

Analyze Help Index

How To ...

<<add your application-specific "how to" topics here>>

Commands

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Socket menu commands

The Socket menu offers the following commands:

Enumerate Protocols

Displays the protocols available.

Enumerate Namespace Providers

Displays the namespaces available.

Get Host

Identifies the host IP address or name.

WinSock Details

Displays information on the WinSock library in use.

Exit

Exits Analyze

UDP menu commands

The UDP menu offers the following commands:

Send Datagram

Send a UDP datagram.

Echo Datagrams

Echo all UDP datagrams received.

BOOTP

Send a BOOTP request to the specified server.

DNS Lookup

Perform a DNS name lookup.

UDP Datagram Receive

Receive UDP datagrams.

DHCP

Issue a DHCP request to the specified server.

IP/ICMP menu commands

The IP/ICMP menu offers the following commands:

<u>Receive</u>	Receive IP Messages.
<u>Broadcast</u>	Send an IP message to the broadcast address.
<u>Ping</u>	Send an ICMP Ping message to the specified address.
<u>Traceroute</u>	Trace the route to a specified address.
<u>Get Time</u>	Obtain the time from the specified host.
<u>Get Subnet Mask</u>	Obtain the subnet mask from the router.

View menu commands

The View menu offers the following commands:

Toolbar

Shows or hides the toolbar.

Status Bar

Shows or hides the status bar.

Options

Default settings for port addresses, network type etc.

Display menu commands

The Display menu offers the following commands.

<u>Hex Dump</u>	Displays the data in hexadecimal format.
<u>Interpret Dgram</u>	Interprets the contents of a datagram.

Help menu commands

The Help menu offers the following commands, which provide you assistance with this application:

Help Topics

Offers you an index to topics on which you can get help.

About

Displays the version number of this application.

Control menu commands

The Control menu offers the following commands.

<u>EnterReceiveMode(Once)</u>	Enters receive mode for one datagram after issuing the command..
<u>EnterReceiveMode(Cont)</u>	Enters receive mode continuously after issuing the command.
<u>StopOperation</u>	Stops receiving.

Enumerate Protocols (Socket menu)

This command displays the protocols available through the WinSock 2 interface.

Get Host (Socket Menu)

Determines the host address from the host name, or vice versa. The host address is specified in the Host Name Dialog Box.

Enumerate Namespace Providers (Socket menu)

This command displays the naming services provided by the service provider.

WinSock Details (Socket Menu)

Display the version of WinSock in use, and the manufacturers description.

Receive (IP/ICMP menu)

Listen for and display IP messages.

Broadcast (IP/ICMPmenu)

Send an IP message to the broadcast address. If the listening ear is shown next to the menu item, the program will enter receive mode after sending the broadcast message.

Ping (IP/ICMP menu)

Sends the ICMP Echo Request message and listens for a reply. The timeout for the reply to be received is set in the Options Dialog Box.

Network Type

Enter the type of network (Physical media). This is used in some IP messages and datagrams to specify the type of the MAC address

OK

Confirm and save the changes made

Cancel

Cancel any changes made

Port Assignments

The UDP ports used for various protocols and services may not be found in the services file. If not, the defaults entered here are used.

If the Force use of these ports button is checked, then the specified port will be used, even if the system can resolve the port number through the services file or other method.

Port Number

Enter the UDP or TCP port number corresponding to the service.

Force Use of These Ports

If this button is checked, the specified port will be used even if the port number could be resolved by other means.

Sound

If this button is checked, a warning beep is sounded when a message or datagram is received.

Ping Timeout

The number of seconds to wait for a reply to an echo request (ping). The same timeout is used by traceroute.

Traceroute (IP/ICMP menu)

Determine the route taken to reach a given host.

Get Time (IP/ICMP Menu)

Obtain the time from the specified host.

Get Subnet Mask (IP/ICMP menu)

Obtain the subnet mask from the router. If no router is available the command may fail.

Exit command (Socket menu)

Use this command to end your Analyze session. You can also use the Close command on the application Control menu.

Shortcuts

Mouse: Double-click the application's Control menu button.



Keys: ALT+F4

Send Datagram (UDP menu)

Send a UDP Datagram to the specified host and port. Data may be entered in the dialog box. If the host address is specified as the broadcast address then the datagram will be broadcast.

If the listening ear symbol is displayed against the menu item, the program will enter receive mode immediately after sending the datagram.

The host address and message are specified in the Host Name and Data Dialog Box.

Echo Datagrams (UDP menu)

Echo any datagrams received on the specified port.

BOOTP (UDP menu)

Send a BOOTP request to the specified server, and display the results. If an alternative MAC address is entered in the dialog box, the reply for that MAC address will be displayed. (This relies on the BOOTP server being able to broadcast it's replies)

The BOOTP server name and network adapter address are specified in the the Host Name and MAC Address Dialog Box.

DHCP (UDP menu)

Send a DHCP request to the specified server, and display the results. If an alternative MAC address is entered in the dialog box, the reply for that MAC address will be displayed. (This relies on the DHCP server being able to broadcast it's replies)

The DHCP server name and network adapter address are specified in the the Host Name and MAC Address Dialog Box.

DNS Lookup (UDP menu)

Perform a DNS lookup on a specified host running the DNS services. The types of query which may be made are:

A	Host Address
CNAME	Canonical Name
HINFO	Name of CPU and Operating System
MINFO	Mailbox information
MX	Mail Exchanger
NS	Name Server
PTR	Pointer
SOA	Start of Authority
TXT	Text

The host address, query and type are specified in the DNS Dialog Box.

Enter Receive Mode (Once) (Control Menu)

After a datagram or message has been sent, automatically enter receive mode for one message. This allows the reply to be displayed.

Note that when this option is in operation, the listening ear is displayed alongside the menu item for all applicable commands.

Enter Receive Mode (Cont) (Control Menu)

After a datagram or message has been sent, automatically enter receive mode continuously. This allows multiple replies to be displayed.

Note that when this option is in operation, the listening ear is displayed alongside the menu item for all applicable commands.

Stop Operation (Control Menu)

When an operation is started to listen for a message or datagram, that message may not arrive, and the program remains listening. Because an operation is in progress, most of the menu items are greyed out. This option allows such a command to be interrupted.

UDP Datagram Receive (UDP menu)

Listen for and display UDP datagrams from the specified host and port. The host address is specified in the Host Name and PortDialog Box.

IP ADDRESS

Enter the dotted quad IP address of the host e.g. 192.168.49.34

Host Name

Enter the host name e.g. www.microsoft.com

Toolbar command (View menu)

Use this command to display and hide the Toolbar, which includes buttons for some of the most common commands in Analyze such as Help. A check mark appears next to the menu item when the Toolbar is displayed.

See [Toolbar](#) for help on using the toolbar.

Toolbar



The toolbar is displayed across the top of the application window, below the menu bar. The toolbar provides quick mouse access to some tools used in Analyze

To hide or display the Toolbar, choose Toolbar from the View menu (ALT, V, T).

Click	To
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Go to the previous record in the current selection.



Go to the next record in the current selection.



Display version details.



Display help file.

Status Bar command (View menu)

Use this command to display and hide the Status Bar, which describes the action to be executed by the selected menu item or depressed toolbar button, and keyboard latch state. A check mark appears next to the menu item when the Status Bar is displayed.

See Status Bar for help on using the status bar.

Status Bar



The status bar is displayed at the bottom of the Analyze window. To display or hide the status bar, use the Status Bar command in the View menu.

The left area of the status bar describes actions of menu items as you use the arrow keys to navigate through menus. This area similarly shows messages that describe the actions of toolbar buttons as you depress them, before releasing them. If after viewing the description of the toolbar button command you wish not to execute the command, then release the mouse button while the pointer is off the toolbar button.

The right areas of the status bar indicate which of the following keys are latched down:

Indicator	Description
CAP	The Caps Lock key is latched down.
NUM	The Num Lock key is latched down.
SCRL	The Scroll Lock key is latched down.

Options (View menu)

This command displays the Options Dialog Box, which allows details about the network and environment to be set.

Hex Dump (Display menu)

Sets the display to Hex Dump format. This may be useful for examining messages which cannot be interpreted by Analyze.

Interpret Dgram (Display menu)

In this display mode Analyze will display received messages and datagrams by interpreting the data according to the type of message received.

Index command (Help menu)

Use this command to display the opening screen of Help. From the opening screen, you can jump to step-by-step instructions for using Analyze and various types of reference information.

Once you open Help, you can click the Contents button whenever you want to return to the opening screen.

Using Help command (Help menu)

Use this command for instructions about using Help.

About command (Help menu)

Use this command to display the copyright notice and version number of your copy of Analyze

Context Help command



Use the Context Help command to obtain help on some portion of Analyze. When you choose the Toolbar's Context Help button, the mouse pointer will change to an arrow and question mark. Then click somewhere in the Analyze window, such as another Toolbar button. The Help topic will be shown for the item you clicked.

Shortcut

Keys: SHIFT+F1

Title Bar



The title bar is located along the top of a window. It contains the name of the application and document.

To move the window, drag the title bar. Note: You can also move dialog boxes by dragging their title bars.

A title bar may contain the following elements:

- Application Control-menu button
- Document Control-menu button
- Maximize button
- Minimize button
- Name of the application
- Name of the document
- Restore button

Scroll bars

Displayed at the right and bottom edges of the document window. The scroll boxes inside the scroll bars indicate your vertical and horizontal location in the document. You can use the mouse to scroll to other parts of the document.

Size command (System menu)

Use this command to display a four-headed arrow so you can size the active window with the arrow keys.



After the pointer changes to the four-headed arrow:

1. Press one of the DIRECTION keys (left, right, up, or down arrow key) to move the pointer to the border you want to move.
2. Press a DIRECTION key to move the border.
3. Press ENTER when the window is the size you want.

Note: This command is unavailable if you maximize the window.

Shortcut

Mouse: Drag the size bars at the corners or edges of the window.

Move command (Control menu)

Use this command to display a four-headed arrow so you can move the active window or dialog box with the arrow keys.



Note: This command is unavailable if you maximize the window.


Shortcut

Keys: CTRL+F7

Minimize command (application Control menu)

Use this command to reduce the <<YourApp>> window to an icon.


Shortcut

Mouse: Click the minimize icon  on the title bar.
Keys: ALT+F9

Maximize command (System menu)

Use this command to enlarge the active window to fill the available space.

Shortcut

Mouse: Click the maximize icon  on the title bar; or double-click the title bar.

Keys: CTRL+F10 enlarges a document window.

Close command (Control menus)

Use this command to close the active window or dialog box.

Double-clicking a Control-menu box is the same as choosing the Close command.

■

Note: If you have multiple windows open for a single document, the Close command on the document Control menu closes only one window at a time. You can close all windows at once with the Close command on the File menu.

Shortcuts

Keys: ALT+F4 closes the Analyze window or dialog box

Restore command (Control menu)

Use this command to return the active window to its size and position before you chose the Maximize or Minimize command.

Switch to command (application Control menu)

Use this command to display a list of all open applications. Use this "Task List" to switch to or close an application on the list.

Shortcut

Keys: CTRL+ESC

Dialog Box Options

When you choose the Switch To command, you will be presented with a dialog box with the following options:

Task List

Select the application you want to switch to or close.

Switch To

Makes the selected application active.

End Task

Closes the selected application.

Cancel

Closes the Task List box.

Cascade

Arranges open applications so they overlap and you can see each title bar. This option does not affect applications reduced to icons.

Tile

Arranges open applications into windows that do not overlap. This option does not affect applications reduced to icons.

Arrange Icons

Arranges the icons of all minimized applications across the bottom of the screen.

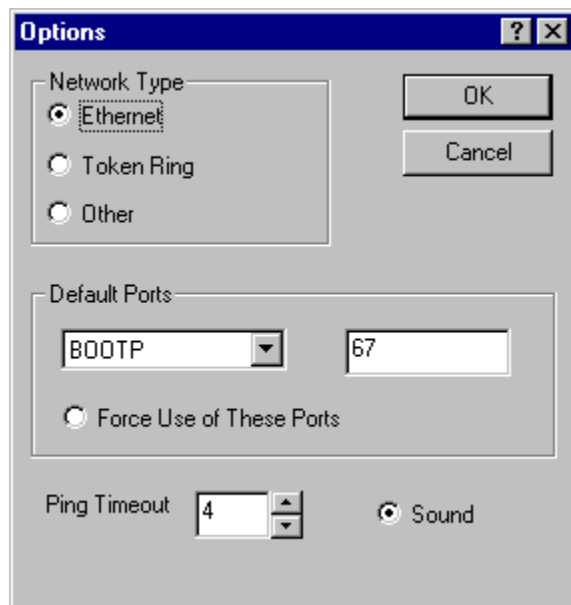
No Help Available

No help is available for this area of the window.

No Help Available

No help is available for this message box.

Options Dialog Box



The image shows a Windows-style dialog box titled "Options". It has a blue title bar with a question mark icon and a close button (X). The dialog is divided into several sections. The "Network Type" section has three radio buttons: "Ethernet" (selected), "Token Ring", and "Other". To the right of this section are "OK" and "Cancel" buttons. The "Default Ports" section contains a dropdown menu set to "BOOTP" and a text box containing "67". Below these is a radio button labeled "Force Use of These Ports". The "Ping Timeout" section has a spin box set to "4" and a radio button labeled "Sound".

Options ? X

Network Type

☒ Ethernet

☐ Token Ring

☐ Other

OK

Cancel

Default Ports

BOOTP 67

☐ Force Use of These Ports

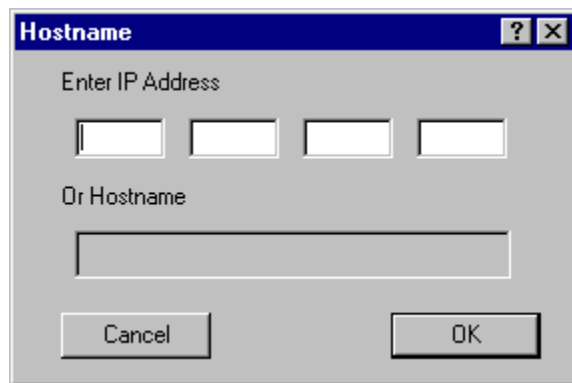
Ping Timeout 4

☒ Sound

Options Dialog Box

The Options Dialog Box

Host Name Dialog Box



A screenshot of a Windows-style dialog box titled "Hostname". The dialog box has a blue title bar with a question mark icon and a close button (X). The main area is light gray. It contains two input sections: "Enter IP Address" with four small text boxes, and "Or Hostname" with a single larger text box. At the bottom, there are two buttons: "Cancel" on the left and "OK" on the right.

Hostname

Enter IP Address

Or Hostname

Cancel OK

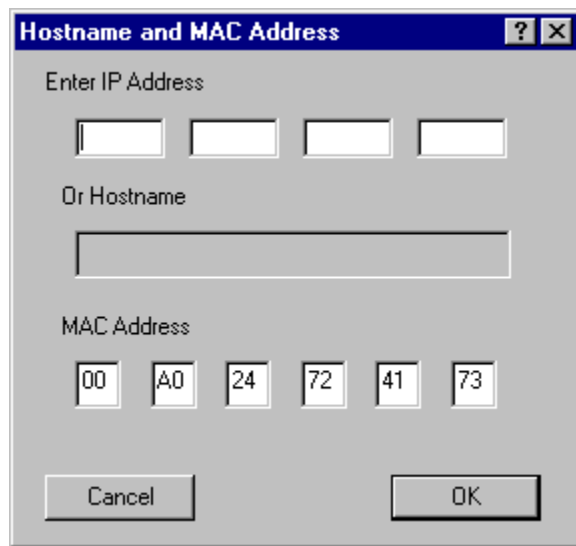
Host Name Dialog Box

The Host Name Dialog Box

MAC Address

Enter the unique ID of your network adapter e.g. 00:A0:73:24:0A:72

Host Name and MAC Address Dialog Box



The dialog box is titled "Host Name and MAC Address" in a blue header bar. It contains three input sections: "Enter IP Address" with four separate text boxes, "Or Hostname" with a single wide text box, and "MAC Address" with six individual boxes containing the values 00, A0, 24, 72, 41, and 73. At the bottom are "Cancel" and "OK" buttons.

Host Name and MAC Address

Enter IP Address

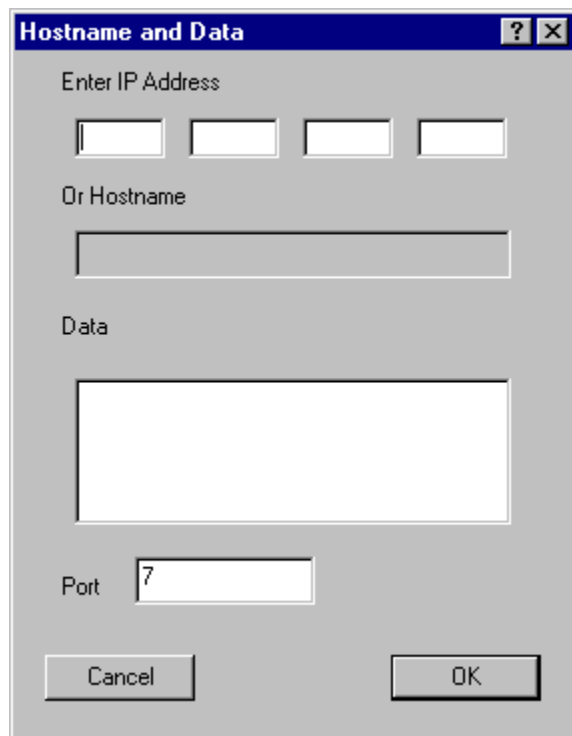
Or Hostname

MAC Address

00 A0 24 72 41 73

Cancel OK

Host Name and Data Dialog Box



The dialog box is titled "Hostname and Data" in a blue header bar. It contains three main sections: "Enter IP Address" with four small input boxes, "Or Hostname" with a single text box, and "Data" with a large text area. At the bottom, there is a "Port" label next to a text box containing the number "7", and two buttons labeled "Cancel" and "OK".

Hostname and Data

Enter IP Address

Or Hostname

Data

Port 7

Cancel OK

Data

Enter the message string to be sent in the datagram.

DNS Dialog Box

The image shows a 'DNS Query' dialog box with a blue title bar containing a question mark and a close button. The dialog has a light gray background. It contains the following elements:

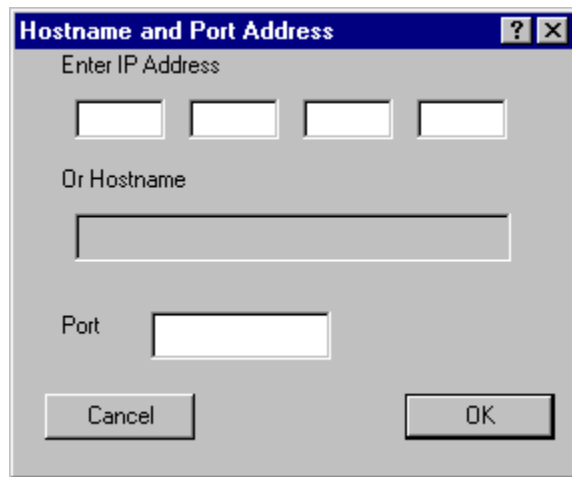
- Enter IP Address:** A label followed by four small, empty rectangular input boxes arranged horizontally.
- Or Hostname:** A label followed by a single, wider rectangular input box.
- Data:** A label followed by a large, empty rectangular text area.
- Query Type:** A label followed by a dropdown menu showing the letter 'A'.
- Buttons:** 'Cancel' and 'OK' buttons located at the bottom left and right respectively.

DNS Query

Enter the query to be made e.g. www.microsoft.com

Query Type
Enter the type of DNS query to be made.

Hostname and Port Dialog Box



The image shows a standard Windows-style dialog box titled "Hostname and Port Address". The title bar is blue with a question mark icon and a close button (X). The main area is light gray. It contains three input fields: four small boxes for an IP address, a single larger box for a hostname, and a single box for a port number. The labels "Enter IP Address", "Or Hostname", and "Port" are positioned to the left of their respective input fields. At the bottom, there are two buttons: "Cancel" on the left and "OK" on the right.

Hostname and Port Address ? X

Enter IP Address

Or Hostname

Port

Cancel OK

Port Number

Enter the number of the UDP port to receive on.

Previous Record

Display the previous message or datagram received.

Next Record

Display the next message or datagram received.

