MCN Client-Server Software
Monitoring & Control for Voting Comparator & General Purpose I/O

MCNRCD Remote Comparator Display - McnDemo

File Edit View Help

Tabs: **Police** | Fire | EMS | Service

East Police	Central Police	West Police	Area Wide	Command
Indian Hill Rx	Williamson Rd.	Miami Heights	Indian Hill	Indian Hill
Williamson Rd. Vote	Engineers	Calhoun Hall Rx	Williamson Rd	Comm Center
Glendale W.T. Rx	Greenhills	Cheviot Rx	Glendale W.T.	Loveland W.T.
Comm Center Rx	Glendale W.T.	Comm Center Rx	Comm Center	Sweetwine
Loveland W.T. Rx	Calhoun Hall	Mt. Echo Rx	Loveland W.T.	Greenhills Tx
Sweetwine Rx	Comm Center	Miami WW Rx	Sweetwine	Engineers
Anderson Twp		Greenhills Vote	Anderson Twp.	Calhoun Hall
Greenhills Rx		Cleves	Greenhills	Miami Heights
Engineers Rx		Fernald	Engineers	Miami WW
Milford		Prov. Hosp. Rx	Milford	Cleves
Mariemont		Mt. St. Joesph Rx	Mariemont	Miamitown
Calhoun Hall		Engineers	Calhoun Hall Rx	Harrison
		Miamitown Fail	Miami Heights Rx	
		Harrison	Cheviot Rx	
			Mt. Echo Rx	
			Miami WW Vote	
			Cleves	

East Tx	Microwave	Generators		
Indian Hill On	Indian Hill Normal	Comm Center Normal	Fernald	
Comm Center	Sweetwine Standby	Indian Hill Normal	Prov. Hosp. Rx	
		Miami Hts Normal	Mt. St. Joesph Rx	
		Sweetwine Run	Miamitown Rx	
		Miami WW Normal	Harrison Rx	
		Calhoun Hall Normal		

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Introduction

The MCN™ (Monitoring and Control Network) Server software lets you monitor and control receiver voting system and general purpose inputs & outputs from your console or service shop over IP LANs or WANs. It extends comparator lights and switches and other input/output (I/O) devices to PC displays. The comparator or other equipment may be located remotely, limited only by your WAN connections.

The system is compatible with the following MCN modules:

- CIB modules for comparators
- AIB modules for ASTRO-TAC comparators
- TIB modules (with CIB modules) for Transmitter Steering
- GPIO Modules for general purpose I/O

It can be used to monitor & control:

- Motorola Digitac, Spectra-TAC, TAC, ASTRO-TAC
- JPS SNV-12 Voters
- M/A-Com G.E. Analog Voters
- Doug Hall 4RV/2 Voters
- Generic I/O (Doors, Alarms, Generators, etc.)

Server Overview

The MCN Server software communicates with I/O modules on the MCN network. It processes status messages (Vote, Receive, Disable, Fail, Door Open, Alarm, etc.) messages from the MCN modules and passes them to the client displays on the LAN or WAN network.

The server accepts control commands (Force-Vote, Disable, Open, Run, Stop, etc.) from the remote clients and sends them on to the modules on the MCN network.

The server supports multiple clients.

System Configuration

The common system configuration information (Receiver names, Module addresses, channel information, display screen configuration, output functions, etc.) resides in the server and is user-configured with the MCN Config program.

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, etc.). Individual client PCs can be limited to specific screens if desired.
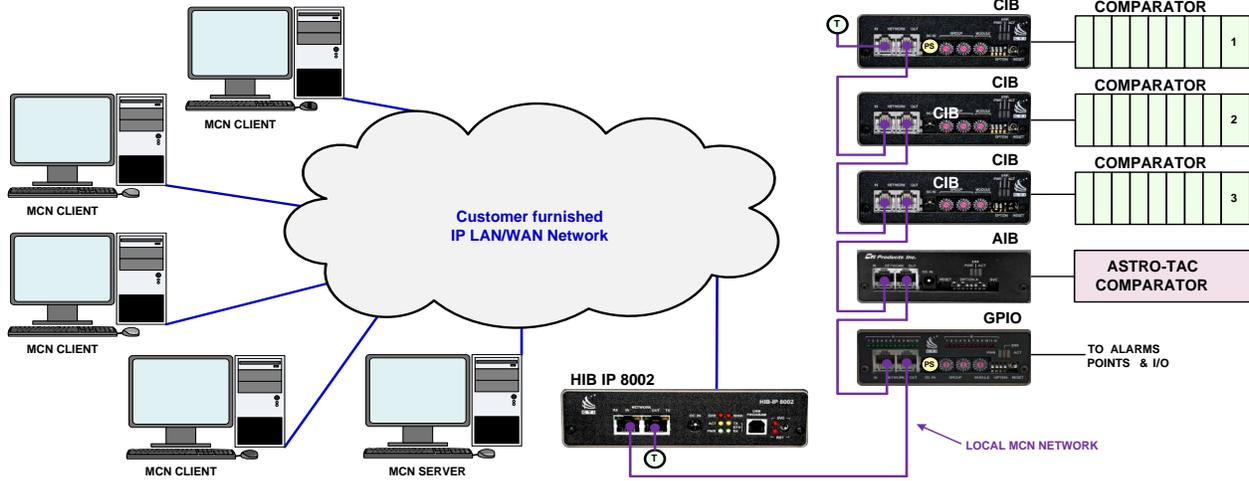
Typical MCN Client-Server System

PC Client Display Overview

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, Open for doors, or Run/Stop for generators are passed to the server for processing.

Local Display

The server software includes local display & control capability.

Receiver Failure and Error Logging

The MCN 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
- Email

Remote Comparators

Some dispatch centers have comparators located at site(s) remote from the MCN Server. A HIB-IP 8002 unit can be used to connect to a remote site over an IP WAN. If you need to connect to multiple sites, the higher-tier MCN Advanced Server supports multiple HIB-IP units.

Controlling Comparators at Multiple Sites

MCN Remote Comparator Display systems can be custom-designed to control comparators located at multiple remote sites. Contact a CTI Products, Inc. system engineer.

Part Number	Network Interface Included
S1-61855	HIB-IP 8002 78K (External – via IP)
S1-61126	HIB-232 78K (Ext. RS-232)
S1-61130	Additional MCN Server 4-Pack Client License Add-on Option to MCN Server Software above

Server Specifications

Application type	Native 32 Bit Windows Application
Operating Systems	Windows XP, Vista, 7, 10, Server 2008 (32 or 64 Bit)
PC Requirements (min.)	Pentium 4, 2 GHz, 2 GB RAM, CD, HDD, 100Base-T NIC
MCN Network Interfaces Supported (select one)	HIB-IP 8002 78 Kb/s Standard HIB-232 78 Kb/s
Multiple Comparator Site Support	See MCN Advanced Server for multiple remote sites over IP
Clients Supported:	Base system: 4 Expandable to 64 with additional Client Packs
Transport Protocol	UDP-IP Unicast and UDP-IP Multicast (to Clients)
Number of MCN I/O modules monitored	78k MCN Network: 16 For greater capacity, use the MCN Advanced Server.
Maximum receivers or I/O points per window	Over 400, depending upon screen resolution and length of names
Receiver Names & Channel Titles & Screen	User-configurable
Status Messages & Colors	User-configurable

Client Specifications

Application type	Native 32 Bit Windows Application
Operating Systems	Windows XP, Vista, 7, 10, Server 2008 (32 or 64 Bit)
PC Requirements (min.)	Pentium 4, 2GHz, 2 GB RAM Appropriate IP network card, CD, and HDD