

Chapter 3

Server Information

This chapter describes how to set up the system information list for the station and how to detect available servers to be monitored by the ASM-Station.

- **System Listing.** Displays a list of servers currently monitored by the ASM-Station, including server information (such as operating system type and the IP or IPX address).
- **Auto Discovery.** Is a tool for discovering existing servers currently available for monitoring. Used to add or delete available servers for ASM-Station to monitor. This screen automatically displays the first time you run ASM Pro. After the first time, you can access Auto Discovery by clicking on the **Auto Discovery** icon or selecting **Setup** ⇒ **Auto Discovery**.

3.1. System Listing

The System Listing displays information about servers currently monitored by the ASM-Station. System Listing appears each time you run ASM-Station. It shows you the currently monitored servers and some information about them like their operating system and IP or IPX addresses. This screen appears blank if no servers have been added for monitoring.

System Name	Operating System	Protocol	Address	Has trap
MVS/SE RVER	Netware	IPX	abod#5d 00000000...	N/A
0a9a#1 4#5 00000000...	Unknown	IPX	0a9a#1 4#5 00000000...	N/A
009a#100 00000000...	Unknown	IPX	009a#100 00000000...	No

3.1.1 Moving Around System Listing

The System Listing can be sorted by clicking the column bars. For example, if you click on **System Name**, the system names will be arranged in alphabetical order. You can sort other columns in the same way.

The System Listing also displays information about each server, such as its operating system, protocol, and address.

A colored server symbol at the left of each server name indicates the status of the server. From time to time the color of these symbols might change. This is due to the performance and condition of each server being monitored.



If you wish to monitor more specific information on a server, you must first use the mouse or arrow key to highlight that server on the System Listing screen.

3.1.2 Server Symbols

One of the symbols shown below (Server Box or Question Mark) appears to the left of each server name.



Server Box. A server box indicates that the server is connected in band via ethernet or out of band via modem. The link is automatically initiated once the server is added to the System Listing for in band connection. For out of band connection, the link is initiated by clicking on the Dial submenu of the OOB toolbar once the server is added to the System Listing.



Question Mark. The Agent and Station are incompatible with each other, due to different versions of ASM being used or the server being monitored is shut down or not operating.



This symbol always appears in red, since the server is not connected to the ASM-Station.

3.1.3 Server Status

The first symbol (Server Box) can appear in any of three different colors. These colors represent:

- **Green.** A green color indicates that the communication link between the agent and monitoring station is up and running.
- **Yellow.** A yellow color indicates that ASM-Station did not receive a handshake from the agent server within a time period (possibly due to heavy network traffic, a network error, or the server is busy).
- **Red.** A red color indicates that the communication link between ASM-Station and ASM-Agent is down.

To view server information, first highlight a server from this list, then choose the menu command or toolbar button of a particular area of the server you want to view.



*If the status of the selected (highlighted) server is not up (green color), all toolbar buttons except the **Auto Discovery** button are disabled (grayed out).*

3.1.4 Trap Availability

This is displayed as the last column under Has Trap on the System Listing screen.

- **Yes.** ASM-Station can receive traps from the server.
- **No.** ASM-Station cannot receive traps from the server.
- **N/A.** Trap handling mechanism is unavailable in the server.



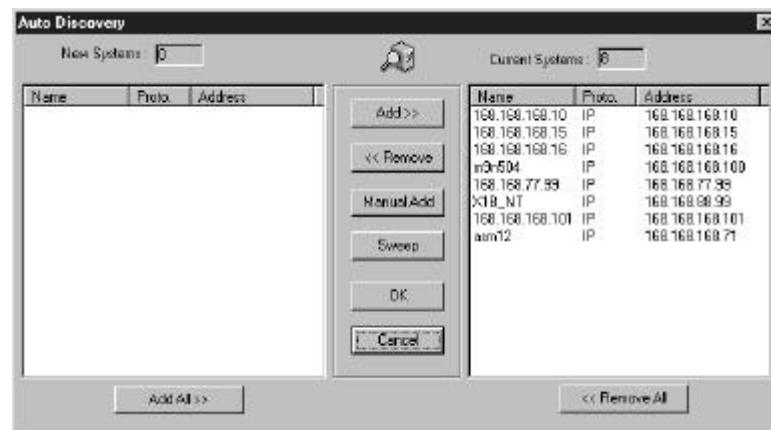
If you want the ASM-Station to receive traps from a specific server, you have to add the IP address of that station to the SNMP trap list of that server. You can use the `asmconfig` utility provided by ASM Pro on the server side. See “ASM Pro Utilities” in Chapter 7.

3.2. Auto Discovery



You will see the Auto Discovery window if you are running ASM Pro for the first time.

Auto Discovery lets you add servers to the System Listing. By clicking the **Auto Discovery** icon (or by choosing **Setup -> Auto Discovery**) you will see the Auto Discovery screen. You will also notice that it will detect servers available for monitoring and displays them in the left window under New systems. The New System counter tells you how many servers were found.



The ASM-Station uses two protocol types to monitor servers:

- **IPX.** IPX is used for NetWare servers. IPX protocol is automatically detected by ASM Pro.
- **IP.** IP protocol is used for Windows NT, SCO OpenServer, and SCO UnixWare. The IP protocol is automatically detected by ASM Pro.



*IPX and IP protocols are automatically detected by ASM Pro (Class C subnet only). You can manually add (**Manual Add**) IP addresses. Please refer to 'Manual Add' later in this chapter for more information.*

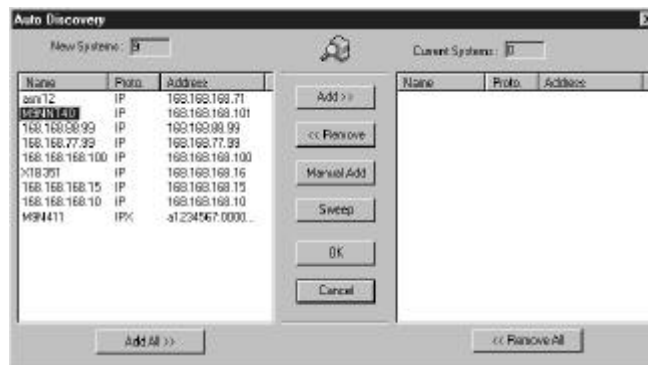
3.2.1 Adding an IPX or IP Server

ASM-Station will detect NetWare, SCO OpenServer, SCO UnixWare, and Microsoft Windows NT servers on your network and displays them on the left side of this dialog box. It also displays the protocol and the address of each server. The counter above this box called New Systems counts how many servers are available for monitoring.

ASM-Station displays each server according to when the connection was established. Therefore, the order in which the servers are listed may vary each time you open this dialog box.

To add a server from the New System list to the Current systems list:

1. Click on the name of an agent you want to manage from the New System list.



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2. Click the **Add** button to include the agent in the Current System list.
 3. The machine you just selected now appears under the Current System list. Click the **OK** button.

The machine you just selected now appears in the System Listing screen.

4. Repeat steps 1, 2, and 3 if you want to add more systems. When you have finished adding systems, click OK.



*Use the **Add All** button to add all systems from the New System list to the Current System list.*

If the agent does not appear on the New System list, use the "Manual Add" option, then type in the IP address. See "Manual Add" later in this chapter for details.

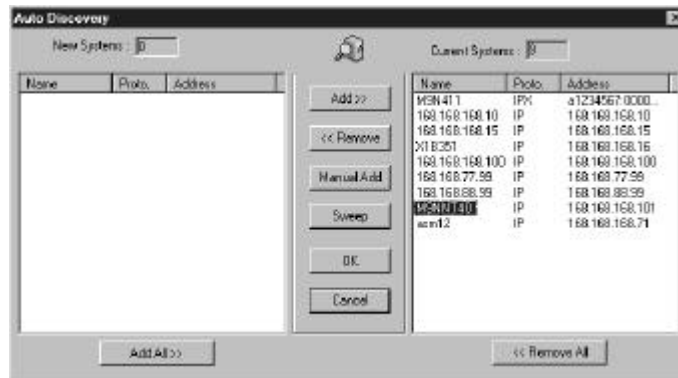
The color of the server symbol to the left of the server name appears red at first. The color changes to yellow during the initialization process, then to green when finished initializing. If the color does not turn green, an error has occurred.

3.2.2 Removing an IPX or IP Server

You can easily remove a server from the Current System list if you do not want to monitor that particular server.

To Remove a Server:

1. Click on the name of the server you want to remove.



2. Click the Remove button. You will notice that the server you specified is now in the New System list.



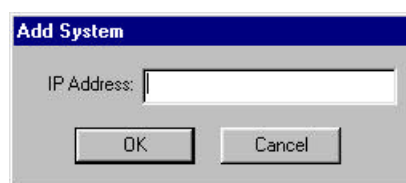
Use the **Remove All** button to remove all systems from the Current System list.

3.2.3 Manually Adding a Server

You can manually add a server by directly typing in the IP address of that server.

To add an IP address manually:

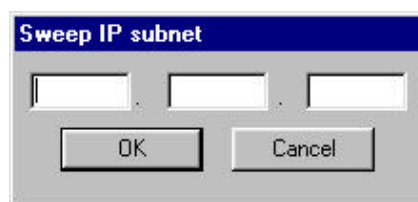
1. In the Auto Discovery window, click **Manual Add**. The Add System window displays.



2. Type in the IP address of the system you plan to monitor and click **OK**. If the address is available, it will show in the Current System list.

3.2.4 Sweep

Sweep finds any available server using the first three address blocks to locate the server. If you want to monitor a server but do not know the complete address, you can try using sweep to find it for you. Enter the first three address blocks for the server and click **OK**. If sweep doesn't find any address matching the first three you entered, it does not display anything. If it finds a match, the server is displayed in the New System list.



3.2.5 Out of Band Server for NetWare

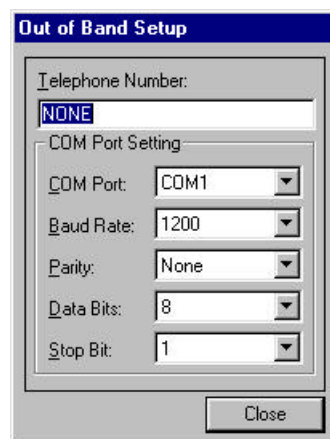
It may sometimes be necessary to remotely monitor an agent through a modem (for example, when the network connection is down).



Windows NT uses RAS (Remote Access Service) for Out of Band servers. Out of Band is not supported in SCO OpenServer due to an operating system limitation.

To monitor a Novell server through an Out of Band Connection:

1. Select **QOB** from the menu bar at the ASM-Station. Click **Insert**. The Out of Band Setup screen will display.



2. Type the telephone number in the Telephone Number field.
3. After you fill in all the information in this window, click **Close**. The out of band connection automatically uses the standard interface protocol provided by the operating system.

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4. The machine you just selected now appears in the System Listing.
 5. At this point, all the toolbar buttons appear grayed out for this out of band server. You must select the Dial submenu of the OOB menu to make the connection. Once the station has dialed up successfully to the server, all the toolbar buttons are available. You are ready to monitor this OOB server. (You can select the Hang Up submenu of the OOB menu to close the connection.)



Only one remote connection can be established at a time.

For the out of band connection to work, you must configure the OOB at the server site. Refer to “asmcfg for NetWare” in Chapter 7, ASM Pro Utilities, for information about configuring the Out of Band connection at the server site.

The following explains each Out of Band Setup Dialog Box items:

Telephone Number	Type the telephone number (no separators) in this field to connect to the server's modem.
COM Port	Select the COM port occupied by the modem installed on ASM-Station.
Baud Rate	Select the baud rate for the COM port.
Parity	Select the parity check option for the COM port.
Data Bits	Choose a data bit value for the COM port.
Stop Bit	Specify the number of stop bits for the COM port.

Removing an Out of Band Novell Server

The procedure for removing an Out of Band server is the same as for removing an IPX or IP server. Refer to the "Removing Servers" section earlier in this chapter.

Once the Out of Band server is removed, all of the information in Out of Band Setup is deleted. The ASM-Station will hang up so that the connection between the ASM-Agent and the ASM-Station is closed. The server is automatically removed from the Server Listing.

3.2.6 Out of Band Server for Windows NT

The remote access service (RAS) connection can be used to connect your monitoring station to a Windows NT server. In order to use the RAS connection, you must install the RAS software on the station and server. Refer to your Windows 95 and Windows NT manual for instruction on how to install and configure RAS.

Once RAS is configured, you must go to the Dial-Up Network folder to make the connection. Follow the steps below:

1. Exit ASM Pro from the station.
2. From the station, click on the **My Computer** folder. You will see the Dial-Up Network folder.
3. After the station is connected to the server through the Dial-Up Network folder, you can re-start ASM Pro to monitor your Windows NT server. Everything will be the same as if you were monitoring the server through an Ethernet connection.