

# Technical Information

## Operating System

All CMS/MiChoice Technologies Systems software modules operate under Windows 2000/XP Professional.

## Compliance Statement

- All CMS/MiChoice Technologies Systems software modules are Y2K compliant.
- CMS/MiChoice Technologies is joining the SIF (School Interoperability Framework) organization. The applicable data elements in our software modules are formatted to be SIF compliant.

## Software Programs

- All CMS/MiChoice Technologies Windows based software modules utilize 32 bit code
- Programmed with Microsoft's Visual Basic Version 6 and Visual Studio.Net.
- Uses Microsoft's Access 97/2000/2002 and SQL Server databases.
- Utilizes Crystal Decisions Crystal Reports.

## Exporting Data

The export command within all CMS/MiChoice Technologies Systems software modules allows you to automatically export your report data in a host of standard data interchange formats, such as; Excel, Access, Word, Lotus, Crystal Reports, ODBC, CSV, PDF, DIF, HTML, Text, RTF. In addition to selecting the export format you can select the export destination as well. Example: Application, Disk file, Exchange folder, Lotus Domino, Microsoft mail.

## Importing Data

All CMS/MiChoice Technologies software modules allow for importing data from external sources in a fixed length file format. The file format varies from module to module and a detailed format will be furnished for each software product upon request.

## Creating Custom Reports

All CMS/MiChoice Technologies software modules utilize Crystal Decisions Crystal Reports, the industry leader in software for designing custom reports. This allows the experienced user to design their own templates and present the data in various formats. While reporting is made easy for the novice using CMS/MiChoice Technologies standard reports, the expert in using Crystal Reports will immediately appreciate the sophistication of the work the software does for you.

## Communications

All CMS/MiChoice Technologies software modules operate communicate by;

- Wide-Area Network
- Telephone Modem
- Diskette/CD-RW Rom Transfer

## Network

CMS/MiChoice Technologies E-Meal Master/Client Touch Screen Point-of Sale Software requires a LAN in the cafeteria to operate. It is imperative that the LAN be an individual, unique, logical, separate network. If the cafeteria LAN is to communicate with the Wide-Area network it needs to be through a router or bridge keeping the cafeteria network isolated. The router or bridge forms the boundary between the wide-area network and the cafeteria network. It makes a logical connection between separate networks operating under the same transport protocol such as TCP/IP or SNA.

CMS/MiChoice Technologies E-Meal Master/Satellite Touch Screen Point-of Sale Software and ETC-Master/Satellite Time & Attendance Software are socketed Visual Basic applications that utilizes a standard TCP/IP protocol to communicate the Master software and the Client software. Because of this certain network requirements must be met to insure proper functionality of the software.

## **E-Meal POS and ETC-PunchClock Master Side Requirements:**

Because of the nature of a socketed connection, the PC that will have the Master software installed must maintain a STATIC IP ADDRESS. Each program contained a screen listing the sockets or ports that the Master and Client software will use to communicate through. The software uses six consecutive sockets to relay data between the Master and Client software. The default ports are 5000, 5001, 5002, 5003, 5004 and 5005. Any firewall software being used must allow for connectivity through these ports. Upon installation, both the Master and Client side software packages are defaulted to use these ports. They can however be changed if they will pose a conflict with another socketed application on the network. This can be achieved by modifying the software's respective .ini files.

E-Meal POS Master and ETC-PunchClock Master is the software responsible for updating, retrieving and saving the data to the various databases used by the program. Because of this, the user must have read/write access to the file folder in which the software is installed.

Network connectivity between the Master and Client software should all be done through one router or switch. Having multiple hops between the Master and Client software is not acceptable.

Wireless configurations must be surveyed and tested before approving their use.

## **E-Meal POS and ETC-PunchClock Client/Satellite Side Requirements:**

If a DHCP Server is being used, the PCs running the Client software can be configured to be dynamically assigned an IP address instead of maintaining static IP address. Remember however that the PC that will have the Master software installed must maintain a STATIC IP address. The user must have read/write access to the file folder in which the software is installed.