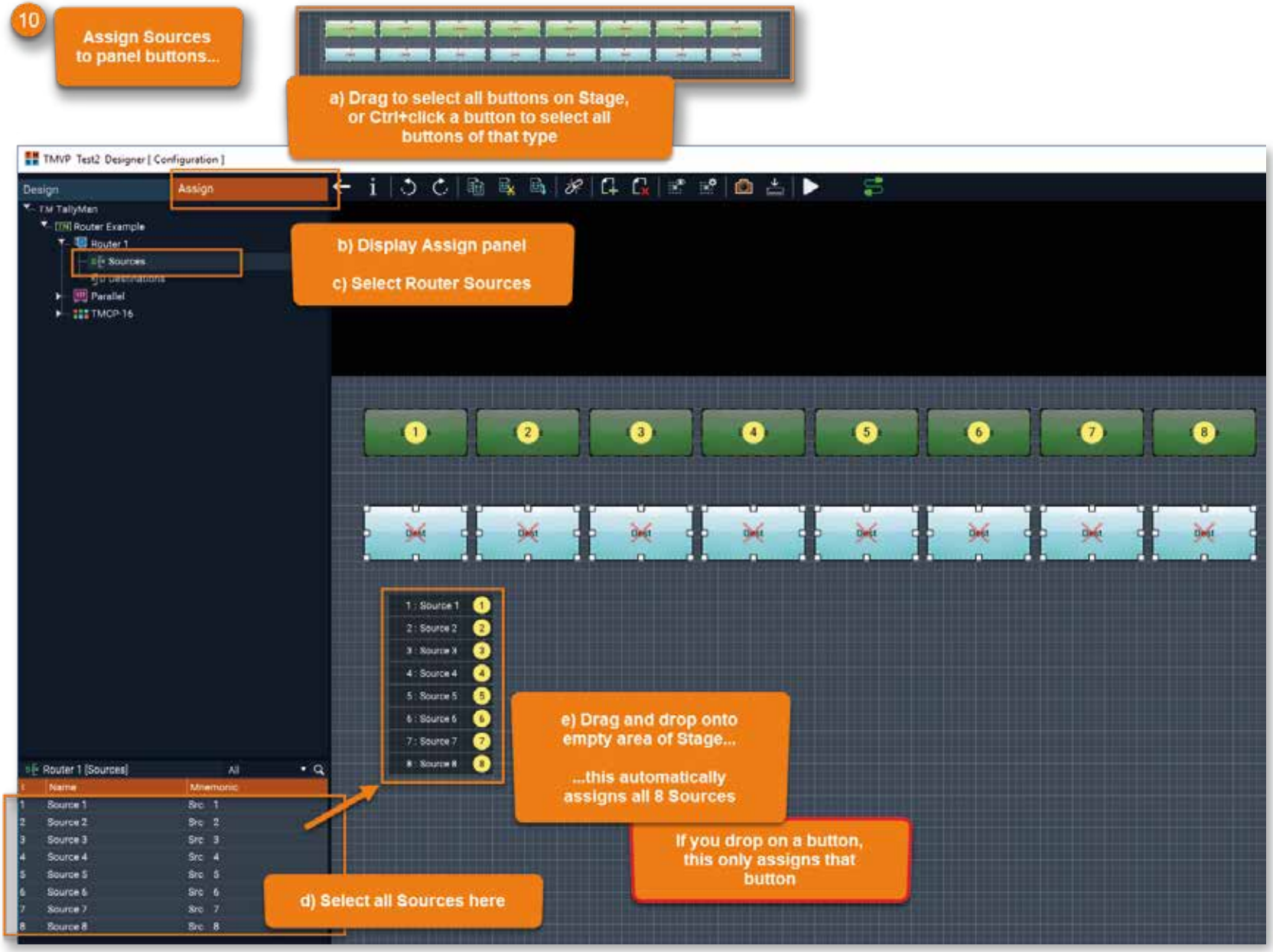


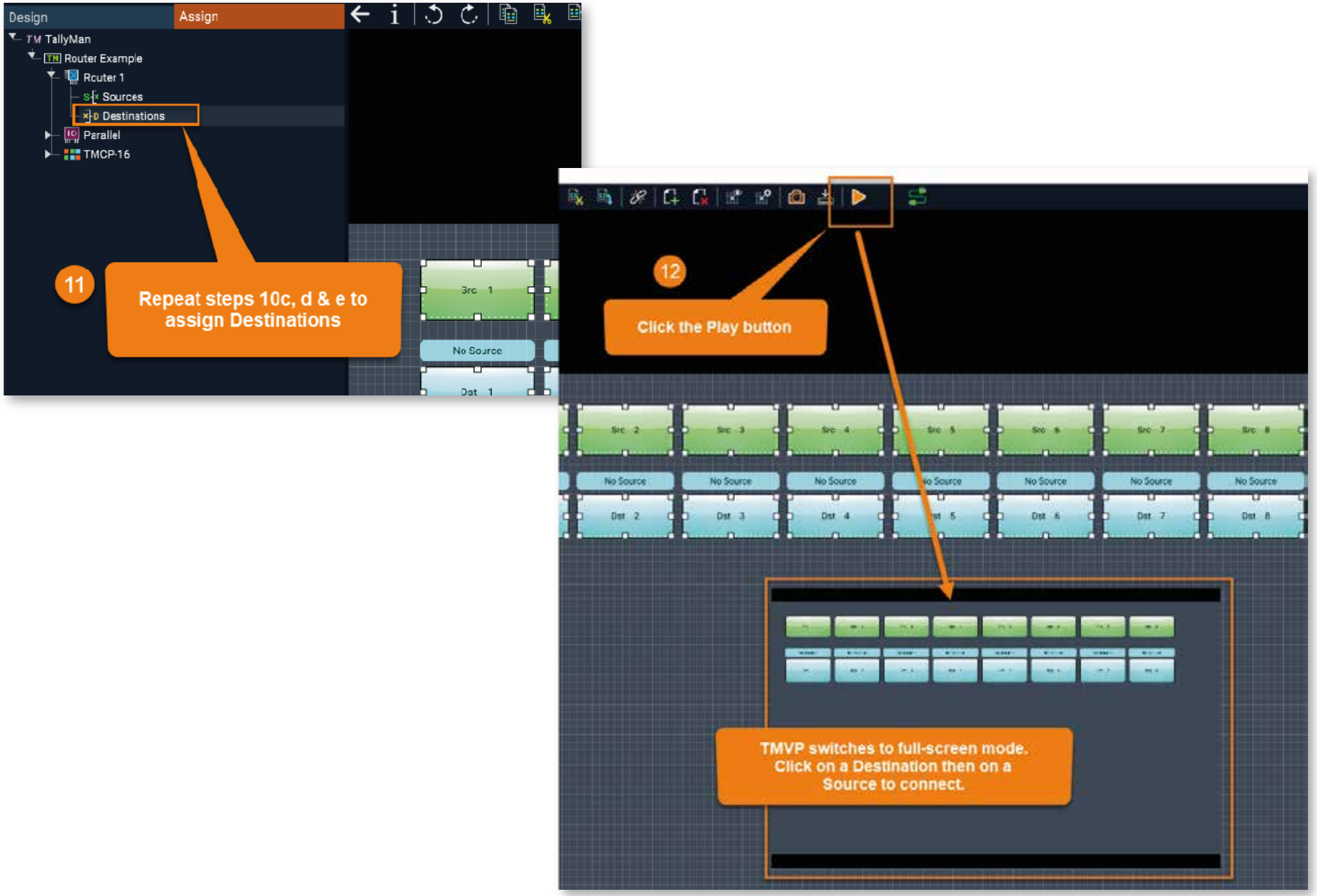

TMVP New-Router Panel View [Configuration]
Project
Panels
Import .tms ...
Connect
Connect On Interface
Choose a file to open...
Search New-Router
Organize
New folder
Name
Date modified
Type
router example tmvp.tms
20/08/2019 11:17
File name:
router example tmvp.tms
*.tms
Open
5
Import the .tms file from step 3
This tells TMVP which IP port on TallyMan system Controller to use
Default System Interface
TMVP
6
Connect on the TMVP interface created in step 1
Check connection icon turns green
System
Settings
1st Panel
[1 Page]
Templates
[1 Page]

Now that TMVP and the TallyMan controller are connected, lets begin making a router control panel.



8
Right-click on the Source button and make an 8 x 1 array
Source
Make Array
Align Horizontally
Align Vertically
Distribute Horizontally
Distribute Vertically
Send To Back
Bring To Front
Copy Style
Paste Style
X
Y
8
X
1
Spacing
1
1
Make
Source
9
TMVP New-Router Designer [Configuration]
Design
Assign
Buttons
Source
Destination
Source of Dest
X Point
Destination [Category Select]
Take
Clear Take
GPI Trigger
Panel Btn Mimic
Goto Page
Open Browser
Lock Group
Logic
Events
Graphics
Timers
Repeat steps 6, 7 and 8 to create an 8 x 1 array of Destination buttons


10
Assign Sources to panel buttons...
a) Drag to select all buttons on Stage, or Ctrl+click a button to select all buttons of that type
TMVP Test2 Designer [Configuration]
Design
Assign
TM TallyMan
Router Example
Router 1
Sources
Parallel
TMCP 16
b) Display Assign panel
c) Select Router Sources
1 : Source 1
2 : Source 2
4 : Source 4
5 : Source 5
6 : Source 6
7 : Source 7
e) Drag and drop onto empty area of Stage...
...this automatically assigns all 8 Sources
If you drop on a button, this only assigns that button
Router 1 [Sources]
All
Name
Mnemonic
Source 1
Source 2
Source 3
Source 4
Source 5
Source 6
Source 7
Source 8
d) Select all Sources here


Design
Assign
TM TallyMan
TN Router Example
Router 1
Sources
Destinations
Parallel
TMCP-16
11
Repeat steps 10c, d & e to assign Destinations
Src 1
No Source
Dst 1
12
Click the Play button
Src 2
Src 3
Src 4
Src 5
Src 6
Src 7
Src 8
No Source
Dst 2
Dst 3
Dst 4
Dst 5
Dst 6
Dst 7
Dst 8
TMVP switches to full-screen mode. Click on a Destination then on a Source to connect.

ROUTER PANEL EXAMPLE

The software is designed to allow you to be creative and with practice, you can easily add more functionality.

Contact our international team

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