



SUBJECT: WCC/FPD-II Configuration Monitoring Utilities for Windows NT®

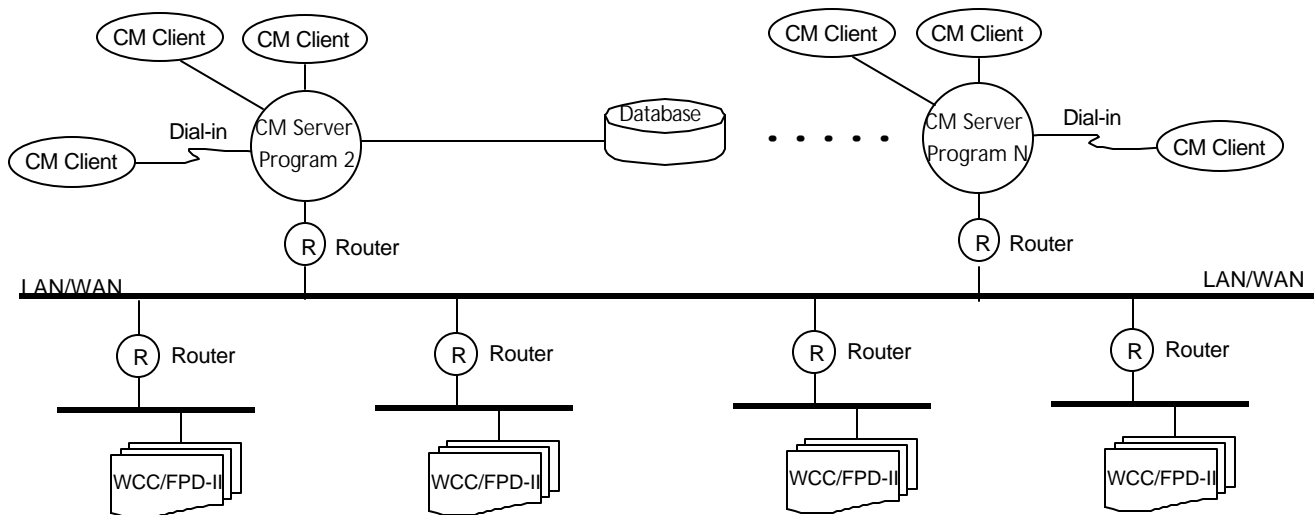
NO: 4-00

CATALOG SECTION: Signals

DATE: 8/28/00

CM Server and CM Client (Configuration/Monitoring) are Windows NT® based tools that allow customers to easily monitor, maintain, diagnose and configure code lines serviced by Safetran WCC/FPD-II units.

The utilities comprise one or more copies of a server program (CM Server) that is resident on a non-dedicated central computer, and one or more copies of a client program (CM Client) resident on workstations connected to the server directly through a LAN or through a phone dial-up connection. The client and server programs use the TCP/IP protocol for communication. Refer to the following diagram:



One runtime copy (or multiple copies if redundant operation is desired) of the CM Server program is needed for each system. One copy of the CM Client is needed for each concurrent user. The WCC/FPD-II units can be grouped in redundant pairs with up to 7 pairs per CM Server. A client program can then be used to log into the server to access up to 84 code lines running on the 7 pairs of WCC/FPD-II's.

Key features of the CM Server program are:

- Monitors each WCC/FPD-II and collects alarm, diagnostic and statistical information that is passed on to the CM Client stations and other applications
- Graphical screen display provides quick overview of code line and system status plus traffic patterns
- Can forward critical system alarms to higher-level Network Management Systems via TCP/IP and/or SNMP

- Interfaces to the system database for location names, code-line designations, and other static data as needed
- Provides detailed tracing of messages and system events

Key features of the CM Client program are:

- Alarm overview of code lines
- Real-time monitoring of serial and DC code lines
- Loopback commands for troubleshooting
- Detailed analysis of traffic statistics and errors
- Remote configuration of WCC/FPD-II units
- Remote software maintenance and uploading
- Remote diagnostic terminal for each code line to allow interactive commands/displays of code-line operation
- Main/Standby switching and display including managing the A/B switches
- Remote Reset of WCC/FPD-II units
- 3 levels of log-in security
- Simulation capability

Display

The CM Client display allows users to see, at a glance, all activity and status on up to 84 code lines running on 7 WCC/FPD-II units (12 ports per unit). Users can then drill down to see detailed information. The display also shows status of WCC/FPD-II's and of the AB Switches (if present).

Security

CM Server and CM Client provide three levels of security access allowing customers to set up a secure and safe environment for their users to work in. An audit trail permits customers to determine which users were logged into the system at which time.

Redundant Operation

All WCC/FPD-II configuration files are automatically stored redundantly on two separate CM Server computers. This allows users to access configuration information at all times, even if one server is down. Additionally, users can use a copy of CM Client to access displays for WCC/FPD-II's that are running on other servers. This permits users to control a large number of WCC/FPD-II's with one copy of CM Client.

Logging

CM Server provides logging facilities for the WCC/FPD-II's. This permits users to store much longer and more detailed logs than was previously possible. Presently, each server stores up to 24 hours of logs per code line per WCC/FPD-II. A sophisticated sorting and filtering utility allows users to examine the logs.

Code Line Monitoring/Diagnostics

CM Client is an advanced code-line diagnostic tool that permits users to transmit/receive connect/disconnect a single station or a whole code line. This is achieved by working in conjunction with a WCC/FPD-II. The field unit is not affected.

Code Line Simulation

CM Client allows users to simulate controls and indications. This allows testing of new interfaces to the field and CTC with minimal impact to the running system.

ORDERING INFORMATION

For ordering details and additional technical information on this software, please contact Safetran Communications Marketing at: Safetran Kentucky Division: 1-800-626-2710
Safetran California Division: 1-800-793-7233

NOTE: In addition to the software purchased from Safetran, the following customer-provided equipment and services are needed for a complete system:

- Windows NT® computers (need not be dedicated to this system)
- 10-BaseT LAN network comprised of hubs, switches, etc. as necessary to connect the WCC/FPD-II equipment to the CM Server computer with optional modem dial-in
- Dial-up connection to the LAN to allow Safetran to perform remote diagnostics and maintenance
- Copy of the Symantec® pcAnywhere® program running on the CM Server computer with optional modem dial-in

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