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Log #: AN-0137

## Interfacing Zettler Nurse Call with Freeset DCT1900

### Overview

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

The Zettler Nurse Call system is directly connected to the DCT1900 Freeset system. Paging messages received from the Zettler system are delivered to the wireless telephone.

Model verified is the Sentinel 2.7/139

### Technical Discussion

Text (Paging) messages are sent to the DCT1900 Freeset System from the Zettler system 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 Zettler Nurse Call messaging equipment to the DB9 printer port of the Radio Exchange cabinet using a null cable that is provided by Ascom. See PC Cable Pin-out in TPM in section 5, page 26-5. The Zettler system will need to be set up for the TAP 1.8 protocol. 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.

#### ***Zettler Configuration***

Using the Zettler software application, enter a Pager ID (Freeset Portable Telephone Number) into the system before sending a message from the Zettler Nurse Call.

For further details, please refer to the configuration and installation manual of the Zettler.

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## ***Ascom DCT1900 Configuration***

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

### **Minimum Requirements**

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|----|-------------------|-----|
| 1. | CPU Firmware      | R4A |
| 2. | Base Station code | R3A |
| 3. | Darla code        | R2A |
| 4. | Dixie code        | R2A |
| 5. | CSM/CSS           | R4A |

### **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.