



# MCN Server 8000™ v10 for Motorola Solutions IP Comparators

Fire Radio Tech CTI - McnServer 8000												
File Options View Help												
C	N	NE	E	SE	S	SW	W	NW	Marine	City Wide	OTAL Primary & Secondary	
ON THE AIR LIGHT		NE Zone										
OTAL 03 Fire-NE		OHL:Line From Primary Site										
OTAL 03 Fire-NE		OHL:Line From Secondary Site										
NE Zone Primary			CH16	TX State	NE Zone Secondary			CH16	TX State			
Comparator State			Active			Comparator State			Main Active			
NE-01 Kenwood	(Tx)	Rx 5		Tx Voice Ana	NE-01 Kenwood	(Tx)	Rx 5		Tx Voice Ana			
NE-02 Blue Ash	(Tx)	Rx 5		Tx Voice Ana	NE-02 Blue Ash	(Tx)	Rx 5		Tx Voice Ana			
NE-03 Symmes Township			Disable			NE-03 Symmes Township			Disable			
NE-04 Montgomery	(Tx)	Rx 5		Tx Voice Ana	NE-04 Montgomery	(Tx)	Rx 5		Tx Voice Ana			
NE-05 Loveland	(Tx)	Rx 5		Tx Voice Ana	NE-05 Loveland	(Tx)	Rx 5		Fail IP Link			
NE-06 Mason		Rx 5			NE-06 Mason		Rx 5		Fail IP Link			
NE-07 Madeira		Rx 5			NE-07 Madeira		Rx 5					
NE-08 Indian Hill	(Tx)	Rx 5		Tx Voice Ana	NE-08 Indian Hill	(Tx)	Rx 5		Tx Voice Ana			
NE-09 Milford	(Tx)	Rx 5		Tx Voice Ana	NE-09 Milford	(Tx)	Rx 5		Tx Voice Ana			
NE-10 Landen	(Tx)	Rx 5		Tx Voice Ana	NE-10 Landen	(Tx)	Rx 5		Tx Voice Ana			
NE-11 Lunken		Rx 5			NE-11 Lunken		Rx 5					
NE-12 Sharon Woods	(Tx)	Rx 5		Tx Voice Ana	NE-12 Sharon Woods	(Tx)	Rx 5		Tx Voice Ana			
NE-13 Mariemont	(Tx)	Rx 5		Tx Voice Ana	NE-13 Mariemont	(Tx)	Rx 5		Tx Voice Ana			
NE-14 Devoe		Rx 5			NE-14 Devoe		Rx 5					
NE-15 Withrow		Rx 5			NE-15 Withrow		Rx 5					
NE-16 Ault Park	(Tx)	Rx 5		Tx Voice Ana	NE-16 Ault Park	(Tx)	Rx 5		Tx Voice Ana			

## Introduction

The MCN (Monitoring and Control Network) Server 8000™ software monitors and controls receiver voting systems from a PC over IP network. Support is provided for the following Motorola Solutions IP comparators:

- GRV 8000 Analog or Digital Comparator
- GCM 8000 Digital Comparator
- MLC 8000 Analog Comparator
- Mixed Mode voting systems using a GCM 8000 or GRV 8000, and MLC 8000 combination

The MCN Server 8000 processes status messages (Vote, Receive, Disable, Fail messages) from the comparators and passes them to client displays on the IP network. The display screens can be user-defined with various numbers of rows and columns and a number of tabs. Multiple screens can be defined for different users. (Police Dispatch, Fire Dispatch, Technicians) Individual client PCs can be limited to specific screens if desired.

The MCN Server 8000 also accepts control commands (Force-Vote, Disable) from the remote clients and sends them to the comparators. The MCN Server 8000 supports multiple clients and may be located remotely from the comparator equipment.

It also maintains the ability to monitor and control different types of legacy equipment, such as comparators/ voters and I/O and Alarm devices.

## System Configuration

Common system configuration information (Receiver names, Module addresses, channel information, display screen configuration, output functions, etc.) resides in the MCN Server 8000 and is user-configured with the MCNConfig Server 8000 program.

## Remote (Client) Display

The Client PC display features real-time status monitoring and control of the modules on the MCN network. The client display opens a display screen from the server and accepts status updates from it.

Control functions such as Force-Vote or Disable for comparators are passed to the server for processing.

## Local (Server) Display

The Server software includes local display and control capability.

## Receiver Failure and Error Logging

The MCNRCD Server software can log receiver failures and other user-defined errors. The error log can aid in diagnosing intermittent receivers or phone lines. Logging can be sent to:

- PC Screen
- Disk
- Printer

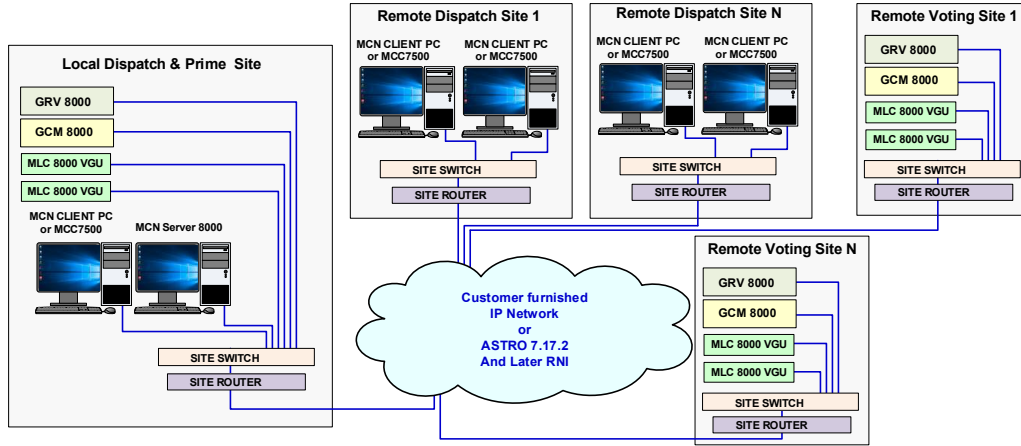
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**MCN Server 8000 Specifications**

Application type	Native 64-Bit Windows Applications
Operating Systems	Windows 10 Pro, or 11 Pro, & Windows Server 2003, 2005, or 2008R2.
PC Requirements (min.)	Small Systems: HP Z2 Mini G3: Xeon® processor E3-1225v5, 3.3 GHz, 8 GB RAM, 256 GB Disk, 100Base-T Port, (2) Open USB-A 2.0 Ports, Non-Touch Color Monitor, Keyboard, Mouse Large Systems: Xeon E74XX 4 core, 3Ghz, 16 GB RAM, 1 TB Disk, 100/1000M Ethernet, (2) Open USB 2.0 Port, Graphics card for dual monitors, 27"-32" Non-Touch Monitor.
Clients Supported	Base system: 4 (Expandable to 64 with additional Client Packs).
Comparators Supported	Base system: 4 (Expandable to 240 with additional Comparator Support Packs.) Note: Mixed Mode systems (GCM 8000 or GRV 8000 plus MLC 8000) use two comparators.
BRSC Server Supported (With optional License)	Receives and displays the Base Radio Statuses in the MCN Server Display Window.
Transport Protocol	UDP-IP Unicast, UDP-IP Multicast or Unicast to Clients.
Support for Legacy MCN Interfaces	Supports (1) HIB-IP 8002 unit. Order optional HIB-IP and appropriate comparator interfaces & I/O (CIB, AIB, GPIO modules, etc.). Contact CTI Products for details. Order one or more DDN1294 options if more than 1 HIB-IP unit must be supported.
Maximum receivers, or I/O points per window	Over 400, depending upon screen resolution and length of names.
Receiver Names, Channel Titles, and Display Grid	User configurable.
Status Messages and Colors	User configurable.

**Client Specifications**

Application type	Native 64-Bit Windows Application.
Operating Systems	Windows 10 Pro, 11 Pro & Windows Server 2003, 2005, or 2008R2.
PC Requirements (min.)	Xeon E3 5th Gen or i3 15th Gen, 3 GHz, 4GB Memory, Open USB 3.0 Port, 100Base-T Port, Color Monitor.

**Ordering**

Motorola Part #	CTI Part #	Description
**DDN1289A	NA	MCN Server 8000 Software License for 4 Motorola IP Comparators & 4 Clients
**DDN1287A	NA	MCN Server 8000 Software License for 1 Additional Motorola IP Comparator
**DDN1288A	NA	MCN Server 8000 Software License for 4 Additional Motorola Comparators
DDN1295A	S1-61129	MCN Software License Option - Client Expansion for 4 Additional Clients
DDN1294A	S2-61164	MCN Software License Option – Multi-NI-4 Adds Support for 4 HIB-IPs
DDN1290A	S2-61600	MCN Server 8000 Manual

**WARNING:** This product can expose you to chemicals such as lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

\*\* These items can only be ordered through Motorola Solutions Inc (MSI).

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