

Surveyor

Quick Start

Shomiti Systems, Inc.


P/N 750-00173-0002 Rev. A

Surveyor Quick Start

Installing Surveyor

1. Remove previous versions of Century LAN Analyzer or Surveyor. Save any Name Tables, Capture Filters, or Capture Files to a new directory before you begin the new installation.
2. Install the Surveyor Software. Insert the Surveyor CDROM into your CDROM drive. On most Windows 95/98 or NT systems an install screen will be displayed after a few seconds. Select the install option. If this screen does not display automatically, double-click the **My Computer** icon on your desktop and select your CDROM drive. Double-click **autorun.exe** to bring up the install screen.
3. If you have purchased the Surveyor Remote, Packet Blaster, or Expert plug-in, install the plug-ins now. Insert each floppy into your drive and run **A:\setup**.
4. Connect any local Century Media Module or Ethernet adapter to the network.
5. If you are going to use Surveyor to access remote resources, make sure the Surveyor software and the remote plug-in are installed at the remote host and the remote resources are connected to the network. Explorer is already configured for remote use.

Launching Surveyor

1. Launch the Surveyor program. Double-click on the  icon.
2. The first time it is launched, Surveyor will ask you for the ports to scan on the local PC for Century Media Modules (CMMs). Click the buttons of the base memory address of the ports to scan and click **OK**.
3. If you have the Remote plug-in, you can access remote resources. Surveyor defaults to "auto-discover" and will automatically find all remote resources on the local LAN segment. Two default accounts are provided:

Account Name	Password	Privileges
guest	public	full
su	manager	super-user

Use these default accounts to access remote resources or get a user name and password from the owner of the remote resource. When you start up your software, you can change these accounts and set up new accounts if you wish to protect local resources.

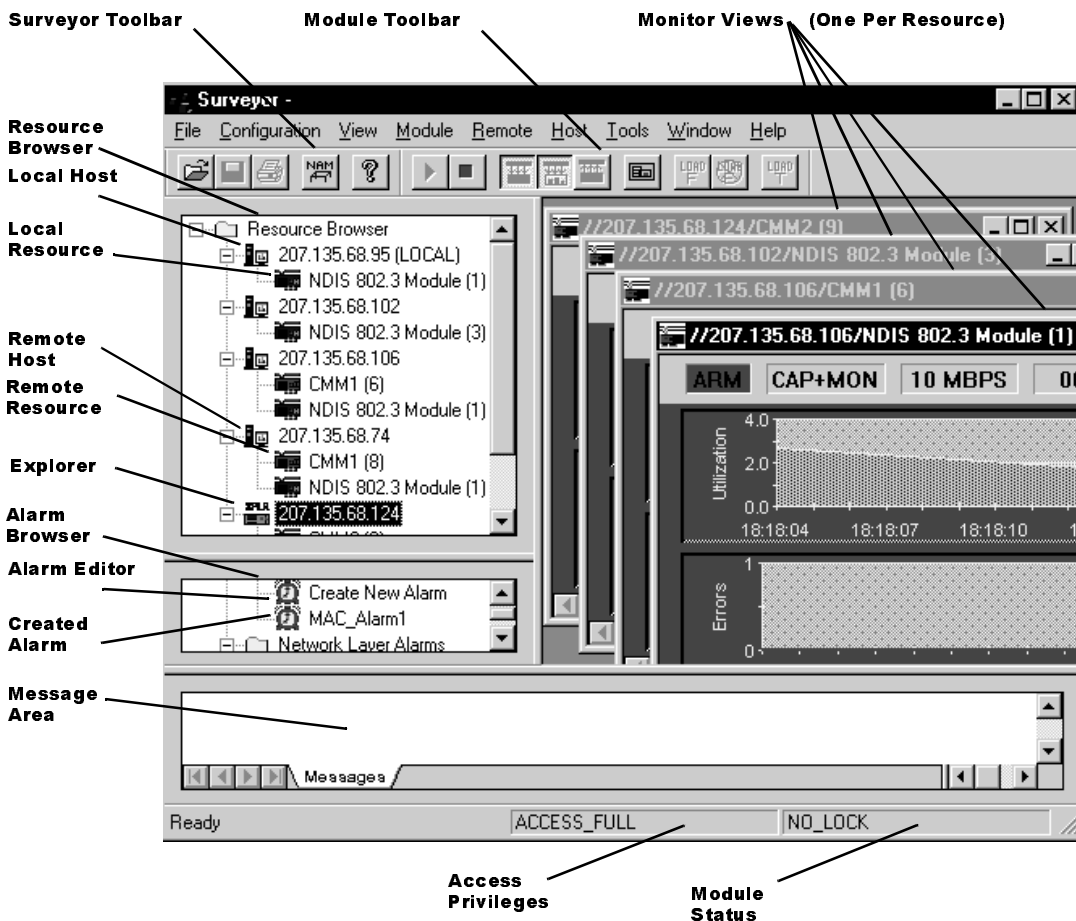
4. Select a Century Media Module or Ethernet adapter.

From the Resource Browser, click on the button that corresponds to the Century Media Module or Ethernet adapter that you want to control with the Surveyor software. The resource can be local or remote. A monitor window appears for the Century Media Module or Ethernet adapter you select.

5. If you selected a Century Media Module, select the port type using the **Module** → **Interface** menu and the port speed using the **Module** → **Interface Mode** menu. **Auto Negotiate** for the interface mode places the resource in auto-detection (10Mbps or 100Mbps) mode.

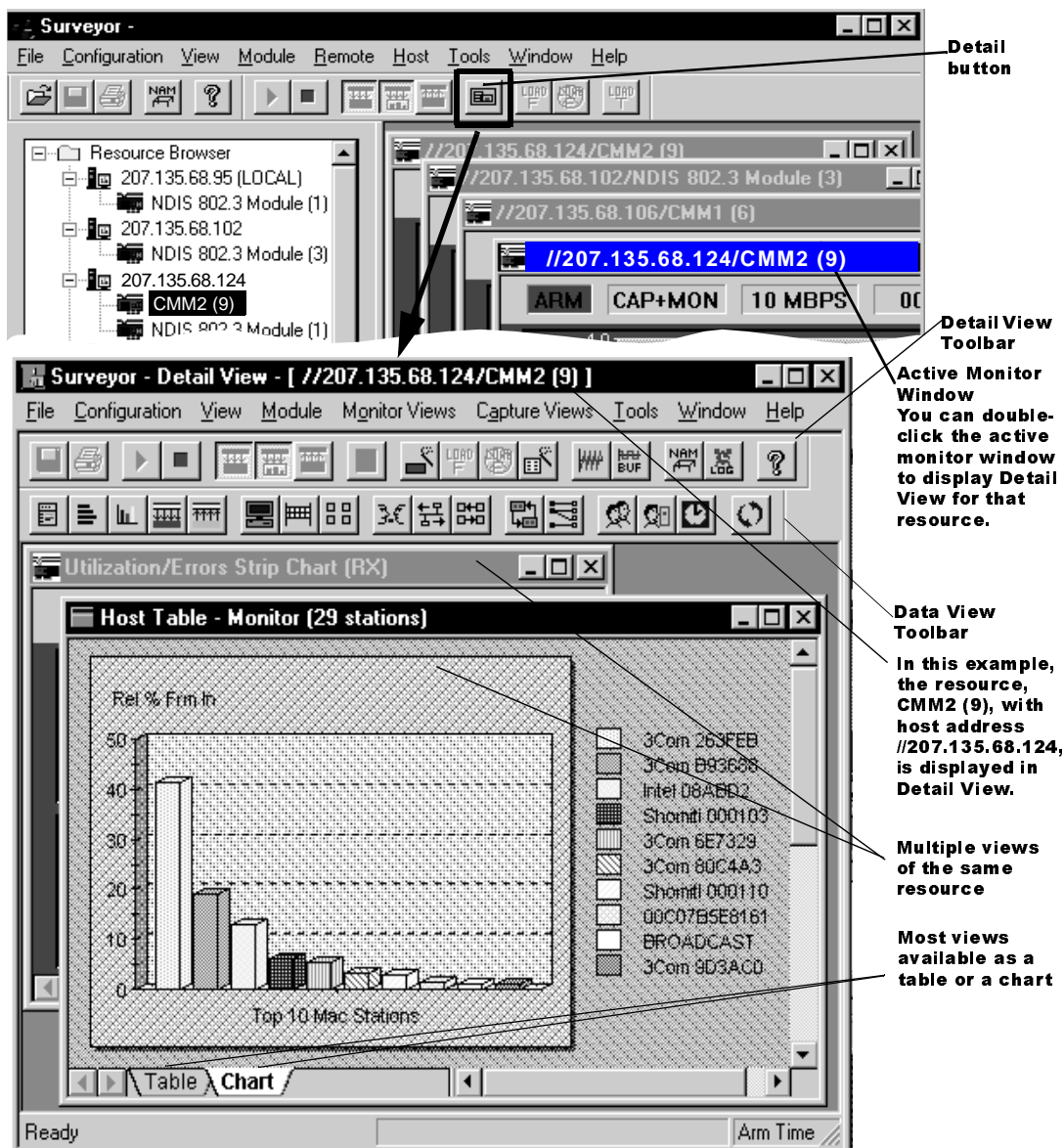
Summary View

Summary View is used primarily for monitoring, as it shows a single view of many different resources. It also contains the docking windows for selecting resources (Resource Browser), setting alarms (Alarm Browser), and viewing system messages (Message Window).



Detail View

Detail View is used to “drill-down” to a single resource. You can look at the data from Detail View in many different ways. To display a resource in Detail View, click on (highlight) the resource icon in the Resource Browser and press the  button.



The image shows two screenshots of the Surveyor software interface. The top screenshot shows the main Surveyor window with the Resource Browser on the left. A resource, CMM2 (9) at //207.135.68.124, is highlighted in the Resource Browser. An arrow points from this resource to the 'Detail' button in the toolbar. Another arrow points from the 'Detail' button to the bottom screenshot. The bottom screenshot shows the 'Surveyor - Detail View' window for the selected resource. It features a 'Utilization/Errors Strip Chart (RX)' and a 'Host Table - Monitor (29 stations)'. The 'Host Table' is displayed as a 3D bar chart titled 'Top 10 Mac Stations'. A legend on the right lists various MAC addresses and their corresponding bar patterns. Annotations with arrows point to specific UI elements in both screenshots.

Detail button

Detail View Toolbar

Active Monitor Window
You can double-click the active monitor window to display Detail View for that resource.



Data View Toolbar
In this example, the resource, CMM2 (9), with host address //207.135.68.124, is displayed in Detail View.

Multiple views of the same resource

Most views available as a table or a chart

Ready Arm Time

Capture View of Capture Buffer

Once you have captured data, press  from Detail View or press  from Summary View to bring up Capture View. Capture View provides a full seven-layer decode of data in a capture buffer or a capture file for analysis. Capture View opens as a window within Detail View.

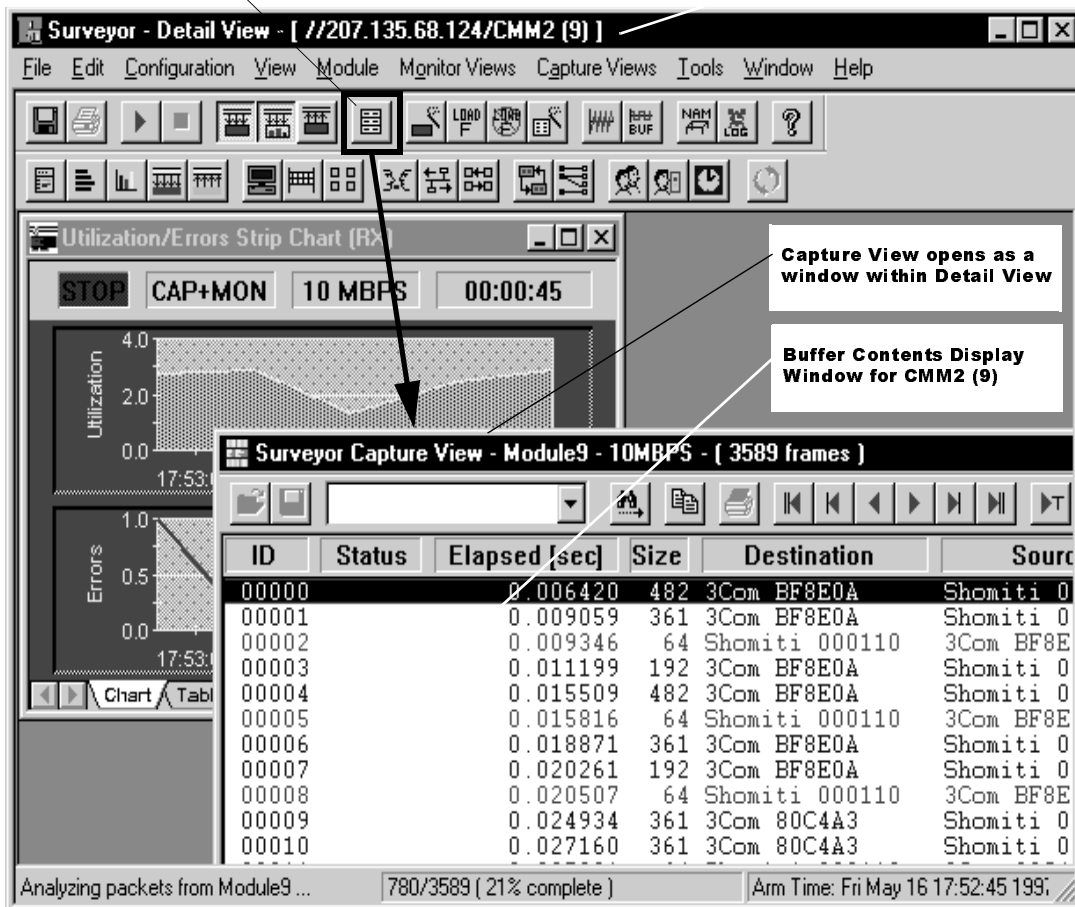
The figure below shows Capture View when accessed from Detail View to view the contents of a capture buffer. Capture View has its own toolbar so you can view captured data in many ways, just as you can view real-time data.

Capture View button

Resource Name and Host Address

Capture View opens as a window within Detail View

Buffer Contents Display Window for CMM2 (9)

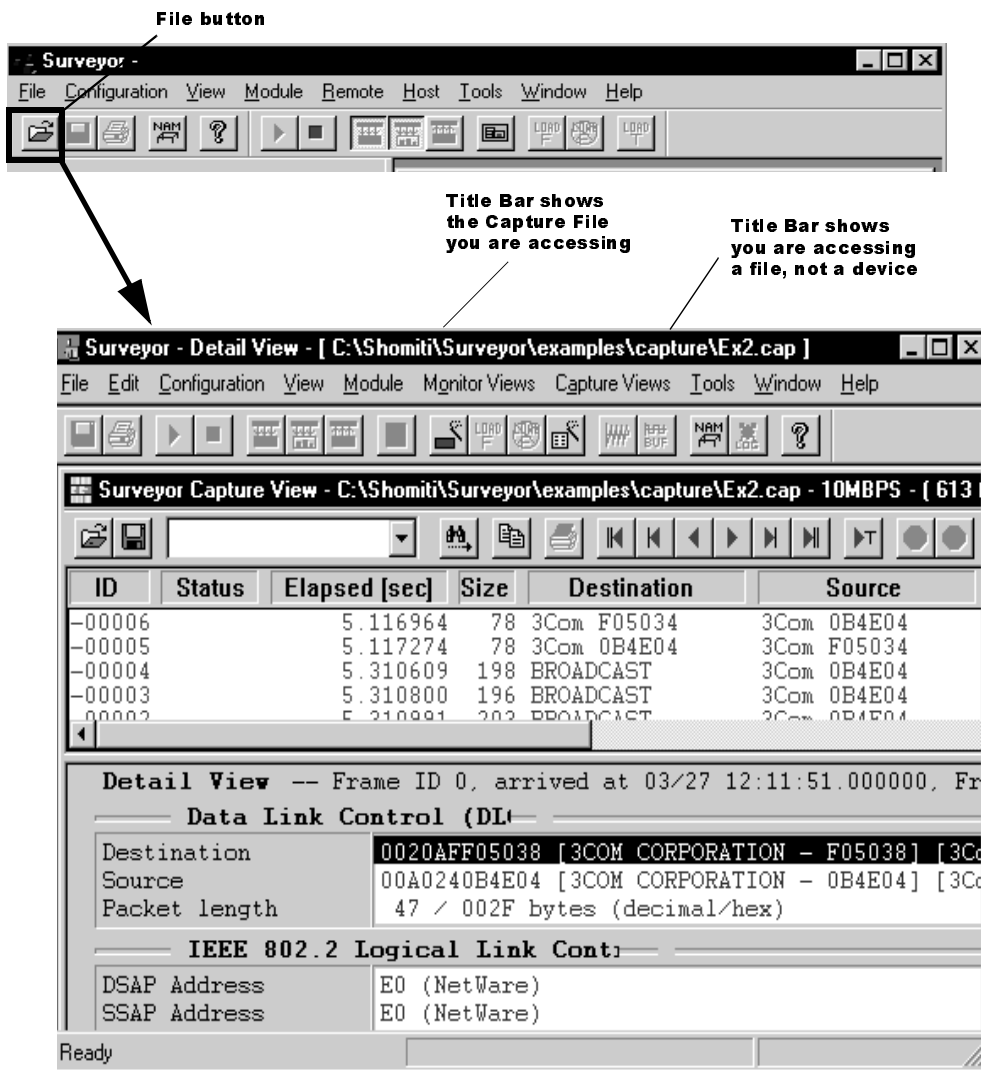


ID	Status	Elapsed [sec]	Size	Destination	Source
00000		0.006420	482	3Com BF8E0A	Shomiti 0
00001		0.009059	361	3Com BF8E0A	Shomiti 0
00002		0.009346	64	Shomiti 000110	3Com BF8E
00003		0.011199	192	3Com BF8E0A	Shomiti 0
00004		0.015509	482	3Com BF8E0A	Shomiti 0
00005		0.015816	64	Shomiti 000110	3Com BF8E
00006		0.018871	361	3Com BF8E0A	Shomiti 0
00007		0.020261	192	3Com BF8E0A	Shomiti 0
00008		0.020507	64	Shomiti 000110	3Com BF8E
00009		0.024934	361	3Com 80C4A3	Shomiti 0
00010		0.027160	361	3Com 80C4A3	Shomiti 0

Analyzing packets from Module9 ... 780/3589 (21% complete) Arm Time: Fri May 16 17:52:45 199

Capture View of Capture Files

The figure below shows Capture View when accessed from Summary View to view the contents of a capture file. The capture file contains previously saved capture information.









Helpful Tips for Getting Started

You'll notice that many of the same functions can be performed from the different windows. This design allows you to perform all the tasks you might expect to do from any one of the major windows without having to go back to a different window.

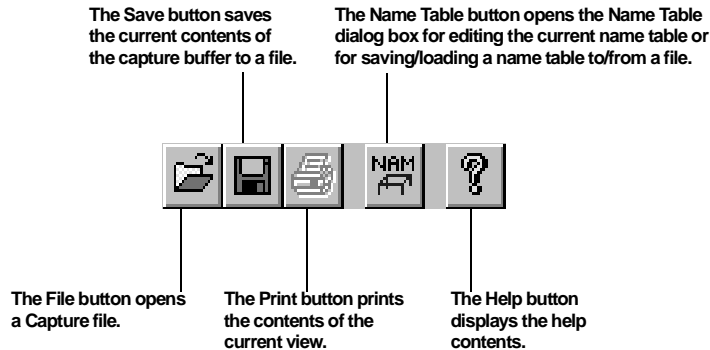
Be sure to check out the hints and tips sections in the help system. There is a hints and tips section for all major functional areas within the product.

Here are ten tips to help you use the Surveyor interface:

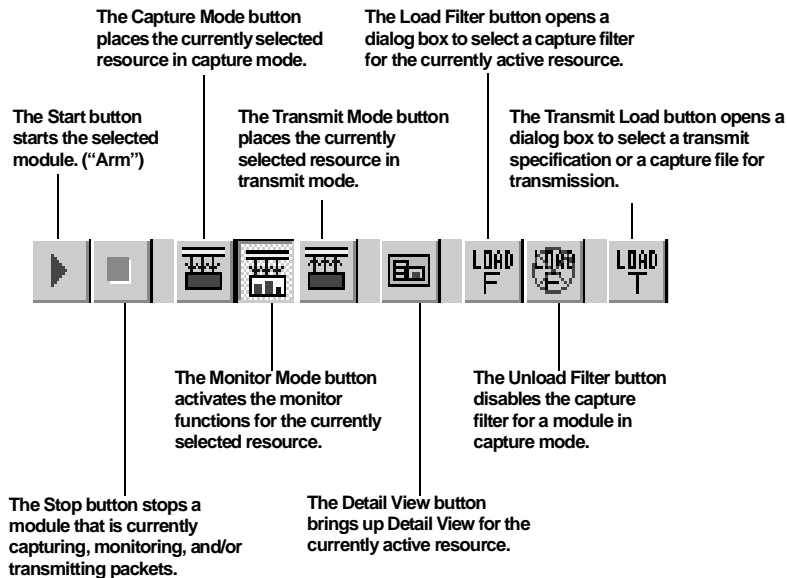
- Click on a resource in the Resource Browser to select that resource.
- Press the  button or double-click with the left mouse button on the view displayed within Summary View to bring up Detail View for a resource.
- Press the  button from Detail View to bring up the Capture Filter window. Use this window to create/edit capture filters.
- Press the  button from Detail View to bring up the Display Filter window. Use this window to create/edit display filters.
- Once a resource is stopped and you have captured data, press the  button in Detail View to bring up Capture View for analyzing packets.
- Press the  button from Summary View to open a previously saved capture file and bring up Capture View.
- Use the buttons in the Data Views toolbar to open many views of the same resource within Detail View.
- Double-click on an alarm editor in the Alarm Browser to create an alarm group.
- Once the alarm group is created, drag and drop a resource from the Resource Browser onto an alarm group to assign the alarm group to that resource.
- If you have the Packet Blaster plug-in, use the  in Detail View to bring up the Transmit Specification dialog box to create data streams for transmit.

Buttons and Toolbars

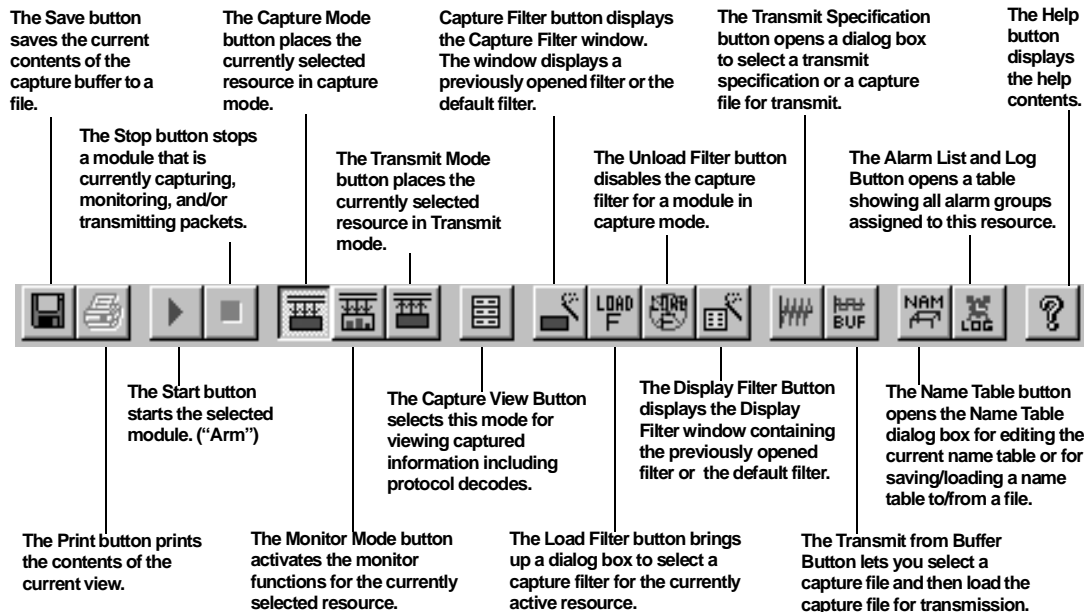
Surveyor Toolbar



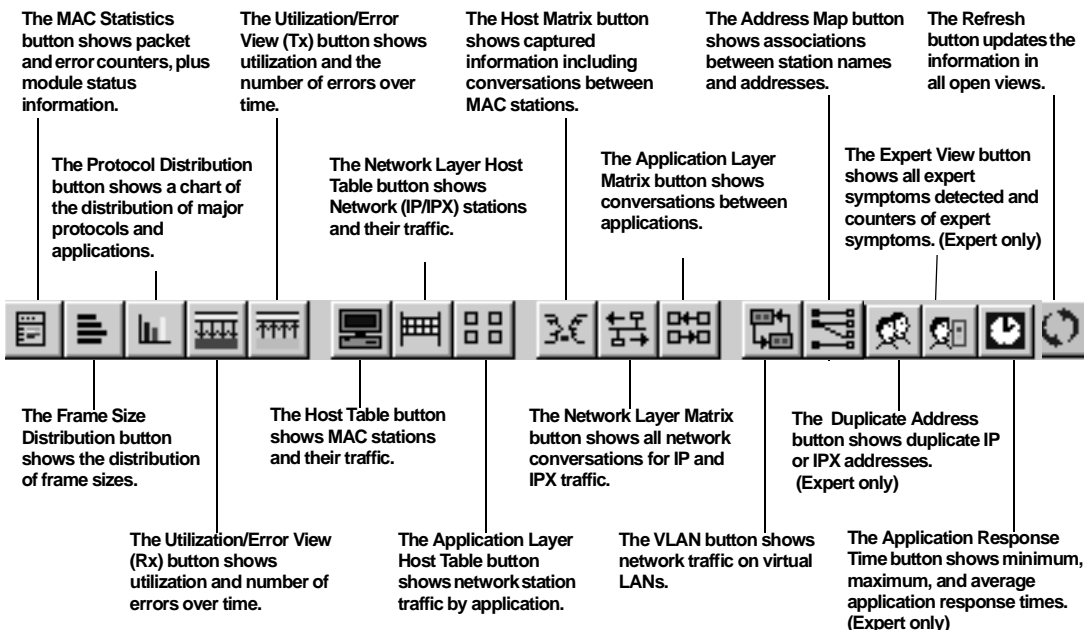
Module Toolbar (Summary View)



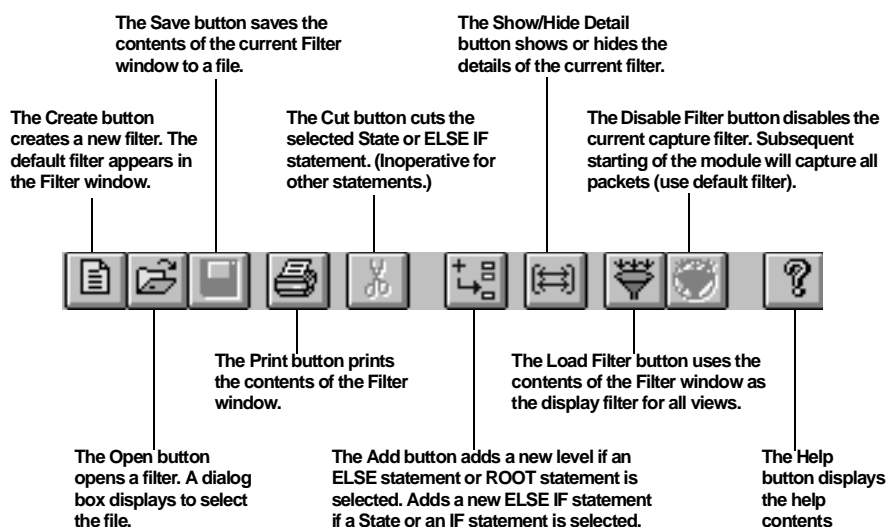
Detail View Toolbar



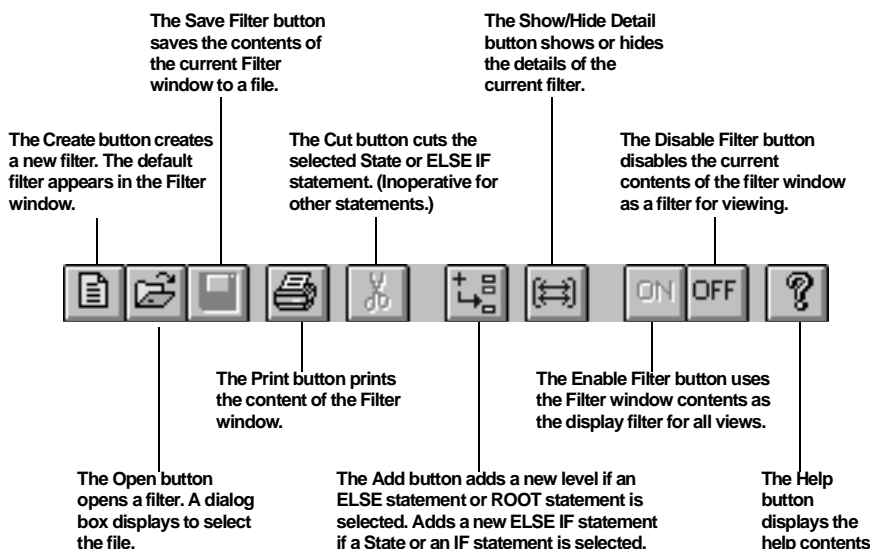
Data Views Toolbar



Capture Filter Toolbar



Display Filter Toolbar



Capture View Toolbar

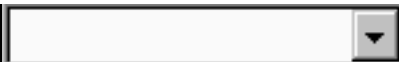
The Open File button opens a capture file.



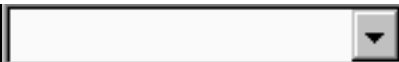
The Save File button saves the current contents of this view to a file.



The Search button searches the capture file contents for the string indicated in the Search box (at left).



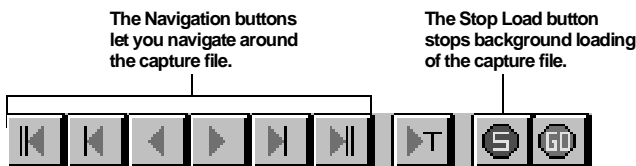
The Search box lets you specify a search text string. Press the Search button (at right) to start the text string search.



The Print button prints the currently selected lines in the summary pane.



The Copy button displays (ASCII text) the contents of the Summary pane, then copies selected text for pasting into other documents.

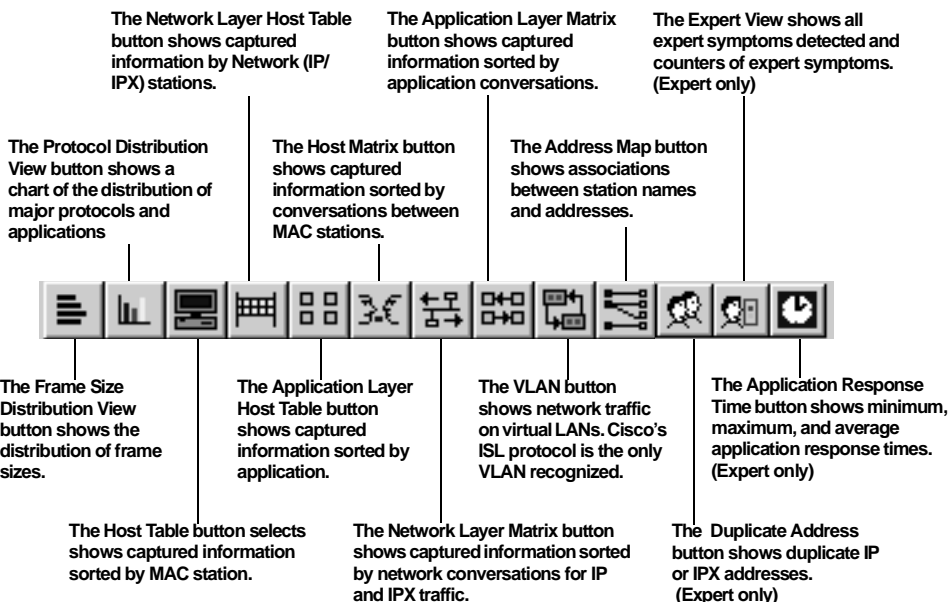


The Navigation buttons let you navigate around the capture file.

The Stop Load button stops background loading of the capture file.

The Go To Trigger button moves you to the Trigger Buffer Position in the capture file or, if no Trigger Buffer Position is set, to the first captured frame.

The Resume Load button resumes the background loading of the capture file to Capture View.



The Protocol Distribution View button shows a chart of the distribution of major protocols and applications

The Network Layer Host Table button shows captured information by Network (IP/IPX) stations.

The Application Layer Matrix button shows captured information sorted by application conversations.

The Expert View shows all expert symptoms detected and counters of expert symptoms. (Expert only)

The Host Matrix button shows captured information sorted by conversations between MAC stations.

The Address Map button shows associations between station names and addresses.

The Frame Size Distribution View button shows the distribution of frame sizes.

The Application Layer Host Table button shows captured information sorted by application.

The VLAN button shows network traffic on virtual LANs. Cisco's ISL protocol is the only VLAN recognized.

The Application Response Time button shows minimum, maximum, and average application response times. (Expert only)

The Host Table button selects shows captured information sorted by MAC station.

The Network Layer Matrix button shows captured information sorted by network conversations for IP and IPX traffic.

The Duplicate Address button shows duplicate IP or IPX addresses. (Expert only)

Function Keys

Function keys perform different operations depending on the window they are used from.

Key	<i>Summary View</i>	<i>Detail View</i>
F1	Help	Help
F2	System Settings	Capture View Display Options
F3	Module Settings	Module Settings
F4	Module Monitor View Preferences	Create Display Filter
F5	Connect to Remote	Create Capture Filter
F6	Load Capture Filter	Load Capture Filter
F7	Open Capture File	Expert Summary View
F8	Save Capture	Save Capture
F9	Go to Detail View	Capture View
F10	Start/Stop	Start/Stop
F11	N/A	N/A
F12	N/A	N/A

Other Shortcuts...

Alt + F4	Close Window
Ctrl + O	Open
Ctrl + S	Save
Ctrl + T	Start Module
Ctrl + P	Stop Module
Ctrl + R	Go to Detail View

Getting Information

ON-LINE HELP SYSTEM	Use the on-line help for complete information on using Surveyor, including task descriptions.
USER'S GUIDE	See the Surveyor's User's Guide for information in hard copy about Surveyor.
README NOTES	See the readme file included with Surveyor for late-breaking news and specific information on NDIS adapters supported by Surveyor.
SHOMITI WEB SITE	Go to www.shomiti.com for information on other products, product updates, and answers to support questions.
CUSTOMER SUPPORT	Call (408) 437-4059 if you need more help than the help system can provide.