

## The GTP-32 Control Processor

helps you solve equipment interface, control and monitoring problems, quickly and easily

### The GTP-32 Control Processor

- Is unlike anything on the market
- Offers simple, cost-effective, and easily accessible solutions
- Controls and monitors equipment in the same room, on another floor, in another building, across town, and around the world
- Supports GPI/O, Serial, Ethernet, LAN, WAN, VPN, Internet, TCP/IP, UDP, SNMP, SCTE, and more

### The GTP-32 Control Processor

- Works with a wide range of broadcast and production equipment  
VTRs, DDRs, video servers, graphics systems, logo inserters, video routers, video switches, production switchers, master control switchers, multi-viewers, camera tallies, on-air tallies, audio devices, camera pedestals, and more...
- Supports an extensive list of equipment control protocols

### The GTP-32 Control Processor

- Is a “control infrastructure” that is expandable and adaptable
- Can be easily configured and re-configured as equipment and the needs of the facility change  
No programming or scripting required.



### A Problem Solver For

- Time triggered events
- Time delayed events
- Monitor Wall text and tally control
- On-Air tallies
- EAS crawls and audio-overs
- VTR / DDR / Video Server play out control and monitoring
- GPI routing
- Router control and monitoring
- Graphics control
- SCTE command generation
- SCTE A/B Switch
- SNMP message generation
- Camera tally control, local and remote
- Video A/B Switch control and monitoring, local and remote
- Shared control between control positions and control facilities

# The GTP-32 Control Processor gives you the tools to easily solve control and interface problems



Production Control Rooms #1 and #2 share cameras in Studio #A  
 PCR #1 controls the camera tallies for the morning & afternoon shows. PCR #2 controls them for the evening shows  
 When a PCR is controlling the camera tallies, it also needs to control the Studio On-Air lights

*"The GTP-32 makes it so easy to respond to Operation's requests and changes. What used to take days and weeks can now be done in hours."*

*"With the GTP-32, I finally have a control system that does what I want it to do. I can easily change configurations by myself."*

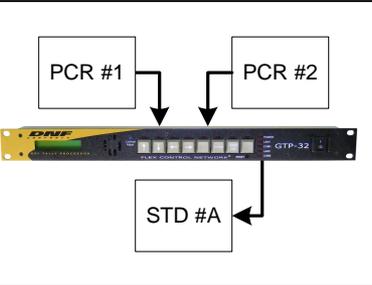
*"The GTP-32 is used throughout the building for passing tallies, controlling graphics, rolling automation breaks, delegating control between studios, driving monitor walls, controlling on-air lights, and providing equipment error indicators. It is the control backbone."*

 Fred mounts relays on a board to control 3 camera tallies and 2 studio On-Air lights.  
 He runs wires from control rooms to studio.  
 He mounts a switch in each PCR to take control of the camera tallies.

 The camera tally system works fine.  
 Time passes and Fred is promoted and moves into another department.

 Joe takes over the camera tally system.  
 He is asked to add 2 more cameras.  
 He discovers that the system can not be easily expanded.

 Joe replaces the existing system with a GTP-32.  
 He wires PCR tallies to GTP-32 GPIs.  
 He wires camera tallies and studio On-Air lights to GTP-32 GPOs.



 Joe uses a web-browser to configure the GTP-32 inputs and outputs for 5 camera tallies and 2 On-Air lights.  
 Oops. Another change. Make that 6 cameras and 3 On-Air lights.

 Joe is done.



When you need to push a button.....

Create a button panel solution by simply connecting a Universal Switch Panel to your GTP-32 Control Processor



### USP-16 Universal Switch Panel

*"The USP / GTP-32 combination opens the door to endless control & statusing possibilities"*

*"When used with the GTP-32, one USP panel can control graphics, A/B switching, roll clips, change routers, control keyers, you name it."*

Tom in **Operations** tells Joe in **Maintenance** that the producer in PCR1 needs a button panel to change on-set graphics during his show.... **by the end of the week**

### LAST YEAR....

Joe looks for a metal panel, buttons, and wire to build a button panel

Joe drills holes, mounts buttons, and solders wires.  
He runs wires from PCR 1 to the equipment room.  
He installs and tests.  
Joe is done.

"Joe, the producer wants one more button and make them all green backlights"

Joe is not done

### THIS YEAR....

Joe installs a USP-16 push-button panel in PCR1.  
He runs a cable from the existing GTP-32, in the equipment room, to the graphics playout device, two racks over.

Joe uses a web-browser to configure the USP and GTP-32.  
He assigns legends and colors to the 5 USP keys.  
He assigns a USP key to each GTP-32 GPI Output, to select a graphic.  
Joe is done.

"Joe, the producer wants one more button and make them all green backlights"

Joe assigns a legend and color to another USP key.  
Then, on the GTP-32, he assigns the graphic to be controlled.  
He changes all key colors to green.  
Joe is done.



Equipment & technology continually change forcing you to adapt. Use the GTP-32 to

- Change GPI control to serial and Ethernet control.
- Change serial and Ethernet status to GPI status.
- Take GPI triggers from “old reliable” to control and monitor the new gear.

Routers, switchers, graphics, video servers, DDRs, multi-viewers, tally systems, .....



*"The GTP-32 is so simple to setup.... select from a list of source events, assign an action, and then try it. Easy to tweak to get it just right. No programming. No scripting. The built-in diagnostic tools and logs eliminate the guesswork."*

*"The existing switch panels connected to a local GTP-32 in Transmission. The new equipment and GTP-32 was installed down the block in the new building. Configured the GTPs and connected them together. Worked the first time and kept on working."*

*"Was monitoring an old style switcher using serial to the GTP-32. Driving on-air lights and monitor wall tallies. Got a new Ethernet based switcher. Got the new protocol from DNF and installed an Ethernet cable."*

*"The GTP-32 allowed us to mix old and new equipment in the facility. Over time the old will be replaced by new, but workflow will remain the same."*

The original graphics system supported GPIs for triggering graphics. It is no longer supported and breaks down frequently.

Recently, it was replaced with a new unit that requires a serial connection to control graphics.

The goal is to use the existing button panels and graphics control system, just change the interface from the original device to the new



Joe installs a GTP-32 in the equipment room near the original graphics system.

He runs a cable to the original system's Inputs and Outputs.

He runs another cable to the new graphics device.



Joe connects the original system to the GTP-32's GPIs and GPOs.

He connects a GTP-32 serial port to the new device.



Joe uses a web-browser to configure the GTP-32 GPIs, GPOs and serial port

He tests the system. It works.



Joe is done.



**You need to connect equipment located on different floors and in different buildings. Running multi-core cable is not an option.....**

**Place GTP-32s where you need them around the facility, between facilities, at remote locations. Connect them together over LAN, WAN, or the Internet.**



*"The GTP-32 is used to pass tallies between facilities in the north and south of the country. Set it and forget it. Easily make changes for special events, maintenance, and new equipment."*

*"Setting up the GTP-32 is easy. Select a GPI. Assign it to a GPO. Assign it to 2 GPOs. Repeat for each GPI. Save one configuration for each studio. Use a GPI to recall the correct configuration."*

*"Troubleshooting tallies is simple. Punch up source on switcher then check GPI web page."*

*Is it on? Which one is on?*

*Use the diagnostic tool to turn on/off GPOs, one at a time."*

During Breaking News events, you share stories with other stations in your group. Sometimes you roll stories from your video server. Sometimes you provide a live feed from your newsroom. Sometimes you do both.

To prevent mistakes you need On-Air tallies back from the sister station when they put your video server or studio on-air.

### LAST YEAR....



Pete in Station A calls Jim in Station B to request a story feed.

Jim loads the story on a video server playout channel and waits.....



Pete calls back, "Roll the story!"

Jim rolls the story, then gets called to the equipment room.



The director tells Joe to review the stories for the Evening News.

Joe grabs an "used" video server channel and accidentally stops the feed to Station A.

### THIS YEAR....



Pete in Station A calls Jim in Station B to request a story feed.

Jim loads the story on a video server playout channel and delegates control to Pete at Station A.



Pete rolls, recues and then rolls the story to air from his USP-16 panel.

An On-Air light next to the video server in Station B turns on.



The director tells Joe to review the stories for the Evening News.

Joe sees that the video server channel is in use and finds another one.



Your facility has a specific workflow with specific control needs. Operations wants to minimize changes to their workflow. You just bought a new device that does not provide the hardware panels that they need.

Using the GTP-32, create a custom, off-the-shelf, control system that meets Operations needs.



*"Every time a new control issue crops up, I call DNF. If the GTP-32 doesn't already do it, they help me find a solution or add the needed function. I use it for just about everything. Is there anything the GTP doesn't do?"*

*"With the GTP-32, I finally have a control system that does what I want it to do. I can easily change configurations by myself."*

*"The GTP-32 makes it so easy to respond to Operation's requests and changes. What used to take days and weeks can now be done in hours."*

*"The GTP-32 and USP-16 is what we use to solve operator control problems. They are all over the plant."*

The new camera switch you just bought is state of the art technology with fiber optic camera routing using light wave circuits.

The only problem is that the user has to use a Windows® application to do camera switching. Operations wants a push button panel with status.



At the next Engineering staff meeting, the team explores its options for solving the problem.



Changing camera switches is not an option. Making Operations use a mouse and keyboard is also not an option.



After a little research, it is learned that the camera switch can be remotely controlled.



Reviewing the list of available control equipment in-house, there is a GTP-32 and USP-16 with some unused keys.



DNF can support the new camera switcher control protocol on the GTP-32.



The new protocol is installed on the GTP-32. It is configured to control and monitor the camera switch. The operators use the USP-16 to select a camera.