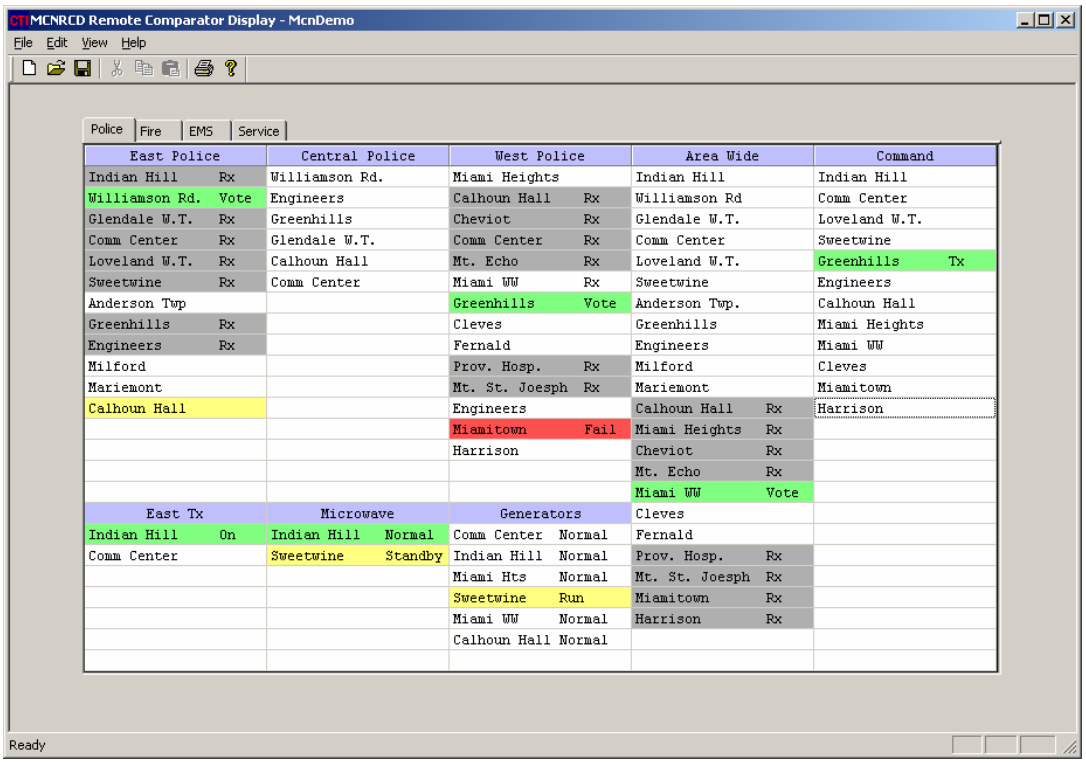
MCNRCD™ for Windows
Remote Comparator Display



Introduction

The MCN™ Remote Comparator Display lets you control your receiver voting system from your console or service shop. It extends the comparator lights and switches to a PC display. The comparator may be located in the same building or across town.

The Remote Comparator Display is compatible with:

- Motorola ASTRO-TAC, Digtac, Spectra-TAC, TAC
- JPS SNV-12 Voters
- M/A-Com / Ericsson / G.E. Analog Voters
- Doug Hall 4RV/2 Voters
- Alarms & Remote I / O Points

PC Display

The PC display features real-time status monitoring. The Force-Vote and Disable switch functions can be controlled from the PC. The user can custom configure receiver names and screen positions. Multiple screens can be built to display additional receivers.

Dispatch Console Support

The MCN RCD™ software runs as a native 32-bit Windows application under Windows NT, 2000, or XP. The display window is user sizeable. This allows you to use it with other applications such as dispatch console programs. It provides you with real-time monitoring and control without using up valuable console electronics resources.

Get Control of Your Comparator!

An operator or technician can see at a glance which receivers are receiving, voted, or failed, and which receiver is causing your system problems. A Force-Vote function permits audio monitoring of each receiver site. A Disable function shuts down bad receivers until repairs are made.

System noise, interference, and phone line problems can be difficult to find in a comparator system. The Remote Comparator Display is an effective trouble-shooting tool which helps diagnose system problems fast.

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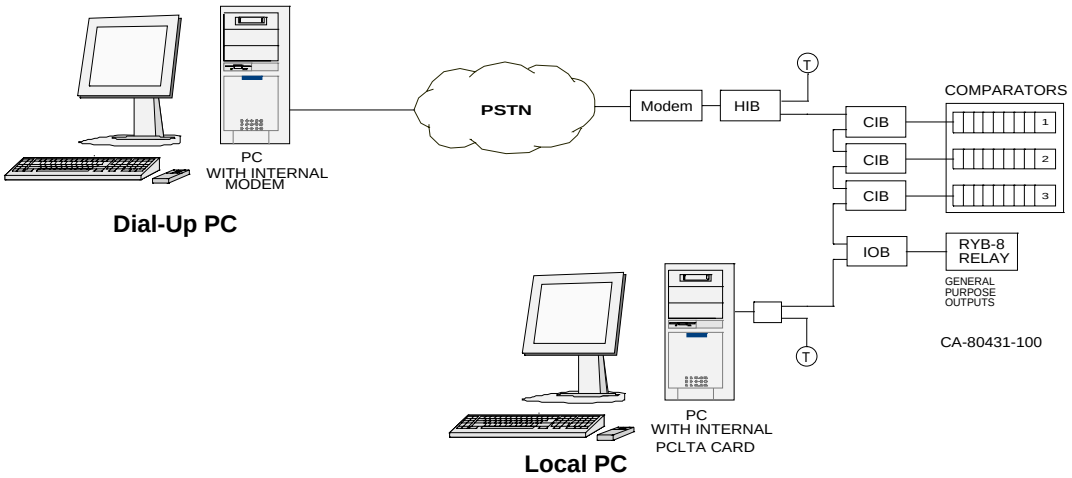

Receiver Failure and Error Logging

The MCN Remote Comparator Display software can log receiver failures and errors. The error log can aid in diagnosing intermittent receivers or phone lines. Logging can be sent to:

- PC Screen
- Disk
- Printer
- Email

Repair Voting System Problems Efficiently!

The MCN™ Remote Comparator Display system helps you isolate a failure to a specific voting receiver, saving valuable technician time and reducing receiver downtime.

Intermittent system problems can be extremely tough to find. The Remote Comparator Display shows which receiver is bad while the problem still exists. This can eliminate repeated service calls to the comparator just to isolate a bad receiver.

How the System Works

The MCN Remote Comparator Display software runs on a PC and connects to the MCN network through a HIB (external) or PCLTA (internal) network interface module. Comparator Interface Modules and other general-purpose I/O modules are mounted remotely, near the comparator or other I/O device. The PC and the Comparator Interface Modules are connected through the MCN serial network cable.

CIB Comparator Interface Modules control parallel interface comparators such as Motorola Digitac, Spectra-TAC, JPS SNV-12, M/A-Com Analog and DHE 4RV/2 voters. AIB *ASTRO-TAC*™ Interface Modules control *ASTRO-TAC*™ comparators. IOB Input/Output Control Modules provide general-purpose digital I/O and alarm inputs.

Remote Operation - Permanent Connection

Some dispatch centers have comparators located at remote location(s). EXB Network Extenders can be used for remote operation and are available for analog lines, asynchronous serial channels, or WAN IP networks. Multiple PCs can monitor and control the voting system using shared infrastructure links.

Dial-Up Applications

For maintenance purposes, the PC display can be used over dial-up lines with a HIB external interface. Since the PC does not have to be dedicated, it may be used for other applications when not monitoring the comparator. Technicians can even diagnose after-hours system problems from home using a portable PC and dial-up modem.

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.

General Specifications

Application type	Native 32 Bit Windows Application
Operating Systems	Windows NT 4.0, 2000, XP
PC Requirements (min.)	Pentium III 500 MHz, 256 MB Open PCI slot for PCLTA
Dial-Up Support (using HIB modules)	All operating systems above with Internal or External Modems for PC
Leased Line Support	HIB, with External Modems PCLTA with EXB Modules
Multiple PC Display	HIB, PCLTA, Mixed, Local, Dial-up, Leased Line All with Parallel Status & Control
Multiple Comparator Site Support	Yes, with EXB Network Extenders for Analog lines, Serial Channels, Ethernet Channels
Number of receivers monitored per PC	1024 Simultaneous
Maximum receivers or I/O points per window	Over 400, depending upon screen resolution and length of names
Receiver Names & Channel Titles	User Programmable
Status Messages & Colors	User Configurable

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