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MGW CMAP 8010
GSS Maintenance

Installation & Operation

November 2003
S/N 213672

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About this Guide

Preamble.

- Chapter 1 – System Overview: Provides a short description of the CMAP 8010 and introduces the MultiGain Wireless system.
- Chapter 2 – Installation: Provides a step by step procedure for installing the CMAP software.
- Chapter 3 – Operations: Describes how to work with the software.
- Chapter 4 – Shelf Menu: Describes the operation options of the shelf menu.
- Chapter 5 – Alarm Log: Describes the alarm log feature, inlcuding how to filter, print and query the log.
- Appendix A – Cable Connectors: Provides a list of PIN connectors.
- Appendix B – Modem Installation: Describes how to install and initialize a modem connected to the GTU and a modem connected to the PC. It also provides examples of modem versus initial commands.

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1

Chapter 1 - System Overview

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Introduction

The Global Synchronization System (GSS) enables synchronization of the time and clock of a group of MGW RPCU's (Radio Port Control Units) in terms of the frequency series of each RPCU.

The GSS system consists of two units:

1. GTU - The GPS system control unit and clock/timing generator
2. GPS - The navigation system receiver which locks on to several satellites and retrieves accurate timing and positioning information for the GSS system

Why CMAP 8010?

There are two ways to travel. You can set out in a general direction and from there on, rely on your instincts. Alternatively, you can obtain a map and take it from there. Traveling without a map certainly has its surprises, but forget about routes and make sure that you have unlimited time at your disposal. In the age of optimum time management, the experienced traveler will always have a map at hand to chart the best course within the available time.

The CMAP 8010 enables effortless site and customer equipment installation. The program offers the user an easy-to-use Man Machine Interface. . .

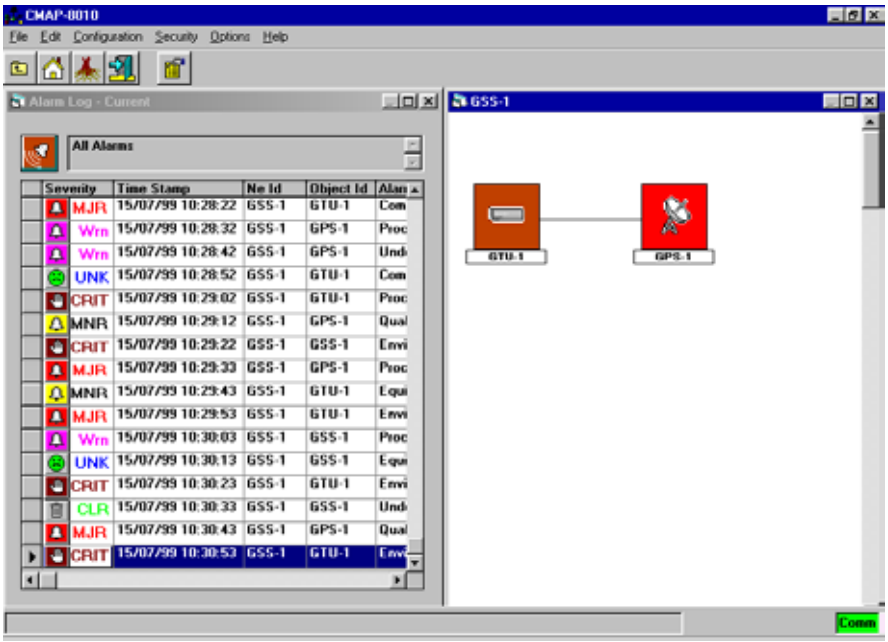


Figure 1-1: CraftMap Interface (CMAP 8010 Network View)

A highly beneficial feature of the program is the enabling of graphic display of the system and its component parts according to a pre-defined color classification. Thus, the current alarm status is ascertained by observing the color display of the element, e.g., a faulty GTU will display "red." If, for example, the GTU-1 shelf (see Figure 1-1) displays "red," this signifies a major fault in the unit. The subsequent stage is to identify the fault and obtain the appropriate solution using the interactive CraftMap menu. For further information refer to Chapter 3 - *Operations*.

A physical display of a shelf is obtained by double clicking on the shelf icon.

The Windows screen comprises the product logo, menu bar, command buttons and data entry window: maps, data entry and equipment views.

The CMAP 8010 Main Menu (see Chapter 4) is itemized below:

Table 1-1: CMAP 8010 Main Menu

ITEM	CONTENTS
File	The "Exit" button for exiting the CraftMap session is included under this item.
Edit	Lock window
Configuration	Provisioning: ■ Frequency series* ■ Antenna position** ■ GTU details* ■ GPS details ** ■ Time and date* ■ Satellite status**
Security	Log-in/log-out Regulated access to menu items
Options	Comm. Features Modem Commands Modem Operation
Help	About CMAP 8010

* Applicable to GTU provisioning only

** Applicable to GPS provisioning only

Introduction to MultiGain Wireless

MultiGain Wireless is a Wireless Local Loop (WLL) system, which utilizes radio links instead of conventional copper based links to connect telephone subscribers to a local telephone network. The system provides toll quality voice channels, high quality data facsimile and modem, and is completely transparent to local exchange services and signaling. MGW supports a full range of network interfaces and protocol options.

MGW is not only easy to install and extremely economical, but is often the only practical solution in areas where copper-based infrastructures are difficult to implement. MGW can be applied to the following scenarios:

- New urban or suburban housing developments without an existing copper infrastructure.
- Urban environments where copper infrastructure is already saturated.
- Areas where digging in order to lay the foundations for a copper-based system is restricted.
- Temporary environments, such as exhibitions and conventions, as well as disaster zones.
- Rural environments, where copper cables may be an expensive option.

The MGW system is flexible and efficient in its use of the radio spectrum, and a wide range of optional frequency bands is available. This allows adaptation to the varying needs of different countries. The system uses Spread Spectrum Frequency Hopping technology, which has proved to be highly reliable in many scenarios, including those characterized by harsh environmental conditions.

MGW can be operated and maintained using the OfficeMap, CraftMap or SuperOfficeMap network management systems.

2

Chapter 2 - Installation

About this Chapter

- Miminum Hardware Requirements, page 2-1
- Software Installation, page 2-3
- Hardware connections, page 2-9

Minimum Hardware Requirements

- PC Pentium 300 MHz, running Windows[1] 95/98/ME[2]
- 64 Mbytes RAM
- 500 Mbytes hard disk free space
- 3-1/2" floppy drive
- CD-ROM drive
- S-VGA graphics adapter card
- One serial port
- Microsoft or compatible mouse
- Eicon S50 X.25 Card Adapter (for X.25 Network)
- PC compatible (e.g., 10 Base T, 3Com, etc.) LAN Card Adapter (for TCP/IP Network)
- Parallel printer port and brand compatible printer
- 17" monitor (or larger) with graphics accelerator for Windows

[1] Windows is a trademark of Microsoft Corporation.

[2] Use original English (British Setting) Windows version only.

Software Installation

Standard CMAP 8010 package consists of the user manual and CD.

Make sure that your PC hard disk is formatted and running Microsoft Windows 95/98/ME.

IMPORTANT

- The PC shall be dedicated to xMAP applications and the application shall be installed on Drive C:\. Only one version of each xMAP application can be installed on a given PC. The PC should be used exclusively for network management system requirements.
- Before installing CraftMap, make sure that a printer is installed under Windows. Do not proceed before you have selected the printer.
- Make sure that your Windows display settings calls for Small Fonts so that CMAP 8010 screens can display maximum information.

CMAP 8010 Installation

1. Switch on your computer and wait for the Win 95/98/ME desktop to appear.
2. Insert the CD in the appropriate drive.
3. From the Windows Taskbar click the **Start** button to display the **Start** menu.
4. Click **Run** to open the **Run** dialog window.
5. Click the Browse button to display the Browse dialog window.
6. From the “Look in” dropdown list, select the CD-Rom drive to display the CD file contents.
7. Select and open the CMAP 8010 folder.
8. Highlight the SETUP.EXE file and click the **Open** button to return to the Run dialog window.

9. Click OK to display the following cautionary message:

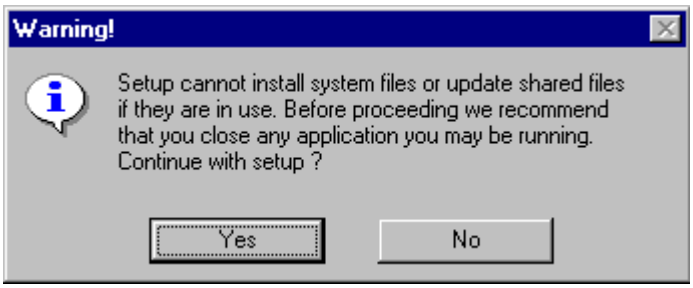


Figure 2-1: CraftMap Interface (CMAP 8010 Network View)

10. Click **Yes** to initiate the installation wizard.

NOTE

Note: It is not necessary to uninstall previous CMAP 8010 installations. If you have a current CMAP 80!0 installation you are required to respond to the following pop-up window:

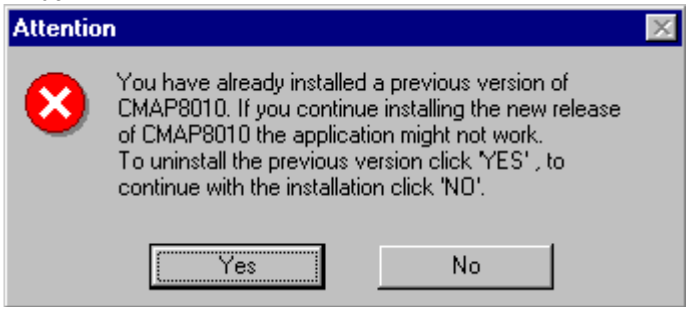


Figure 2-2: Attention Popup Window

Click the **Yes** button to uninstall the previous version and continue the installation.

11. The CMAP 8010 Setup "Welcome" popup window is displayed:

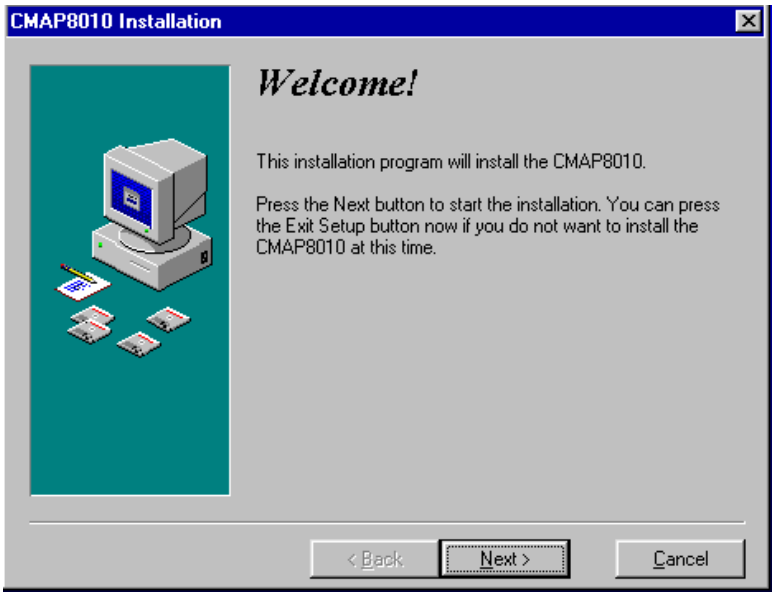


Figure 2-3, CMAP 8010 "Welcome" popup window.

12. Click "Next".

13. The CMAP 8010 "Ready to Install" Window is displayed:

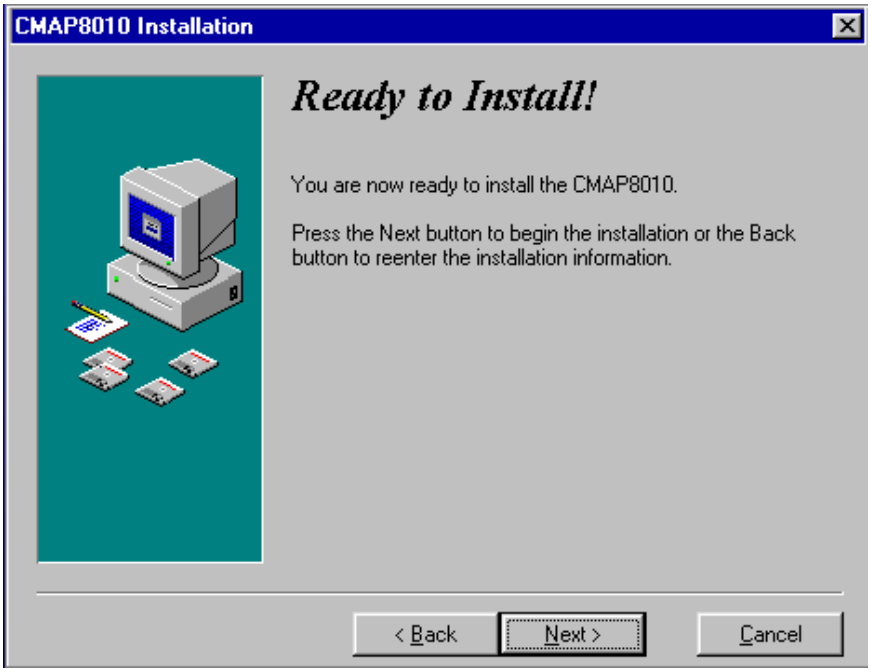


Figure 2-4, CMAP 8010 "Ready to Install" popup window.

14. Click "Next".

15. The "Installing" popup window is displayed, allowing the user to monitor the progress of the installation:

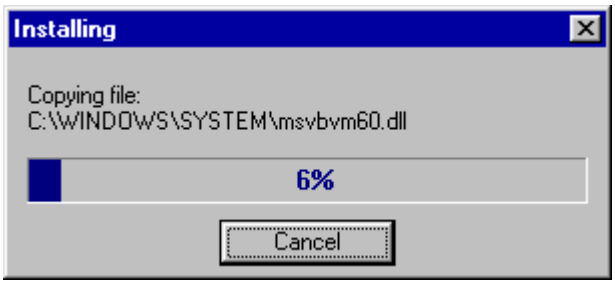


Figure 2-5: Installing popup window.

16. The "Icon on Desktop" popup window is displayed and the user asked if he wishes the CMAP 8010 shortcut icon to be created on the desktop:

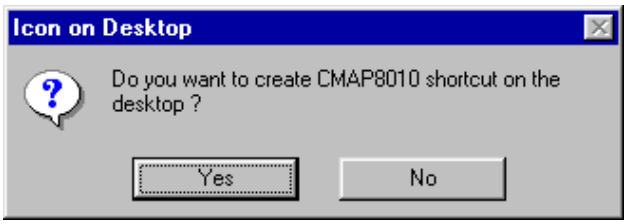


Figure 2-6: Icon on Desktop popup window.

17. Click **Yes** to initiate the installation wizard.Click the Yes button to display the Setup INI pop-up window:

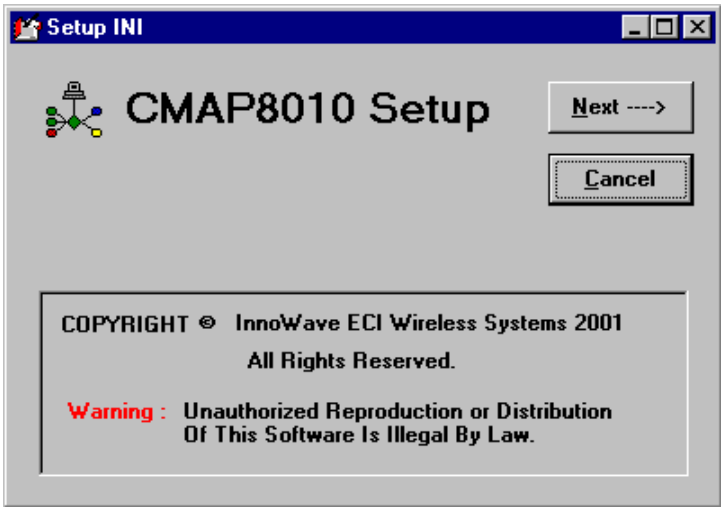


Figure 2-7: Setup INI Pop-up Window

18. Click the Next button to display the "Select Kind of Communication" popup window, enabling you to define the communications configuration linking the PC (CMAP 8010) to the GTU-1 module.

19. Click the button next to "Serial Port" if a direct connection is to be used or the button next to "Modem" if a modem is to be used:

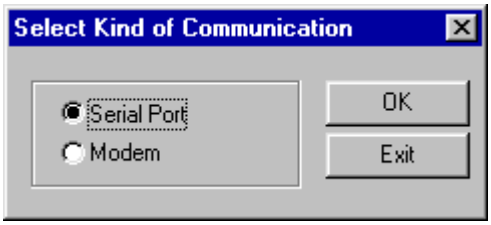


Figure 2-8: Select Kind of Communication popup window.

20. Click OK to confirm.

21. Next the "COM Port Information" popup window is displayed:

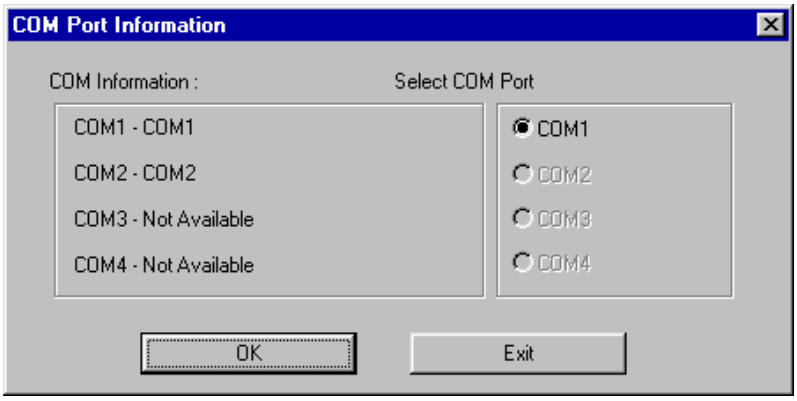


Figure 2-9: COM PORT Information popup window.

22. Select a COM Port by clicking the appropriate button. Click OK to confirm.

23. The "Installation Complete" popup window is displayed:

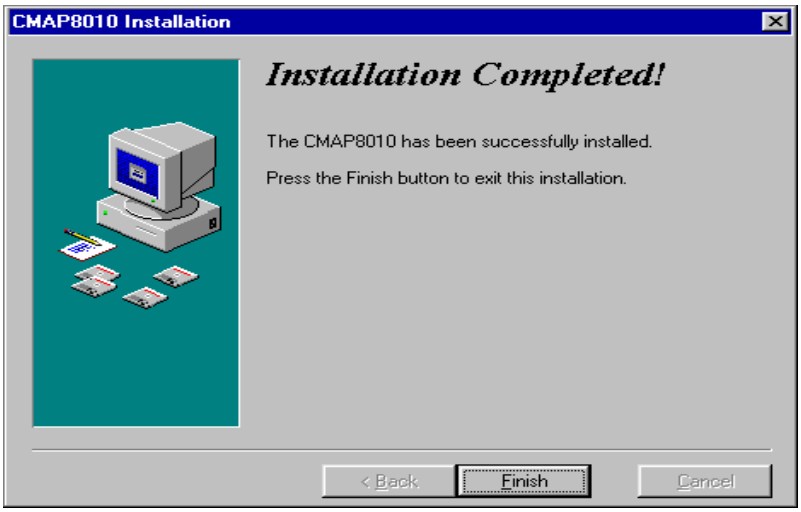


Figure 2-10: Installation Complete popup window.

24. Click Finish. The "Install" message box is displayed informing you that the Windows must be restarted in order for the installation to be completed.

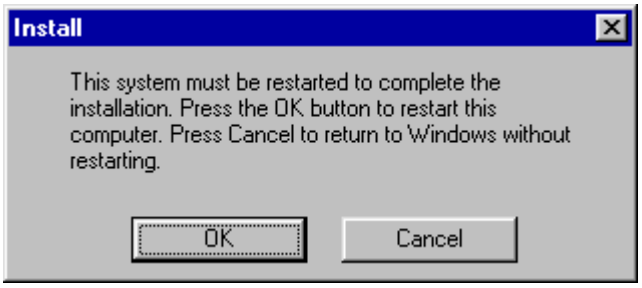


Figure 2-11: Install message box.

25. Click OK to restart Windows or "Cancel" to return to desktop.

26. In either event, the installation process will be completed only when Windows is restarted.

27. The first time CMAP 8010 is run the "Database Properties" popup window is displayed. The user is requested to select a folder in which the database is to be located:

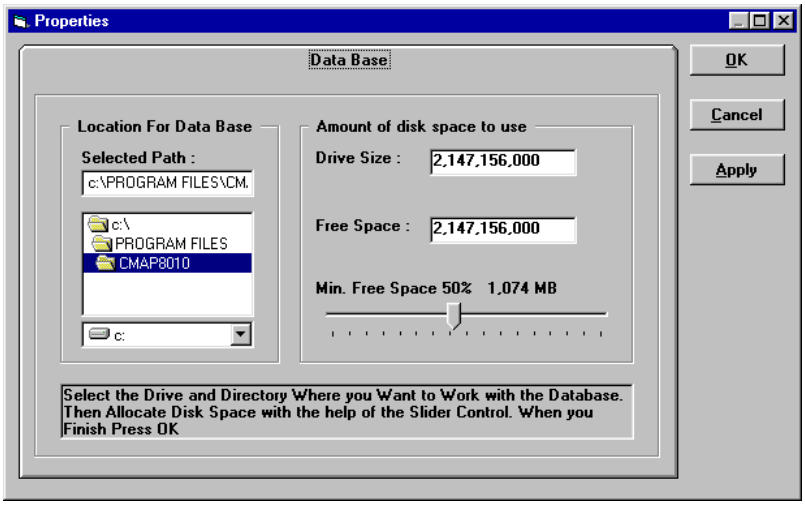


Figure 2-12: Database Properties popup window.

28. Follow the instructions in the dialog window, by accepting the default folder or by selecting a folder of your choice.

29. Press the Apply button to make this information immediately available to CMAP 8010.

30. Press the OK button to start CMAP 8010.

Hardware connections

The PC is connected to the GTU shelf network (CMAP 8010) as shown below:

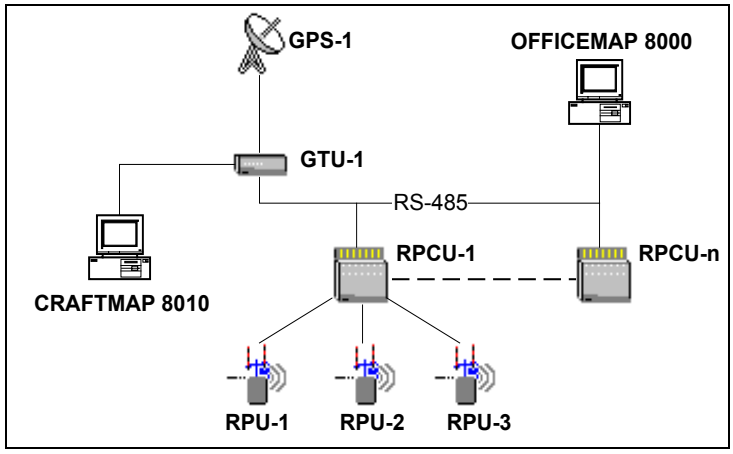


Figure 2-13: PC to GTU Shelf Network

The PC is connected to the rear side of the GTU. The GTU is connected by cable to the CraftMap.

Optionally, for office or large site global management, the OfficeMap management software can be connected as shown in Figure 2-1 above. The OfficeMap can control up to 31 network elements, usually a single GTU and several RPCU's connected to the RS-485 control bus.

3

Chapter 3 - Operations

In This Chapter

- Getting Started, page 3-2
- Screen Description, page 3-4
- Screen Operation, page 3-7
- GTU Unit Display and Description, page 3-9

Getting Started

To start CMAP 8010::

1. Double-click on the CMAP 8010 icon  to run the CraftMap program.
2. The LOGIN popup window superimposed on the CMAP 8010 CraftMap interface screen will appear:

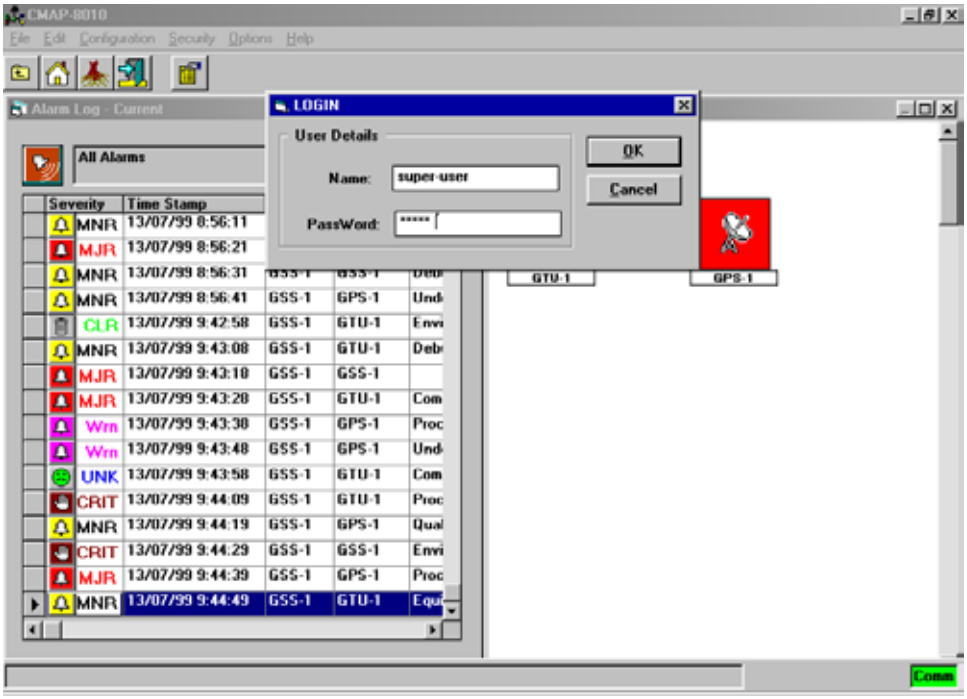


Figure 3-1: CraftMap Login - Opening Screen

3. To initiate CraftMap use Alvarion's preset "User Name" and "PassWord,": SUPER-USER and ENTER respectively. If you make an incorrect entry, the CraftMap Message pop-up window will display:

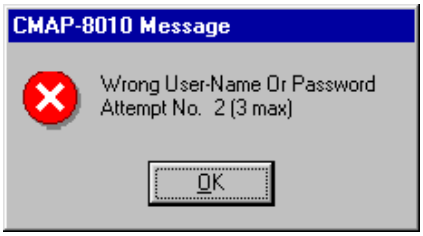


Figure 3-2: Cautionary Message (CMAP 8010)

NOTE

The user is allowed three attempts. If the third attempt fails, CMAP 8010 will load automatically, without enabling the user to configure the system!

The system's supervisor should change the "PassWord" immediately using the "Security/Menu Access" item.

4. Click the OK button to clear the LOGIN pop-up window and display the CMAP-8010 Full Screen (Figure 3-3):

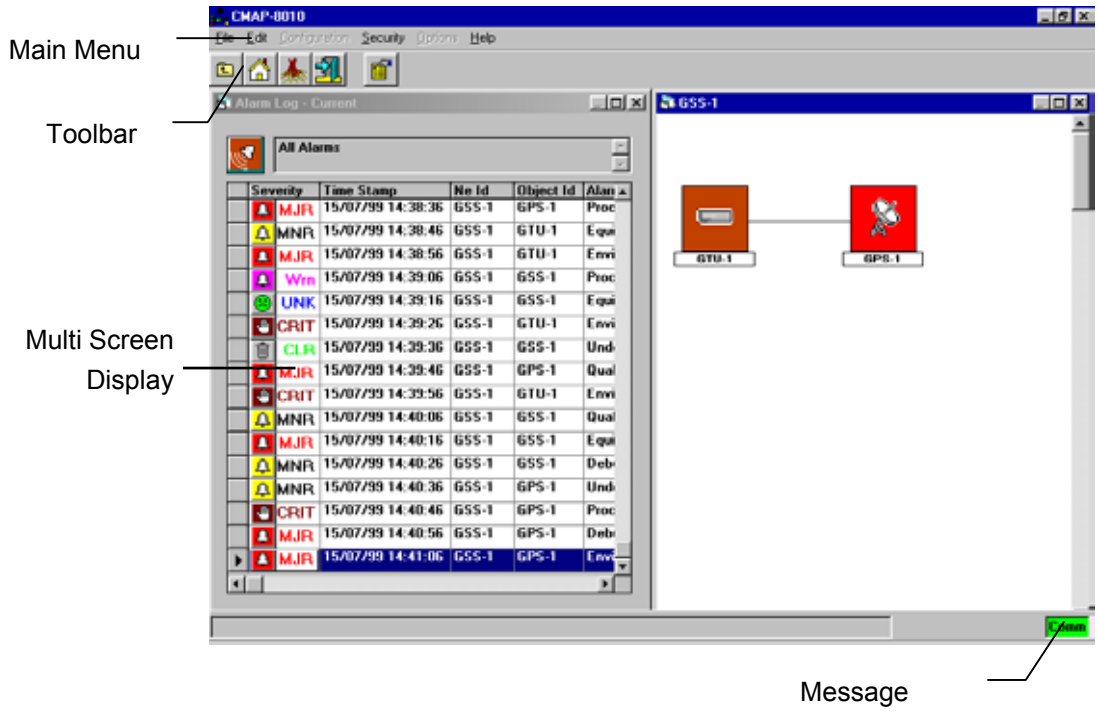


Figure 3-3: CMAP 8010 Full Screen

If the Login procedure is incomplete (the operator cancels or Logout or enters without menu access), only File, Edit, Security and Help menu items are enabled.

Screen Description

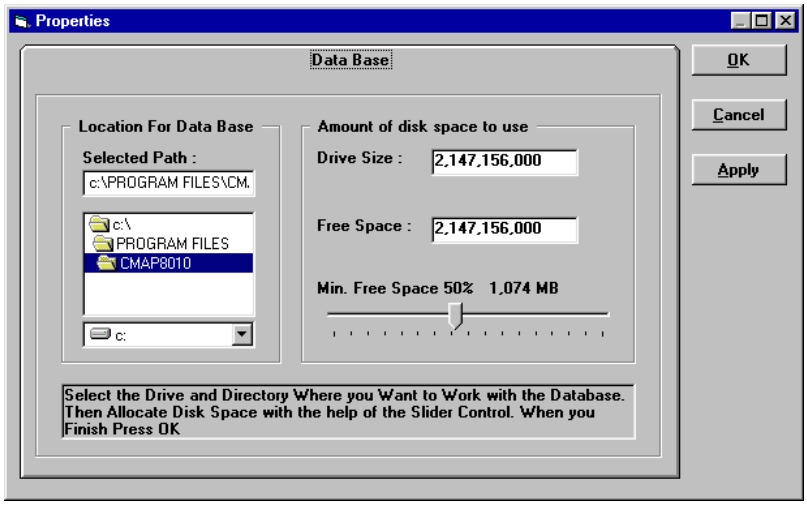
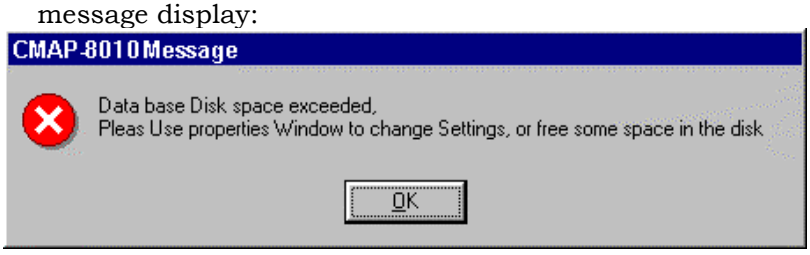
The CMAP 8010 CraftMap interface comprises the following elements:

- Header
- The Header bar displays the CMAP 8010 CraftMap identifier
- Main Menu
- Main menu bar items displayed (and available) are dependent upon the currently active screen.
- Button Bar
- The command button bar functions are defined as:

Table 3-1: Command Button Bar Functions

Command	Function
 Up	Display upper hierarchical level of selected map (not supported in this version)
 Home	Display user's home map selection
 Root	Display system root map
 Exit	Alternative to Main Menu File/Exit item

Table 3-1: Command Button Bar Functions

Command	Function
 Properties	Click to display the properties window with data base location and disk usage statistics:  **Figure 3-4: Properties Window** The properties window, incorporating the Data Base frame, allows the user to select the path for the location of the CMAP 8010 working database, as well as allocate the appropriate disk space. User instructions are spelt out at the bottom of the window. If the allocation limits are exceeded during system operations, the user is alerted by an appropriate screen message display:  **Figure 3-5: CMAP 8010 Message Window**

- Multi screen display
- Initially two screens are displayed in this area: the CMAP 8010 map on the right and the Alarm Log on the left.Map items are colored according to their respective alarm status:

Table 3-2: Map Item Alarm Status

Symbol	Color	Alarm Status
CLR	Green	All clear
MJR	Red	Major
CRIT	Crimson	Critical
MNR	Yellow	Minor
Wrn	Purple	Warning
UNK	Blue	Unknown

The color indicates the operating alarm status.

NOTE

By clicking on the header bar of each split screen will display the distinctive menu bar of the respective split screen.

■ Message Panel

CraftMap communication status is given in the message panel as follows:

- Black foreground, green background ⇒ Connection confirmed.
- Black foreground, red background ⇒ No connection.

NOTE

When initiating the CMAP, wait for confirmation of connection, which takes a few seconds to reach a stable state.

Screen Operation

Basic screen management:

- Click the  button in the top right hand corner to reduce screen window.
- Click the  button to close the session and exit the screen
- Click the  button in the top right hand corner of the screen to convert the main screen to CMAP 8010 icon in the desktop taskbar. Click the icon to restore the Main Screen.
- Click the  button in the top right hand corner of the screen to maximize screen size.
- Menu items can be activated either by:

  1. Clicking the menu item, or
  2. Pressing the Alt key and the underlined letter in the item (e.g., Alt+S, to open the Security sub menu).
  3. Double-click the GTU to display the "physical" shelf and the LED display.

NOTE

By clicking on the header bar of each split screen will display the distinctive menu bar of the respective split screen.

- Message box
- CraftMap communication status is given in the message box as follows:

  - Black foreground, green background ⇒ Connection confirmed.
  - Black foreground, red background ⇒ No connection.

NOTE

When initiating the CMAP, wait for confirmation of connection, which takes a few seconds to reach a stable state.

- Menu items can be activated either by:

  1. Clicking the menu item, or
  2. Pressing the Alt key and the underlined letter in the item (e.g., Alt+S, to open the Security sub menu).

The multi screen display can accommodate more than two screens simultaneously:

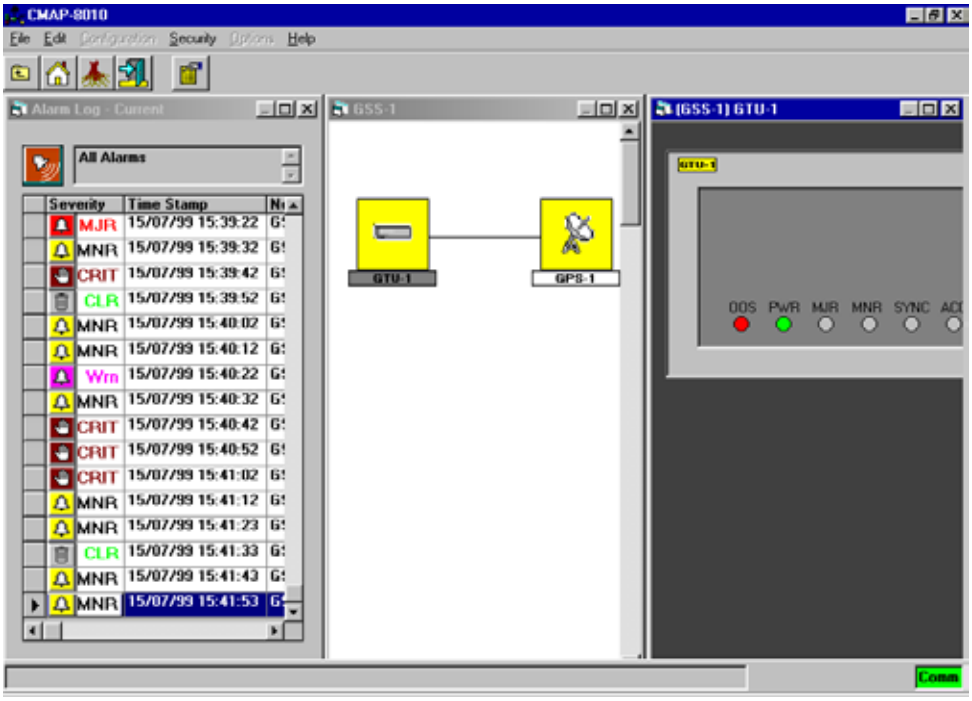


Figure 3-6: Typical Multi Screen Display (CMAP 8010)

NOTE

To reduce the multi screen display to two or less, double click the Close button of a given screen to close the respective screen and obtain a 2-screen display.

When a new screen is opened, it occupies the whole multi-screen display area.

Press the button to the right of the Menu bar to display the original two screens and the new screen.

Attempting to close down a locked screen (see Map Menu → Edit item) will display the following message:

Figure 3-7: CMAP 8010 "Window is Locked" Message

In order to unlock a locked screen, the user must click the Edit item in the Main Menu, and click the Lock window menu item (see Chapter 5 - Edit).

GTU Unit Display and Description

Unit Display

To to display the GTU unit configuration:

Double-click the GTU item in the main network.

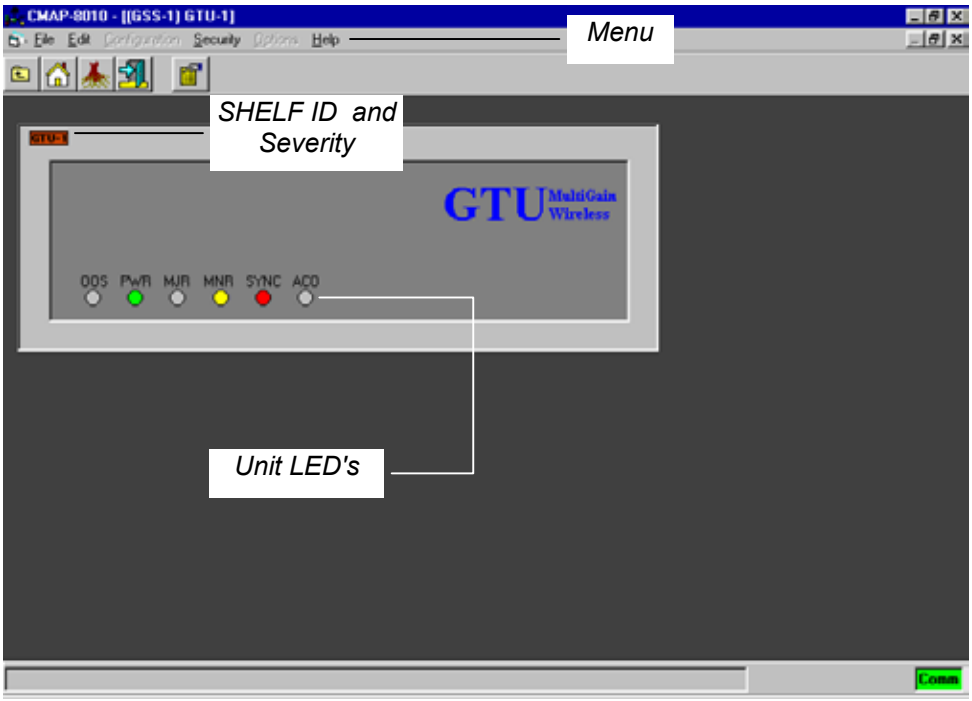


Figure 3-8: GTU Unit Display

The SHELF ID box is displayed in the top left hand corner of the shelf display (see Figure 3-8). The name background color indicates the current summarized alarm status (Chapter 5 - Alarm Log).

Unit LEDs are defined below:

Table 3-3: Unit LEDs

LED	Color	Status
OOS	Red	Out Of Service
PWR	Green	Power supply active
MJR	Red	Major alarm
MNR	Yellow	Minor alarm
SYNC	Red	No synchronization with GPS system
ACO	Green	Alarm CutOff active

SHELF MENU

For a description of the following shelf menu options, refer to Chapter 4.

- File
- Edit
- Configuration
- Security
- Options
- Help

4

Chapter 4 - Main Menu

In This Chapter

- File, page 4-2
- Edit, page 4-3
- Configuration, page 4-4
- Security, page 4-12
- Options, page 4-17
- Help, page 4-22

File

To exit CMAP 8010:

1. Click the "File" item in the Menu bar to open the drop down menu, comprising the "Exit" item:

Figure 4-1: File Item in the Menu Bar

2. Click the "Exit" item to display the following pop-up message:

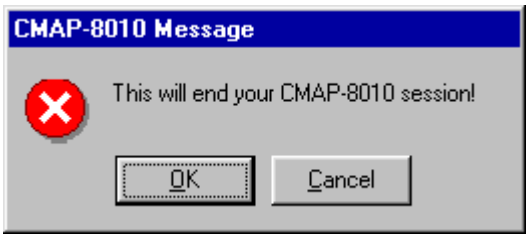


Figure 4-2: CMAP 8010 End Of Session Message

3. Press "OK" to quit CMAP.

4. Press "Cancel" to return to CMAP.

NOTE

You can also exit CMAP by clicking the Exit button in the button bar immediately below the main menu.

Edit

To lock/unlock a CMAP 8010 window:

1. Click Edit to open the item in the main menu bar to open the drop down menu:

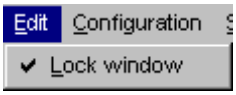


Figure 4-3: Edit Item in the Menu

The single "Lock window" item is highlighted. The "√" in front of the item (the main map default) indicates that the active window is locked.

2. Click on the Lock window item to unlock an active window. The "√" will not appear in front of the item.

NOTE

All sub-maps are unlocked in their default mode.

Configuration

GTU Provisioning

Unit Display and Status

To view the GTU unit status:

1. Double-click the GTU icon in the GSS map to display the GTU shelf:

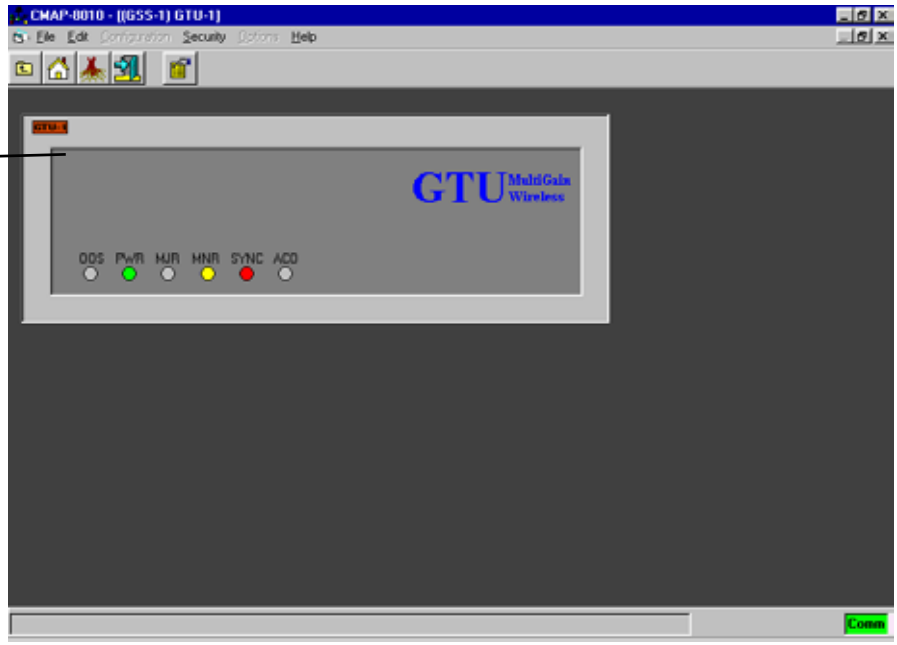


Figure 4-4: GTU Shelf

2. Double-click the GTU Unit (see above) to obtain the GTU status window display:

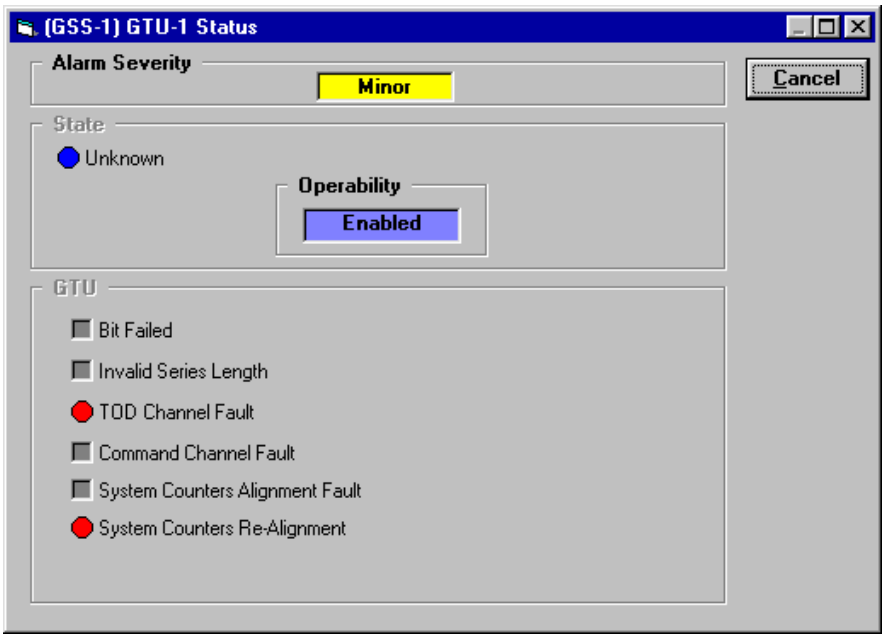


Figure 4-5: GTU Status Window

The status window is for information only. Press the Cancel button to return to the GTU shelf screen.

To access the provisioning menu:

Click Configuration in the main menu to display the Provisioning sub menu item. Click the latter to display the Provisioning sub menu:

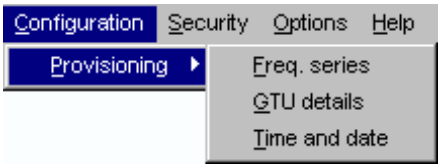


Figure 4-6: Configuration Item in the Main Menu

Freq. Series

To view/edit the Frequency Series length:

Click the Freq. series item in the Provisioning sub menu to display the Frequency Series display window:

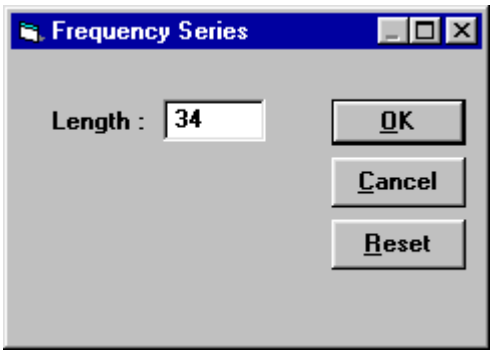


Figure 4-7: Frequency Series Window

The Frequency Series length can vary between 1 to 80 and should be identical to the frequency series length of all RPCU's at the same site.

Enter the required length in the Length field and press OK to display the system-warning message:

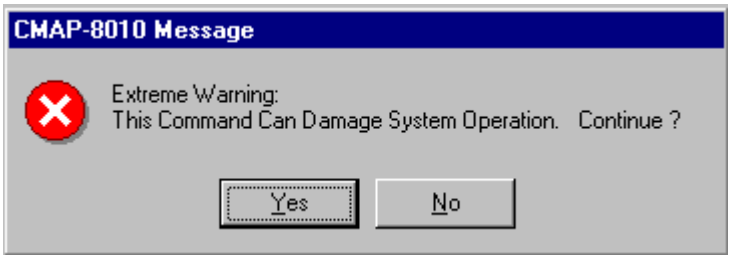


Figure 4-8: CMAP 8010 Message

Click the Yes/No button to continue/discontinue and return to the GTU shelf screen.

Press Cancel to return to the GTU shelf screen without adjusting the Frequency Series length.

Press Reset to invoke the previous series length.

GTU Details

To view the GTU details display window:

Click the GTU details item in the Provisioning sub menu. The GTU Details window is displayed:

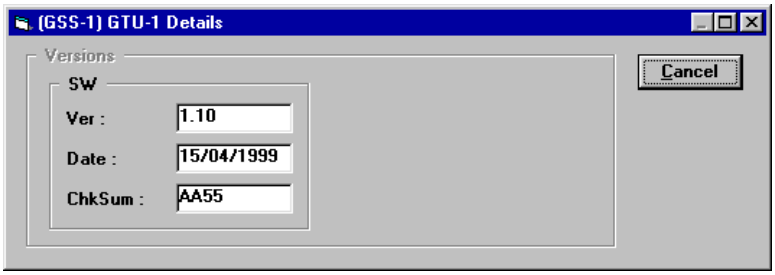


Figure 4-9: GTU Details Window

The GTU details window is for information only. Press the Cancel button to return to the GTU shelf screen.

Time and Date

To view/edit time and date:

1. Click the Time and date item in the Provisioning sub menu to display:

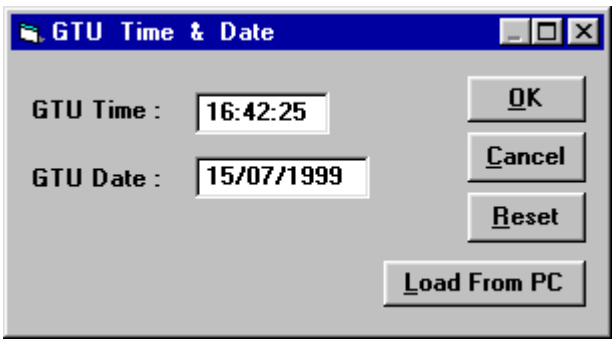


Figure 4-10: GTU Time & Date Window

The GTU Time and Date displayed in the respective fields correspond to the current GTU setting. If the current setting is as required, press the OK button to return to the GTU shelf screen.

NOTE

The GTU Time and Date settings will affect the Alarm Report when a new alarm registers.

2. Press the Cancel button to return to the GTU shelf screen without making any adjustment to time and date.
3. Press the Reset button to reset the time and date to the previous settings.
4. Press the Load from PC button to set Time and Date according to the current PC setting.

GPS Provisioning

Unit Status

To view the status of the GPS unit:

Double-click the GPS icon in the GSS map to display the GPS status window display:

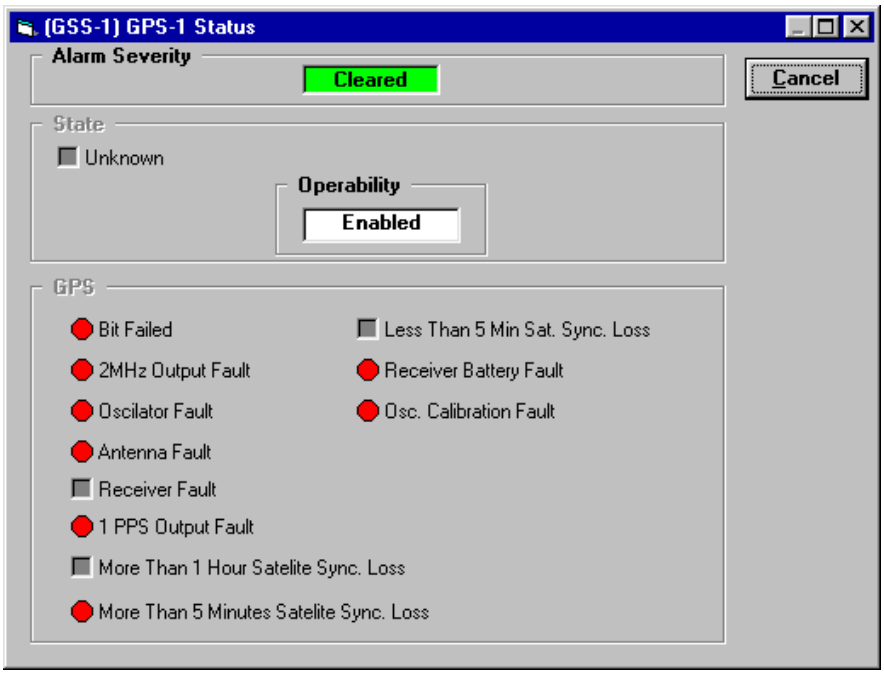


Figure 4-11: GPS Status Window

The status window is for information only. Press the Cancel button to return to the GSS main screen.

To display the Provisioning sub menu item:

Click the Configuration item in the main menu to. Click the latter to display the Provisioning sub menu:

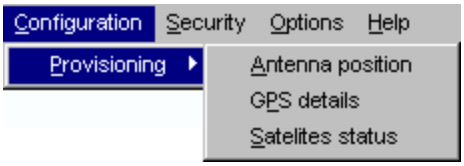


Figure 4-12: Provisioning Sub Menu

Antenna Position

To view/edit antenna position:

Click the Antenna position item in the Provisioning sub menu to display the GPS Antenna Position Window:

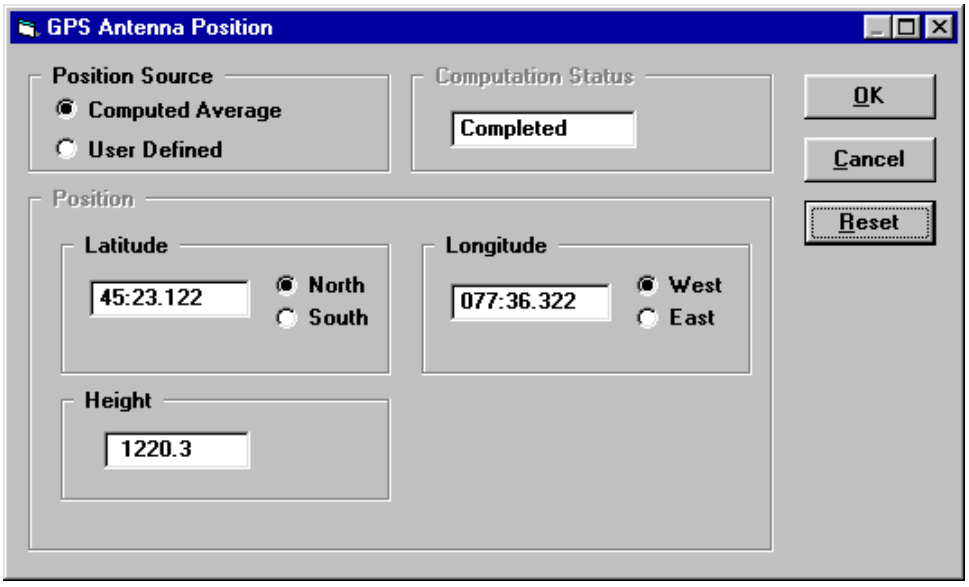


Figure 4-13: GPS Antenna Position Window

The Position Source frame includes two options:

- *Computed Average* - The GSS automatically calculates its position according to the average of received satellite information.
- *User Defined* - GSS override, enabling the user to manually enter positional data.

If the Computed Average option is selected, the Position frame is disabled and the Position parameters are for information only. If you wish to modify the Position parameters, check the User Defined check box to enable the Position frame and modify the parameters accordingly.

Press the OK button to retain the defined parameters and return to the GSS main screen.

Press the Cancel button to cancel this operation and return to the GSS main screen.

Press the Reset button to retrieve the previous settings.

GPS Details

To view/edit GPS details:

Click the GPS details item in the Provisioning sub menu to display the GPS details Window:

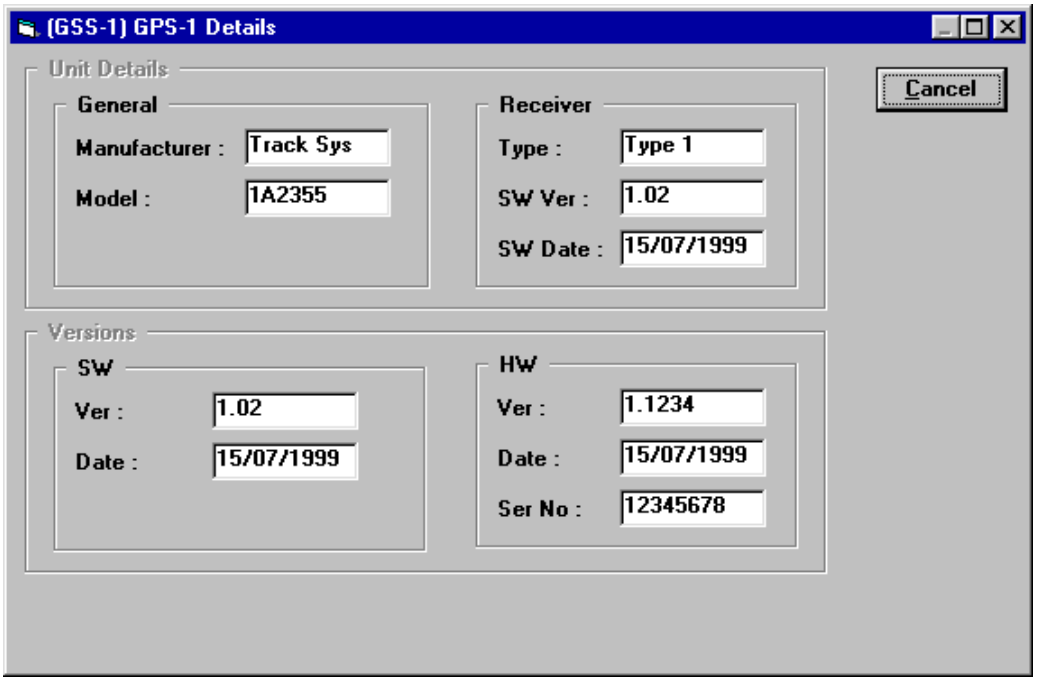


Figure 4-14: GPS Details Window

GPS details are for information only. Press the Cancel button to return to the GSS main screen.

Satellite Status

To view/edit satellite status:

Click the Satellite status item in the Provisioning sub menu to display the GPS Satellite Details Window:

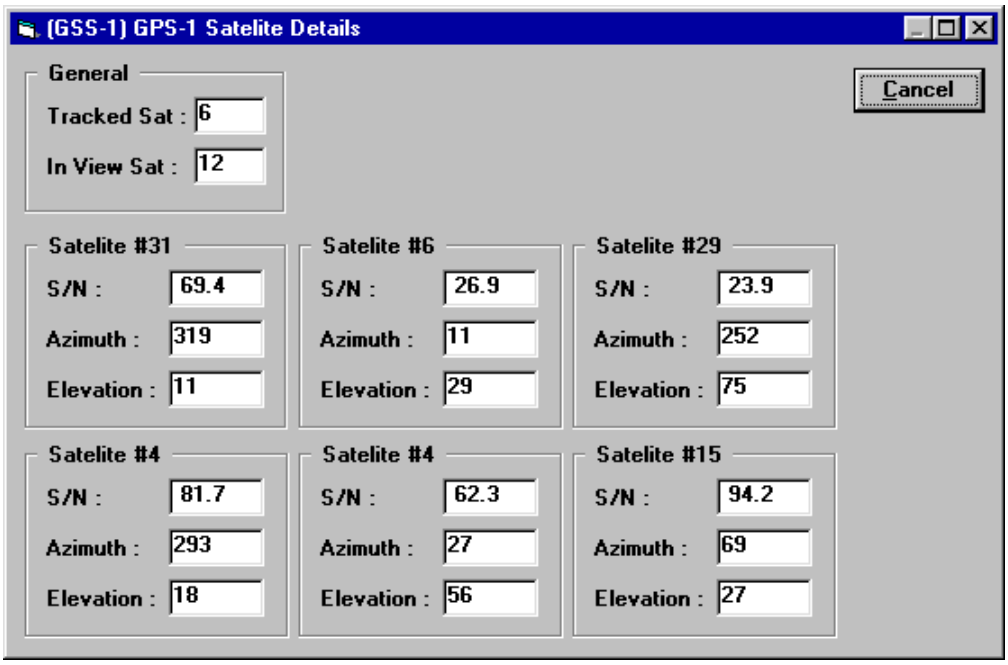


Figure 4-15: GPS Satellite Details Window

The satellite details window can display information for up to six satellites. Displayed details are for information only.

With reference to the General frame above, the number of In View Sat(ellites) is always greater than the number of Tracked Sat(ellites).

Satellite parameters are defined as follows:

- S/N - Signal to Noise Ratio
- Azimuth - Azimuth of satellite with respect to the GSS location
- Elevation - Elevation of satellite with respect to the GSS location

Press the Cancel button to return to the GSS main screen.

Security

General

Under this menu item the user can control system log-in and log-out operations, regulate access to menu items according to varying levels of responsibility and seniority (performed by the CraftMap supervisor via the Security/Menu Access item)

Click the Security item in the main menu to open the item sub menu:

Figure 4-16: Security Item in the Main Menu

Login

To login CraftMap:

Authorized users can access the active CraftMap by clicking the Security/Login item to display the LOGIN pop-up window:

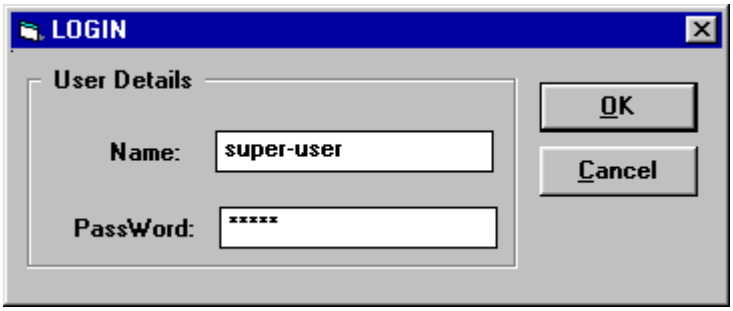


Figure 4-17: LOGIN pop-up window

The user can then complete the "Name" and "PassWord" fields, press OK and gain access to menu items according to his/her security rating. This operation automatically cancels the previous Login action.

LogOut

To logout CraftMap:

Click the logOut item to display the pop-up window:

Figure 4-18: Logged-out Message (CMAP-8010)

Menu Access

To view/edit security access parameters:

1. Click the Menu access item to display the LOGIN pop-up window.
2. Complete the "Name" and "PassWord" fields and press the OK button to display the SECURITY ACCESS window (only accredited supervisors can access this window):

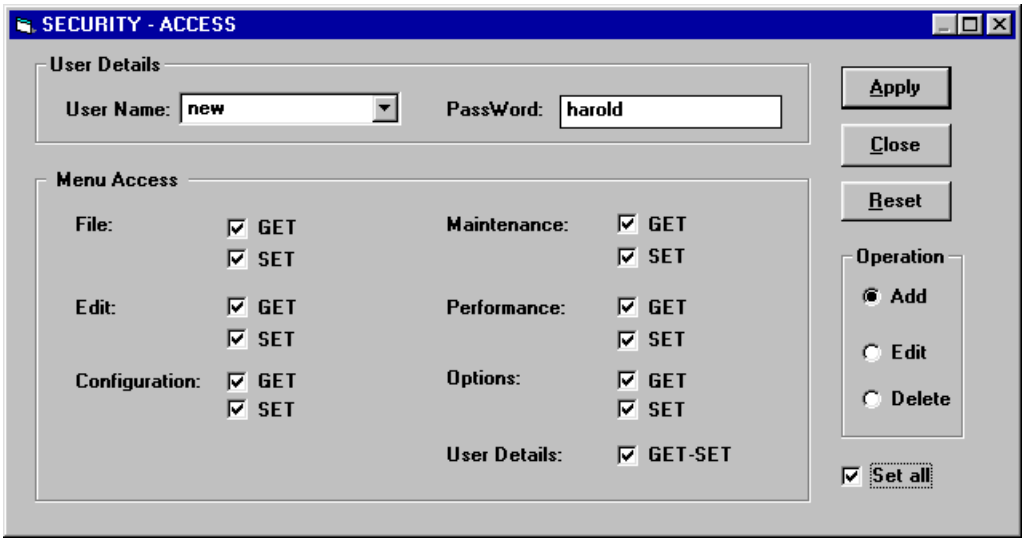


Figure 4-19: SECURITY - ACCESS Pop-up Window

The SECURITY - ACCESS window allows the supervisor(s) to regulate CraftMap availability in terms of "User Details" and "Menu Access."

3. In the "User Details" frame, the supervisor can type in the relevant "User Name" and "PassWord" for all potential users. Turning to the "Menu Access" frame, each item is listed under two categories: GET and SET, denoting data retrieval and database modification respectively.

4. In Figure 4-21 the category check boxes are all checked, indicating "access granted." To enable a category, the supervisor must click the check box to display a ✔.

5. When the Menu Access list is complete, press "Apply" to confirm settings.

The "Operation" frame contains three items:

- Add
- Edit
- Delete.

Clicking "Add" will nullify all the Menu Access fields and display a blank "User Name" field.

To Edit or Delete a user:

1. Select the particular user in the "User" drop-down list box and click the desired "Operation" item.

2. Press the Reset button to reset all fields.

3. Press the Close button to exit the SECURITY - ACCESS window and return to the previous display.

Security Alarm

To view security alarms list:

Click the Security alarm item to display the SECURITY ALARM window:

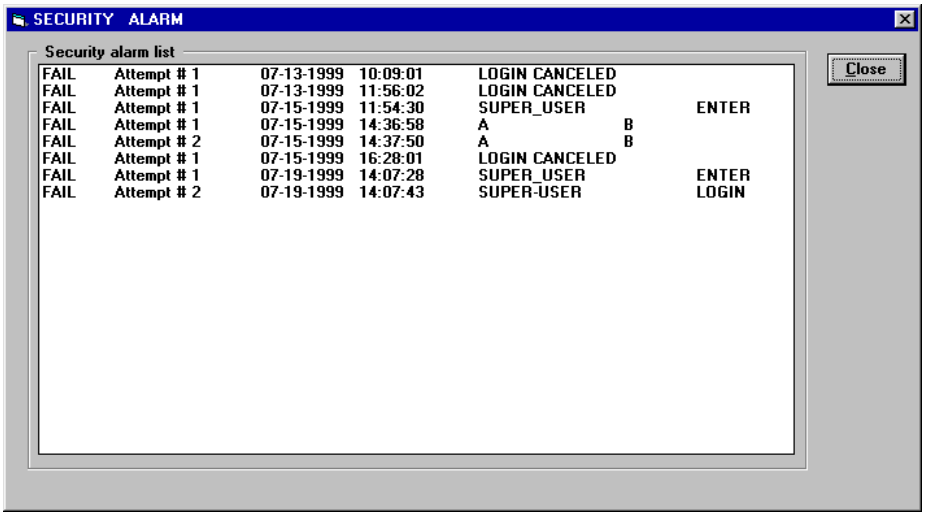


Figure 4-20: SECURITY ALARM Pop-up Window

This window displays a list of failed CraftMap access attempts in terms of Attempt #, Date of Attempt, User Name and Password.

Press the Close button to exit and return to the main screen.

Access Log

To view access log:

Click the Access log item to display:

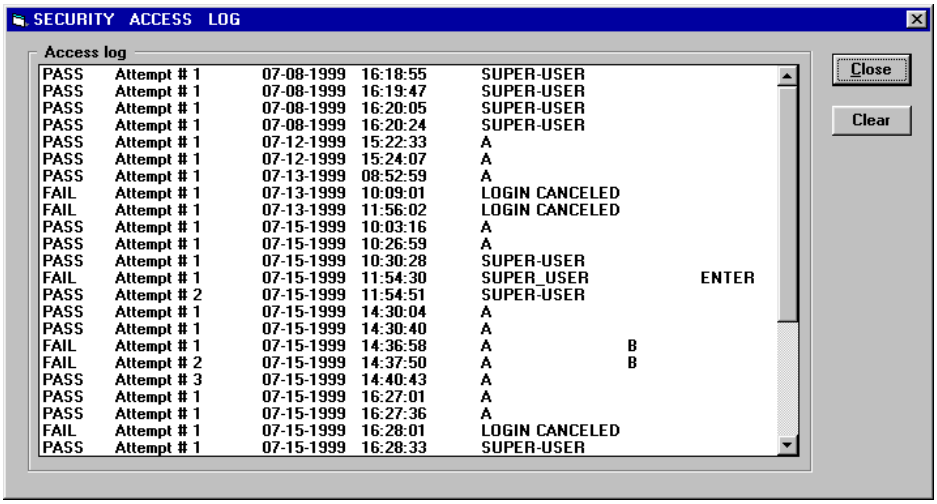


Figure 4-21: SECURITY ACCESS LOG Pop-up Window

This window displays a list of all CraftMap access attempts and categorizes them according to PASS, FAIL and OUT (LogOut).

Browse through the list using the vertical scroll bar on the right of the window.

The window contains two control buttons: Close and Clear.

If you wish to clear the list, press the Clear button to display the clear SECURITY LOG FILE confirmation pop-up window:

Figure 4-22: CMAP-8010 Message Pop-up Window

Press the Yes button if you wish to clear the security log file.

Press the No button if you do not wish to clear the security log file.

Press the Close button to exit and return to the main screen.

Options

General

Click the Options item in the main menu to open the item sub menu:

Figure 4-23: Options Item in the Main Menu

Comm Features

To view/edit comm features:

Click the Comm features menu item to display the Comm Features pop-up window:

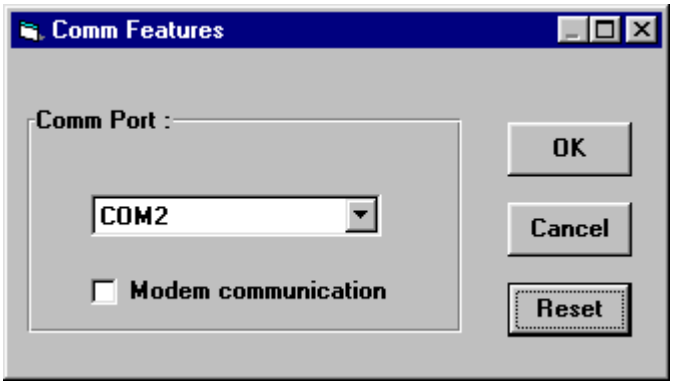


Figure 4-24: Comm Features Pop-up Window I

Select the relevant port from the Comm Port drop-down combination box.

If you require modem communication, check the Modem communication checkbox.

The Check Modem Communication pane opens up and the system checks the modem connection status of your PC:

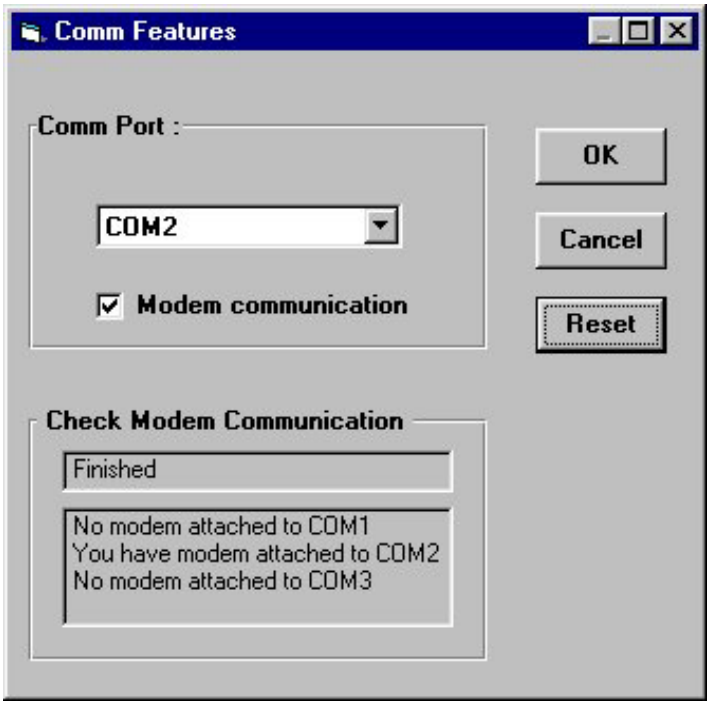


Figure 4-25: Comm Features Pop-up Window II

In Figure 4-25, the system indicates that a modem is attached to COM2, which is confirmed by the Comm Port drop down list box.

Click the OK button to return to the main screen.

NOTE

Selection of the Modem communication option will result in the modem icon:

being displayed in the button bar:

Additionally, a "Modem" box will appear alongside the "Comm" box at the bottom right hand corner of the main screen. The "modem" box color scheme is as follows: black foreground, green background confirms modem connection; black foreground, red background denotes no modem connection.

Press the "Cancel" button to abandon the operation and return to the previous display.

Press the "Reset" button to recall the current comm. port setting.

If modem communication has been selected and confirmed, the Options menu will include two additional modem-related items:

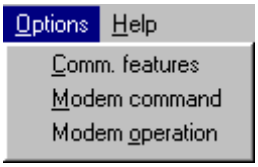


Figure 4-26: Modem Items in the Options Menu

Modem Command

To view modem commands:

Click the Options → Modem commands item to display the Modem Information window:

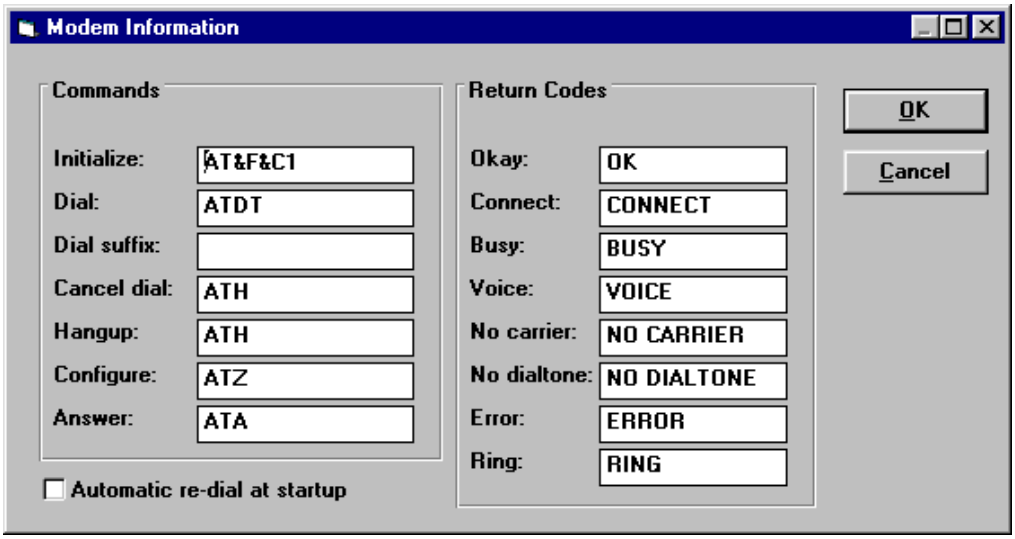


Figure 4-27: Modem Information Window

The user should add a delay time of between 1 and 2.5 secs, dependent upon modem type, after the ATDT command (delay before proceeding with dialing). The delay time will vary from modem to modem. In the case of Motorola modem types, a tilde ("~") should be added for every 0.125 secs delay, whereas in the case of US ROBOTICS, a "/" sign should be added.

Check the Automatic re-dial at startup box if this option is required.

Click OK to return to the main screen.

Modem Operation

To initiate communications via the modem:

Click the Options → Modem operation item to display the Modem operation dialog window:

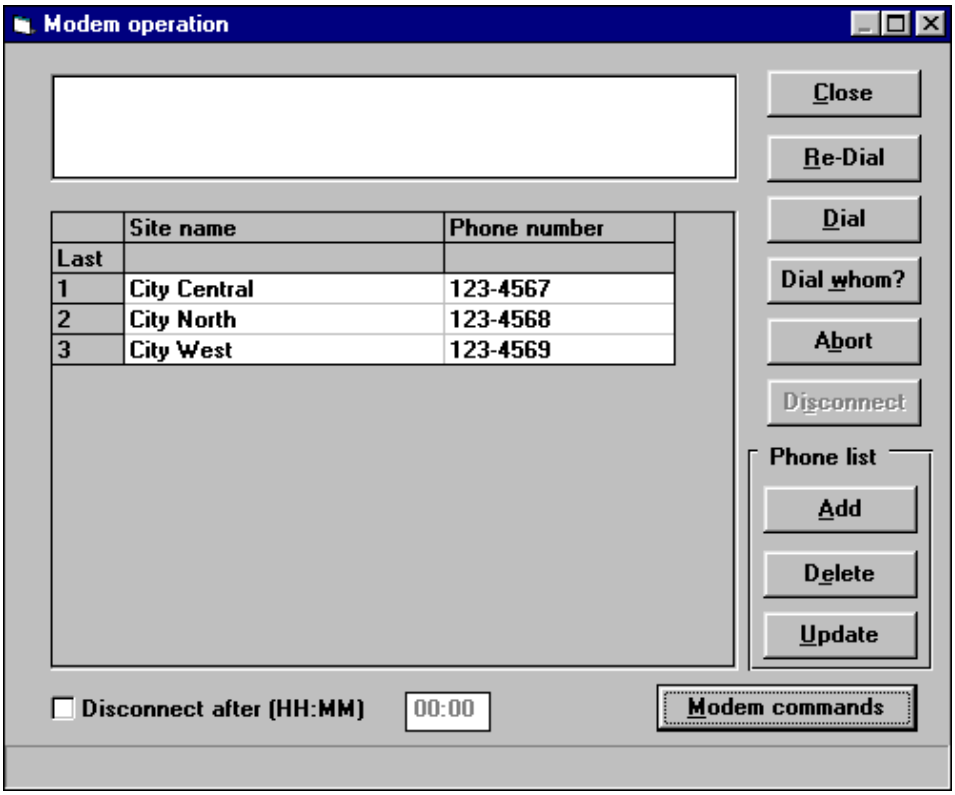


Figure 4-28: Modem operation Window

Phone numbers can be added, deleted and updated, using the appropriate buttons in the Phone list frame. To add a number, click the Add button to open the Address Book dialog window:

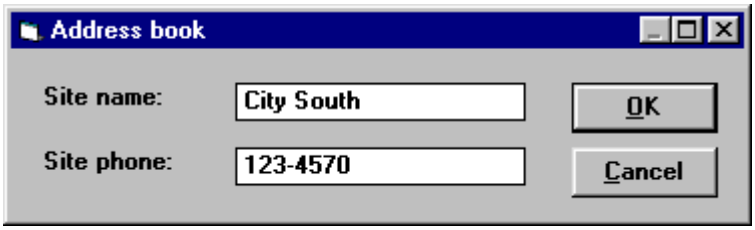


Figure 4-29: Address Book Window

Fill in the site name and phone number and press OK to return to the Modem operation window. The last called number is shown at the top of the list.

To delete or update a site and/or number, highlight the appropriate row in the list and press the Delete or Update buttons accordingly.

To communicate with a given site, highlight the site and hit the Dial button to initiate the call. Once the call is initiated, the Disconnect button is enabled. Hit the Disconnect button to terminate the call.

Hit the Dial whom button to manually dial a number.

If you wish to abort the call, hit the Abort button.

To re-dial a number, hit the Re-dial button.

Check the Disconnect after (HH:MM) box and enter the required time if this option is required.

Press the Modem Commands button to display modem information.

Press the Close button to return to the main screen.

Help

Click the Help → About item in the Main Menu to display summary information about CraftMap and the Network Management Interface:

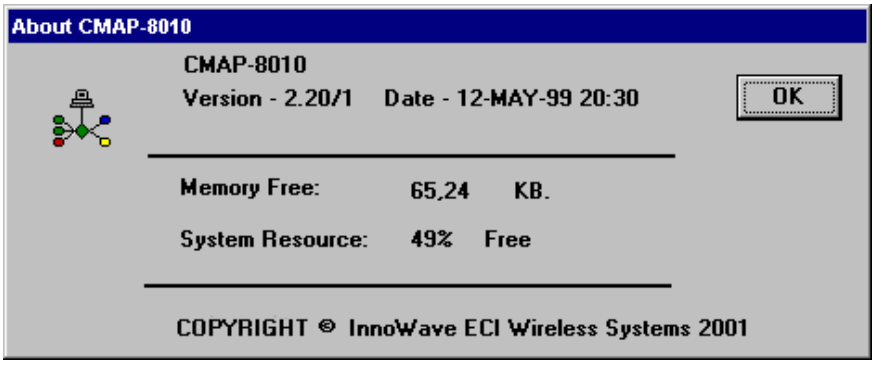


Figure 4-30: About CraftMap Pop-up Window

If the system resources fall below a threshold of 30%, the available system resources are at a critical level and the user is strongly advised to unload unnecessary programs from the system, thereby recovering system resources.

5

Chapter 5 - Alarm Log

In This Chapter

- General, page 5-2
- Screen Description, page 5-3
- Menu > File, page 5-7
- Define Filter, page 5-9
- Queries, page 5-12

General

The CMAP 8010 Alarm Log is a visual record of all events occurring in the Global Synchronization system, such as:

- Changes to the system configuration
- Card definition activity
- Occurrence and rectification of card faults

By default, alarms are listed as they are received by the CMAP control system with time stamp in accordance with the PC's internal clock. The Alarm Log scrolls down as fresh occurrences are added to the alarm list. A new alarm is automatically highlighted irrespective of the user's current preoccupation with earlier alarm occurrences.

The user can intervene in a number of ways to make changes to the order in which the alarms are displayed in the Alarm Log:

1. Automatic display of fresh alarm occurrences can be suspended by activating the **View > Enable updates** menu item (*Menu>View*) or the **View > Define filter** and **View > Queries** menu items (*Define Filter* and *Queries* respectively).
2. The sequencing of the alarms in the Log can be changed with respect to column headings to meet the user's specific requirements using the **View > Define filter** menu item (*Define Filter*).

The Alarm Log time stamp is the actual time that the alarm originates in the system. Alarms can, from time to time, display with varying delay times in the Alarm Log. Thus, an alarm can appear in the Alarm Log, bearing an earlier time stamp than an alarm already appearing in the Alarm Log. The user can amend this anomaly by intervening to list the alarms according to ascending Time Stamp.

Screen Description

Click the  button on the right of the Alarm Log screen header bar to maximize the screen:

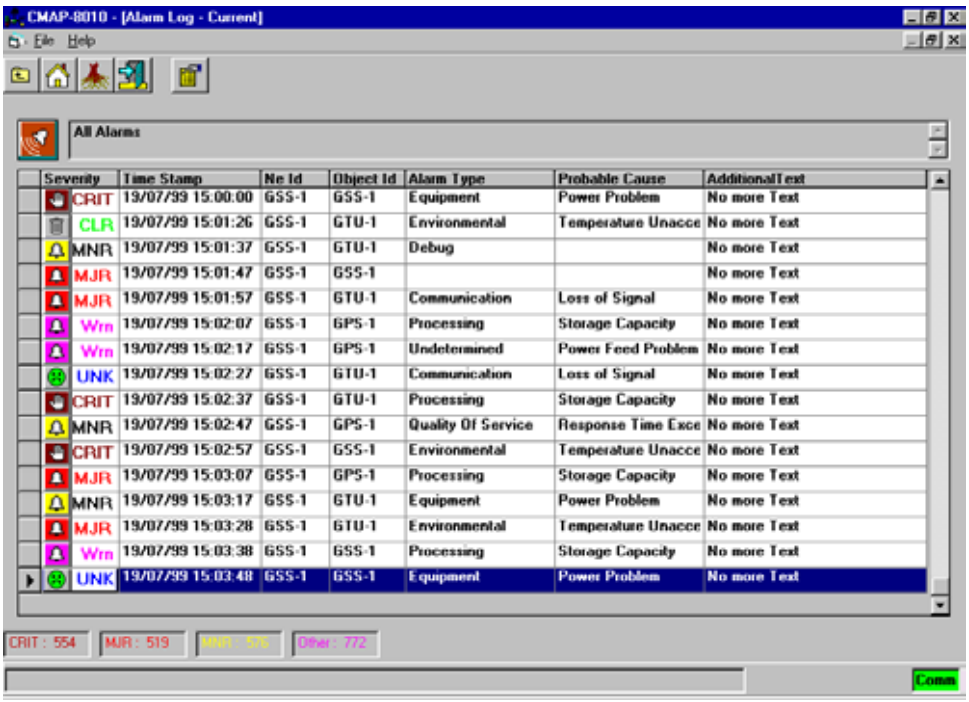


Figure 5-1: Alarm Log

NOTE

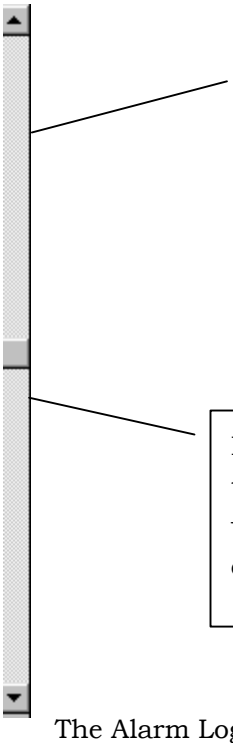
The Menu bar relates to the Alarm Log screen. The Alarm Log screen cannot be closed by the user.

You can vary the width of Alarm Log columns to expose hidden data. This is done by dragging the right hand vertical frame line limit with the cursor in either direction.

When the "Alarm Status" button face shows a swinging bell, a new alarm is indicated:

Click the button to acknowledge and the button face to show a stationary bell on the currently severest alarm background:

Navigate the Alarm Log as follows:



Scroll up or down the Alarm Log by placing the cursor on this slide, and while holding down the left mouse button, move the mouse up or down.

Alternatively….

Place the cursor on the arrow at the top or bottom of the scroll bar and hold down the left mouse button until the required section of the Alarm Log is displayed.

The Alarm Log tabulates alarms in terms of:

1. **Severity**:

Table 5-1: Severity

Alarm	Description
Wrn	Warning
MNR	Minor single fault in the reporting element
MJR	Major fault on board or in the reporting element
CRIT	Critical (fault in the reporting element)
CLR	Problem resolved (applies to problems originally assigned a severity level). The CLR message is automatically given by the system when the problem has been solved either automatically by the system or manually by the operator
UNK	Unknown source of fault

2. **Time**: Time stamp (time and date)
3. **NE ID**: Network Element ID
4. **Object ID**:

Table 5-2: Basic Parameters	
Type	**Object**
Unit	GSS, GTU, GPS

5. **Alarm Type** (examples):

List of possible types of alarm categories –

- Communication
- Quality of Service
- Processing Error
- Equipment
- Environmental
- Undetermined

6. **Probable Cause** (in terms of Alarm Type - examples):

Table 5-3: Alarm Types and Probable Cause	
Alarm Type	**Probable Cause**
Communication	Loss of signal
	Loss of frame
	Framing error
	Degraded signal
	Communication subsystem failure
	Communication protocol error
Environmental	Temperature unacceptable
	Enclosure door open

The probable cause is self explanatory, without requiring further amplification or qualification.

7. **Additional Text**:

Further information on the Probable Alarm Cause.

The Alarm Report Summary is displayed in four adjacent boxes at the base of the table. The display enables the operator to monitor occurrence of new alarms in the system. The information is recorded on the hard disk and can be reviewed and erased by the operator as required.

NOTE

When the modem is in use, an additional **Site** column is displayed, denoting the name of the currently connected site dialed from the modem address book.

Menu > File

Click on the File item in the menu bar to display the File sub menu:

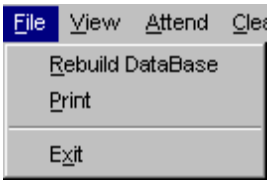


Figure 5-2: File Item in the Menu Bar

Rebuilding Database

"Rebuild Database" is invoked when there is reason to believe that the database has been affected in some way or other. For example, data has been cleared or the database is behaving unevenly, etc.

To rebuild the database:

1. Click the File > Rebuild Database item to display the Rebuild Database pop-up window:

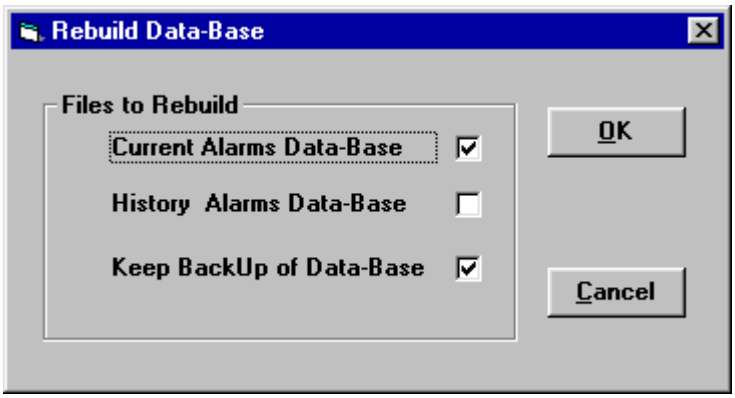


Figure 5-3: Rebuild Database Pop-up Window

2. Select either one or both current and historical databases by checking the appropriate check boxes and press "OK" to implement your request. Check "Keep Backup of Database" to generate database backup.

NOTE

This item should be invoked after a large number of actions have been taken.

Printing Reports

To print a report:

Click the File > Print item to display the Print - Report Options pop-up window:

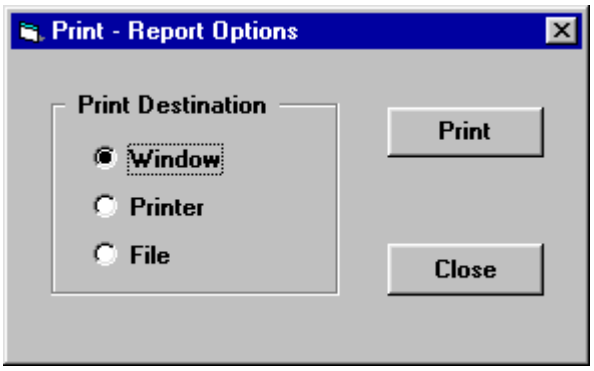


Figure 5-4: Print - Report Options Pop-up Window

WARNING

Before invoking this item, make sure that the Printers option in the Windows Control Panel are configured correctly.

Define Filter

Alarm information can be displayed according to selected conditions and in any given order.

To define a filter:

Proceed by clicking the View > Define filter menu item to display the Select Filter Options pop-up window:

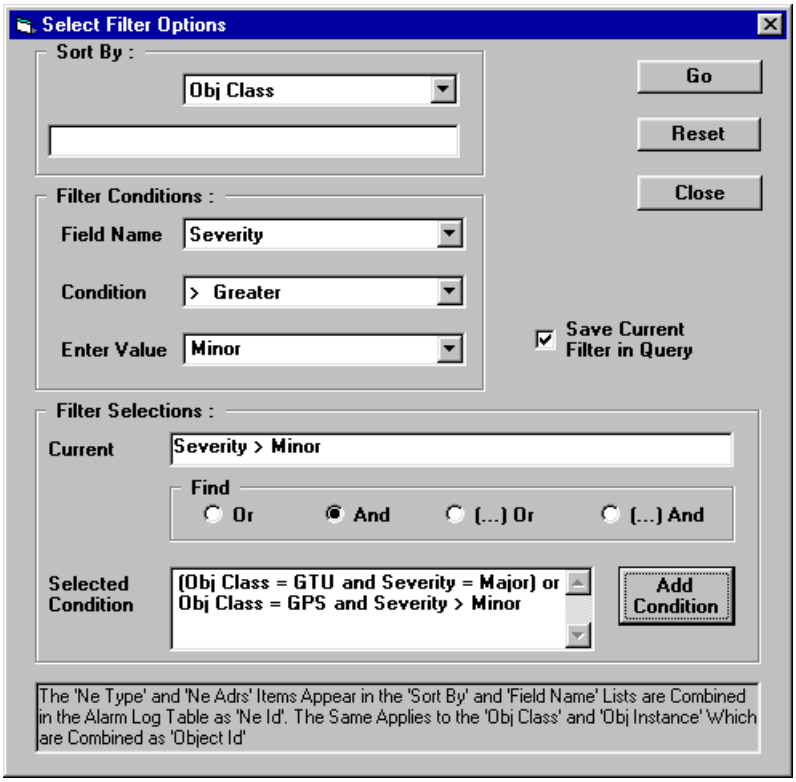


Figure 5-5: Select Filter Options Window

The user can select a parameter to "Sort By" from the corresponding dropdown list box. You can sort by one or more parameters. For example, if you select to sort by Obj Class and Obj Instance, in that order, the "Sort By" frame will display as:

Figure 5-6: Select Filter Options – Sort By Frame.

According to this selection the alarms will be listed primarily by Obj Class and secondarily, by Obj Instance.

Proceed to set an initial condition in the Filter Conditions frame, entering the required values in the Field Name, Condition and Enter Value fields. Click the Add Condition button to enter the condition into the Selected Condition window.

NOTE

Before selecting "Obj Class" under Field Conditions/Field Name, the "Ne Type" should be specified, in order to display the appropriate details.

You can compound the filter conditions by selecting an appropriate Find radio button (Or/And/(...) Or /(...) And), setting a new condition, revising the previously selected condition (see Figure 5-5).

A more complex example is given below:

Set Obj Instance = 3.1 Or Obj Instance = 6.2 (...) And Obj Class = RPCU to obtain the following Selected Condition:

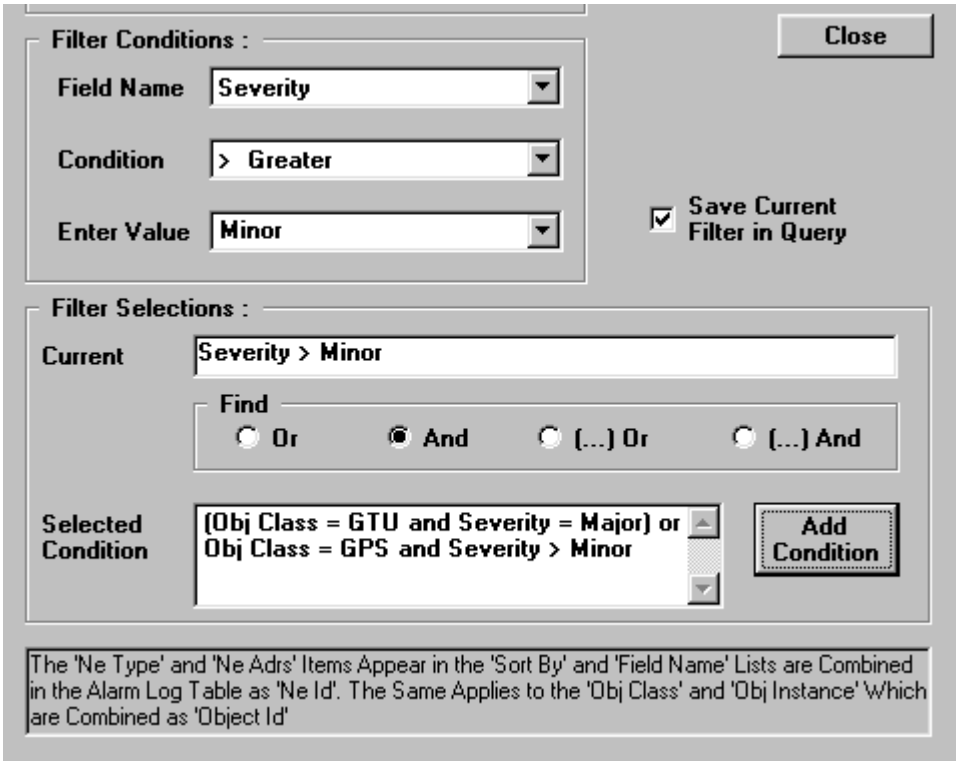


Figure 5-7: Select Filter Options – Filter Selection Frame

NOTE

The (...) Or and (...) And commands show all previous conditions in parentheses.

Click the Go button to display the Alarm Log subject to the selected filter condition/s:

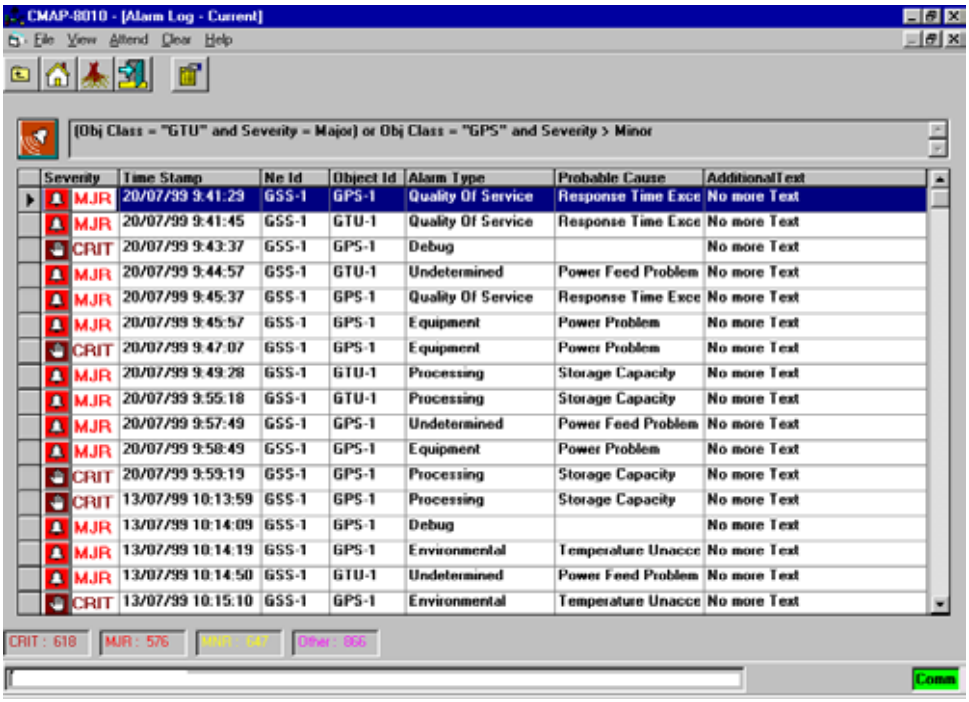


Figure 5-8: Alarm Log (Subject to Filter Conditions)

The selected filter conditions are defined above the alarm log.

If you wish to save the selected filter conditions for further reference, then before clicking the Go button, check the "Save Current Filter in Query" checkbox to display the Enter Filter Name pop-up window:

Figure 5-9: Enter Filter Name Pop-up Window

Enter a name and click the OK button to display the Alarm Log subject to the selected filter condition/s (see Figure 5-8 above).

NOTE

When a filter is in use, the screen will not update automatically. When a new alarm registers, the user should click the oscillating bell to refresh the screen. Only alarms that meet the filter conditions will then display.

Queries

To define queries:

Click the View > Queries menu item to display the Queries To Filter Alarm Log pop-up window:

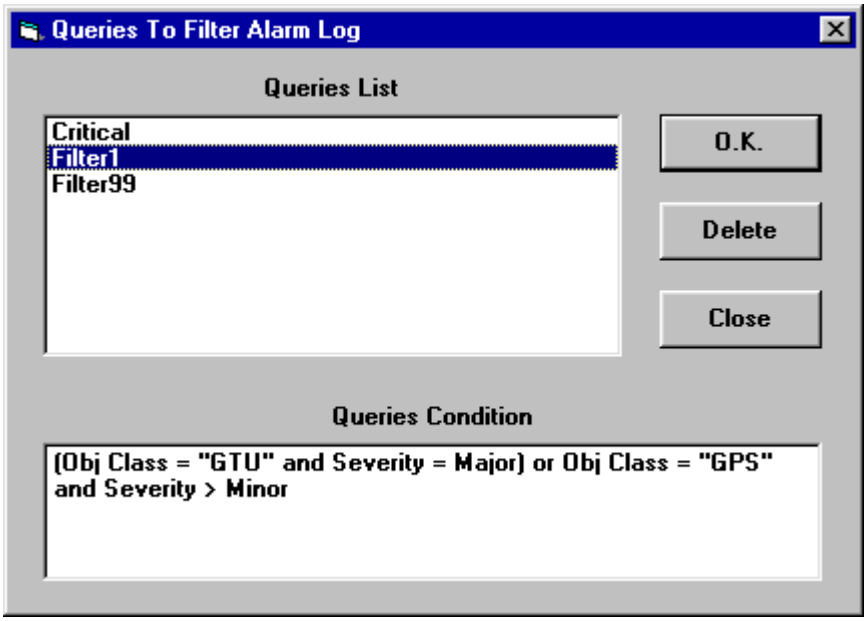


Figure 5-10: Queries Pop-up Window

The Queries List window lists the sets of alarm filter conditions defined by the user. Highlight a given Query and click the Ok button to display the Alarm Log subject to selected filter condition/s (see Figure 5-8 above).

To delete a Query from the Queries List window, highlight the given query and click the Delete button to expedite.

Check the "Window" box in the "Print to panel" frame and press the Print button to display the Alarm Report pop-up window:

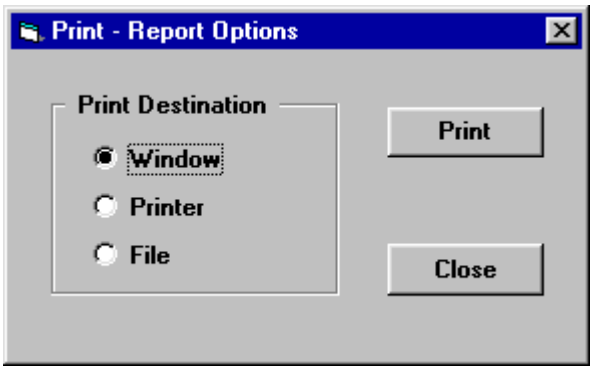


Figure 5-11: Print – Report Options popup window

Button Bars

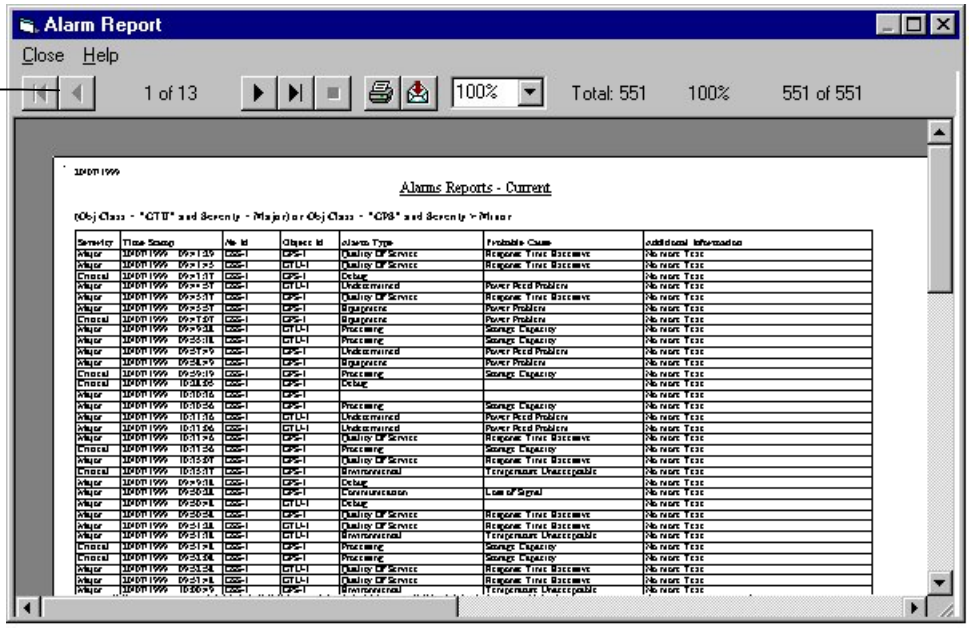


Figure 5-12: Alarm Report Pop-up Window

IMPORTANT

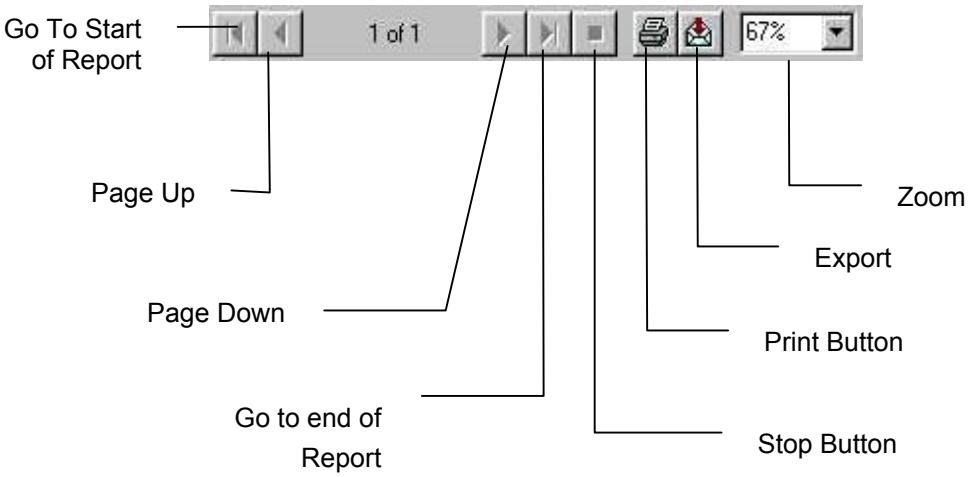
DO NOT CLICK THE CLOSE MENU ITEM UNTIL PAGINATION OF THE REPORT IS COMPLETED (THE "STOP" ICON IS DISABLED).

Alarm Report window management is done using the button bar and vertical and horizontal scroll bars.

NOTE

To terminate the report process and exit the screen, press the "Stop" icon and then click the Close menu item.

The button bar's functions are described below:



Print Button Option

To print an alarm report:

1. Click the Print button in the Alarm Report button bar to display the Print pop-up window:

Figure 5-13: Print Pop-up Window

2. Define the "Print Range," number of "Copies" required and check the "Collate Copies" check box if required.

3. Click OK to start printing.

Export Button Option

To export an alarm report:

1. Click the Export button in the Alarm Report button bar to display the Export pop-up window:

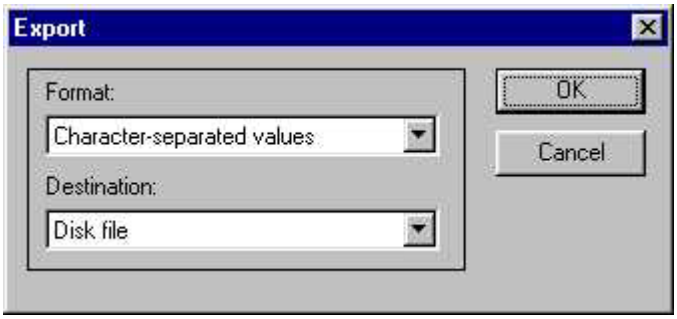


Figure 5-14: Export Pop-up Window (Export)

You can export the report according to your selection from a choice of standard formats listed in the Format drop-down list box:

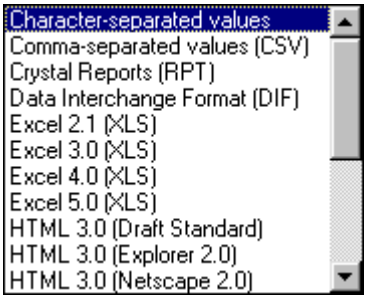


Figure 5-15: Format Drop-Down List Box

Assuming that you select the "Excel 5.0 (XLS)" format, click OK to display the Choose Export File pop-up window:

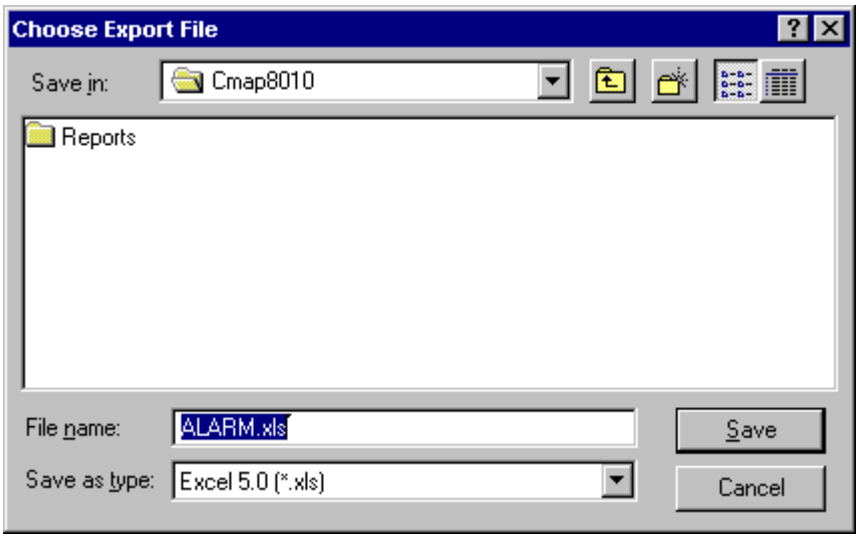


Figure 5-16: Choose Export File Pop-up Window

2. Select a folder using the "Save in" browser drop-down list box and name the file in the "File name" box.

3. Click Save to export the alarm report and return to the Alarm Log screen.

If Internet mail is installed in the PC, the user can select the Microsoft Mail (MAPI) destination option from the Destination dropdown list box:

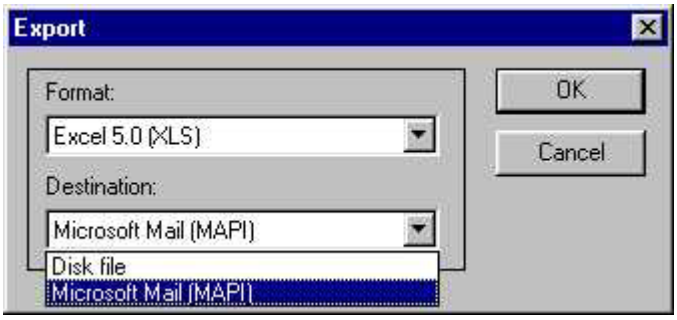


Figure 5-17: Export Pop-up Window (Attach)

4. Select the required format from the "Format" drop-down list box and click OK to display the Character-Separated Values window (for example):

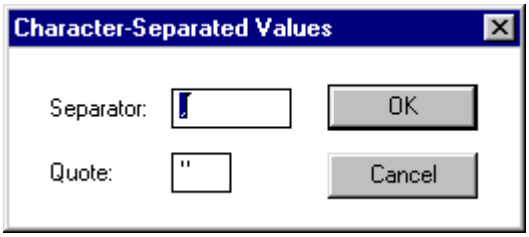


Figure 5-18: Character-Separated Values Window

5. Modify/accept values and click OK to display the Number and Date Format Dialog window:

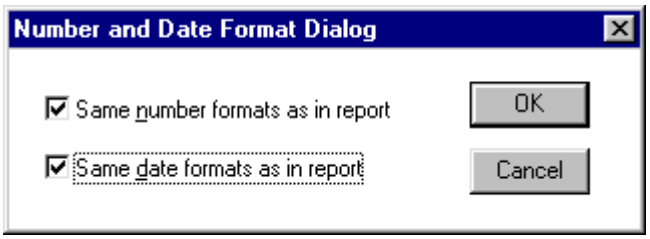


Figure 5-19: Number and Date Format Dialog Window

6. Mark or leave empty the respective check box and click OK to display the Send mail window:

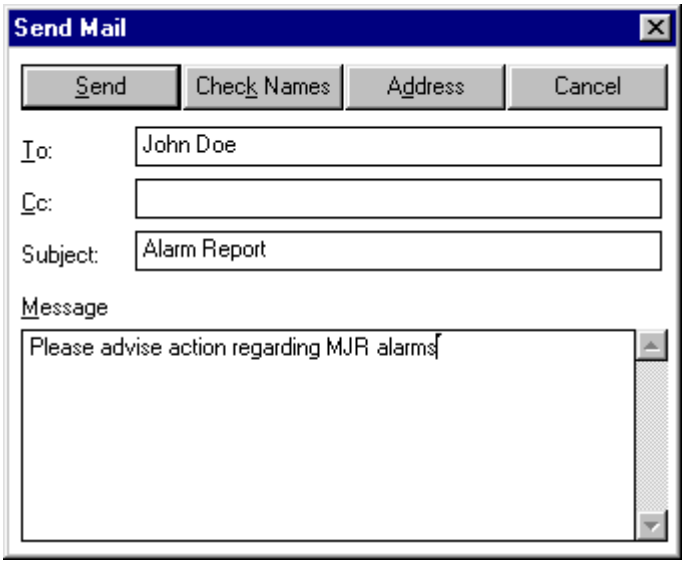


Figure 5-20: Send Mail Window

7. Complete the computerized form and click "Send" to mail attached alarm report to the addressee.

Print Destination - Printer

If you wish to print directly, check the "Print Destination: Printer" radio button and click the Print button to commence printing.

Print Destination – File

To to print to file:

1. Check the "Print Destination: File" radio button and click the Print button to display the Enter The Report File Name window:

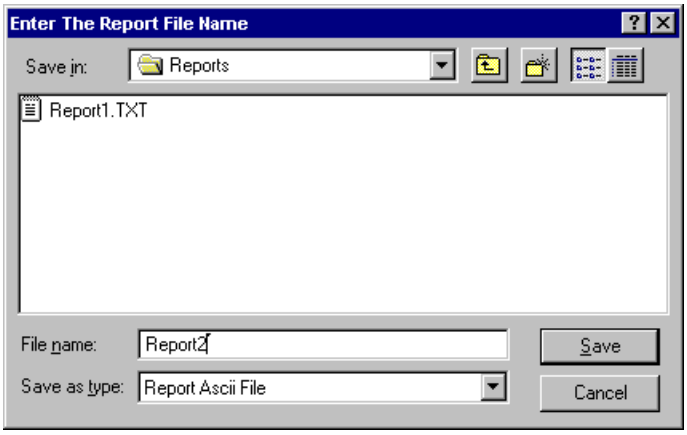


Figure 5-21: Enter The Report File Name Window

2. Chose a folder to "Save in," enter a "File name" and click the Save button to create the file.

NOTE

When printing directly to "File", ASCII format is the only available format under "Save as type:". If another format is required, use the "Print Destination – Window" option from the Print – Report Options pop-up window..

3. Use the vertical and horizontal scroll bars to scroll through the report.

4. Press the Print button in the Alarm Report button bar to display the Print (control) pop-up window:

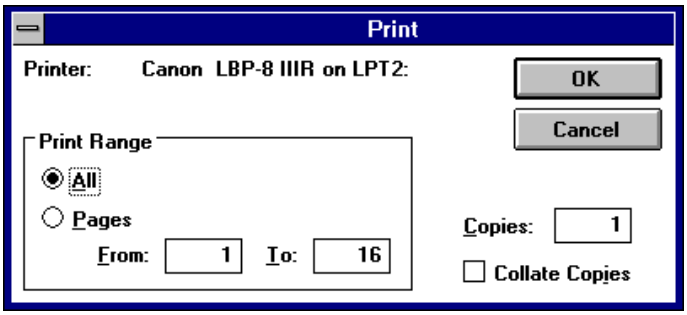


Figure 5-22: Print Pop-up Window

5. Select the options required and press OK to start printing.

If you wish to bypass the "Print to: Window" option in the Print - Report Options pop-up window, then check the "Print to: Printer" option and press the Print button to commence printing. The Printing pop-up window will display accordingly:

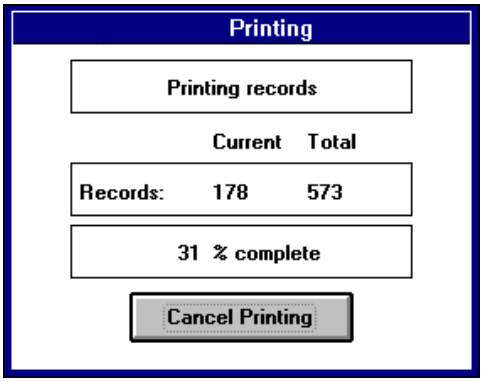


Figure 5-23: Printing Pop-up Window

6. Check the "Print to: Printer" option to display the "Enter the Report File Name" dialog window. Enter the required file name and press OK to complete. Press Cancel to cancel the operation.

7. Press the File > Exit item to exit CraftMap and return to Windows.

Menu > View

Click the View item in the menu bar to display the sub menu:

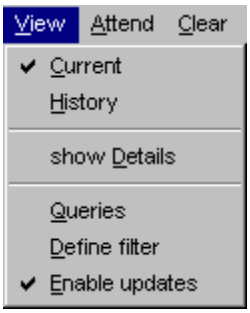


Figure 5-24: View Item in the Menu Bar

The View item enables you to review the two databases generated by the CraftMap: Current and History (historical) databases. When the CraftMap is initiated, the Current database is displayed as default.

If you select View > History, the Alarm Log - History database is displayed and the Attend menu item and Enable updates sub menu item are disabled.

Click Sort by creation time to sort the database by creation date and time.

If you wish to review the Current alarm log status, click the View > Current item.

Menu > Attend

The Attend item in the menu bar enables the user to save selected/all Current database events in the History database.

To save a selected event:

Click on the event in the Alarm log and then click the Attend item in the menu bar to display the sub menu:

Figure 5-25: Attend Item in the Menu Bar

Click the Selected sub menu item to display the CMAP confirmation message:

Figure 5-26: CMAP-8010 Message

Click "OK" to confirm your selection.

NOTE

You can select one or more events in sequence by dragging the cursor from the first event to the last event in the selected sequence. Alternatively, click the first event that you wish to select and then press and hold down the Shift button while you click the last event in the sequence.

Press the All sub menu item to save all events in the Alarm log.

Menu > Clear

Click the Clear item in the menu bar to display the sub menu:

Figure 5-27: Clear Item in the Menu Bar

The Clear item enables the user to delete Selected/All alarm events.

Select events as described above (0) and click the Selected sub menu item to display the CMAP confirmation message prompt:

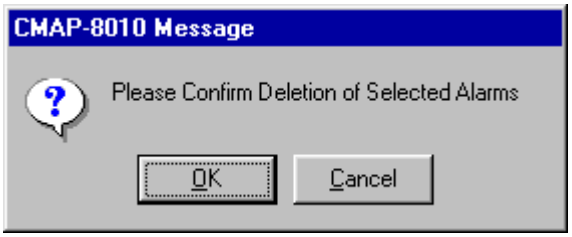


Figure 5-28: CMAP-8010 Message

Click "OK" to complete the action.

Click the All sub menu item to delete all events.

Menu > Help

- See Chapter 4.

A

Appendix A - Cable Connectors

In this Appendix

■ List of Cables, on page A-2

List of Cables

Table A-1: List of Cables		
Cable#	**Path**	**Catalog#**
1	CMAP 8010 to Modem	
2	Modem to GTU	
3	CMAP 8010 to GTU	

Pin Connections

All connectors are D type.

Cable #1

Table A-2: Cable #1	
PC	**Modem**
25 pin (female)	25 pin (male)
Full pin-to-pin connection	

Cable #2

Table A-3: Cable #2		
Modem		**GTU**
25 pin (male)		9 pin (male)
2	←→	3
3	←→	2
7	←→	5
8	←→	4

Cable #3

Table A-4: Cable #3				
	PC		GTU	
9 pin (female)		25 pin (female)		9 pin (male)
2	←→	2	←→	3
3	←→	3	←→	2
5	←→	7	←→	5

B

Appendix B - Modem Installation

In this Appendix

- Initialization of Modem Connected to the GTU, on page B-2
- Initialization of Modem Connected to the PC, on page B-3
- Modem Versus Initial Command (Examples), on page B-4

Initialization of Modem Connected to the GTU

To initialize a modem connected to the GTU:

1. No X-ON/X-OFF
2. No CTS/RTS
3. Ignore DTR
4. "AUTO ANSWER MODE" mandatory
5. Both modems, one connected to the GTU, the other connected to the PC, must be defined as either CCITT or BELL mode.
6. CARRIER On
7. These characteristics must be saved in the modem's non-volatile memory.
8. ASCII Return Code.

Initialization of Modem Connected to the PC

To initialize a modem connected to the PC:

1. No X-ON/X-OFF
2. No CTS/RTS
3. "DIAL MODE" mandatory
4. Both modems, one connected to the GTU, the other connected to the PC, must be defined as either CCITT or BELL mode.
5. CARRIER On
6. This configuration should be entered under the "COMM-FEATURES" option
7. ASCII Return Code.

Modem Versus Initial Command (Examples)

For modem connection to PC:

Table B-1: Modem vs. Initial Command With Modem Connection to PC

Modem	Initial Command
Motorola 8396 (1200 bps)	&F&E0&C1&D2%H1%S3%R2*L
RAD DLM-AT (dial)	X4
Hayes V-series ultra: SmartModem 9600	&F&D0&C1&K0&R1X4
Hayes SmartModem 2400	&F&D0L0&R1X4S0=1V1
Microcom QX V.32c	&F&D0%C0\V0X4
Multitech Multimodem V32L	&F&E0X4
Motorola 8396 (9600 bps)	&F &C1&E0&D2&K0V0U0*L%T1

For modem connection to the GTU:

Connect the modem to terminal (or terminal-emulator on PC), then:

Table B-2: Modem vs. Initial Command With Modem Connection to GTU

Modem	Initial Command
Motorola 8396 (1200 bps)	AT&F&E0&C1%H1%S3%R2*L&W0<CR>
Hayes V-series ultra:- SmartModem 9600	AT&F&D0&C1&K0&R1X4S0=&W0<CR>
Microcom QX V.32c	AT&F%B1200&D0%C0\V0&W0<CR>
Multitech Multimodem V32L	AT&D0&E0&W0<CR>
Hayes SmartModem 2400	AT&F&D0L0&R1X4S0=1V1<CR>
Motorola 8396 (9600 bps)	AT&F&C1&E0&D2&K0V0U0*L%T1&W0<CR>

NOTE

<CR> - carriage return

Glossary

CO	Central Office
FAU	Fixed Access Unit
GPS	Global Positioning Unit
GSS	Global Synchronization Unit
GTU	Global Timing Unit
OOS	Out of Service
RPCU	Radio Port Control Unit
RPI	Radio Port Interface
RPU	Radio Port Unit
SU	Subscriber Unit