Application Note



Remote Control of Miranda's NVISION Routers

# Introduction

You can control Miranda's NVISION routing systems from a remote location by using Miranda's router control GUI panel application operating on a Windows<sup>®</sup> PC. Remote control assists in (1) disaster recovery and (2) control of automated locations. It also provides other general benefits.

vice Sele		ros Help						-Destination: 1	EST OC1 -	
New/Clas	1	Sour	се	Destination	TEST	More Info	Source Preset	Levels		
evices							Take State		Offline	Video
DSAT1	DSAT	2 DS	AT3	DSAT4	DSAT5				Offline	Audio1/2
DSAT6	DSAT	7 DS	AT8	DSAT9	SATOMNI					
SATDC2	HDSAT	1					Chop		Offline	Audio3/4
		_					Broadcast			
	_	_	_				Src is Master			Data
	ļ						User Buttons			
					-		Prev Src			
							SDI BLK			
ategories AVC	CAM	ENC	DVD	EDIT	EVERTZ		SDI BARS	Preset Rel.		Lock Prot.
						weed		Clear All Presets		Hold
MCR	PPT	SAT	SCAN	TEST	TSL	8		Level Map		Save Preset

### Figure 1. EC9700 Control GUI

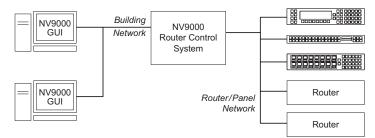
Two licenses for the GUI control panel are standard with every NV9000 system. The GUI can be configured as an X/Y control panel, single-destination control panel, a multiple-destination control panel, and can combine these modes. Because the GUI configuration resides within the NV9000 server, any changes made to the *router* configuration are automatically reflected on the GUI without any reconfiguration on a remote PC operating the GUI.

Any GUI configuration might connect just a few sources to a single destination or it might control the entire router system. You might want to limit the number of router connections that some operators can control, while providing complete control of the router for more qualified operators. With remote control, you can spread differently configured GUIs around your facility (or around the world.)

The NV9000 server has a "house network" port that you can connect to your common building network. Any PC on this network may control the system's routers using the EC9700 GUI.

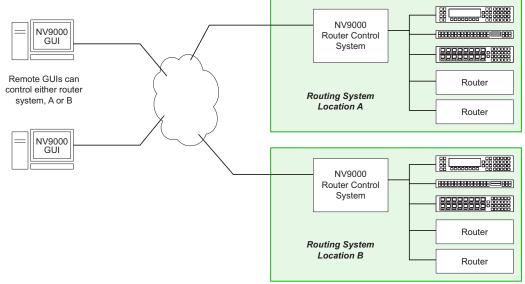
1

If you extend your network either physically or virtually, using VPN, you can control the router from any location.



### Figure 2. Router System

To help operators control more than one NV9000 (e.g., NV9000 systems in different cities) we offer a simple GUI panel switch application. This is configured with each remote NV9000's IP address to allow a GUI to make a connection with any of the NV9000 systems. Using a GUI panel the operator can easily switch between different NV9000 systems, either within a building or throughout the world.



### Figure 3. Router System

Again, the GUI's configuration resides within each of the NV9000 servers. The GUI obtains the current configuration when it connects to a server. Configuration changes are performed at the NV9000 without requiring any reconfiguration of the remote GUI.

# Virtual Panels

Miranda has recently introduced a new set of virtual panels: these software panels emulate our most popular hardware panels. Now anyone can have a router control panel—operating on their computer.

The virtual panels (VPs) can also operate over your house network (LAN or WAN). You can easily reconnect a VP to a different NV9000 routing system. These new panels are platform-independent: they operate on Windows PCs, Macs, or Linux computers.

	0N - NV9	605V																	
REM	REM	REM	REM	CAM	CAM	CAM	CAM	VTR	VTR	VTR	VTR	WEB	WEB	WEB	WEB	CAM-91	Page	Hold	Dst
1	2	3	4	1	2	3	4	11	21	25	25R	1	2	3	4		Up	Pst	Lock
REM	REM	REM	REM	CAM	CAM	CAM	CAM	VTR	VTR	VTR	VTR	WEB	WEB	VTR	VTR	VTR 41	Page	Menu	Prev
5	6	7	8	91	92	93	94	26	26R	27	27R	5	6	41	42	PAGE 1	Dn		Src

Figure 4. NV9605 Virtual Panel

- Y est TR 41	Preset	Status CAM-2 CAM-2 CAM-2 CAM-2		† 1† 2†	SOURCES CAM	Sources VTR	DESTS VTR	SALVOS	Info	Page up			Prev Src	Take
age l		CAM-2 CAM-2 Offline Offline	AUDIO	2+ 3† 4† +	XY MD	DST- LEVEL SELECT	Dst Lock	Dst Prot		Page Down	DESTS CAT VTR	SOURCES CAT VTR	GFX CAM	QC-2
					Menu				Hold Pst	Clear Pst		NBATV		Panel Lock



## Conclusion

Many installations require remote control of the routing system. Remote control is easily accomplished using Miranda's software control panels or virtual panels (GUIs) on remote PCs.

The NVISION series has many panel styles. Choose the panels that best fit your needs.