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Log #: AN-0144

Interfacing Ascom telePROTECT[®] 900 with Freeset DCT1900

Overview

The RS232/TAP interface enables the Freeset DCT1900 system to receive alphanumeric messages addressed to its users by wireless number. The TAP (Telocator Alphanumeric Protocol) version 1.8 is used.

The Ascom telePROTECT is connected directly to both a computer and the Freeset DCT1900 system. PCPRO software must be loaded on the PC to run the telePROTECT application. Paging messages received from the Ascom telePROTECT are monitored by PCPRO and delivered to the wireless telephone.

Technical Discussion

Text (paging) messages are sent to the Freeset DCT1900 system from the server or workstation via a serial (RS232) connection.

The maximum size of the text message delivered to the wireless phone is 100 characters.

Solution

This section gives a brief description of recommended settings and configurations of the components involved in this application.

Physical Connection

Connect the cable (T940SICC) from the Ascom telePROTECT printer/serial interface to a communication port on the computer. Connect the cable (T940SICC) from the Ascom telePROTECT alarm interface directly to the Freeset DCT1900 printer/SMS port. The port settings of the adjoining messaging equipment are 9600, 7, Even, 1 and No Flow Control. Use the Freeset CSM to enable the printer port as a TAP interface.

Note: The T940SICC cable comes with a 25-pin D-SUB contact. For connection with a computer and the Freeset DCT1900, it is necessary to add an adapter for 25-pin to 9-pin.

Ascom telePROTECT Configuration

Some modifications must be done to the Alarm interface before it will deliver messages to the DCT1900. Remove the cover from the Alarm interface and locate Terminal Strip **J4**. Remove the blue wire from J4 and place a jumper wire between pins 2 and 6.

May 21, 2001

Log #: AN-0144

For further details, please refer to the Ascom telePROTECT Printer Timer Interface/ Serial Interface and Alarm Interface. Pages 1-3. Also refer to the PCPPRO software guide for software configuration instructions.

Ascom DCT1900 Configuration

The Ascom Freeset DCT1900 must meet minimum requirements to support SMS.

Minimum Requirements

- | | | |
|----|-------------------|-----|
| 1. | CPU Firmware | R4A |
| 2. | Base Station code | R3A |
| 3. | DT600 Code | R2A |
| 4. | DT620 Code | R2A |
| 5. | CSM/CSS | R4A |

In addition, the TAP I/F of the DCT1900 must be modified. Using CSM, select Distributor-System-Parameters-Customize-TAP I/F. <CR> after "ID=", <LF> after "ID=", and Suppress extended responses must be active. See Figures 1 and 2 for example.

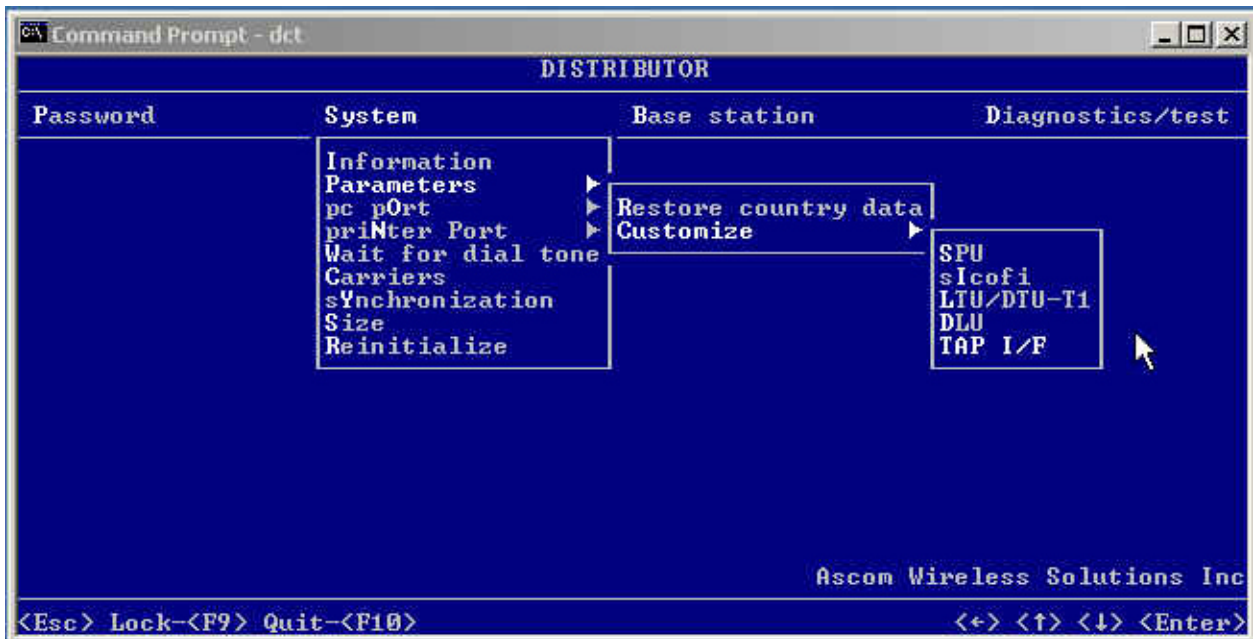


Figure 1

May 21, 2001

Log #: AN-0144

```
Command Prompt - dct
TAP INTERFACE

Configuration      Options
-----
<CR> after "ID="   [X] [Yes/No]
<LF> after "ID="   [X] [Yes/No]
Suppress version at login [X] [Yes/No]
Suppress extended responses [X] [Yes/No]
Ignore CTS         [ ] [Yes/No]

The DCT1900 system supports the TAP protocol v1.8 to
implement Short Message Service (SMS). Some applications
may require one or more of the configuration options
above for correct operation. The standard configuration
has all options set to "No".

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<Esc> Next-<F5> Lock-<F9> Quit-<F10>      <←> <→> <↑> <↓> <Enter>
```

Figure 2

Handset Configuration

AutoDelete - ON (Default OFF)
Set Reminder - 1 Minute (Default OFF)

Additional Information

For further details, please refer to the Freeset Technical Product Manual of Ascom or contact the Technical Department at 1-877-712-7266.