

AnzioWin Anzio Lite

Telnet Programs for Windows
Version 12.0



 Rasmussen Software

10240 SW Nimbus Ave., Suite L9

Portland Oregon 97223

voice: (503) 624-0360

fax: 503-624-0760

e-mail: rsi@anzio.com

<http://www.anzio.com>

<ftp://ftp.anzio.com>

Introduction

AnzioWin and **Anzio Lite** provide thorough, reliable, and easy-to-use terminal emulation (telnet) for Windows™95 and later. While functionally very similar, Anzio Lite is a lower cost, limited version. Also available, but not covered in this document are versions for Windows 3.x and DOS.

AnzioWin and Anzio Lite have enjoyed widespread support, running in libraries, government institutions, health care organizations, commercial enterprises of all sorts, and people's homes. Users are all over the Americas as well as from South Africa to Russia, from Australia to Hong Kong.

Year 2000

Anzio is completely Y2K compliant (assuming the PC and OS are).

Key Features

Anzio is designed to meet the needs of a wide range of users and situations, with easy installation and startup. Following are some of the key reasons customers choose Anzio.

Terminal Types

Anzio thoroughly and accurately emulates popular terminal types, including:

- VT100/VT220
- SCO ANSI console
- AT386 console
- Wyse 50 and 60
- ADDS Viewpoint (enhanced)
- Televideo 965
- Versys C332
- ANZIO, which is VT220 plus color, enhanced key mapping, and other enhancements.

Support includes, where appropriate, color, attributes (including blinking), line-drawing characters, alternate character sets, protected fields, multiple pages, status lines, and downloadable key mapping.

Beginner's Guide

What is telnet?

Telnet is a protocol for one computer to talk to another computer over a network. In most situations today, that means that the PC on your desk is talking to another computer, and acting like a terminal. For that reason, 'telnet' is sometimes used interchangeably with 'terminal emulation'.

A telnet program is in some ways a cousin to a web browser. Both allow you to interact with a remote 'host' computer. Where a web browser is graphical, displaying pictures and various styles of text, a telnet connection generally displays all characters. Where a web browser tends to show you a page at a time, a telnet connection tends to react to each keystroke.

Do I need telnet?

In a nutshell, you need a telnet if you need to access any host computer system that uses the telnet protocol. One

clue to this is a web cross-reference that starts out '[telnet://](#)'.

You may need a telnet program in a corporate computing environment to access a centralized data processing system. Over the Internet, you'll need a telnet to access certain character-based host systems, such as many library catalog systems, multi-user game systems, and older resources that do not offer a web interface. If you have a "shell account" on an Internet Service Provider, you'll need a telnet to access the shell level.

What's wrong with the Windows telnet program?

The program 'telnet.exe' that is included with Windows is a 'bare-bones' program which addresses only the most basic of situations. It emulates only the VT100; it may not have adequate function key support; it has no passthrough print capability; it is limited in its support of color, international characters, and fonts.

Key Mapping

Standard keymap files are included for all emulations. Because of differences between the PC keyboard and the VT220 keyboard, 4 different keymaps are provided for VT220.

Users of AnzioWin can alter keymap files (resulting files can be used by Anzio Lite). Nearly every key combination can be mapped, including function keys in normal, shift, control, and alt states; control keys; alt keys; tab and backtab; arrows (in various shift states); and special keys (Home, End, etc.). Keys on the numeric keypad can be mapped separately in their NumLock and non-NumLock states. Keys can also be mapped to do nothing.

Certain keys can not be mapped because Windows intercepts them. These include *Num Lock*, *Caps Lock*, *Print Screen*, *Pause*, and *alt-F6*.

Connection Methods

Anzio can connect to the host using:

- Telnet (TCP/IP)
- Serial, direct
- Serial via modem
- PicLan, for Pick and similar hosts.

Browser Integration

Anzio can be set up easily to act as the designated telnet program for a web browser, in fact for Windows itself. A user viewing a web page can then click on a "*telnet://*" cross reference and be automatically connected to the site specified. If the cross reference contains username and password (and the browser behaves properly), Anzio's Login Wizard can automatically log in to the remote system.

International Character Support

Anzio uses Unicode to accept and display characters from many languages, including Western and Eastern European, Greek, Russian, Arabic, Hebrew, Chinese, Japanese, Korean, and more. Characters can be exchanged with the host system using a wide variety of encodings, including various ISO-8859 schemes, any codepage that Windows supports, USMARC, T160E, CCCII/EACC, and UTF8. In addition, Anzio lets the user indicate which hex value will be used to store the Euro character.

Both Anzio Lite and AnzioWin can do a screen print containing international

characters. AnzioWin can also do passthrough print of data received in any of these coding schemes.

For bidirectional languages (Arabic and Hebrew), the user can indicate whether the host is presenting characters in visual order or in logical order, in which case Anzio uses Windows features to reorder and reshape (requires Windows Middle East support).

Keystrokes are accepted using Windows' conventions for special characters, including alt-numeric equivalents. In addition, diacritic combinations can be entered from any keyboard using special control key combinations, similar to capabilities in Microsoft Word™. CJK characters can be entered using any Windows IME.

Anzio supports soft character download, as in VT220/320/420.

For international installations, Anzio's menus, prompts, dialogs, and messages can be translated using a resource editor.

Printing

Anzio's printing support, particularly for passthrough (transparent, slave) printing, succeeds where many others fail. Anzio offers three levels of printing:

- High-level, where the user can choose the font and size, and the Windows printer driver is used to its fullest.
- Low-level, where the printer driver is used for job initiation, but control codes can still be sent from the host.
- Raw-level, where the printer driver is not involved at all, and all printer control is the responsibility of the host program.

Printers can be attached directly to the PC, or accessible on a network.

Print Wizard

AnzioWin (not Anzio Lite) provides an even higher level of printer support in Print Wizard (PW). Print Wizard's first task is to print various reports reasonably. Before printing anything, PW will buffer several hundred lines, and analyze the print job. If it appears to contain PostScript code or printer-specific escape sequences, the data is dumped out at a raw level. Otherwise, it is further analyzed to determine the maximum number of columns per line, and lines per page (if formfeeds are included). Then PW checks the print-

able space on the paper and orientation selected, and sets the text size, line spacing, and page margins so that the report will fit on the page. PW is aware of conventions (e.g., 10 characters per inch, 66 lines per page) and practicality (text not too small). So for 80-column reports, 132-column reports, 147-column reports, etc., the user gets something readable.

The second task of Print Wizard is to let a programmer specify more control of the printer, in a printer-independent manner. By including certain markup tags, based on HTML, the programmer can specify page orientation, paper selection, font and size, bold, italic, precise text placement, rectangles and gray bars, color, bitmaps, barcode, and more.

Aux Port Support

Anzio allows you to set up an additional serial port for input from devices such as light pens and barcode readers, even when communicating with the host system via TCP/IP.

Login Wizard

When the Login Wizard knows your username and password, it can automatically log you in to the host system.

Screen Issues

Anzio takes a "clean screen" approach. Instead of cluttering the screen with toolbars, scrollbars, etc., it gets out of the way and lets the user see the host application. The user can choose any mono-spaced font available in Windows; the font size chosen determines the size of the Anzio window. Or, the user can zoom the window to take over the whole screen, and Anzio will choose the best font size to fit. Separate user preferences are maintained for 80-column and 132-column modes. Anzio can also run at arbitrary row/column sizes.

Mouse Support

Anzio's mouse actions (left and right, single and double click) can be assigned to do a variety of things, such as sending the pointed-to word to the host program, starting a URL, or executing a macro. In addition, Anzio can send mouse clicks to the host, for host applications (such as Pine) that support XTERM standards for mouse.

Command language and host commands

Anzio's repertoire of nearly 200 commands gives programmers and users great control over Anzio's operation. Commands can be entered manually, included in macros, or sent from a host through a simple control protocol. Macros can contain keystrokes to be sent to the host as well as local functions; macros can execute or call other macros. A macro can be specified to run on startup.

Macros can be written and edited only in AnzioWin, but can be used in Anzio Lite.

File Transfer

Anzio supports several types of file transfer between the host computer and the PC, with an emphasis on automating transfer and controlling it from the host computer. Methods include: a) Zmodem, b) Kermit, c) capture to disk, d) capture to printer, e) screen print, f) screen capture to disk, g) ASCII upload, and h) proprietary UFT protocol. Note that some of the above are not available in Anzio Lite.

Anzio also supports command-driven FTP using features available in Windows (WININET).

Anzio does not provide an FTP daemon or an LPD at this time.

Telnet options

The telnet protocol includes specifications for methods by which the client and the server can inform each other of certain working parameters. During the process of establishing a connection, the client and the server go through "option negotiation", so that each knows what the other can deal with.

When Anzio is connected to the host via telnet, it can handle the following options, if the host (the telnet daemon) can also handle them:

- **Echo** This governs whether Anzio or the host system echoes back typed characters.
- **Window size** When the number of rows and/or columns displayed by Anzio changes, whether by host control sequence, menu action, or macro, Anzio will notify the host system. The host application may react to this by changing its display management.
- **Terminal type** It's important for the

host system to know what kind of terminal (VT220, Wyse60, etc.) the client is. Anzio passes this information to the host, before the login prompt occurs. Users can specify an exact string to be sent, or rely on Anzio's default which is dependent on the emulation selected. It is even possible to specify a series of possibilities to be presented to the host, allowing the host to pick the one best suited.

- **Environment variables** Arbitrary variable/value pairs can be sent to the host. The value can be static, or it can be pulled from a DOS environment variable or certain variables within Anzio. This can be useful for setting a PRINTER or USER variable on the host, for instance.

Customization

Often Anzio must be deployed to a large number of PCs, to less-sophisticated users, or to public-access PCs. So administrators need to restrict Anzio's capabilities. For this purpose Anzio can be run in "kiosk mode", which provides the user with a very limited menu system. The exact menu items available can be determined by the administrator.

In addition, administrators can, with a commercially available resource editor, remove menu items from the Anzio executable, thereby restricting what operations the user is able to do. For instance, if the "save settings" menu item is removed, the user is not able to save any changes made to Anzio's settings. Also, menu items can be added, which will execute certain commands or macros. Customizations can also be done by Rasmussen Software for very reasonable fees. Contact us for details.

Finally, a "private label" version of Anzio can be created for you by Rasmussen Software. Your company's product name can appear instead of "AnzioWin" or "Anzio Lite", and your help desk information can appear in the appropriate Help boxes. This version can be distributed within your company or resold, governed by agreements with Rasmussen Software.

Differences Between Anzio Lite and AnzioWin

Anzio is available in two forms for Windows users: Anzio Lite and AnzioWin. Following is a summary of the key differences; these features exist in AnzioWin but not in Anzio Lite.

- **Key Mapping** With AnzioWin, you can change what character sequences are sent to the host system for function keys and special keys such as PageUp or the "-" on the numeric pad. Note that the keymap files developed using AnzioWin can be used by Anzio Lite.
- **User Macros** Many users find it very useful to program a frequently used sequence of characters into a special key, in order to save time. This can be done in AnzioWin; again, these can be used by Anzio Lite.
- **File Transfer** AnzioWin has a few additional file transfer options that do not exist in Anzio Lite, including a) full Kermit, b) ASCII upload, c) write or print to a DOS device file, d) screen capture to file, and e) our proprietary UFT protocol.
- **Setup options** A few setup options are available in AnzioWin but not in Anzio Lite. However, settings files established with AnzioWin can be used by Anzio Lite, and those settings will be in effect.
- **Screen bitmaps** AnzioWin has a unique ability to include a bitmap on the screen, and even display text over the top of it. In fact, any part of the bitmap can be displayed on any part of the screen. This can be used for a watermark, for display of signatures or employee pictures, or for text-over-form display and data entry. Bitmap placement can be directed from macros in Anzio, or from the host with Anzio's command capability.
- **Print Wizard** While Anzio Lite has excellent passthrough print support, AnzioWin adds Print Wizard, which works to automatically fit a report to a page without user intervention. See additional information above.

Buying Anzio

License

The demo versions of Anzio available on the Internet are provided for evaluation purposes only. After a reasonable evalua-

tion period, users are expected to register, at which point they will receive a registered version without the "nag" features that are in the demo versions.

Anzio must be licensed for each PC it is run on. Anzio's low price and aggressive volume discounts make this affordable.

For users who have license metering software in place, a "concurrent use" license is available. Contact Rasmussen Software for details.

Pricing

Pricing for Anzio Lite starts at \$25 per PC (\$20 for libraries and educational institutions). Volume discounts start at 50 units.

Pricing for AnzioWin starts at \$150 (\$120 for libraries and educational institutions), with volume discounts starting at 5 units. All orders are for a specific number of PCs; unlimited site licenses are not available.

There is no sales tax charged in Oregon, and Rasmussen Software does not collect sales tax.

Standard domestic shipping is free. Other pricing information is available on our web site at <http://www.anzio.com>

Documentation

A complete manual is available, and is included with orders for AnzioWin. A manual is not included with Anzio Lite, but is available at additional cost. The manual is also available online.

Ordering

Ordering can be done by telephone, fax, email, or through our secure web site's online order form. An order form can be printed from the demo versions' opening screens, or from the web site.

Payment can be by check, or by VISA, MasterCard, or American Express. Purchase orders will generally be accepted from US and Canadian companies, and government agencies overseas.

International orders and payment

Prepayment is greatly preferred for international orders. Payment can be by credit card as above, by wire transfer, or by a check in US funds drawn on a US bank.

Product Delivery

The registered version(s) can be shipped via email and/or on diskette. Ordinarily, only one diskette per order is shipped, along with appropriate licensing documentation.

Updates

Updates for registered users are available for 25% of current (volume-discounted) price, with a minimum order of \$10. Library/educational discounts do not apply to updates.

Support

There is no charge for support, except for your long distance call. Telephone support is available weekdays from 9:00a.m. to 5:00p.m., Pacific Time. Support via email is available at <mailto://rsi@anzio.com>



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<http://ftp.anzio.com>

MICROSOFT WINDOWS, MICROSOFT WORD, INTERNET EXPLORER
AND NETSCAPE NAVIGATOR ARE REGISTERED TRADEMARKS
OF THEIR RESPECTIVE OWNERS.

General features in both Anzio Lite, AnzioWin:

- 32-bit Windows version for Win95, 98, NT
- Versions also available for DOS serial, DOS network, 16-bit Windows
- Communicate via TCP/IP, serial, PicLan, WLIBSOCK
- VT100/220 emulation
- SCO ANSI, AT386 console emulations
- Wyse 50 and 60 emulation
 - Protected fields
 - Multi-page mode, compatible with "mscreen"
 - Downloadable special key definitions
- Viewpoint enhanced emulation
- Versys C332 emulation
 - Multi-page capability
- Televideo 965 emulation
- ANZIO terminal type
 - VT220 plus our enhancements
 - Color support
 - Termino, termcap provided
 - Special Word Perfect/Unix support, with graphical Print Preview
 - 48 Function keys
 - Many special key combinations
- Customization options
 - Kiosk mode
 - Remove menu items to prevent certain operations
 - Prevent changing parameters
 - Prevent inappropriate exit
 - Add menu items, to invoke macros or commands
 - Private label versions
- Mouse-to-host options
- International character set support
 - ISO 8859-x
 - Windows, DOS codepages
 - CCCII/EACC
 - T16oE
 - UTF8
 - Far East
 - Arabic, Hebrew
 - Soft characters
- File transfer
 - Full Zmodem
 - Kermit auto-download
 - Capture to printer or file
- Passthrough print
 - High-level lets you select font, size
 - Low-level passes data, control codes to printer
 - Raw-level avoids Windows printer driver
- Print screen/window
- Screen scrollbar
- Windows copy and paste
- Clean screen approach
 - No visual distractions
 - Choose your font
 - Choose point size, or zoom to full screen
 - Separate settings for 80, 132 column modes
 - Variable number of rows, columns
- Full URL processing
- Login Wizard
- AUX input

Advanced features in AnzioWin only:

- Key remapping
 - Keymaps can be used by Anzio Lite
- Macro language
- Additional file transfer
- Screen bitmap capability
- Print Wizard for passthrough print
 - Automatically handle variable report formats
 - Markup language for advanced printing