

March 15, 2002

Log #: AN-0250

Interfacing Executone HCP Nurse Call System 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 Executone HCP Nurse Call System is directly connected to the DCT1900 Freeset system for pocket paging. Paging messages received from the Executone HCP system are delivered to the wireless telephone.

MicroLogic NetPage is required with Executone HCP if you have both a pocket paging system and the Freeset connected to the NCS (given that HCP has only one paging port). The NetPage interface eliminates this limitation. Contact Mark Grossman at MLS (262-251-9045) to determine the exact NetPage configuration and to obtain ordering information. You may also refer to Ascom Application Note AN-0145 MicroLogic.

Technical Discussion

Text (Paging) messages are sent to the Freeset DCT1900 system from the Executone HCP 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 Executone HCP Nurse Call System 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 Executone HCP system will need to be set up for the TAP 1.8 protocol. The Port settings of the adjoining messaging equipment are 2400, 7, Even, 1 and No Flow Control. Use the Freeset CSM to enable the printer port as a TAP interface.

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Executone HCP Configuration

In order to integrate the INFOSTAR/HCP with the DCT1900, you will need the following:

<u>Equipment</u>	<u>Part Number</u>
HCP firmware Release 2.1.9	21009-10
Wireless Phone Activation Software	109000-10
12-Port Single Line Port Card(s)	15540
DTMF Receiver Module	15560-1
Tri-Output Power Supply	550005
DB25M – DB9F RS-232 shielded cable	Fabricate Locally

Note: See Executone Integration Note Number HCP-IN10, Issue B, dated November 15, 2001 for detailed integration information including RS-232 cable pin-out instructions.

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

Ascom DCT1900 Configuration

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

Minimum Requirements

1. CPU Firmware R4A
2. Base Station code R3A
3. DT620 code R3C
4. CSM/CSS R4A

The older Ericsson DT600 handset does NOT support full advanced NCS functionality; however, we do have a MLS NetPage configuration that enables one button dial back to the patient station. This requires DT600 handset software R2A.

Handset Configuration

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

Additional Information

For additional support refer to the Freetest Technical Product Manual of Ascom or contact the Technical Services Department at 1-877-712-7266.