



MCN™ Advanced Server Software

Monitoring & Control for Voting Comparator & General Purpose I/O

CTI MCNRCD Remote Comparator Display - Mcdemo

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

Ready

Introduction

The MCN™ (Monitoring and Control Network) Advanced 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.

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, 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 Advanced 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 and multiple network interfaces (NIs).

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.

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.

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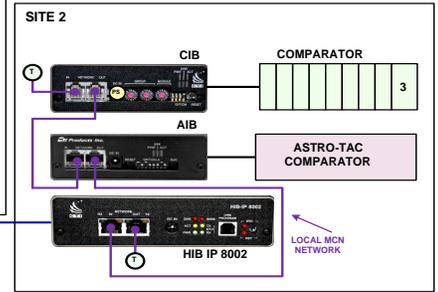
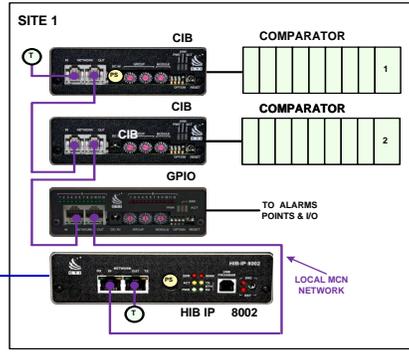
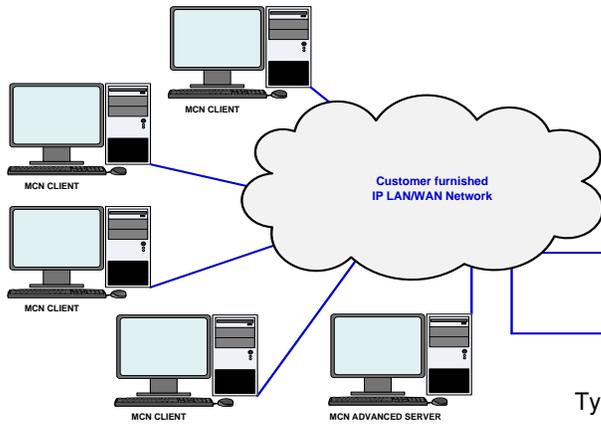
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MCN™ Advanced Server

MCNRCD AS 2017-07



Typical MCN Advanced Server System with HIB-IP 8002 modules

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 Advanced 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

Multiple Network Interfaces

The MCN Advanced Server software can support multiple network interfaces. It can connect to remote networks using the external HIB-232 or HIB-IP 8002 network interface units.

Multiple remote comparator sites can be connected over an IP infrastructure using multiple remote HIB-IP 8002 units.

Complex System Support

The MCN Advanced Server software can work with the full range of MCN modules. MCN Advanced Server software can be used in complex systems with existing EXB network extender modules

Part Number	Network Interface Included
S1-61226	HIB-232 78K (External via RS-232)
S1-61856	HIB-IP 8002 78K (External – via IP)
S1-61129	Additional 4-Pack Client License Add-on Option to MCN Server Software above
S2-61164	Multi-NI-4 Option for MCN Advanced Server adds support for (4) additional remote HIB-IP 8002 units. Purchase HIB-IP 8002 units separately.

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, 2GB RAM, appropriate IP network card, CD, and HDD

Advanced 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	HIB-IP 8002 78 Kb/s Standard HIB-232 78 Kb/s
Multiple Comparator Site Support	Yes, with remote HIB-IP 8002 units over IP channels
Clients Supported:	Base system: 4 Expandable to 64 with additional Client Packs
Multiple Network Interface Support software capability	Base system: 4 Expandable to 64 with additional Network Interface Support Packs Purchase additional external Network Interfaces as required.
Transport Protocol	UDP-IP Unicast and UDP-IP Multicast (to Clients)
Number of MCN I/O Modules monitored	With HIB-IP 8002: 16 per HIB-IP 8002 module System total: 1024 or more
Maximum receivers or I/O points per window	Over 400, depending upon screen resolution and length of names
Receiver Names, Channel Titles & Display Grid	User-configurable
Status Messages & Colors	User-configurable