

Trumpet for Windows

Version 1.00

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Introduction

What is Trumpet for Windows?

Trumpet for Windows is a Network News Reader for Microsoft Windows (tm) that uses the Network News Transfer Protocol (NNTP) to link into the Usenet news system. Usenet is a distributed computerized news system and is a part of a network consisting of thousands of interconnected computer system. This network is known as the Internet and reaches to most countries in the world. Many services are available on Usenet ranging from technical discussions of many aspects of computer, scientific topics such as physics or mathematics and even to recreational topics such as sport or movies. It is beyond the scope of this document to outline the full features of Usenet, but suffice it to say that there is more than enough material on Usenet propagated every year to tear down many a forest were it all to be printed.

Central to the Usenet system is the notion of Newsgroups. A newsgroup is a grouping of articles with a related topic. Some examples of newsgroups are "sci.physics" or "rec.art" The Newsgroups are arranged in hierarchies so that related topics are grouped together. Each of these newsgroups contain a list of Articles which are usually transient in nature and generally don't stay on the news server for more than a week or so.

Usenet is growing at such a rate that a good comfortable news reader is essential to keep up with the barrage of information available. Trumpet for Windows seeks to provide the user with a smooth and easy to use interface and runs on the world's most popular graphical environment, Windows(tm) and even runs on the about to be released Windows NT(tm).

Trumpet uses NNTP (Network News Transfer Protocol) to speak to a News Server which is normally a large computer system storing all the news articles.

Installing Trumpet

Installation assumes you have the basic skills to operate the program manager from Windows, and that you are using version 3.1 of Windows. The examples will assume we are installing a Winsock version of Trumpet in the directory "c:\wintrump". Trumpet is normally distributed in .ZIP file format, and there 4 versions are distributed together. The versions are:

for Winsock	wt_wsk.exe
for Trumpet TCP	wt_abi.exe
for Lan WorkPlace for DOS	wt_lwp.exe
for Packet Driver	wt_pkt.exe

Firstly, you must unpack the Windows Trumpet distribution. You will need a program like "pkunzip" to extract the Trumpet files. Place the distribution files in a suitable directory.

e.g. from a DOS shell.

```
md c:\wintrump
cd c:\wintrump
....
..... move wntrmp10.zip to the current directory
....
pkunzip wntrmp10.zip
```

Now create a program manager item by choosing File|New from the Program Manager. Choose "Program Item" and then the OK button.

Type in a description in the Description box

e.g. "Trumpet for Windows"

and then type the full path name of the trumpet executable file in the Command line box.

e.g. "c:\wintrump\wt_wsk.exe"

Windows will fill in the Working directory for you automatically so leave it blank.

Press the OK button and a new icon will appear in the current program group. If so desired, you can drag the icon to another suitable group if this is not where you wish the Trumpet icon to be.

Now you are ready to start up Trumpet. Just double-click on the icon and if all goes well, you will be presented with a copyright message box. Click on the OK box to continue.

If you are running Trumpet for the first time, the setup menu should be presented. After filling in the details outlined in the next section you will be ready to start using Trumpet.

The Setup Dialog

The Setup dialog is available at any time by choosing File|Setup, and is presented automatically for first-time users. The Setup Dialog looks like this.

[insert setup.bmp]

You must fill in most of these fields for Trumpet to operate correctly.

NNTP Host Name (required always)

This field is the Internet name of the NNTP news server which you will be using. Type in either the full Internet domain name or a dotted IP address. This Host name will be used to establish the main news reading session.

SMTP Host Name (required for e-mail and news postings)

This field is the Internet name of the SMTP mail server to which you will send any replies to articles. It is also used by the e-mail section of Trumpet when sending new e-mail messages or replies to e-mail messages. Type in either the full Internet domain name or a dotted IP address.

User name @ Site name (required for e-mail and news postings)

These two fields are required when posting articles or replying to e-mail. They are your e-mail address. The first field is the user name part of your full Internet e-mail address.

For example if your e-mail address was

Mike@Imperial.Bolt.Makers.Com

then you would fill the first field with "Mike", and the second by "Imperial.Bolt.Makers.Com". It should be noted that the username part of an Internet address can be case sensitive so make sure that it is correct in this respect, or your e-mail and/or postings may get rejected.

Organization (optional)

This field is a more fuller description of your Organization. This is purely informational and should be fairly innocuous should it be incorrect.

Full name (optional)

This field is for typing your full name, or any other descriptive information to be added to the e-mail address. Do not use the characters "(" or ")" since these are used to delimit the descriptive information. Likewise, do not use the letters ", < or > in this section since these will probably cause you address to be deciphered incorrectly on some systems resulting in your messages being rejected.

Signature file name (optional)

This field is used to specify the location of a signature file to be appended to every article that you transmit. You can place useful information such as your full name, telephone, address and other relevant information. Some news servers will not accept articles that have signatures longer than about 3 or 4 lines, so try to keep the length as short as practical.

POP host name (required to fetch mail)

This field is the Internet name of a POP3 mail server. This is the server which stores your mail for you, and will usually be the same address as that supplied for the SMTP host name.

POP username and password (required to fetch mail)

These field specify the username and password which are required to log into the POP3 server when you wish to fetch mail.

Fetch Read only check box. (optional)

Should you wish to use Trumpet to fetch e-mail for previewing but not wish the mail to be deleted at the server after fetching, then check this box. This can be useful if you normally use another POP mailer to read your e-mail, or your e-mail is managed by a central server and is not normally read from the POP server.

No other additional setup should be required.

Once you have filled in all these details, press the OK button, and with the exception of the packet driver version, a news session will be initiated. If you are a first-time user,

you will be subscribed to all the news groups. This may take some time, so be patient. Once all the news groups have been subscribed, you can continue with the section titled **Using Trumpet**.

Additional notes for specific versions

For Winsock

No additional setup should be required apart from the time server (see later)

For Trumpet ABI

No additional setup should be required apart from the time server (see later)

For Novell's Lan WorkPlace for DOS

No additional setup should be required apart from the time server (see later)

For Packet driver

When the main setup dialog has completed, you will be asked to fill in the Network Setup dialog. The Network Setup Dialog looks like this.

[insert network setup BMP]

IP address

In this box enter the Internet Protocol address assigned to your workstation. You can get this address from your local Network Administrator. If your network supports the BOOTP protocol to assign IP addresses, you can enter **bootp** here, you can leave the values for those fields that are sent by your BOOTP server blank.

If your network uses RARP protocol to assign IP addresses, you can enter **rarp** here. If you use RARP to assign IP addresses, you must still enter values for the other fields.

Netmask

Enter the Subnet mask value in this box. Please use a correct value for your network. This can be obtained from your local Network Administrator

Nameserver

Enter the IP address of the domain nameserver on your network. The Domain NameServer translates common names, such as Imperial.Bolt.Makers.Com into IP addresses.

Default Gateway (Optional)

Enter the IP address of your local network's gateway. Trumpet will need this value if the NNTP, SMTP and POP3 servers you use are not within your local subnet.

TimeServer (Optional)

Enter the IP address of the Network TimeServer for your network. The TimeServer is used by Trumpet to add a GMT date & time stamp to your posts during posting. If no timeserver is available on your network, leave this field blank (0.0.0.0), and Trumpet will use the PC clock to generate a local time stamp (not GMT) for posts.

Domain Name

Enter the name of the domain your computer is located within in this box. In the example used, Mike's computer, is within the domain Bolt.Makers.Com

Packet Vector

Enter the software interrupt that the packet driver for your network interface is loaded on. If you are using a Crynwr driver, this is the first hexa-decimal value, without the leading 0x. For example, if your packet driver is loaded as:

```
driver 0x65 5 0x300
```

the software interrupt to be entered in this box is 65.

However, Trumpet should not be loaded directly over the packet driver. For smooth operation in Windows when it is a background application, it is better that you load Prof. Joe Doupnik's double-ended packet driver shim WINPKT.COM over the hardware packet driver. An example with WINPKT.COM is shown below:

```
driver 0x65 5 0x300 (actual hardware packet driver)
winpkt 0x60 0x65
```

DOS and Windows applications can use the virtual packet driver that Winpkt creates at 0x62. The value to enter in the packet vector configuration box is 60. WINPKT.COM can be found where Crynwr packet drivers are archived.

Trumpet also works well with the virtual packet drivers created by Graham Robinson's PKTMUX packet multiplexor. If you use PKTMUX, you must use version 1.2c or later.

TCP RWIN and MSS

Use values that are recommended for use with your network for the Receive Window, and Maximum Segment Size. These values can also be obtained from your Network Administrator. As a general rule, one can use an RWIN value that is 3 - 4 times the size of the MTU (depending on your CPU and amount of memory), and an MSS that is 40 bytes smaller than the MTU.

When you are all done press the OK button.

Getting Started With Trumpet

After starting up Trumpet and the configuration is completed, Trumpet will try to connect. Assuming you have typed in all the correct information, Trumpet will display a box stating that it is trying to connect. The connection time defaults to 30 seconds excluding the time to look up the name of the server.

What if Trumpet won't connect?

Should a message come up saying that it doesn't know how to look up the name of your server, try changing the name of the NNTP server to that actual IP address of the server. This will bypass the Name lookup which can fail for a number of reasons. After you have changed the name to an IP address, choose File|Reconnect. This handy command can be used at any time to force a new news session. Should there be any other problems with the setup, check it carefully, and try to use File|Reconnect. Should you need to change any parameters in the Network Setup, you are advised to quit Trumpet and restart it again for the new network parameter to take effect.

Once you have got this far, you can start to use Trumpet. It's kind of like driving a car, a little strange at first, but once you've got the knack, there's nothing to it.

News Viewer Window

Once you have completed setting up Trumpet, you should end up with a screen similar to the following one.

[Insert Main Screen BMP]

Let's describe what's available on the main screen.

In this document, this screen is referred to as the **News Viewer Window**. This distinguishes it from the Mail Viewer Window described later in the document.

On the very Top line, you will have a standard Windows program Status line. It should say something the the effect of "Trumpet News Reader - (News)". It will also have some standard windows controls such as a system menu control on the left hand side, and some maximize and minimize controls on the right.

The next line is the main Trumpet Menu with some additional controls.

On the third line, we have a Status line. Trumpet uses this line to display various pieces of information back to the user.

Below this is a list box containg a list of your subscribed news groups. If there are more

news groups than can fit on the screen, you can scroll the list box with the horizontal scroll bar. You can select any particular newsgroup by clicking on it. Once the box is selected, you may also move around using the cursor keys. If you are a first time user of Trumpet, this list box may have thousands of news groups in it. You will have to wade through the many items to select which group you wish to view. For the time being, don't worry about this, you will be shown how to subscribe and unsubscribe fairly easily.

Special Note

Some news server may contain many thousands of articles. Should the number of news groups exceed about 3000-4000, it may not be possible for Trumpet to display them all. Under these circumstances, Trumpet may possibly have the display and it's internal tables out of step although measures have been taken to prevent this happening. Should it get out of step with it's internal tables, it is suggested that you unsubscribe some news groups.

Below this list box, there will be an empty part of the screen. This is used to display the headers of any articles which are available for viewing.

Below this area is a **button bar**. The buttons are designed to help you negotiate through the articles and newsgroups. You can click on any button with the mouse (left button down). Most the buttons also have keyboard equivalents. A short description of the buttons is below:

<u>Button</u>	<u>Keyboard</u>	<u>Action</u>
<<	F7	Scroll newsgroups previous to the current one
>>	F8	Scroll newsgroups after the current one
View/List	F9	View the list of articles the current article
Format	F10	Change the format of the article list or if you are reading an article view that article in Courier 12 point type
Skip All	Control-S	Skip all the articles in the current group and proceed. These articles will not be marked as read.

Post	Control-P	Post a new article to the current newsgroup
Follow	Control-F	Post a follow-up article to the current newsgroup
Reply	Control-R	Reply via e-mail to the author of the current article
Archive		Save the current article in an Archive folder

The buttons are also described in detail in the WinHelp file that is distributed with Trumpet.

Mail Viewer Window

When you select the item Window | Mail from the Menu bar, you are taken into the Mail Viewer Window. You should see a screen similar to the screen shown below.

[insert mail view BMP]

Akin to the News Viewer Window, there is a menu bar, followed by a status line (which will be blank), followed by an area which lists all your mail and news archive folders. If you have none -- don't worry. Trumpet will automatically create at least the Incoming Mail folder the first time that you fetch your mail using Trumpet. As you archive news articles, other folders will appear in this area. You can also use the menu item Special | Insert Folder to create new folders of your choice in this area.

Below the list area, in the bottom half of the Mail Viewer Window is a blank area which will list all the messages present in the selected folder. To begin with, you will have no messages listed here. Listed messages can be deleted by using the "Delete" key or the menu item Article | Delete Article.

Below this area is a **button bar**. You can click on any button with the mouse (left button down). A short description of the buttons is below:

<u>Button</u>	<u>Keyboard</u>	<u>Action</u>
<<	F7	Read the message that immediately precedes the current one
>>	F8	Read the message that immediately follows the current one
View/List	F9	View the list of messages or the current article
Format	F10	Change the format of the message you are currently reading to Courier 12 point type
Fetch		Fetch your mail from the POP3 server
Mail	Control-M	Mail a new message
Reply	Control-R	Reply to the current message

The Menu Bar

The Menu Bar is common to both the News Viewer and Mail Viewer windows, and is described in some detail below:

File Menu:

Setup, Network Setup and Reconnect have been already discussed at part of the Setup procedure.

Save Settings will allow you to save changes in newsgroups to the NEWS.INI file while you are still working in Trumpet.

Print will print the current article in the same font and size as displayed.

Printer Setup will allow you to change the printer and printer options.

Exit will allow you to exit Trumpet. This will also save changes to the NEWS.INI file

Edit Menu:

Copy will let you copy portions of an article or mail message to the ClipBoard. You can select the portion that you wish to copy using the mouse. Depress the left mouse button at the point where you wish to begin selecting text, and release it with the desired text has been selected. While you are in a Composer Window, you can paste information by using standard Windows commands (Control-V or Control-Ins).

Special Menu:

Font will let you choose the font, point size and color for Viewer Windows.

Zap all Subscribed Groups will mark all groups as unsubscribed.

Discard Unsubscribed Groups will delete unsubscribed groups from the NEWS.INI file.

Insert Folder, and Delete Folder will let you manage your news/mail folders when you are in the mail Window.

Registration will let you register your copy of Trumpet using the appropriate username and password that are provided upon receipt of the shareware registration fee.

Group Menu:

Read All marks all retrieved articles in the current group as read.

Unread All marks all the articles in the current group as unread.

Unread 20 (Control-U) and Unread 10 mark the last 20 or 10 articles in the current groups as unread.

Catch-Up will mark all the articles in the current group as read without retrieving them. This is particularly useful if you are reading News after a hiatus of a week or two, and do not wish to browse through hundreds or articles.

Subscribe will display a list of all the newsgroups carried by your local NNTP server in a list box. Careful -- very often this can be 4000 or more groups. Under low memory situations, and very large number of groups, not all the newsgroups carried by the NNTP server will be displayed in the subscribe list box.

Unsubscribe marks the current group as unsubscribed, but it is still retained in NEWS.INI

Article Menu:

Reply, Mail, and Forward will let you reply to the current article, mail the author of the current article, or forward the current article to someone else via e-mail.

Post, Follow and Cancel will let you post an article to the current group, post a follow-up to someone else's article, or cancel an article. You may only cancel those articles that you have authored.

Toggle (Control-T or F5) will mark the current article as read or unread.

Skip will let you skip the current article

Save to File, and Append to File permit you to either save the current article to a new file, or append it to a pre-existing file.

Delete Article permits you to delete an existing article or mail message while you are in the Mail Window and browsing through your Archive Folders

Move Article to folder moves the current article to the archive folder for that newsgroup. If no archive folder for the group exists, one is created.

View Menu:

View Headers allows you to view the article headers. These usually contain detailed information about the poster's NNTP host, the path along which the article has been received and similar information.

Word Wrap turns on word wrap in the viewer and composer windows.

Rot 13 permits the decoding of Rot 13 encoded articles.

Window Menu:

Tile and Cascade let you view either Tile or Cascade the two main viewer Windows (News and Mail)

News and Mail activate that particular viewer Window.

Help Menu:

The help menu functions as in other Windows applications. Help can also be invoked by the F1 key.

About... brings up information about the version of Trumpet you are using.

Additional hints for NetWare users

Trumpet for Windows can be managed fairly easily in a NetWare environment. There are a few things to remember though.

If you are logged in, then Trumpet will first search for its configuration files from your NetWare mail directory. Should a shared copy of the news.prm file be found in the program directory, it will be used to override the existing parameters as a security feature. Any parameter defined in the global news.prm file will override the same parameter in the user's local news.prm file. This can be used to enforce some form of security over e-mail and postings.

Additionally, the **username** and **fullname** can be automatically filled in from the bindery by specifying a "*" as the parameter value.

The news.ini file (which holds the news group information) is automatically loaded from the global directory if one exists there.

If you are having difficulties using this arrangement, then the command line option **-disable_nw** can be used to disable any NetWare processing. Also the **-maildir=...** option can be used to specify that the configuration files be stored in a specific directory.

Registration information.

Trumpet for Windows is currently distributed as shareware. You may use Trumpet for Windows for 30 days to evaluate its usefulness. If at the end of that time you are satisfied with Trumpet for Windows as a product, you can register it. The basic registration fee for a single user version of Trumpet for Windows is US\$40. See a later section for details on multi-user site licenses.

The distribution site is <ftp.utas.edu.au:/pc/trumpet/wintrump/>*

Australian users should contact me regarding Australian pricing information and availability.

Cheques or Postal Orders should be made out to

Trumpet Software International

and sent to

Trumpet Software International
GPO Box 1649,
HOBART, TAS AUSTRALIA 7001

You may fill out the following order form and send it along with your cheque or Postal Order to the above address.

Please note that International mail can be rather slow, and it may take up to 2 months to receive your registration.

+-----+
 | ORDER FORM |
 | for Trumpet for Windows version 1.0 Software |
 +-----+

Ship to:

Bill to:

[]	[]
[]	[]
[]	[]
[]	[]
[]	[]

Please supply the following items:

Licence to use Trumpet for Windows 1.06 for [] users

..... US\$[]

Tick at least one of the following options.

5.25" disk with the latest version of Trumpet + password

3.5" disk with the latest version of Trumpet + password

registration password via post

Your registration name (required) (will appear on program)

[_____]

Your email address (optional)

[_____]

Date sent [_____] Expected delivery Date [_____]

Site Licenses.

Site licenses for Trumpet for Windows are available, the cost of which is determined by the number of simultaneous users. Unless otherwise indicated, upgrade fees for future versions of Trumpet for Windows will be 25% of original fee.

Trumpet for Windows Version 1.00 Valid until 31-Dec-1993

Single User License

1 user \$40 US

Unlimited Educational Site License

1-24 users \$40 US per user
25+ \$1000 US

site restriction unlimited.

Multi-user Commercial Site License

1-24 users \$40 US per user
25-99 users \$1000 US + \$20 US per additional user over 25
100-399 users \$2500 US + \$10 US per additional user over 100
400-999 users \$5500 US + \$5 US per additional user over 400
1000+ users \$8500 US + \$2 US per additional user over 1000

site restriction 10km radius (negotiable)

Unlimited Commercial Site License

\$10,000 US for first year.
subsequent years, 25% of current site license fee. This includes maintenance support and upgrades to future versions of Trumpet for Windows.
site restriction 100km radius (negotiable)

Please note that these prices will be subject to change at 6 monthly intervals.

Appendix A

news.prm, command line and environment variable options.

nntp-host	domain name or IP address of the NNTP server
smtp-host	domain name or IP address of the SMTP server
time-host	IP address of Time server
user	your e-mail user name ("*" to fetch from bindery under NetWare)
site	your e-mail site name
fullname	your full name ("*" to fetch from bindery under NetWare)
signature	your signature file name
organization	the name of your organization
protect	disallow users to change setup
options	your saved Trumpet options
title-format	your saved Trumpet title format
timeout	timeout in seconds for commands to time out. leave large (> 600).
debug	debug options (a=arp,e=ethernet,i=IP,r=RARP,t=TCP,u=UDP)
dbfile	debug file name
d	equivalent to -debug=t
maildir	specification of the maildir location (command line or environment variable only).
disable_nw	disable any netware features of trumpet (command line or env. var. only)
nobatch	disable batching of XHDR commands
viewer-font	the font details for viewing and printing
viewer-colour	colour of viewed article text
pop-host	hostname of the POP server used for fetching e-mail
pop-username	saved POP username
pop-password	saved POP password
pop-readonly	saved state of the pop-readonly option
win-posn	saved position and zoomed state of the main window
registered-name	encoded registration name
registered-password	encoded registration password

Packet driver specific options.

myip	an ip address, rarp or bootp (in lower case)
netmask	your ip local network mask
mygateway	ip address of your gateway outside your local net
mtu	maximum transmission unit that the hardware can handle
mss	maximum segment size that tcp can send. default 512
rwin	size of the tcp receive window.
dns-host	IP address of Domain name server
vector	Hex specification of the packet driver vector number