TECHNICAL NOTE

12-lead ECG and Vital Trend Transmission

Transmitting 12-lead ECG and Vital Trends from ZOLL® defibrillators to a hospital via fax or e-mail requires RescueNet™ Code Review software, Enterprise Edition. The Enterprise Edition has the client software to transmit patient data from the defibrillator to a Bluetooth®-enabled mobile computing device. Cell phone technology transmits the 12-lead ECG and Vital Trends via the Patient Information Server on to the hospital fax machine or e-mail.

12-lead ECG and Vital Trends Data Flow

1

12-lead ECG & Vital Trends captured in M Series™ defibrillator and transmitted to a mobile computing device using Bluetooth technology.

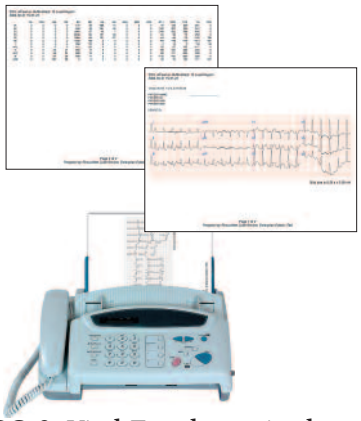
2

Cellular technology transmits captured 12-lead ECG and Vital Trends to Patient Information Server.

3

Patient Information Server forwards all 12-lead ECG & Vital Trends to your local hospital via fax or email.

4



12-lead ECG & Vital Trends received at your local hospital.

TECHNICAL NOTE

12-lead ECG and Vital Trend Transmission

Patient Information Server Workstation		
Computer	Pentium 2 or higher 256MB RAM 50 MB free hard disk space	
Operating system	Microsoft Windows 2000 or XP Professional (see Notes below)	
Connectivity	**Internet:** Static IP firewall port forwarding to server Single configurable port on server SMTP server (for optional email capability)	**Circuit-switched dialup:** Remote Access Service (RAS) infrastructure One or more phone lines Routable server when connected to RAS server
Software	Patient Information Server Symantec Winfax Pro 10.0 or later Leadtools ePrint 3.0 or later (for optional email capability)	
Hardware (for optional fax capability)	Internal or external fax modem Dedicated analog phone line	

Real Time Device -One or both of the following-		
Windows based computer	**Hardware:** Pentium 2 or higher 256 MB RAM 50 MB free hard disk space Serial (RS-232) port or Bluetooth PC adapter **Software:** ZOLL Real Time for PC	**Operating System:** Microsoft Windows 2000 or XP Professional **Connectivity:** Routable TCP/IP connectivity with the server (GPRS, CDMA, EDGE, Dialup)
Pocket PC/Phone combo	**Hardware:** Bluetooth enabled **Software:** ZOLL InterLink Real Time for Pocket PC	**Operating System:** Microsoft Windows Mobile 2003 or higher **Connectivity:** Routable TCP/IP connectivity with the server (GPRS, CDMA, EDGE, Dialup)

Tested Components			
Pocket PC phone/ Service provider	HP iPAQ HW6515 (Cingular)	Audiovox XV6600 (Verizon) Audiovox PPC6601 (Sprint)	Siemens SX66 (Cingular)
Bluetooth PC adapters	TDK model BRBLU04- PCMCIA; D-Link model DBT-120- USB		
Cellular internet adapters	Any adapter that supports Windows connection management–including PCMCIA, compact flash and SD form factors. Please contact ZOLL Data Support for verification.		
Bluetooth stack	WIDCOMM/BroadCOM. Please contact ZOLL Data Support for verification of alternate stacks.		
Serial (RS 232) cable	Serial (RS-232) cable, available from ZOLL, P/N 8000-0605-01		

Notes:

1. ZOLL recommends the Patient Information Server machine be dedicated solely to the task of 12 Lead ECG and Vital Trend transmission.

2. ZOLL does not require a server class machine for the 12 Lead ECG and Vital Trend Transmission system.

3. Windows 2000 Server, 2003 Server, and Terminal Services are NOT supported.

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