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INTRODUCTION

The CNET for Windows (CFW) application offers the capability of the CNET for DOS program within a Windows environment. View group, store, and device information within the familiarity of Windows forms; access data online in the DOS environment to evaluate device performance or change device configuration.

CFW improves upon the DOS version in different ways. Some of the featured enhancements are listed below:

- Improved security access
- Modem/serial port communication with Windows drivers
- CNET group, store, and device data displayed on a flexible tree view
- Quick copying of store data
- Automated, professional store reports that may be exported to a floppy
- A built-in store setup wizard that prompts you through store/device additions
- Multi-tasking Windows environment when off line
- Long-term support of ECI Controllers within a Windows operating environment
- Improved graphing features

CFW uses the terms Group, Store, and Device to describe the system data. Please become familiar with their meanings before using CFW. They are explained below and used throughout this manual.

Group: A group of stores. [All] is the default group. Every store will automatically be placed here by CFW. Group is the top order of information in CFW. Store data is organized and categorized (i.e., by size, chain, or location) by group.

NOTE

New groups can be created. This feature allows you to customize your information groupings.

Store: A store is typically a building unit; one or more stores comprise a group. View stores by group on the main form or the store setup form.

The system logs the following store information:

- ID (or Name)
- Location
- Phone number
- Device count
- Baud rate

NOTE

You may view stores by group in the main form and on the store setup form.

- Each store entry in CFW will automatically be placed in the [All] group; however, a store can also be placed in other groups that you choose.
- You may place a store in more than one group.

Device: A device is a controller that resides in a store. Device information is listed for each store in the system. View device data on the main form or the store setup form.

The system requests the following device information:

- Name
- Comm ID of Device
- Type of Control
- Version

NOTE

When online, a device can be monitored as it is at work in a store.

CFW SYSTEM REQUIREMENTS AND STARTUP

CFW MINIMUM SYSTEM REQUIREMENTS

IMPORTANT

CFW Version 0.90.16 does not run on a Windows 2000 Operating System.

1. PC with 20MB of memory running a 486 processor.
2. Windows 95/98 or NT40 installed on this PC.
3. A hard disk with 20MB of available storage for the program.

NOTE

20 MB is the minimum for the program install. You will need more space to store data.

4. A VGA or higher graphics compatible monitor with a 640 x 480 display.

RECOMMENDED

For CFW System **optimum performance**, ECI recommends:

- 16MB+ of RAM
- Pentium Class Processor
- 800 x 600 display or greater

INSTALLATION

INSTALLING CFW

ECI offers the convenience of a CFW download from our website. It may also be installed via CD-ROM, or from floppy disks. Additionally, a CFW Store File Converter package installs with the CFW program. It will convert the CNET for DOS data into a database format.

IMPORTANT

To take advantage of the CFW download from the ECI Website, you must know the correct path and have a valid user name and password. Contact ECI Applications Engineering at 410-403-4000 between the hours of 8:00 A.M. – 4:00 P.M. EST for this information.

CD-ROM INSTALLATION

Upon request, you will receive a CFW Installation CD-ROM. Follow the instructions below to install it on your PC.

1. Install the CD-ROM into the CD-ROM drive. The CD-ROM has an auto run feature that should begin the setup process automatically.

NOTE

If the setup process does not begin automatically, follow these steps: click [START], select [RUN], and enter [D:\Setup.exe] in the box that appears.

*If necessary, replace [D] in the setup command entry with the letter of your CD-ROM drive.

2. Upon using the Run D:\Setup.exe command, setup begins (information then appears about the CFW Program).
3. Read the information, press [ENTER] to continue.
4. Follow the setup prompts as they continue to direct you in the installation.
5. Setup begins copying files onto your hard disk, as prompted, press [ENTER].
6. Setup will ask you to confirm your choices when finished, click [OK].
7. Setup will notify you when setup is complete. The CFW Program is now installed on your PC and is ready for use.
8. CFW is automatically placed on the startup program bar of your PC. Access it from the desktop in this manner:
   a. From the taskbar, click on [START].
   b. Click [PROGRAMS].
   c. Click [ECI].
   d. Two Choices are available [CFW] and [CFW UTILITIES].
   e. Click on them for program entry.

NOTE

CFW Utilities include:

- CFW Graphing
- Cnet Store Database Convert
- Help with CFW

FLOPPY DISK INSTALLATION

Upon request, you will receive CFW Software Program startup disks. They are labeled sequentially. Follow the instructions below to install it on your PC.

1. Begin the CFW installation by placing Disk 1 in Drive A. Click [START]. Select [RUN]. Enter the following command in the box that appears: [Run A:\Setup.exe].
2. Upon using the Run A:\Setup.exe command, setup begins (information then appears about the CFW Program).
3. Read the information, press [ENTER] to continue.
4. Follow the setup prompts as they continue to direct you in the installation.
5. Setup begins copying files onto your hard disk, occasionally asking you to install the other installation disks. Insert the disks as prompted, press [ENTER].
6. Setup will ask you to confirm your choices when finished, click [OK].
7. Setup will notify you when setup is complete. The CFW Program is now installed on your PC and is ready for use.
8. CFW is automatically placed on the startup program bar of your PC. Access it from the desktop in this manner:

a. From the taskbar, click on [START].
b. Click [PROGRAMS].
c. Click [ECI].
d. Two Choices are available [CFW] and [CFW Utilities].
e. Click on them for program entry.

NOTE

CFW Utilities include:

- CFW Graphing
- Cnet Store Database Convert
- Help with CFW

STORE DATA CONVERTER

NOTE

The CNET to CFW Store File Converter will convert your existing CNET files into a database format. (All previously entered data is held during the import process for use in CFW and placed in store setup after the conversion.) Old CNET for DOS files are still accessible.

IMPORTANT

The file conversion can only be performed one time. If it is performed a second time, it will overwrite all CFW grouping information.

RECOMMENDED

Make a backup of your CNET for DOS store directory before performing the CNET to CFW store file conversion.

The Store Data Converter enables you to convert CNET for DOS files into a database format for the CFW program.

To convert your existing store data, follow these steps:

1. Access the Store Data Converter portion of the CFW program from the desktop in this manner:
   a. At the taskbar, click on [START].
   b. Click [PROGRAMS].
   c. Click [ECI].
   d. Two Choices are available [CFW] and [CFW Utilities]
   e. Click [CFW Utilities].
   f. Click on [STORE DATA CONVERT] to open the program.
2. Under the CNET Files Source Path, click Browse.
3. A data box appears: Get CNET Store File.
4. Choose the folder that contains your CNET store files. It should contain the file: STORES.STR, which will appear to the right when you open the folder.
5. Click [OKAY].
6. The file name you choose will appear on the Source Path bar on the data converter screen.
7. Click [BROWSE] under the destination path.
8. Choose a directory for your destination path.
9. Click [OKAY].
10. The file name you choose will appear on the Destination Path bar on the data converter screen. The program will assign the subdirectory \dbFiles\ to the destination directory.
11. Click [CREATE] to complete the store data conversion.

NOTE

When the conversion is finished, the program will display [Activity: DONE] under the progress bar.

12. After the program converts the CNET for DOS store data files into the CFW database format, they are ready for use in CFW.
13. Click [CLOSE] to exit the Store Data Converter.

DRAWING 1 - STORE DATA CONVERTER FORM EXAMPLE

CFW DIRECTORY STRUCTURE

CFW is a communication software package that allows you to access control data. Upon successful installation, the directory structure is as follows:

- ➔ CFW Main Directory
  - ➔ CFW Bin Subdirectory
  - ➔ CFW Database Subdirectory*
    *by default
  - ➔ CFW Help Files Subdirectory

NOTE
The default install directory for CFW is C:\Program Files\ECI\Cnet for Windows. The actual install directory may vary depending on procedures followed during installation.

Each directory contains the following contents:

TABLE 1 - CFW MAIN DIRECTORY STRUCTURE

File Name	
CFW.exe	Main Program
CFW.pwd	Password File
Uninst.isu	
StrtoCfg.exe	Stores Conversion Program

TABLE 2 – CFW BIN SUBDIRECTORY STRUCTURE

File Name	
• CNET.cfg	
• DEF_ECI.pif	
• .scr	**Note:** For each version of RC, EC, and ERC control products to be communicated, you will see files with this extension. For example, the following signifies the Windows Version for RC-2000, control software version 4.40: [WRC2K44.scr] *This is a print Scrip file. It is not related to other .scr files, which are found within a Windows environment.
• .exe	**Note:** For each version of RC, EC, and ERC control products to be communicated, you will see files with this extension. For example, the following signifies the Windows Version for RC-2000, control software version 4.40: [WRC2K44.exe]
• .pif	**Note:** The files described above based on the control products to be communicated are also present with a .pif extension in a Windows 9X or Windows NT environment. A .pif file is a Windows file that opens a DOS window and stores the parameters to do so.

TABLE 3 – CFW HELP FILES SUBDIRECTORY STRUCTURE

File Name
CFW.chm
CFW.hhc
CFW.hhk

CFW DBFILES SUBDIRECTORY STRUCTURE

The database in CFW may be located in any drive or directory as well as in network paths.

NOTE
The database directory will contain a configuration file named [cfw_groups.cfg] AND a subfolder for each store.

The subfolder will contain the configuration file [cfw_store.cfg], which includes information for the store such as phone number, name, and baud rate; and a file for each device named [<DeviceName>.fil], which includes the setpoints for the device. These files will contain the saved data from terminal software. An example of the structure of this file is shown below.

NOTE
Stores may be copied between databases by copying the entire store directory in Windows Explorer and then pasting it to a new location.

DATABASE FILES SUBDIRECTORY: Note that the following figure is an example of a store database located in the C:\Stores directory.

DRAWING 2 – CFW DATABASE SUBDIRECTORY FILES

CFW OPERATION

CFW SECURITY ACCESS

IMPORTANT
When using CFW, you will need CFW system access and CNET for DOS device level access to fully work with Group, Store, and Device information and program control devices.

CFW system level security access protects store information.

ACCESS LEVELS

CFW security access contains three different access levels: Administrator, User, and Guest. Click [THE LOCK BUTTON] under the Main Menu Bar to display the Security Access Box. Enter [A PASSWORD] and click [LOGON] to enter the system at the User or Administrator Level. Click [GUEST] to enter the system as a Guest. (A Guest has Group, Store, and Device Read-Only Level Access). Click [LOGOFF] to cancel access and secure the system. See Drawing 3 for an example of this form.

IMPORTANT
For Administrator or User Level system access, you must enter a valid four-digit password at the Security Access Box.

NOTE
[9876] is the default password. It grants Administrator Level access.

DRAWING 3 - SECURITY ACCESS BOX

ADMINISTRATOR LEVEL

For CFW Administrator Level Access, you must have a four-digit password. CFW Administrator Level access is the highest level access to the system. It is designated by the numeral three (3) on the lock button. (The lock button resides on the second-level menu bar.) Administrator access activates the following choices in the File Menu: Setup Access, Setup Store, and Setup Printers. They enable you to enter or change Group, Store, and Device information in CFW. You may also select system user access and master configuration. Click on the [Setup Access] choice to view the Security Administration form. This form contains the User Accounts tab and the Master Configuration tab.

USER LEVEL

For CFW User Level Access, you must have a four-digit password. A user is designated by the numeral two (2) on the lock button. (The lock button resides on the second level menu bar.) User access activates the following choices in the File Menu: Setup Access, Setup Stores, and Setup Printers. They enable you to enter or change group, store, and device information in CFW and view YOUR account information on the security administration form.

NOTE
A User cannot change user account information or the master configuration of the system.

GUEST LEVEL

CFW Guest level access does not require a password. Guest level access enables you to view CFW Group, Store, and Device information.

NOTE
Guest level access will not enable you to make changes to CFW setup, access the store setup form, security administration form, or store reports.

SECURITY ADMINISTRATION FORM

USER ACCOUNTS TAB ON THE SECURITY ADMINISTRATION FORM

This form is described below. An example follows.

NOTE

To view system users and make changes in this form, you must have Administrator access to CFW.

A User may view his own account information on this form. He cannot modify it.

Click on the User Accounts tab to view, change, and assign User Account information. Assign a new user to CFW in this form under the program access section. Begin by clicking [ADD], and then rename the default user the system adds. Alternatively, to modify a user account, place the cursor in the user name bar, and type in another name.

A new user must be assigned a security access level of either user or administrator from a drop-down selectable list.

Highlight the user name and click [DELETE] to remove a user's security access.

NOTE

An Administrator may enter a maximum of twenty four user accounts into CFW.

CFW ACCOMMODATES ONLY ONE ADMINISTRATOR.

User names may be a maximum of eight (8) alphanumeric characters; user passwords must be a four-digit number. CFW automatically assigns a four-digit password, but it may be changed (see the *Action Button on the Security Administration Form: Lock Button* of this manual for information about customizing user passwords in CFW.)

Though you may delete users, the program always maintains one administrator.

ACTION BUTTONS ON THE SECURITY ADMINISTRATION FORM/USER ACCOUNTS TAB

Lock Button: To view a specific user's password, assign a user a password, or change a password, click on the lock button at the far right end of the form. The CFW Security Access box appears with the password highlighted. Make the desired change, to enter it into the system, click OK before you exit the form.

NOTE

To view or change user passwords, you must have Administrator level access to CFW.

Save Changes, Discard Changes, Exit the Form: On the far right of the Security Administration form, notice the column of buttons. They enable the following actions:

- Click on the [√] to exit the form and save your changes.
- Click on the [X] to exit the form without saving changes.

NOTE

The [?] button (for context sensitive help) is disabled. To access CFW Help, close this form, click the Help drop down menu on the Main Menu Bar, and then click [INFO].

DRAWING 4 - SECURITY ADMINISTRATION FORM – USER ACCOUNTS TAB

MASTER CONFIG TAB ON THE SECURITY ADMINISTRATION FORM

The Master Config tab contains settings for a program timeout delay. The timeout delay will lock out access to CFW if it is not used during the programmed time.

NOTE
The timeout delays are incremental: maximum setting is one hour; minimum setting is one minute. The timeout delay may also be disabled. CFW disables the timeout delay as the default setting.

In addition, CFW may be configured for security access to open at program startup on this form.

NOTE
You must have Administrator level access to view and modify this form.

An example of this form appears below.

DRAWING 5 - SECURITY ADMINISTRATION FORM – MASTER CONFIG. TAB

CFW MAIN FORM

The CFW File Menu Main Form contains the following choices: Open Database, Reopen Database, Graphing Window, Setup Access, Setup Stores, Setup Printers, and Exit.

Examples of the Main Form appear below.

OPEN DATABASE

When you choose [Open Database], point to any directory to look for stores (for instance, on the network, a hard drive, or a floppy).

NOTE

Upon choosing [Open Database], CFW will default to:
C:\Program Files\ECI\Cnet for Windows\dbFiles
(The actual path may vary based on installation procedures.)
Within CFW, database refers to a group of stores.

REOPEN DATABASE

The [Reopen Database] selection lists the databases that you selected. It will list up to the LAST ten databases you have visited.

DRAWING 6 –CFW MAIN FORM

DRAWING 7 – CFW MAIN FORM: FILE MENU SELECTIONS/REOPEN DATABASE

MODEM COMMUNICATION

To communicate online with CFW, follow the steps below.

1. Logon to the system at the Guest Level or higher (modem communication is not possible if you are logged off the system).
2. Click on the phone button.
3. The Connect to Store Screen appears.
4. For successful connection, specify the connection type, either
   - Direct Connect via the Com Port 1-4
   - Modem Connection via a modem
     To connect via a modem, you must enter:
     a. the phone number in the store setup

     Additionally, make sure the system knows the following parameters:

     a. modem string (dial out commands that are required by some modems, but typically not needed by most modems),
     b. dialing prefix (such as a 9, if it is a required prefix to dial out of the building) and,
     c. modem type, (CFW will list all modems installed by windows, select the one used by CFW).
5. Once the system has the correct connection information, click on [CONNECT] at the bottom of the screen.

NOTE
To discard the entry, click [CANCEL].

6. When connection is completed, the globe at the left of the screen will spin.

Drawing 8 shows an example of the Modem Connection screen.

DRAWING 8 –
CONNECT TO STORE FORM EXAMPLE

CFW STORE SETUP

Access Store Setup by clicking on the Setup Stores choice in the File Menu. The Store Setup form will appear.

NOTE
The Setup Stores menu choice is activated upon entering the system as an Administrator or User.

New groups, stores, and devices may be entered on the Store Setup form at the store data tree by right clicking, or by using the store setup wizard.

STORE SETUP FORM PROPERTIES

The store setup form shows information about the groups, stores and devices that this system communicates with. It contains three sections: tree view, data view, and command buttons. An example of this form in the edit mode is shown below.

Along the top of the form, CFW notifies you of Store Setup Status. The store setup status will be [Viewing] or [Editing]. Viewing indicates that the store setup is being viewed. Editing indicates that the store setup is being changed.

An example of this form appears below.

DRAWING 9 - STORE SETUP FORM – VIEWING MODE EXAMPLE

TREE VIEW OF STORE SETUP FORM

The tree view is on the left. It provides a quick-reference graphic display for all of the group, store, and device data entered in the system. Enter group, store, and device data at the data tree by:

1. Selecting an entry,
2. Right clicking, and
3. Choosing the program action you wish to perform.
4. The system will update the group, store, or device information you enter at the data view portion of the form.

DATA VIEW OF STORE SETUP FORM

The data view is in the middle. It shows all of the system group, store, and device information entered by you or converted by the store data converter. Enter group, store, or device data here by:

1. Placing the cursor at the point of change
2. Entering the new data

NOTE

The tree view and the data view portion of the form simultaneously update any changes you enter.

COMMAND BUTTONS ON THE STORE SETUP FORM

The command buttons are shown on the right side of the form. They enable you to perform certain system functions, which include:

- Exiting but losing changes
- Exiting but saving changes
- Using ECI Help
- Printing Form Information
- Retrieving Store Data
- Entering new system information with the Store Setup Wizard

ENTERING GROUP, STORE AND DEVICE DATA

To enter System data at the Data Tree and in the Data View section of the form, follow the steps listed below.

1. Enter your Administrator or User Level password.
2. Click on the File Menu, Store Setup to view the Store Setup Form.
3. On the **Store Setup Form**, notice that the full system data is displayed on a data tree, and the individual store and device data is displayed in the middle on a data form. (See Drawing 9.)
4. Click on a **Group** selection on the data tree.
5. Right click. The system will offer **two choices**, **Add Group** and **Add Store**.
6. **Click on Add Group** to activate the group section in the data view of the form.
7. **Add the appropriate group information.**
8. **Click on Add Store** to activate the store section in the data view of the form.
9. Add the appropriate store information.
10. **Click on a Store selection** on the data tree.
11. Right Click. The system will offer an **Add Device** choice.
12. **Click on the Add Device** to activate the device section in the data view of the form.
13. Add the appropriate device information for the store.

NOTE

You may also perform copy, paste, paste all, delete and rename actions by right clicking on store and device selections on the store data tree OR by moving one store from group to group OR one device from store to store via drag and drop.

IMPORTANT

To save changes, click [√] before exiting the Store Setup form, otherwise new data information will be lost.

STORE SETUP WIZARD

The store setup wizard will prompt you through group, store, and device entry into the system. The store setup wizard is used to enter information about the store that you intend to setup. It is another means of entering data into CFW. Click on the wizard hat button along the right of the store setup form to bring up the start store setup wizard form (see the example below).

The required fields for store setup with the wizard are store ID, store location, and store baud rate. The store ID and store location are a means of identification for the store in the store setup form. After entering store and group information, the wizard prompts you to enter device information. When you are finished entering store data, click [FINISH] on the final screen (see the example below.) to enter data into CFW.

NOTE

See ECI Help in CFW for complete information about store setup.

To access ECI Help when working with CFW, click on Help, and then Info on the Main Menu Bar.

DRAWING 10 - START STORE SETUP WIZARD FORM

DRAWING 11 - FINISH STORE SETUP FORM WITH DATA ENTERED

ECI STORE REPORTS

CFW features a store report that shows the system group, store, and device configurations. It displays the store and device settings that are separated by group. It also shows the last date that a file was edited or received and saved. The report can be printed, saved, and loaded into a [.db] file. Use it for reference and system comparisons.

Click on the printer button along the right of the store setup form to call up the store report form.

NOTE

See ECI Help in CFW for more information about store reports.

To access ECI Help when working with CFW, click on Help, and then Info on the Main Menu Bar.

DRAWING 12 - ECI STORE REPORT EXAMPLE

GRAPHING DATA

ON LINE

In order to graph on line data, select the graphing option in the same location as in the DOS program.

OFF LINE

To view graphs stored in the CFW database, follow the steps below.

1. Logon to the system at the Guest level or higher.
2. Click [FILE].
3. Click [GRAPHING WINDOW].
4. The Open Graphing File Form allows you to choose the graphing file that you want to view.

NOTE

The Open Graphing File Form enables you to select graphing file types to view saved graphs. CFW defaults to [CFW Graphing File] which carries a .gph extension.

5. Choose a file and click [OPEN].

6. Upon entering a graphing file, a CFW graph will appear.

DRAWING 13 – GRAPHING FILE FORM

DRAWING 14 – CFW GRAPH

NOTE

The [OPEN GRAPHING FILE] command produces a full view of the log interval of the controller as preset by the user.

GRAPHING FEATURES

ZOOM

To view a section zoom, follow the steps below.

1. Position the mouse on the graphed line where you want to begin the zoom.
2. Click and drag the mouse to the position where you want to end the zoom.
3. Release the mouse. The zoom will appear.

NOTE
Upon clicking the mouse on the CFW graph, the cursor will change to a [∅] initially, and will then become a magnifying glass to signify zoom.

4. The scroll bar permits movement within the zoomed scale, outside of the selected section.
5. To restore the full view of the graph, click on the magnifying glass button on the upper menu bar in the CFW Graphing Form.

NOTE
The Screen Tip for the magnifying glass button reads [UNZOOM]. See Drawing 14 for button.

TIME BAR

CFW enables you to insert a time bar into your CFW graph. A time bar permits quick visual reference to a specific time.

1. Position the cursor on the X-axis at the desired time and click. A vertical time bar will appear.
2. To remove the time bar, click on the hand button on the upper menu bar in the CFW Graphing Form.

NOTE
The Screen Tip for the hand button reads [ANNOTATION]. See Drawing 14 for button.

HIDE DATA SETS

1. To hide data sets on your CFW graph, double click on the legend at the top of the graph that labels the data set you want to hide.
2. To restore the data set, click on the papers button on the upper menu in the CFW Graphing Form.

NOTE
The Screen Tip for the papers button reads [SHOW ALL]. See Drawing 14 for button.

CUSTOMIZE GRAPHS

Setting preferences for the style of your graph is possible by right clicking on the graph while in the CFW Graphing Form. This action reveals the selections list below.

DRAWING 15 – CUSTOMIZATION OPTIONS

Further customization options are available by selecting [CUSTOMIZATION DIALOG] from the screen list shown above.

CUSTOMIZATION DIALOG

A title and subtitle for your CFW graph may be entered in the Customization Form. General changes to viewing style, font size, numeric precision, and grid lines may also be executed in this form.

The color tab enables you to apply colors to the following fields:

- Desk Foreground
- Desk Background
- Shadow
- Graph Foreground
- Graph Background

The style tab enables you to apply colors and point shapes to your data sets.

An example of this form appears below.

NOTE
CFW retains all of your graph customization settings with the exception of title and subtitle.

DRAWING 16 – CUSTOMIZATION DIALOG FORM

SAVE GRAPH

To save your CFW graph, click on the diskette button on the menu bar at the top of the CFW Graphing Form and follow the steps below.

NOTE
The Screen Tip for the diskette button reads [EXPORT]. See Drawing 14.

1. The Save Graphing File Form appears.
2. Choose the directory that you want to save your files in.
3. Click [SAVE].

NOTE
The default path for graphing files is [C:\Program Files\ECI\Cnet for Windows\Graphing\] The actual path may vary depending on procedures followed during installation.

4. The Save Graphing File Form enables you to select graphing file types. CFW defaults to [CFW GRAPHING FILE] which carries a .gph extension.

PRINT GRAPH

To print your CFW graph, click on the printer button on the menu bar at the top of the CFW Graphing Form.

1. The Printing Form appears.
2. Select a printer in this form.
3. Click on [SETUP] to set printer properties.
4. Click on [OK] to print.

NOTE
CFW prints WYSIWYG graphs.