



**Hardware Requirements
WBAR 5 Utility Billing**

Windows Environments Equipment Specs

<i>Minimum Requirements</i>	<i>Recommended</i>	<i>Optimal</i>
486 DX 66	400Mhz or faster Pentium III or IV AMD K6-3 or Athlon	633Mhz or faster Pentium III or IV AMD K6-3 or Athlon
64 Meg RAM 9600 Baud Fax/Modem Fax/Modem	64 Meg RAM 33.6 Fax/Modem	128 Meg RAM or more 56K Error Correcting
Windows 98r2	Windows 2000 or XP	Windows NT (for Servers)
*Programs resource library requires 45 Meg of free disk space storage		
50 Meg Free Disk Space	1.00+ GIG IDE or EIDE	20+ GIG IDE or EIDE or SCSI drive
2 COM Ports or 1 COM & Bus Mouse Card	2 COM Ports	2 COM Ports
1 Parallel Port LPT1	1 Enhanced Parallel LPT1 or USB	1 Enhanced Parallel LPT1 or USB
Logitech or Microsoft Mouse Mouse	Logitech or Microsoft Mouse	Logitech or Microsoft
3.5" 1.44 diskette drive	3.5" 1.44 diskette drive	3.5" 1.44 diskette drive
Single speed CD-ROM*	CD-ROM 20x or better*	CD-ROM 32 x, DVD, or R/W

* All software is installed from CD-ROM unless specified at time of order

Optional Equipment List

The following list of optional devices and features are not required for WBAR but may come bundled with various hardware packages. Windows 95/98 uses some of these for applications within the operating system itself.

Soundblaster Sound Card or Altec WAVE Card
CD-ROM Drive
MMX Processor
ZIP Drive, Jazz Drive or Tape Backup System
Graphic 3D accelerator video card

Compatible Printer Drivers

Windows 98SE, Windows 2000, Windows XP and Windows NT all utilize definable printer drivers. This means that most printers can be attached and selected through the use of printer profiles set up within Windows. WBAR uses this printer information to print reports and bills. WBAR has been tested and found to work with the majority of Windows compatible printers available. However, some older printers that are not compatible with newer versions of Windows may not be supported. Check with your printer manufacturer to determine if your printer is among the list of printers supported by your version of Windows.

Dot Matrix Printers

132 column width (15 7/8" paper can be used for some reports)
200 Characters per second or better (300 is ideal)
Bi-directional printing (print head prints both forward and backward across paper)
Printer must have a 24 pin print head
Printer must support Page Length and Top of Form functions
Printer pitch can be set either manually or by software to settings of 10,12,15 and/or 17.5 characters per inch printing
For printing on card stock billing forms, a push/pull paper advance is strongly recommended

Laser Printers

HP compatible 300 DPI or better
PCL supported
8.5 in. x 11 in. high capacity cut sheet bin
Parallel or USB connection

* If the laser printer is a shared network resource, a buffered print server or dedicated computer print server connection is strongly recommended.

Other printer considerations:

Cost and availability of replacement ribbons or toner
Manufacturers warranty period
Estimated life of print head (Usually quoted in millions of characters)
Service locations
Ease of maintenance, loading, ribbon replacement, etc.

Network Environment (Version 5)

WBAR Version 5 runs well under Windows 98SE, 2000, XP peer to peer networking and the Novell and Windows NT network operating systems. WBAR networking requires a shared folder and mapped drive on the designated server. The program library files, data, and support folders are installed to the server. Users may print to any local or shared printer they have access to. Workstations require a local hard drive and a single non-shared installation folder. Workstations installation requires only a few network control files to establish a link to the mapped drive and path to the shared data.

Using Windows 98SE, 2000 or XP a simple peer to peer networking environment can be created between two or more machines provided that one is large enough to provide file server storage and printer resources. WBAR was designed to allow up to 50 simultaneous workstations. Version 5 permits automatic multiple file and record locking for editing and retrieval in a network environment. Network performance can be adjusted somewhat with the software, but overall response times are more a function of the server speed and network architecture being used. Tri C recommends 10/100 NIC cards and CAT 5 cables be used in most workgroup situations.

* Network processing is inherently more complicated than single user processing. It should therefore be understood that additional training may be required for some operators to learn the full capabilities of using WBAR in a network environment.