

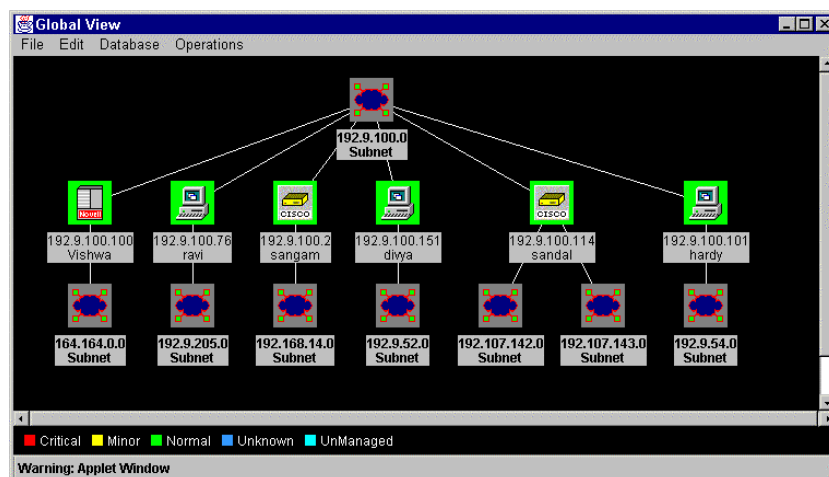
Chapter 3 Network Views

3.1 Dynamic Network View

WebASM supports three types of network views: Global View, Subnet View, and Custom View. All types of views show network devices and their present state (as per the Node database).

3.1.1 Global View

The Global View displays a graphical representation of your network. It shows all the gateways, subnets and links between subnets and gateways in the network. The Global View window is shown below.



The Global View window is automatically opened when you connect to WebASM's home page except when you are using WebASM for the first time. If you are using WebASM for the first time, refer to Chapter 2, Getting Started.

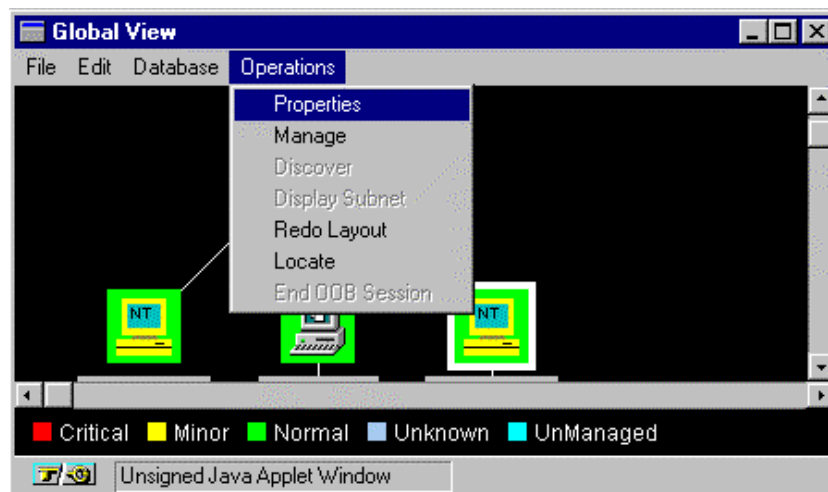
If you closed the Global View and would like to reopen it, you have to click the **Dynamic Network View** button on WebASM's main window and select *Global View* in the dialog box that pops up.



The TAB key can not be used to go to the next field in any of the dialog boxes.

To change and view device properties:

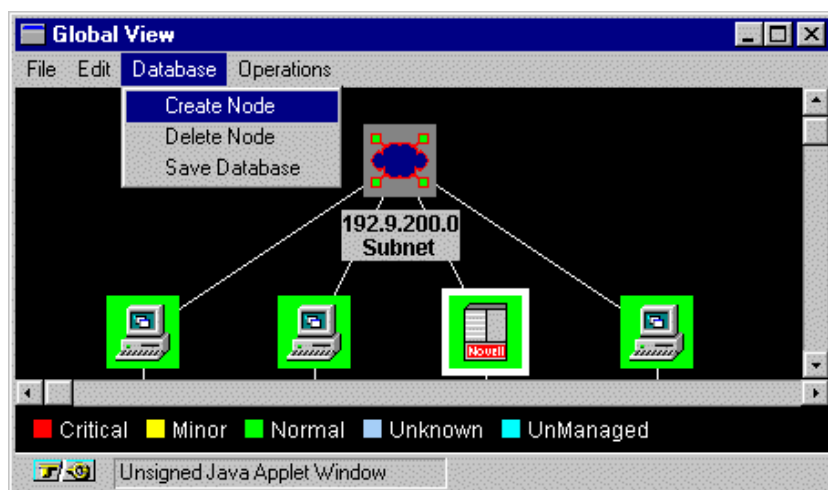
1. Select a device.
2. Select the *Operations -> Properties* option to display the Node Properties window.



3. Press the **Change** button after making the changes to save the information in the database.
4. Press the **Community View** button to modify/view the community string table. For more information on this function, please refer to section 3.6.

To add an SNMP device:

1. Select *Database -> Create Node* from the menu bar.



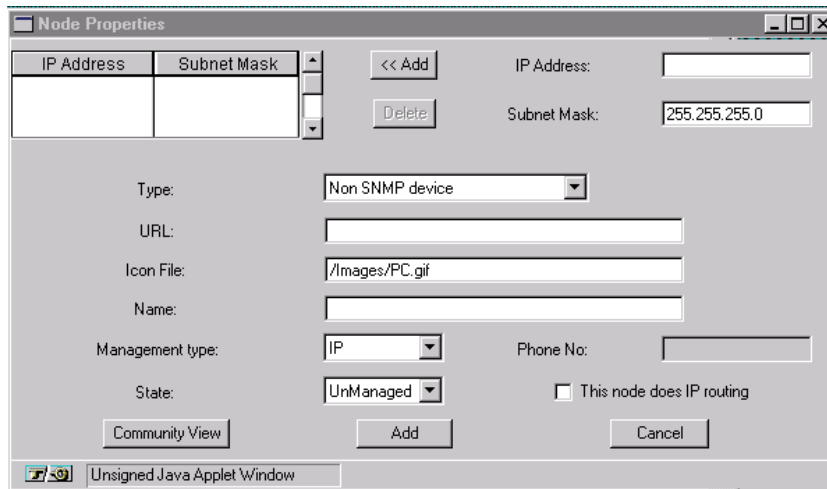
2. Enter the information such as IP address, name and type of the device.

Even though all SNMP manageable devices can be automatically discovered by WebASM, you may need to manually add non-SNMP devices to your database. The state of such a device is *unmanaged* by default.

To add a non-SNMP device:

The IP Address/Subnet Mask of the new device must be indicated. In case the new device is an IP forwarding node, then add entries (IP Addresses) for each interface and click on the checkbox *This node does IP routing*.

If the device happens to be one of the predefined device types, select the correct device type. The URL/Icon File, etc. are picked up from the device defaults configuration. In the case of a new device, give the URL of the management page and the icon file to be used to show this device in network views.

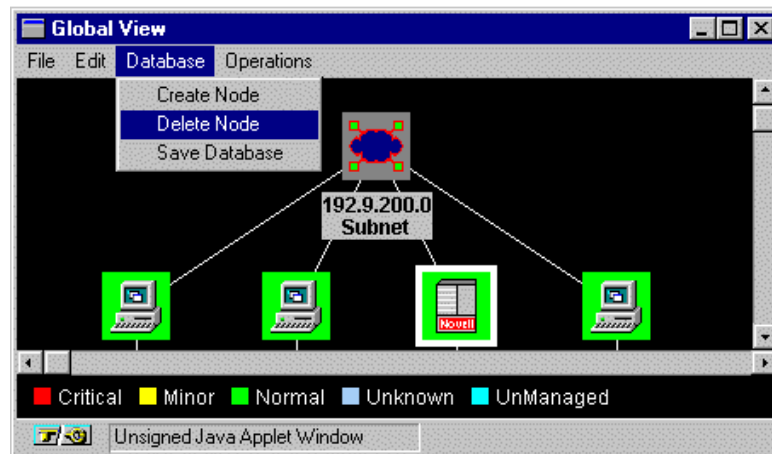


The image shows a Java applet window titled "Node Properties". It contains a table with two columns: "IP Address" and "Subnet Mask". To the right of the table are buttons "<< Add" and "Delete". Below the table, there are several form fields: "Type:" with a dropdown menu showing "Non SNMP device", "URL:" with an empty text box, "Icon File:" with a text box containing "/Images/PC.gif", "Name:" with an empty text box, "Management type:" with a dropdown menu showing "IP", "Phone No:" with an empty text box, "State:" with a dropdown menu showing "UnManaged", and a checkbox labeled "This node does IP routing" which is currently unchecked. At the bottom of the form are three buttons: "Community View", "Add", and "Cancel". The status bar at the bottom of the window says "Unsigned Java Applet Window".

Fill in the form and click the **Add** button to add the device to the database.

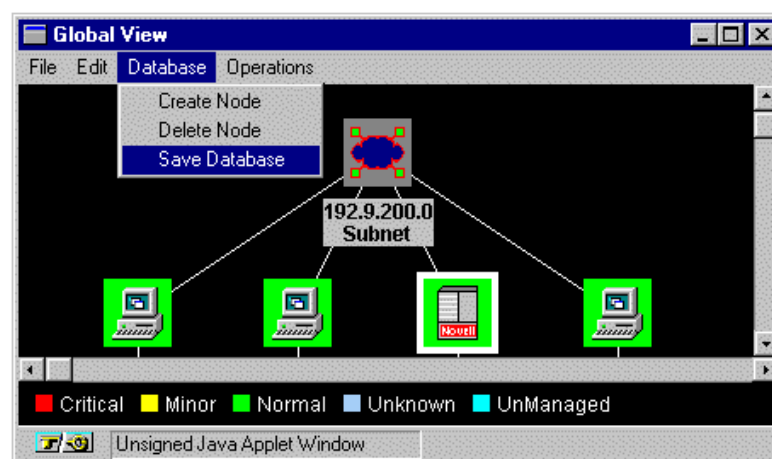
To remove a device:

Select the device to be deleted, then click *Database ->Delete Node*. The node will be deleted.



To save the node database:

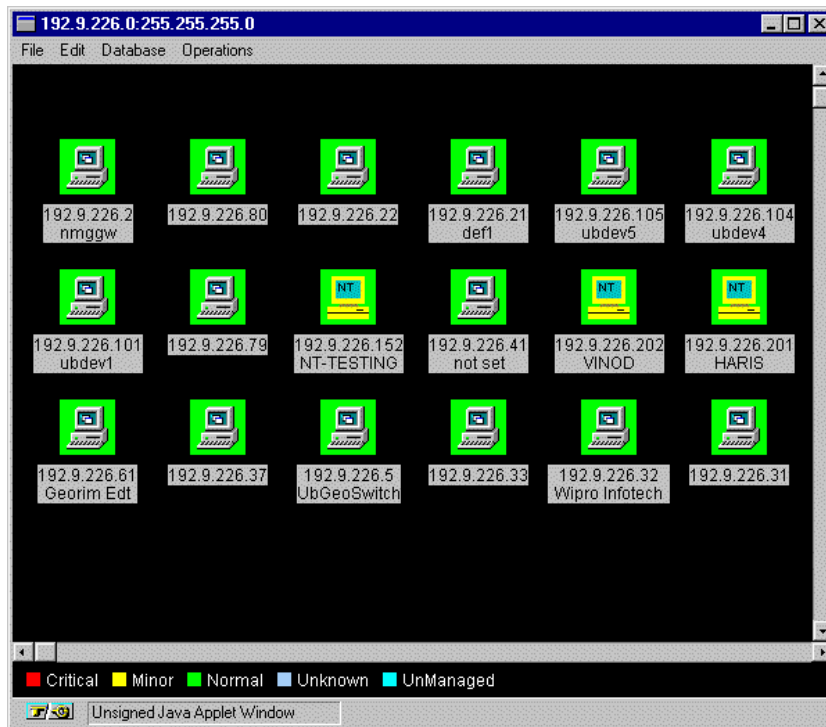
On any view select *Database->Save Database*.



The database is saved to a disk file. WebASM automatically saves the node database at periodic intervals, but it is a good idea to manually save the database before shutting down WebASM.

3.1.2 Subnet View

The Subnet View shows all the devices in a particular subnet. You can open a Subnet View either from the Global View window or directly from the Dynamic View window.



To open a subnet view from the Global View window:

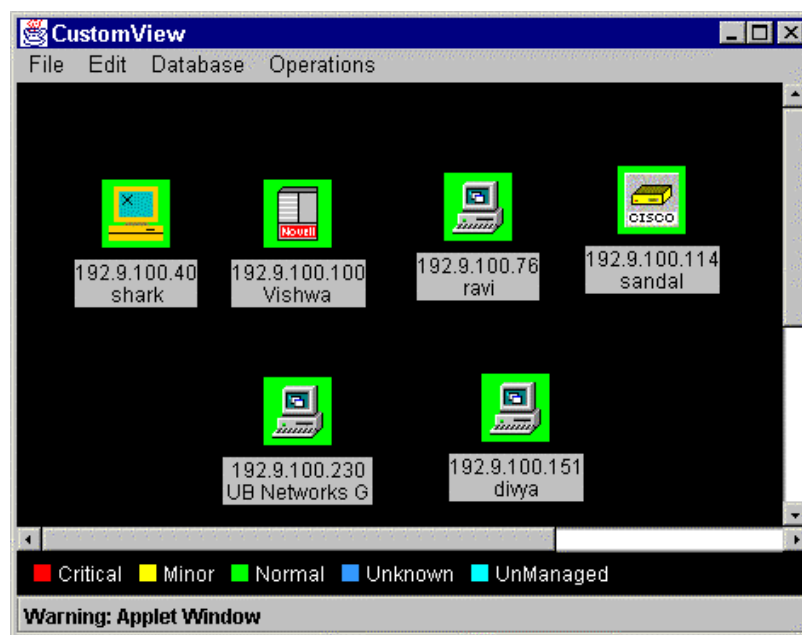
Select the subnet you want to open and select *Operations => Display Subnet* from the menu bar.

To open a subnet view from the Dynamic Network View window:

Press the **Dynamic Network View** button, select *Subnet View* as the view type, select the subnet you want to display and press the **Open** button.

3.1.3 Custom View

The Custom View is a customized user-created view. It gives user more flexibility in handling their devices. Unlike the other two views, you can arrange and display your devices at any position and move them if desired. After creating a Custom View, you have to save it to use it again; otherwise, it will be erased.



To create a Custom View:

1. Click the **Dynamic Network View** button on the WebASM main page.
2. Enter the Custom View file name if you have an existing one and click **Open**.
3. If you don't have an existing Custom View file, then enter a view name and click **Create**. An empty custom view window displays.
4. Construct your customized view by copying device icons from other views and pasting them in the customized view.

3.2 Network View Snapshots

When you are unable to run the network view applet, you can use an HTML snapshot of the network view in its place. You can get a snapshot of the global view by clicking on the **Network View Snapshot** icon on WebASM's main page. This snapshot shows a list of all subnets available to WebASM and the gateways on each of the subnets.

To open a subnet view snapshot: click on the appropriate subnet icon. This snapshot displays all the devices on that particular subnet. From a snapshot you can:

- Manage devices
- Change device properties



To manage a device from the Snapshot view:

Click the device icon you want to manage. This will bring up a new window where you can conveniently manage your server.

To change device properties:

Click the *properties* link shown under the device icon to display/modify properties.

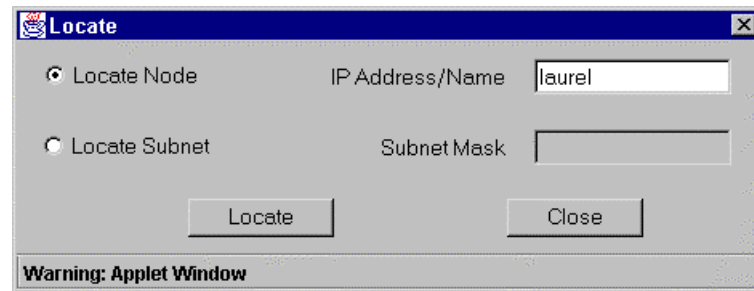
To locate a node in Snapshot view:

Use the browser's Find command.

3.3 Locating a Device/Subnet

To locate a device/subnet in a view:

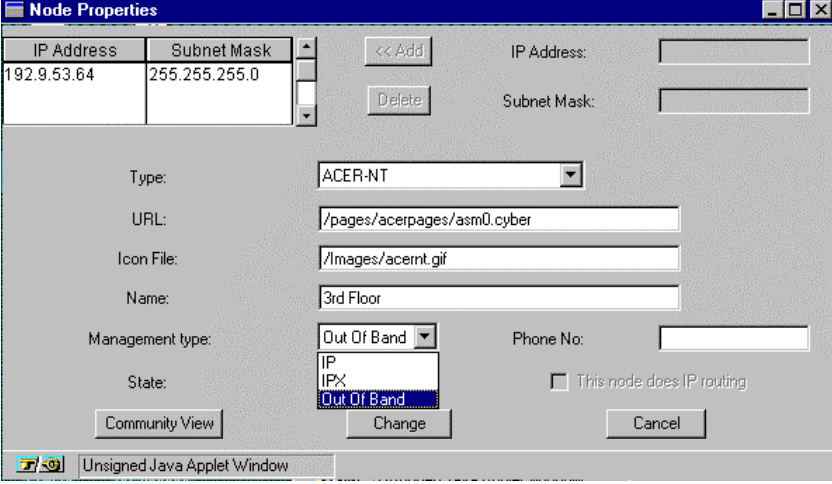
1. Select Operations -> Locate in any view.



2. Enter the device IP address/subnet ID with subnet mask in the dialog box.
3. Press the **Locate** button to locate the device/subnet.

3.4 Out of Band Management

WebASM is capable of Out of Band Management (OOB). A device can be managed this way by setting the property of the device management type to be "Out Of Band" in the Node Properties window, as shown below. This type of management requires a phone number as a parameter for making dial-up connections.



The screenshot shows the "Node Properties" window. At the top, there is a table with two columns: "IP Address" and "Subnet Mask". The first row contains the values "192.9.53.64" and "255.255.255.0". To the right of the table are buttons for "<< Add" and "Delete". Below the table, there are several fields: "Type:" with a dropdown menu set to "ACER-NT"; "URL:" with a text box containing "/pages/acerpages/asm0.cyber"; "Icon File:" with a text box containing "/images/acernt.gif"; "Name:" with a text box containing "3rd Floor"; "Management type:" with a dropdown menu set to "Out Of Band"; "State:" with a dropdown menu showing "IP", "IPX", and "Out Of Band" (which is highlighted); "Phone No:" with a text box; and a checkbox labeled "This node does IP routing" which is unchecked. At the bottom, there are buttons for "Community View", "Change", and "Cancel". The window title bar says "Node Properties". At the bottom of the window, there is a status bar that says "Unsigned Java Applet Window".

When this device is managed using the "Manage" option in the menu, a dialog for username, domain name and password is displayed for making a dial-up connection to the device.



Managing a device using OOB results in the backend establishing a new OOB session. This session has to be terminated using the "End OOB Session" option in the menu, before another session can be established.

3.5 Node Database

WebASM maintains the information of the network in a database that we call the Node Database. This information includes device state, device properties, subnet information, etc.

Property	Description
IP Addresses	IP Addresses and subnet ID of the device
Type	Type of the device
URL	URL of management pages for this device
Icon File	Icon displayed on views is fetched from this file
Name	Name of the device
State	State of the device. The device can be in one of the following states <ul style="list-style-type: none">• Critical• Minor• Normal• Unknown• Unmanaged
Community View	A table which maps SNMP view names to SNMP community strings associated with a device

3.6 Community View

The Community View table describes the MIB views supported by the device and the SNMP community strings associated with them. By default WebASM uses the MIB views *default* and *private*. Default is used for performing SNMP GETs to query the device for values and Private to perform SNMP SETs on the device. Customized Management pages for a device may use additional MIB views which are also listed in this table.

View Name	Community String
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If a MIB view and its community string are not specified in this table, WebASM assumes the community string to be *public*. If the device is configured to have a community string other than *public* for a particular MIB view, you can set up WebASM to use the correct community string by changing the community string for that view. To modify the community string for a MIB view, select the view from the list on the right of this window. Then edit the community string and press the **Add>>** button.

You can also add or delete MIB views using the **Add>>** and **Delete** buttons.

To view or edit the default set of MIB views configured for a device type, use the WebASM Configuration editor to view the default parameters.