DiaLog Elite

Remote Access via PC

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Introduction

This document describes how to retrieve the current status of remote DiaLog Elite alarm notification systems from a PC. Conceptually, the PC dials into the Elite, the Elite answers and establishes modem communication, the user tells the Elite that a status report is desired and the Elite transmits the status report to the PC.

To connect from your PC to the remote DiaLog Elite alarm notification systems, you will use the HyperTerminal utility within Windows 95/98/NT.

The first section of this document will show you how to configure HyperTerminal for use. The second section will show how to use HyperTerminal and the remote capabilities of the DiaLog Elite.

Configuring HyperTerminal

The HyperTerminal utility allows you to communicate from your PC to a remote device through the modem that is attached to your PC.

You will only perform this section once for each remote DiaLog Elite that you will be accessing.

To run the HyperTerminal utility, select the HyperTerminal option from the Start – Programs – Accessories – Communication pop-up menus as shown below.
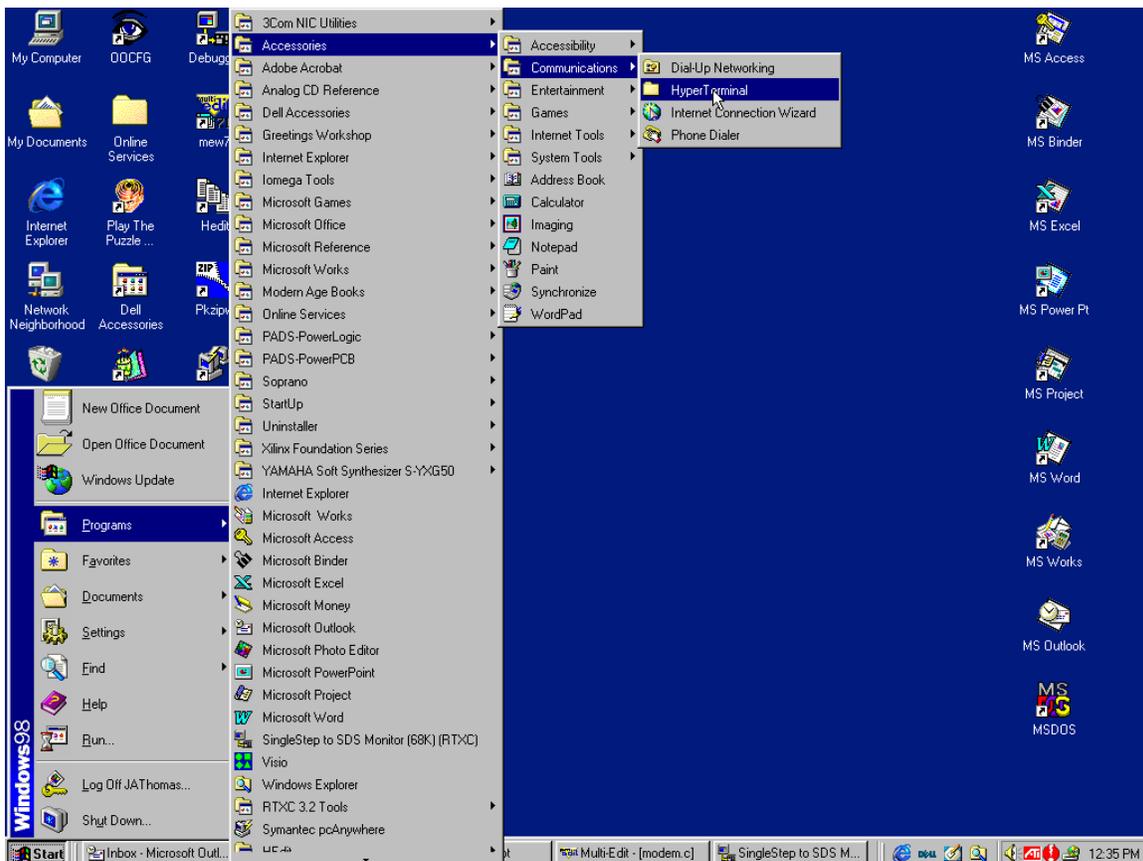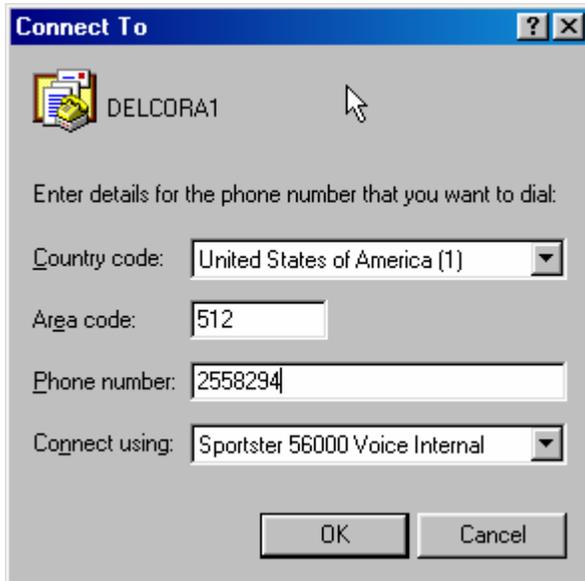
When you select this option, the following window showing various HyperTerminal icons will be displayed. Double-click the Hypertrm.exe icon to create a new connection.
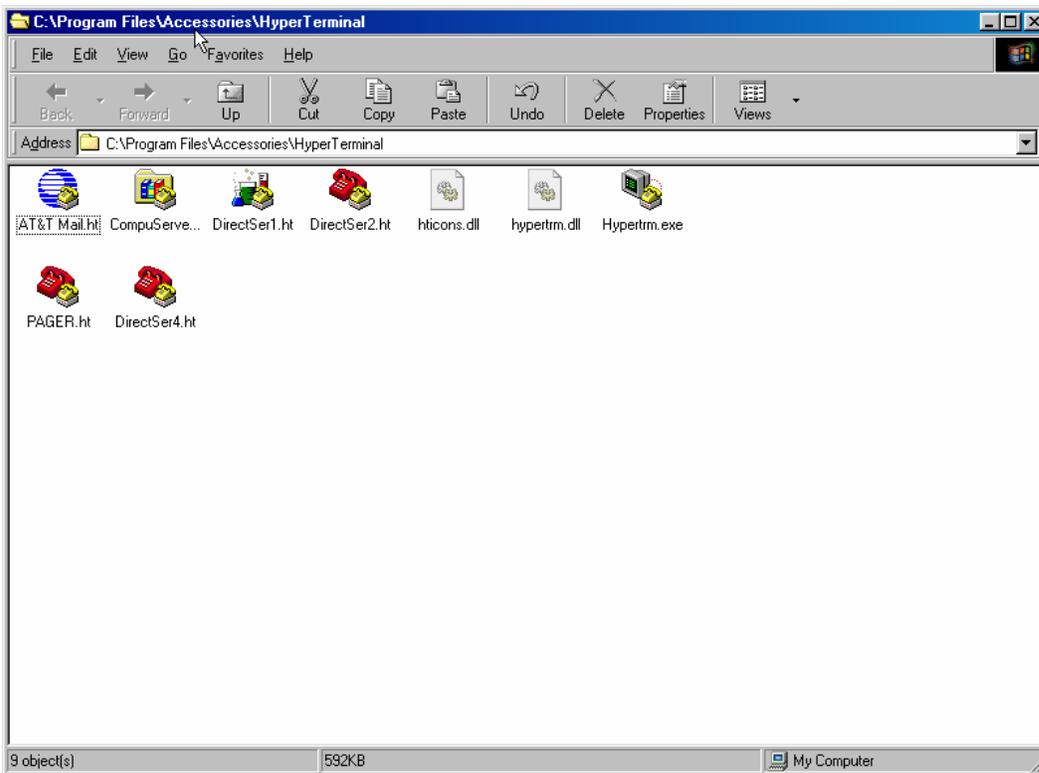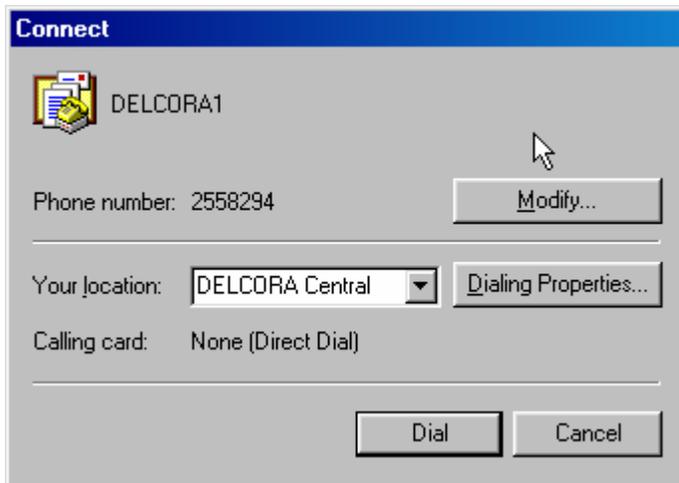

The HyperTerminal utility will execute showing the following screen. Enter a unique name for each of the remote sites that you are going to be connecting to. In this example, we have entered DELCORA1. Press the OK button when finished.
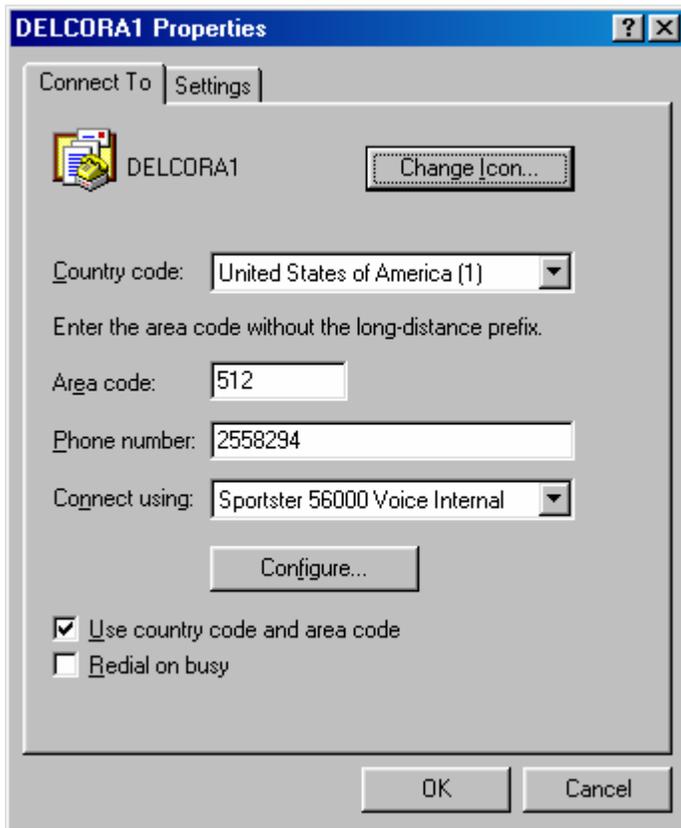
For each site, you can either create a unique HyperTerminal connection or you can define one connection and enter the phone number that is required to reach each remote site. Enter the area code only if it is required to make the call. The option shown in the 'Connect using:' box should show the modem that is either internal or external to the PC you are using. Press OK when finished.

Connect To

DELCORA1

Enter details for the phone number that you want to dial:

Country code: United States of America (1)

Area code: 512

Phone number: 2558294

Connect using: Sportster 56000 Voice Internal
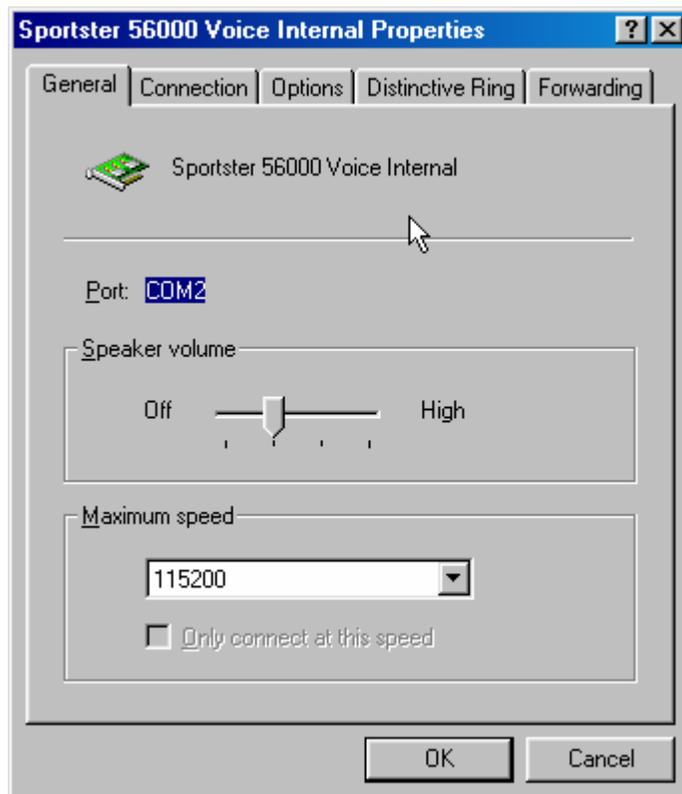
[OK]   [Cancel]

The following screen is displayed allowing you to connect to the remote unit or modify your dialing parameters. Press the Modify button to make required adjustments.

Connect

DELCORA1

Phone number: 2558294   Modify...

Your location: DELCORA Central   Dialing Properties...

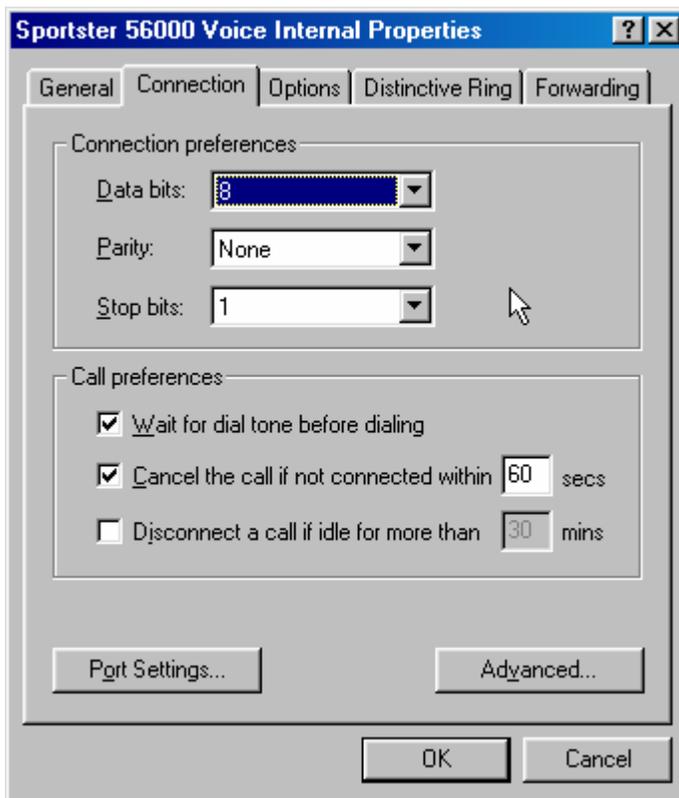Calling card: None (Direct Dial)

[Dial]   [Cancel]

The following screen is displayed.

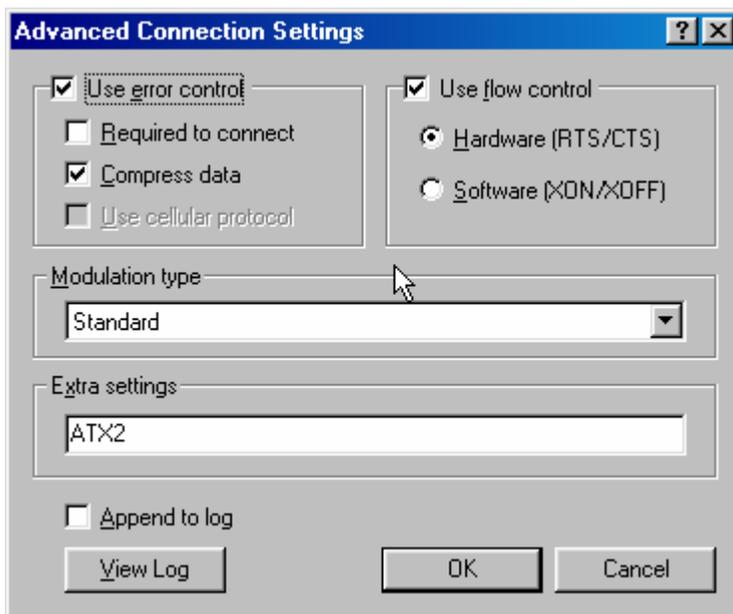
Now press the Configure button. The following screen is displayed.

Select the Connection tab to get the following screen.

Sportster 56000 Voice Internal Properties

General | Connection | Options | Distinctive Ring | Forwarding

Connection preferences
- Data bits: 8
- Parity: None
- Stop bits: 1

Call preferences
- ☑ Wait for dial tone before dialing
- ☑ Cancel the call if not connected within 60 secs
- ☐ Disconnect a call if idle for more than 30 mins

Port Settings...   Advanced...

OK   Cancel

Select the Advanced… button to get the following screen.

Advanced Connection Settings

☑ Use error control
- ☐ Required to connect
- ☑ Compress data
- ☐ Use cellular protocol

☑ Use flow control
- ◉ Hardware (RTS/CTS)
- ○ Software (XON/XOFF)

Modulation type
Standard

Extra settings
ATX2

☐ Append to log

View Log   OK   Cancel

Add the ATX2 command string to the Extra settings dialog box. This setting prevents the modem from interpreting the answering voice from the Dialog Elite as a BUSY signal. Click OK when done with the Advanced Connection Settings window. Click OK on the Properties window.

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Select the Settings tab from the following screen.
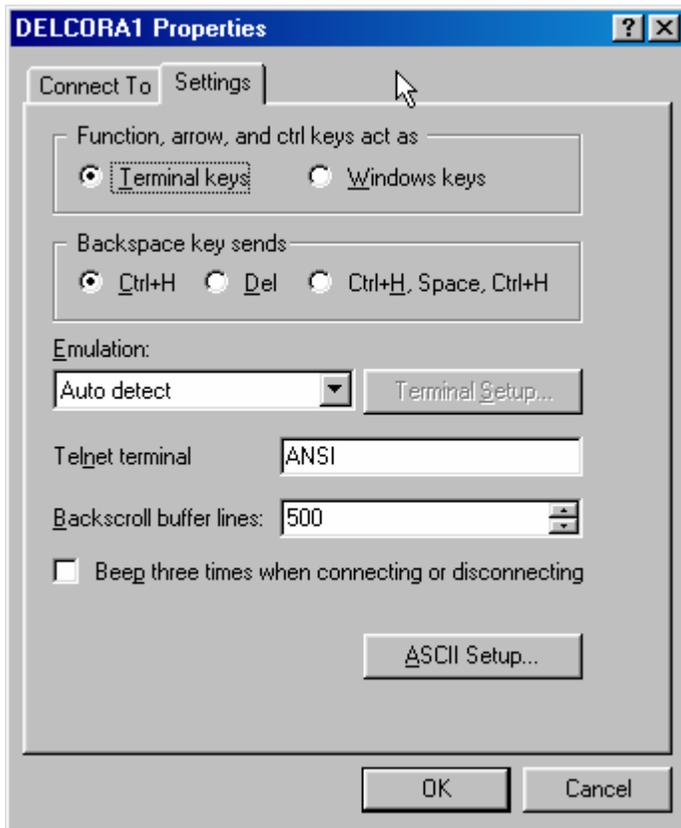
Click the ASCII Setup… The following screen should be displayed.
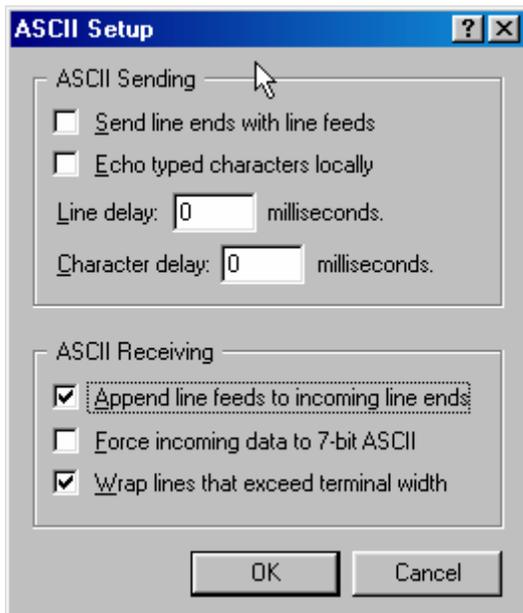
Check the "Append line feeds to incoming line ends" box and press the OK button. Press the OK button on the Properties window. The configuration changes are now complete and you are ready to dial out to the remote site.
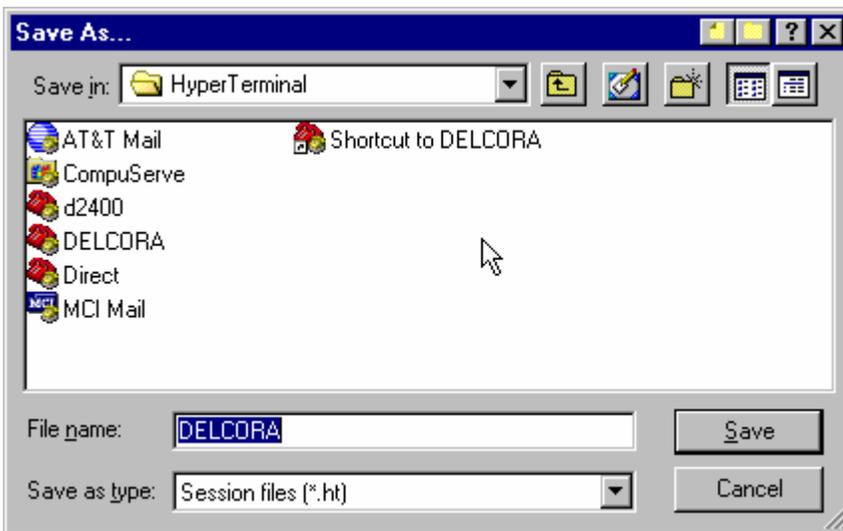
The following screen is displayed. At this point you do not want to connect since we are just setting HyperTerminal up to work. Press the Cancel button.
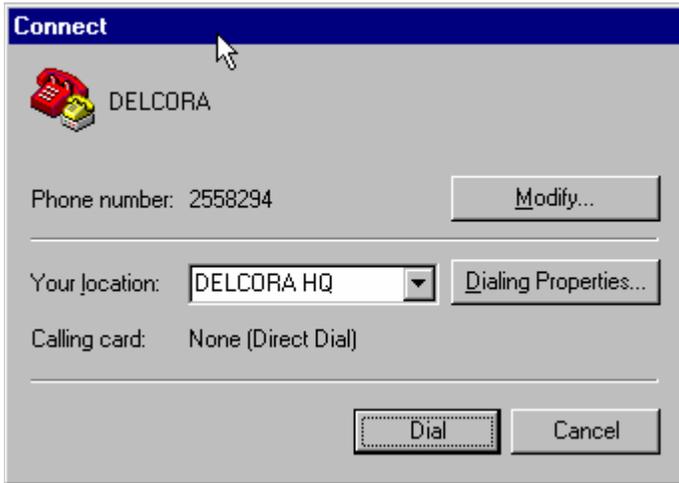
 For each of your remote sites, we recommend that you save the configuration and create a shortcut on your desktop.

To save the configuration, select the File – Save As option from the top menu bar. The following screen is displayed.

Enter a name for each remote site. An icon will be created in the HyperTerminal directory for each remote site.

To create a short cut, display the HyperTerminal directory and right click on the remote site that you want to put onto your desktop. The following screen is displayed.
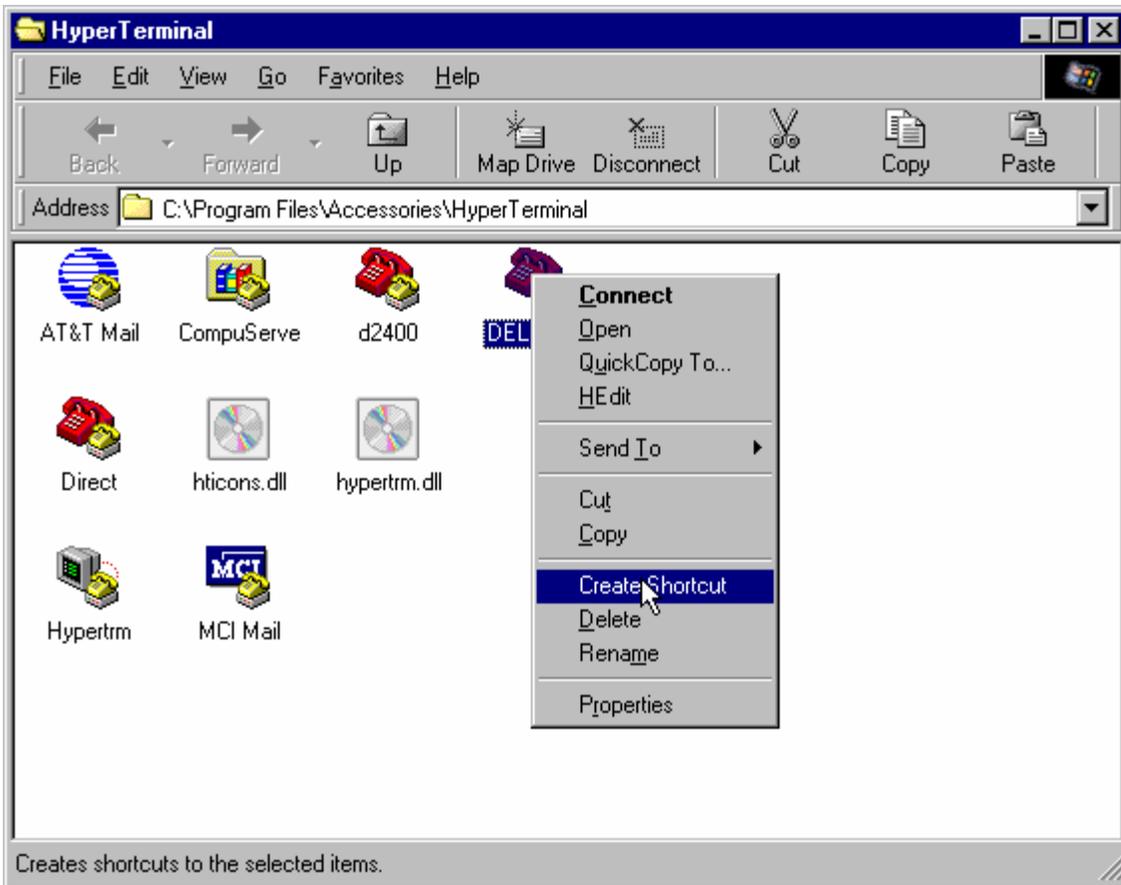
Press Create Shortcut, which will put the shortcut into the HyperTerminal directory. You can then drag the shortcut to your desktop.
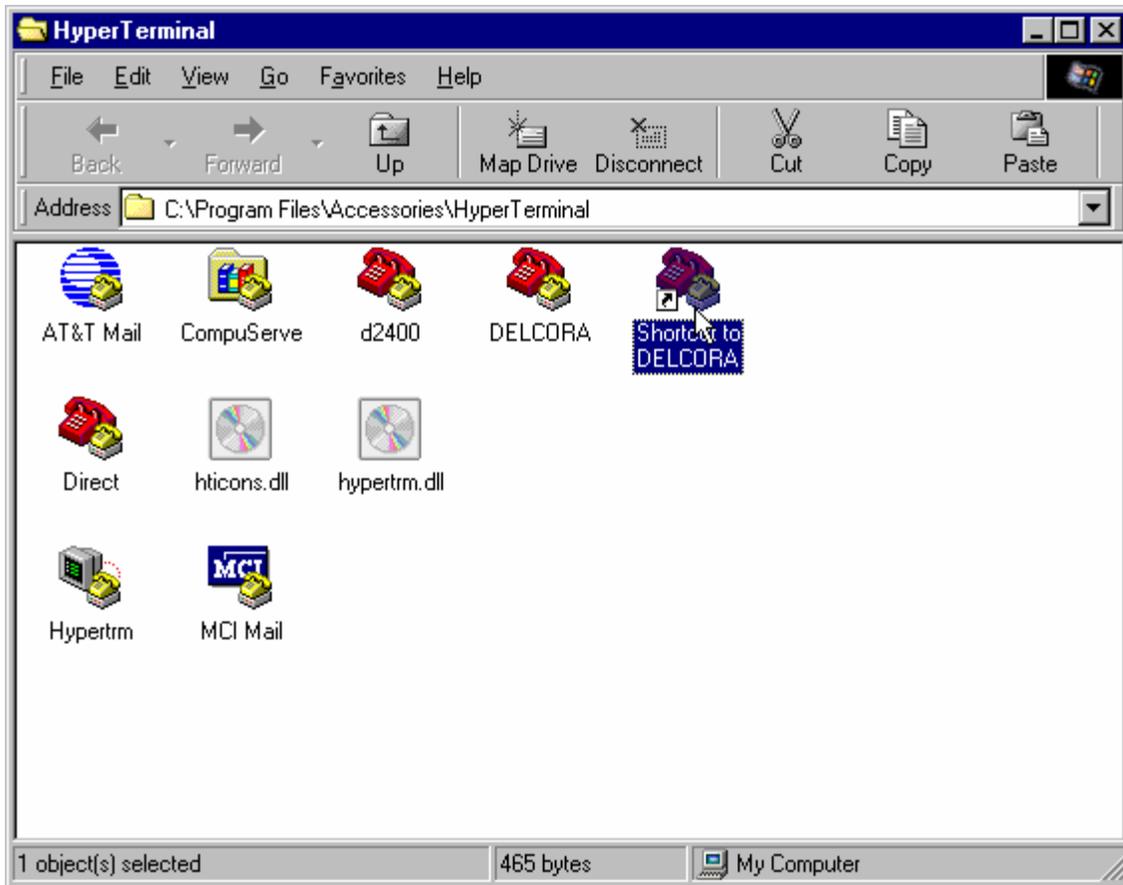
Repeat this process for each of the remote DiaLog Elite units that you want to access from the PC.

Connecting to the DiaLog Elite

This section assumes that you have created shortcuts to each of the remote DiaLog Elite units as described in the previous section.

Double-click on the shortcut for the remote site that you are going to be accessing. The following status screen is displayed indicating that a connection is being established.

You are now ready to connect to the Dialog Elite. Press the Dial button to begin the dialing sequence.
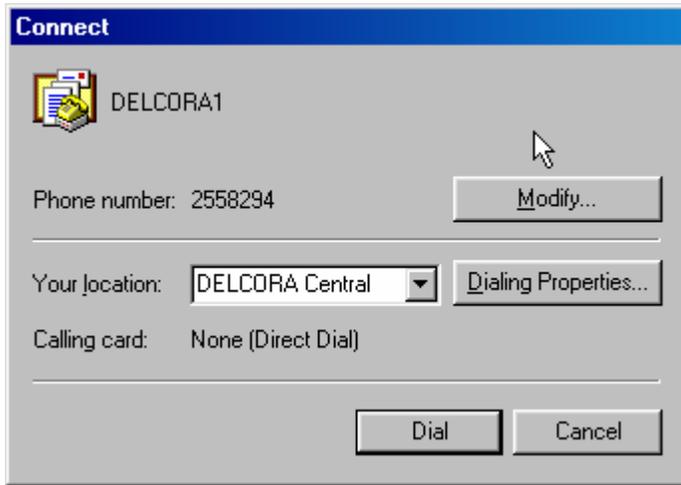
The following screen is displayed showing the progress of the dial-out to the DiaLog Elite.
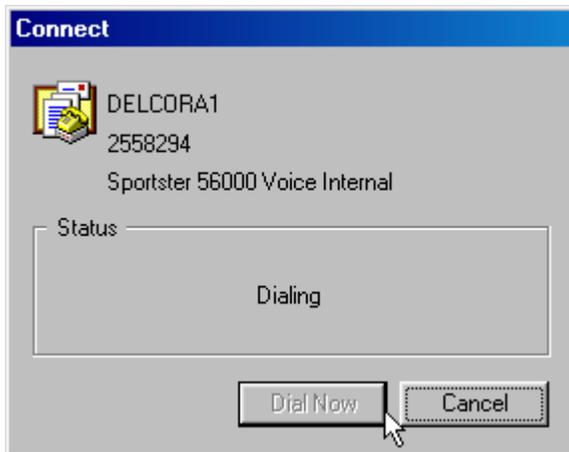
When a connection is made to the Dialog Elite, the 'Connect' screen (above) will disappear. You then have 5 seconds to enter the '!' key followed by the '+' key. If these keys are not received within the 5 second window, the dialer will hang up. If they are successfully received, the following text menu will appear on the HyperTerminal screen.

```
Remote Elite - HyperTerminal
File  Edit  View  Call  Transfer  Help

Dialog Elite
Version: 1.4.2
Date    : 05/05/01

1) Single Status Report
2) Continuous Status Report
3) Activate Relays
4) Dump Event Log

Cmd => _

Connected 0:05:33    VT100    38400 8-N-1    SCROLL  CAPS  NUM  Capture  Print echo
```
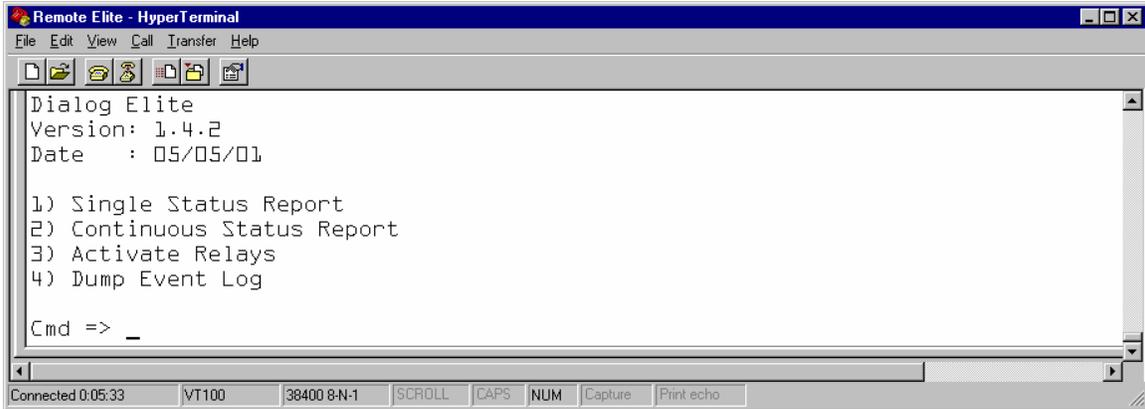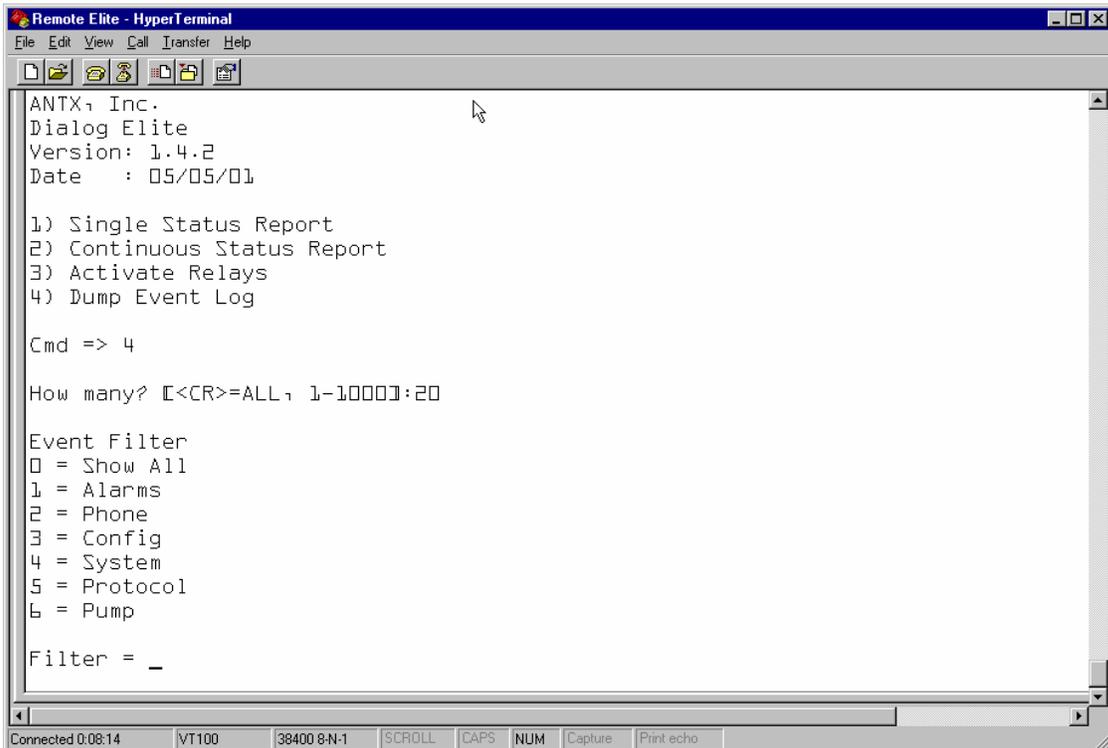
The
1) prints a single status report from the dialer. This status report contains alarm status information as well as the current value of each channel in the dialer.
2) will print the same status report continuously at 1 minute intervals. Any key will terminate this periodic print of the status report.
3) allows the user remote control over the states of any relay output channels in the dialer. To end a session with the remote dialer, press the ESC key on your keyboard. If HyperTerminal is closed before ending the session with the dialer, the dialer may remain off hook for as long as 10 minutes before hanging up its line.
4) prints the last 'n' entries of the event log. Additionally, you can filter the entries for a particular type of event that you are interested in.

```
Remote Elite - HyperTerminal
File  Edit  View  Call  Transfer  Help

ANTX, Inc.
Dialog Elite
Version: 1.4.2
Date    : 05/05/01

1) Single Status Report
2) Continuous Status Report
3) Activate Relays
4) Dump Event Log

Cmd => 4

How many? [<CR>=ALL, 1-1000]:20

Event Filter
0 = Show All
1 = Alarms
2 = Phone
3 = Config
4 = System
5 = Protocol
6 = Pump

Filter = _

Connected 0:08:14    VT100    38400 8-N-1    SCROLL  CAPS  NUM  Capture  Print echo
```

The following text was captured during a sample session with a remote site. Bold underlined text are notes about the report format.

```
Antx, Inc.  Dialog Elite
Version: 2.4.0  08/18/04

00) Show System Config
01) Show Chan Config
02) Show System State
03) Show Chan Data
04) Show Event Log
05) Data Log Option
06) Preset Counters
07) Status Reports
08) Activate Relays
09) Pump Cycles
10) Site Setup

Cmd => 1
```

```
03/16/01 14:26          ◄─────────────────    Current date and time

CENTRAL DELAWARE 25     ◄─────────────        Station alphanumeric ID and numeric ID

** STATUS Report **

SO1 Primary Supply                      15.3 volts
SO2 Battery Supply                      13.3 volts
SO3 Phone                               0.0
SO4 Temperature                         37.4 degC
SO5 Aux Supply                          24.1 volts


D11 HIGH WET WELL                       Op
D12 LOW LEVEL                           Op
D13 PARCO OIL                           Op
D14 BAR SCREEN 1                        Op


D21 SERVICE MAIN A                      Op
D22 SERVICE MAIN B                      Op
D23 BALL VALVE 3                        Op
D24 BALL VALVE 2                        Op
D25 BALL VALVE 1                        Op
D26 BAR SCREEN 1                        Op
D27 MAIN BREAKER TRIPED                 Cl
D28 STATION BYPASS                      Op


D31 VARIABLE SPEED 3                    Op
D32 VARIABLE SPEED 2                    Op
D33 VARIABLE SPEED 1                    Op
D34 FIRE ALARM              Dis
D35 2 PUMP IN SERVICE                   Op
D36 3 PUMP IN SERVICE                   Op
D37 PENDING BYPASS                      Op
D38 MECHANICAL ELEC AL                  Cl


R41 DOOR ENTRY              Dis
R42 CHAN 42                 Dis
R43 CHAN 43                 Dis
R44 CHAN 44                 Dis


A51 STATION EFFLUENT              Lo   8316.0 gals/min
A52 WET WELL LEVEL                Lo   -49.0 inches
A53 CHAN 53                 Dis
A54 CHAN 54                 Dis
A55 CHAN 55                 Dis
A56 CHAN 56                 Dis
A57 CHAN 57                 Dis
A58 CHAN 58                 Dis
```
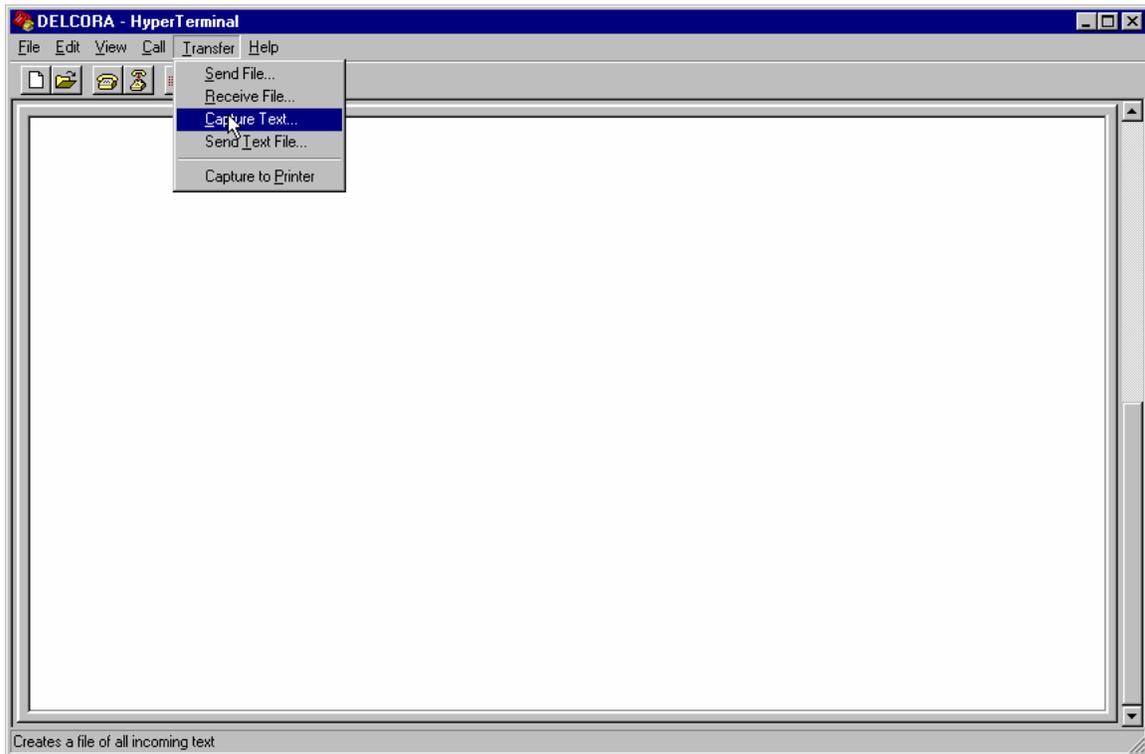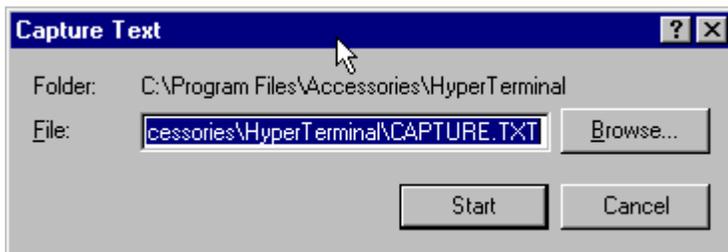
NOTE: Both STATION EFFLUENT and WET WELL LEVEL are in Low alarm.

To capture the status report that is being displayed, you can turn on the Capture Text feature within HyperTerminal. Select the following option as shown.

When you select the Capture Text option, the following screen is displayed.

You can enter a filename to save the text that is captured. Press the Start button when you are ready to start you capture.

When you have completed capturing the text you want, you can either Disconnect from the DiaLog Elite, exit the HyperTerminal session or turn off the Capture Text option.

▪ To Disconnect, select Disconnect under the Call menu selection

▪ To Exit, select Exit under the File menu selection.

▪ To Turn off Capture Text, select Stop under the Tools – Capture Text menu selection.