CHAPTER 2

System Administrator Command Reference

This chapter is an alphabetical listing of the objects of the WSA System Administration Client. The function and capabilities of each object are described in detail. The objects are as follows:

Audit Schedule

The following sections give detailed information about the **Audit Schedule** object:

- Audit Schedule—Description on page 2-2
- Audit Schedule—Create on page 2-3
- Audit Schedule—Modify on page 2-6
- Audit Schedule—Delete on page 2-8

Audit Schedule—Description

The WSA Control System has the ability to audit the WSA database and compare its contents to the physical network. Discrepancies are logged and can be examined using the audit log dialog in the WSA Explorer Client (refer to *Cisco WAN Server Administrator Client User Guide*). The schedule for performing these audits is modified from the WSA Administration client.

Once scheduled, the WSA Control System audit process compares the following items in the WSA database with those in the physical network:

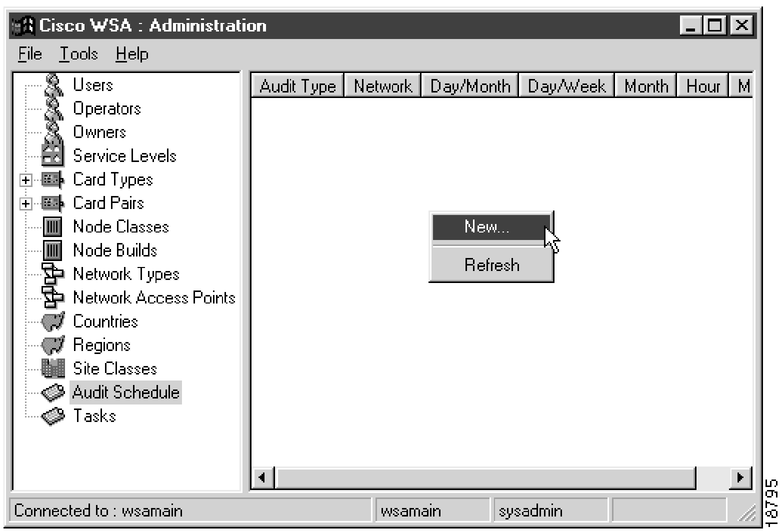
- Cards
- Physical Ports
- Connections
- Trunks

Audits are on a per-network basis and can be run at a certain time every day or on a specific day of the week, month, or year. A single network can have many audits scheduled against it simultaneously.

Audit Schedule—Create

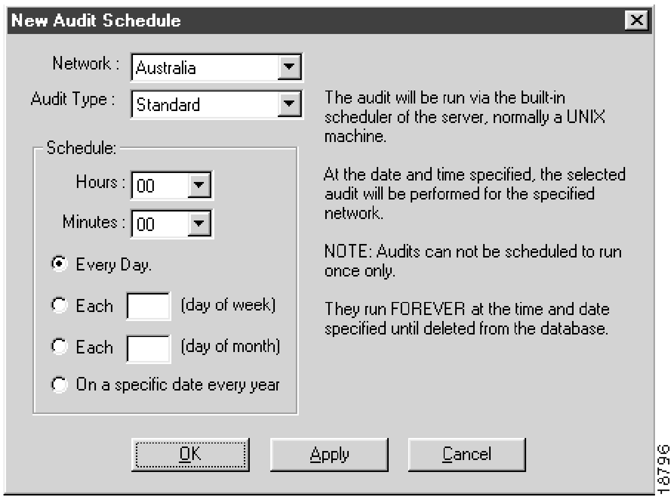
To create a new audit schedule, select **Audit Schedule** in the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-1, "Audit Schedule List".

Figure 2-1 Audit Schedule List



A New Audit Schedule dialog appears, as shown in Figure 2-2, "New Audit Schedule".

Figure 2-2 New Audit Schedule



Select the network for which you want to schedule an audit and then select the type of audit required.

Note The only type of audit available at this time is **Standard**.

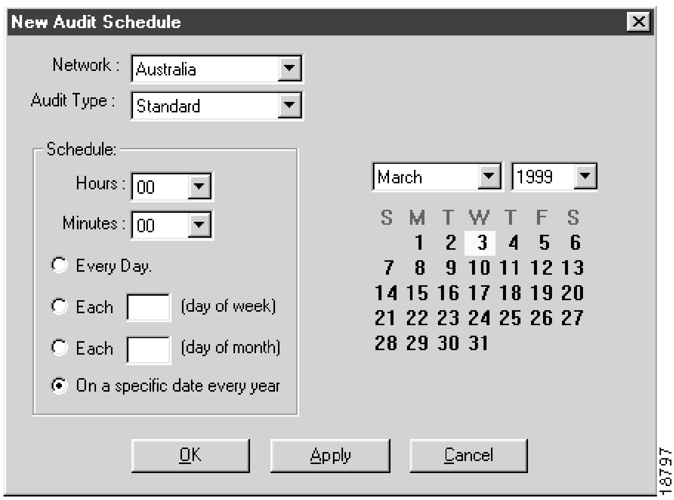
The time for the audit is set using the **Hours** and **Minutes** pull-down boxes. The minute setting is restricted to ten-minute boundaries.

When selecting the day/date of the audit, there are four options:

- Every day
- On a specific day every week (0-6, Sunday= 0)
- On a specific day every month
- On the same day every year

If you choose to run the audit on the same day every year, the dialog displays a calendar on which to indicate the day you want the audit to run this year, as shown in Figure 2-3, "Defining an Annual Audit".

Figure 2-3 Defining an Annual Audit

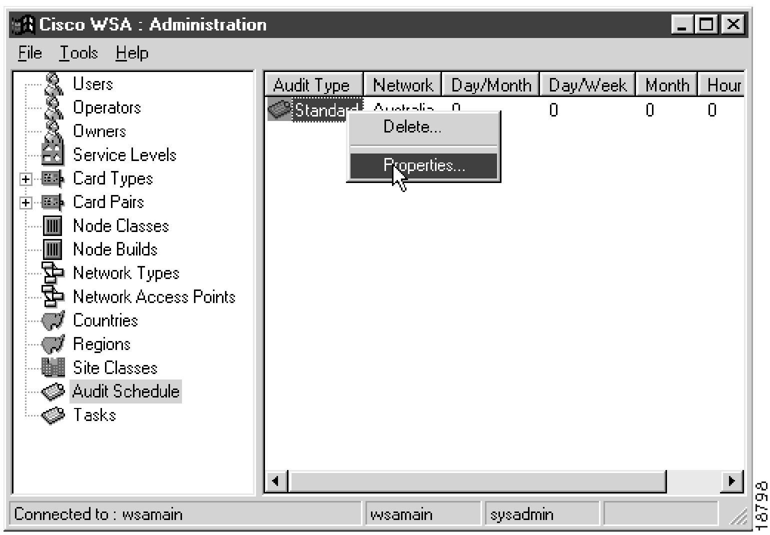


Once you complete the settings for this audit, press **OK** to save the record and close the dialog. If you decide not to create this new audit schedule, press **Cancel** to close the dialog.

Audit Schedule—Modify

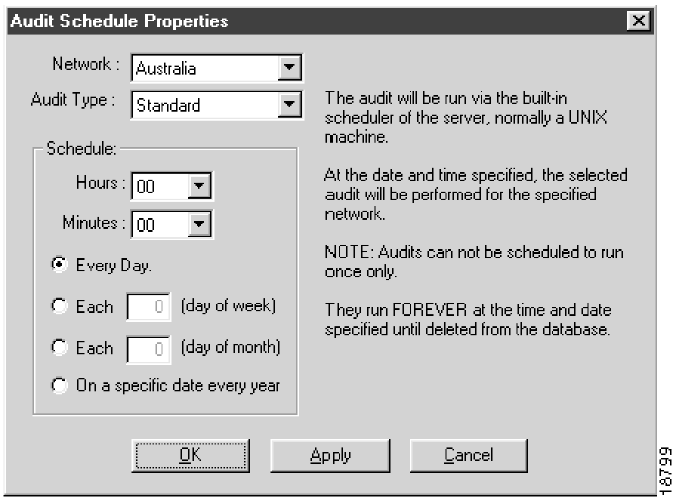
To modify an existing audit schedule, select **Audit Schedule** in the tree view and select the individual Audit Schedule that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-4, "Selecting an Audit Schedule for Modification".

Figure 2-4 Selecting an Audit Schedule for Modification



An Audit Schedule Properties dialog appears, as shown in Figure 2-5, “Audit Schedule Properties”.

Figure 2-5 Audit Schedule Properties



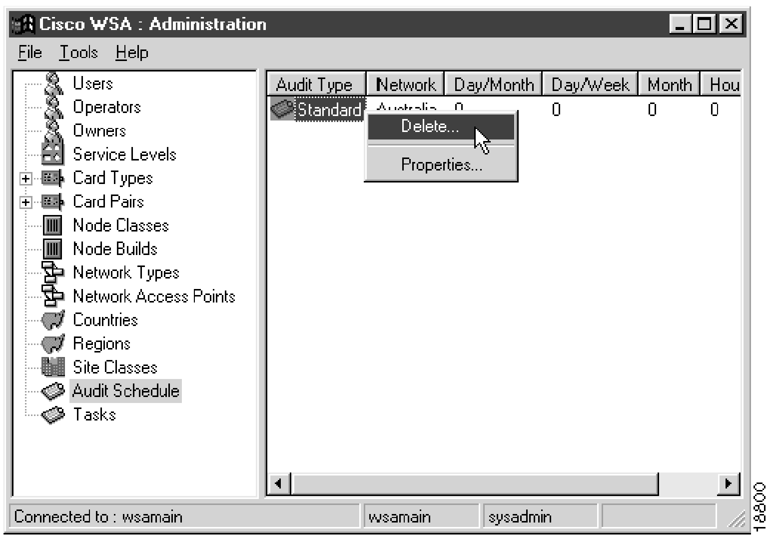
The properties of the audit schedule can be modified as described in the pervious section.

Once you complete the settings for this audit, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Audit Schedule—Delete

To delete an existing audit schedule, select **Audit Schedule** in the tree view and select the individual Audit Schedule that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-6, “Selecting an Audit Schedule for Deletion”.

Figure 2-6 Selecting an Audit Schedule for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the audit schedule; press **No** if you decide not to delete the Audit Schedule.

Card Pairs

The following sections give detailed information about the **Card Pairs** object:

- Card Pairs—Description on page 2-9
- Card Pairs—Listing on page 2-9

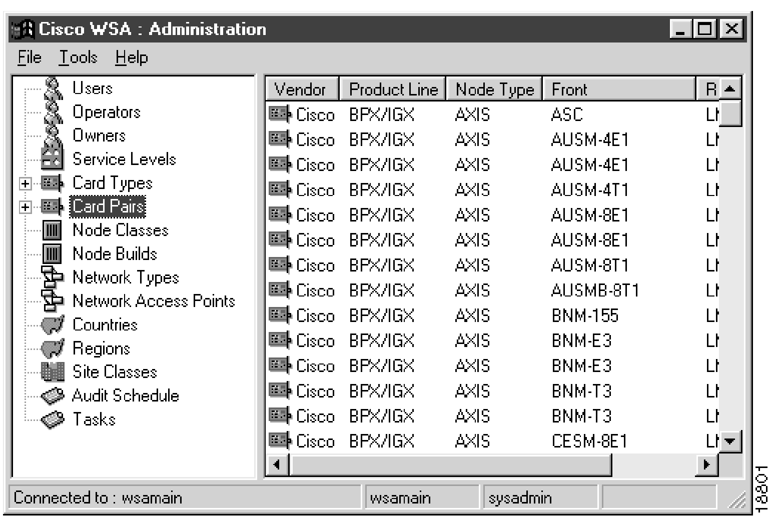
Card Pairs—Description

WSA holds details of all valid card pairings for the known node types. You can list these card pairs using the WSA System Administration Client, but you cannot create new ones or modify the properties of existing ones.

Card Pairs—Listing

To list the WSA Card Pairs, select **Card Pairs** from the tree view and drill down to a specific vendor and node type, as shown in Figure 2-7, "Card Pairs List".

Figure 2-7 Card Pairs List



Card Types

The following sections give detailed information about the **Card Types** object:

- Card Types—Description on page 2-10
- Card Types—Listing on page 2-10

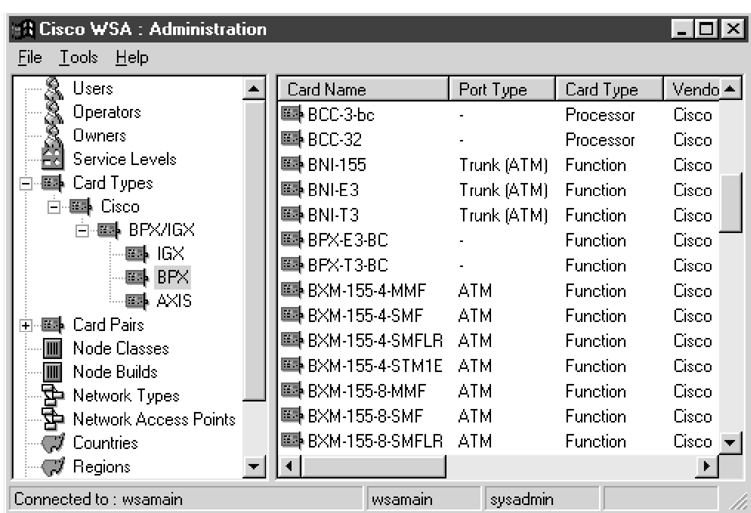
Card Types—Description

WSA holds details of all card types available for the known node types. You can list these card types using the WSA System Administration Client, but you cannot create new ones or modify the properties of existing ones.

Card Types—Listing

To list the WSA Card Types, select **Card Types** from the tree view and drill down to a specific vendor and node type, as shown in Figure 2-8, "Card Types List".

Figure 2-8 Card Types List



18802

Countries

The following sections give detailed information about the **Countries** object:

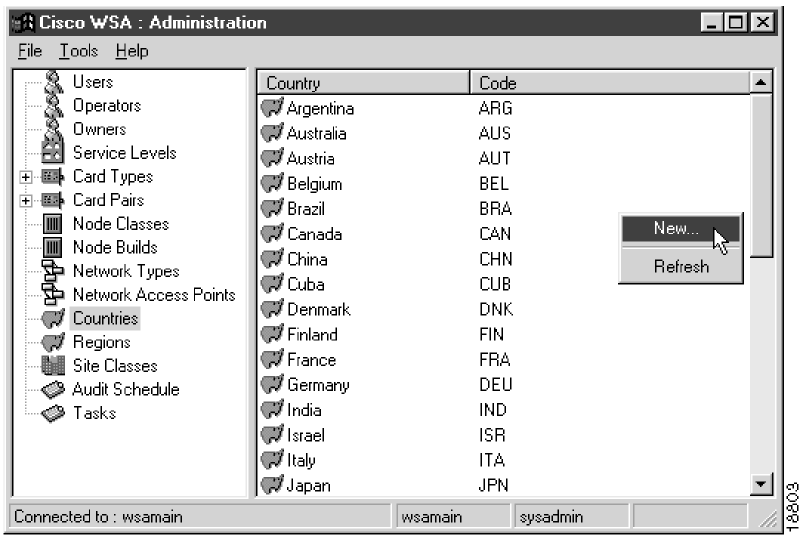
Countries—Description

Network resources are located at geographical sites maintained by the WSA Explorer Client (refer to *Cisco WAN Service Administrator Client User Guide*). These locations must be in a specific country. The list of available countries is maintained by this application. The list of valid three-letter acronyms follows the International Standards Organization (ISO) 3166 A3.

Countries—Create

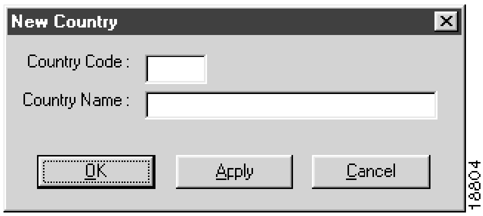
To create a new country, select **Countries** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-9, “Countries List”.

Figure 2-9 Countries List



A New Country dialog appears, as shown in Figure 2-10, “New Country”.

Figure 2-10 New Country



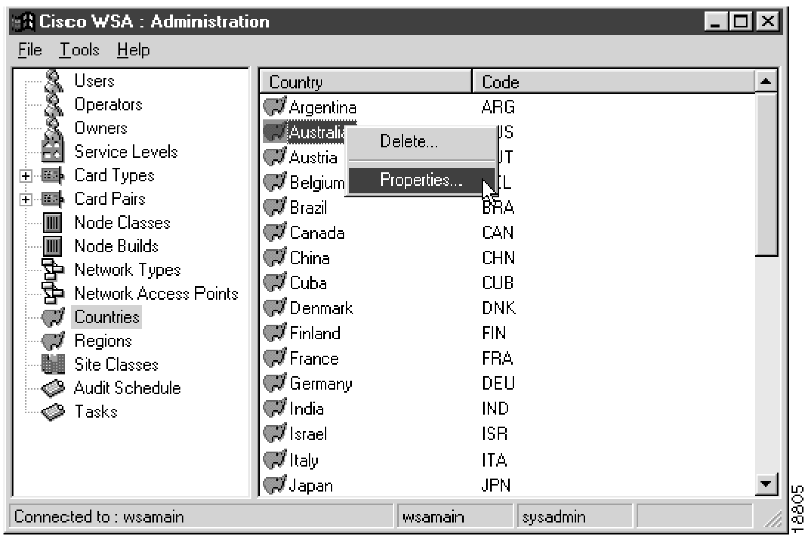
Enter the country code and name, for example, **WAL** and **Wales**. Use the valid three-letter acronyms specified in ISO 3166 A3.

Once you complete the settings for this country, press **OK** to save the record and close the dialog. If you decide not to create this new country, press **Cancel** to close the dialog.

Countries—Modify

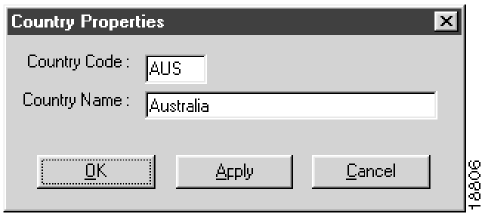
To modify an existing country, select **Countries** in the tree view and select the individual Country that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-11, "Selecting a Country for Modification".

Figure 2-11 Selecting a Country for Modification



A Country Properties dialog appears, as shown in Figure 2-12, “Country Properties”.

Figure 2-12 Country Properties



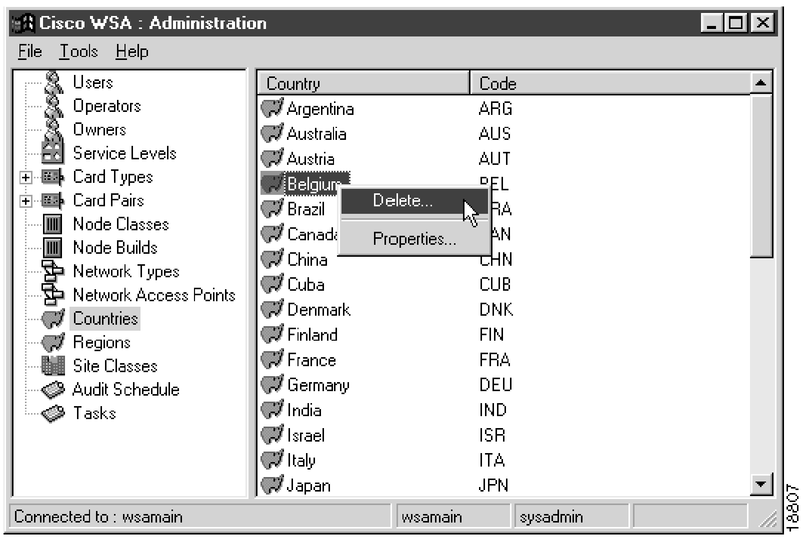
You can modify the country code and/or name. Use the valid three-letter acronyms specified in ISO 3166 A3.

Once you complete the settings for this country, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Countries—Delete

To delete a country, select **Country** in the tree view and select the individual Country that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-13, “Selecting a Country for Deletion”.

Figure 2-13 Selecting a Country for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the country; press **No** if you decide not to delete it.

Network Access Points

The following sections give detailed information about the **Network Access Points** object:

- Network Access Points—Description on page 2-17
- Network Access Points—Create on page 2-18
- Network Access Points—Modify on page 2-20
- Network Access Points—Delete on page 2-22

Network Access Points—Description

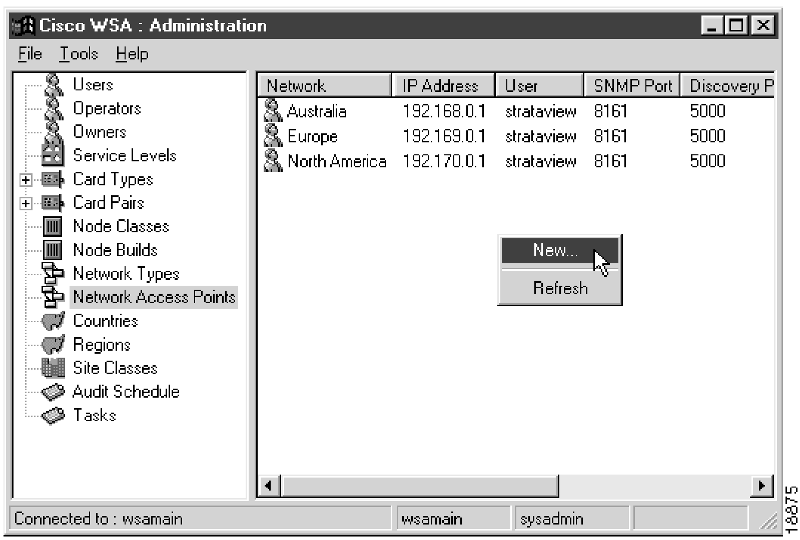
The WSA Control system connects to the networks it manages via the SV+ Service agent, which resides on a machine on the same local area network as the WSA server.

For the WSA Control system to be able to connect to the Service Agent, the host name, the IP address, and the login details of the server it resides on must be stored in the WSA database.

Network Access Points—Create

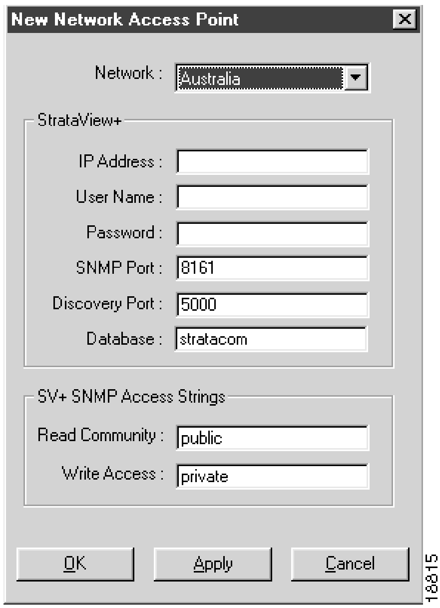
To create a new network access point, select **Network Access Points** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-14, “Network Access Points List”.

Figure 2-14 Network Access Points List



A New **Network Access Point** dialog appears, as shown in Figure 2-15, “New Network Access Point”.

Figure 2-15 New Network Access Point



Appropriate information for the **IP Address**, **User Name**, and **Password** fields must be supplied.

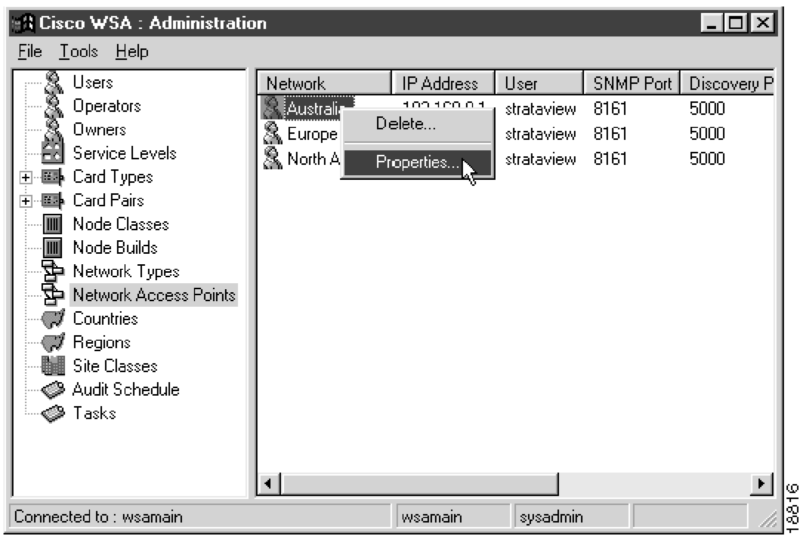
If the Service Agent at this address is running on an SNMP Port, Discovery Port, or Database that does not match the supplied defaults, these values can be modified to match your configuration—as can the values for the SNMP Access Strings.

Once you complete the settings for this network access point, press **OK** to save the record and close the dialog. If you decide not to create this new network access point, press **Cancel** to close the dialog.

Network Access Points—Modify

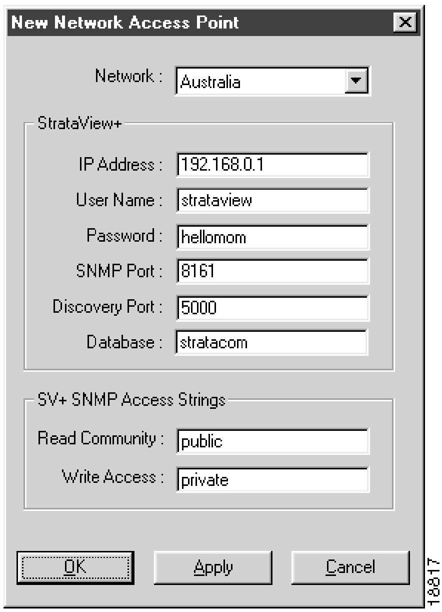
To modify an existing network access point, select **Network Access Points** in the tree view and select the individual Network Access Point that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-16, "Selecting a Network Access Point for Modification".

Figure 2-16 Selecting a Network Access Point for Modification



A Network Access Point Properties dialog appears, as shown in Figure 2-17, “Network Access Properties”.

Figure 2-17 Network Access Properties

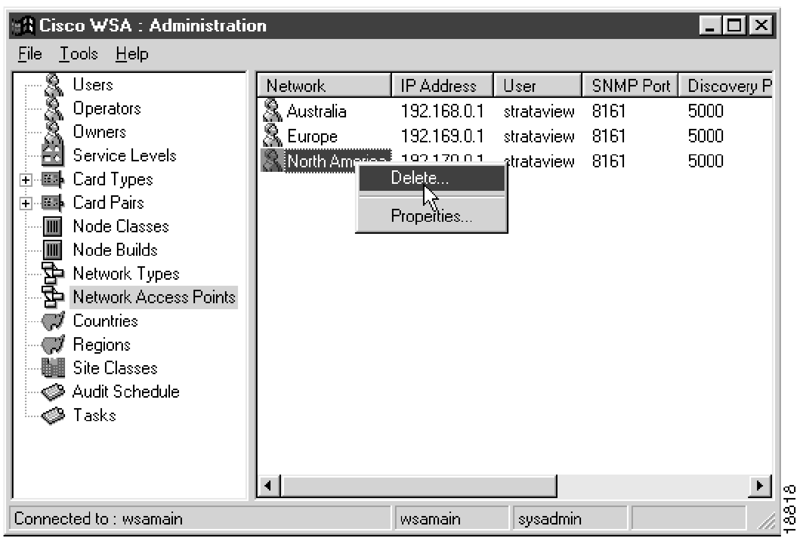


Once you complete the settings for this network access point, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Network Access Points—Delete

To delete a network access point, select **Network Access Points** in the tree view and select the individual Network Access Point that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-18, “Selecting a Network Access Point for Deletion”.

Figure 2-18 Selecting a Network Access Point for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the network access point; press **No** if you decide not to delete it.

Network Types

The following sections give detailed information about the **Network Types** object:

Network Types—Description

In WSA, the type of a network defines the types of nodes that can be created in it. The network types section of WSA System Administrator allows you to create, modify, and delete network types.

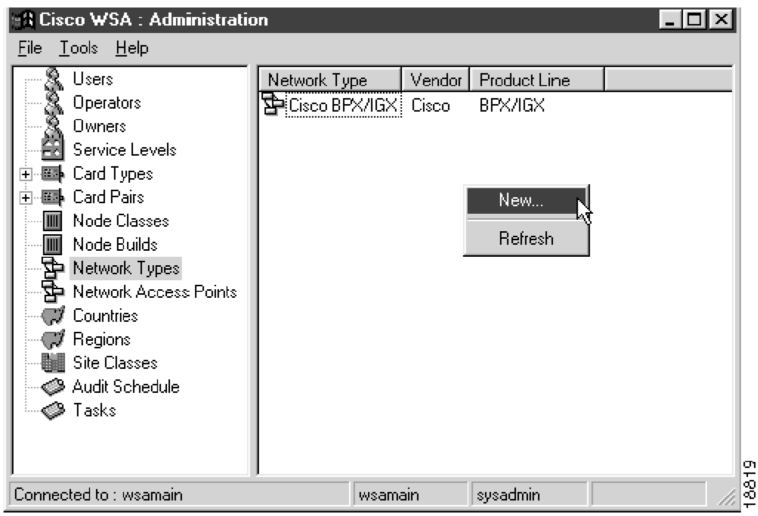
The built-in network type **Cisco BPX/IGX** allows all three supported node types (AXIS, BPX, and IGX) to exist in one network.

To create a network that contains only AXIS and BPX nodes, create a network type that does not allow IGX nodes and select this type when creating the network. When you create a node in this network, the selection of node types is restricted to the two types in its network type.

Network Types—Create

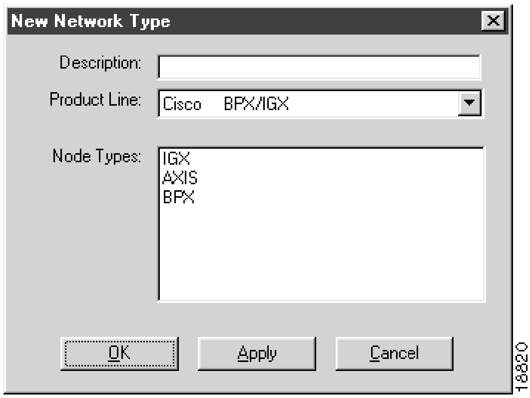
To create a new network type, select **Network Types** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-19, "Network Type List".

Figure 2-19 Network Type List



A New Network Type dialog appears, as shown in Figure 2-20, “New Network Type”.

Figure 2-20 New Network Type

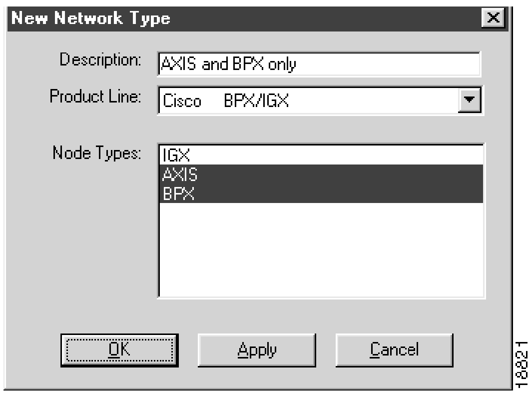


Enter a description for the network type and select a vendor's product line.

Note In this release of Cisco WSA, Cisco is the only available vendor and BPX/IGX is the only available product line.

Select the node types that you want to be in this network type. A fully specified network type that only allows AXIS and BPX nodes appears, as shown in Figure 2-21, “Node Type for AXIS and BPX Only”.

Figure 2-21 Node Type for AXIS and BPX Only

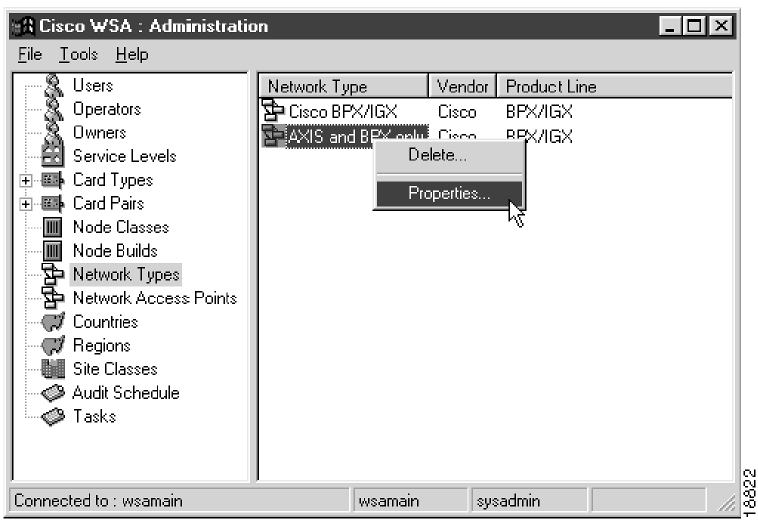


Once you complete the settings for this network type, press **OK** to save the record and close the dialog. If you decide not to create this new network type, press **Cancel** to close the dialog.

Network Types—Modify

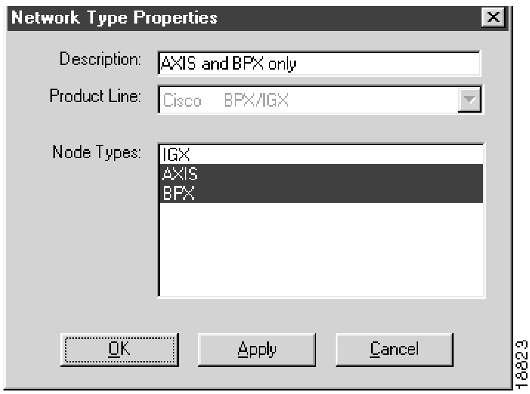
To modify an existing network type, select **Network Types** in the tree view and select the individual Network Type that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-22, "Selecting a Network Type for Modification".

Figure 2-22 Selecting a Network Type for Modification



A Network Type Properties dialog appears, as shown in Figure 2-23, “Network Type Properties”.

Figure 2-23 Network Type Properties



Note that the drop-down list box for selecting the vendor's product line is disabled. You can not change the vendor or product line for existing networks, because the WSA control system depends on this information to decide how to propagate messages to the network.

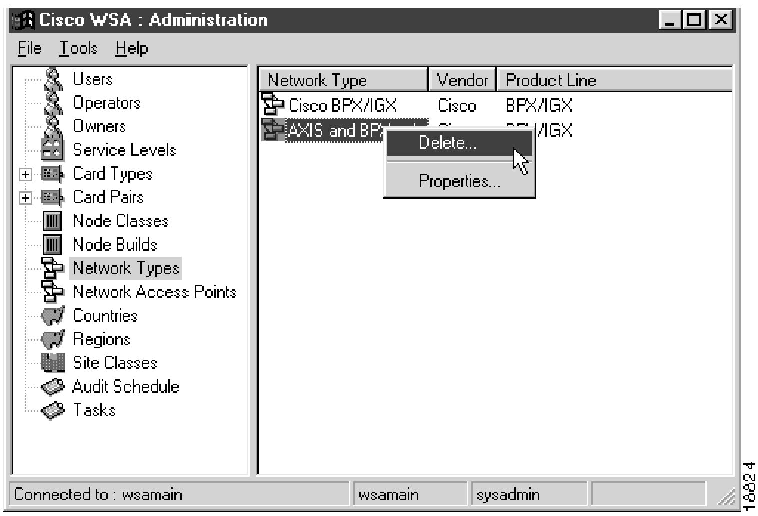
You can, however, modify the list of node types in this network type by selecting or deselecting items from the list. Making this modification has no effect on existing nodes in the network. It simply places a different restriction on the available node types when a new node is created in a network of this type.

Once you complete the settings for this network type, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Network Types—Delete

To delete a network type, select **Network Types** in the tree view and select the individual Network Type that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-24, “Selecting a Network Type for Deletion”.

Figure 2-24 Selecting a Network Type for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the network type; press **No** if you decide not to delete it.

Node Builds

The following sections give detailed information about the **Node Builds** object:

- Node Builds—Description on page 2-30
- Node Builds—Create on page 2-31
- Node Builds—Modify on page 2-38
- Node Builds—Delete on page 2-40

Node Builds—Description

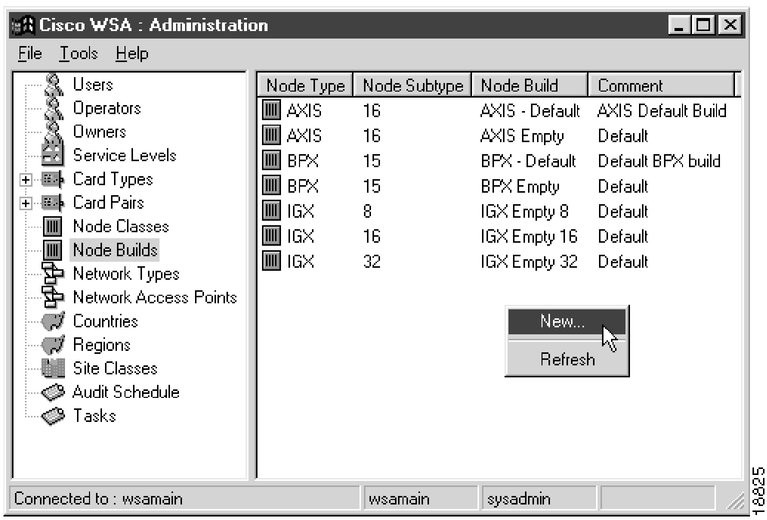
When nodes are created, it is often desirable to have them preconfigured with a particular set of cards, rather than having all their slots empty and needing to add cards one by one or pair by pair using the Add Card Wizard in the WSA Explorer Client (refer to *Cisco WAN Service Administrator Client User Guide*).

WSA implements the ability to preconfigure a node using Node Builds.

Node Builds—Create

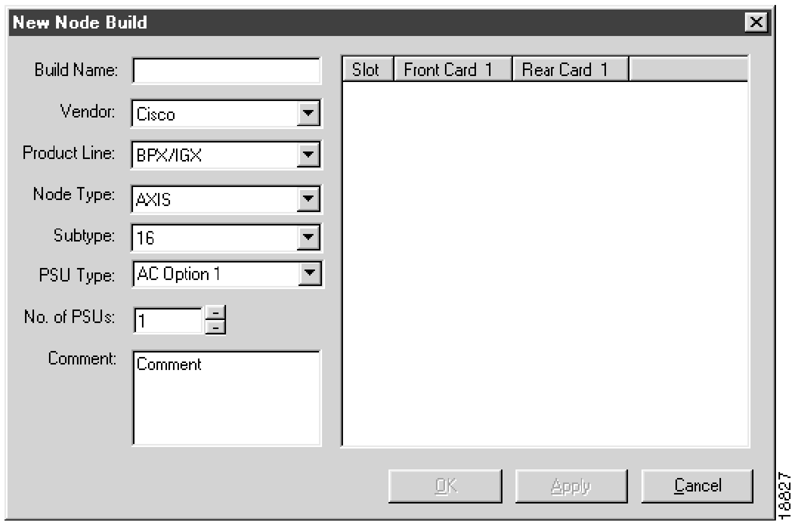
To create a new Node Build, select **Node Builds** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-25, "Node Build List".

Figure 2-25 Node Build List



A New Node Build dialog appears, as shown in Figure 2-26, “New Node Build”.

Figure 2-26 New Node Build

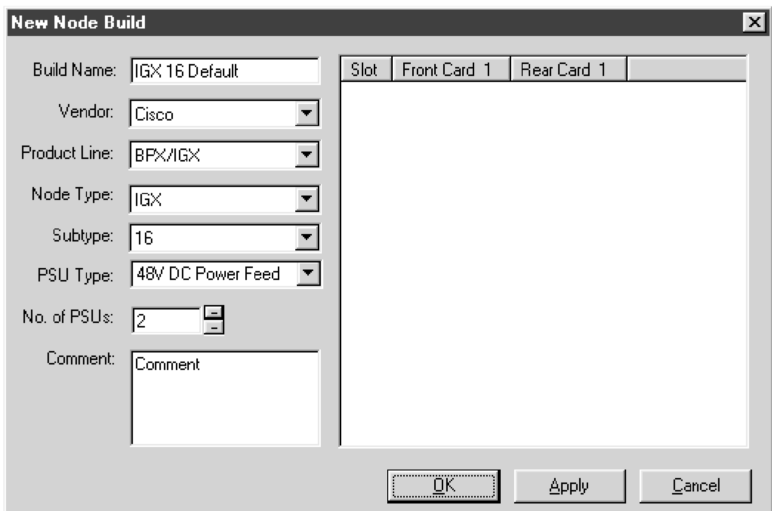


Enter a name for the build and select the Vendor, Product Line, Node Type, and Subtype.

Note In this version of WSA, the only vendor and product line available is Cisco BPX/IGX.

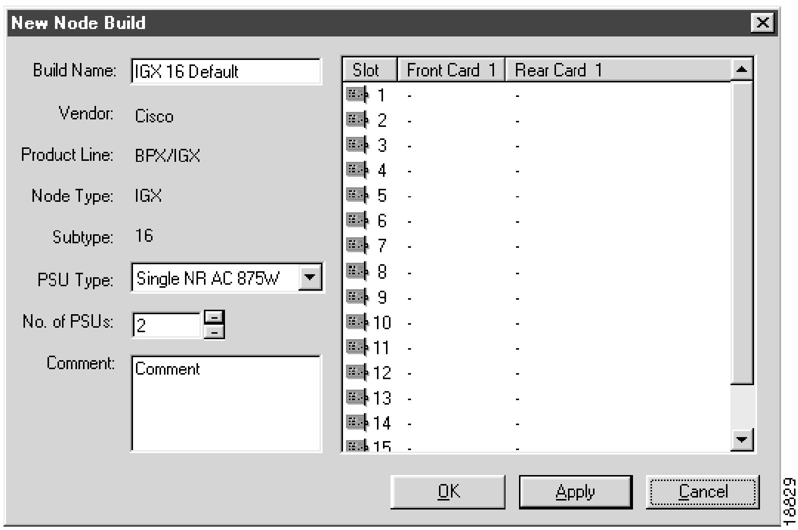
Select a PSU type and set the number of PSUs to install. Once these seven items have been entered and/or selected, you can add an optional comment. Then a dialog appears similar to Figure 2-27, “Defining the Node Build—Step 1”.

Figure 2-27 Defining the Node Build—Step 1



Press **Apply** and the new Node Build is created in the database. Once the record has been inserted, the dialog changes appearance slightly to that shown in Figure 2-28, "Defining the Node Build—Step 2".

Figure 2-28 Defining the Node Build—Step 2

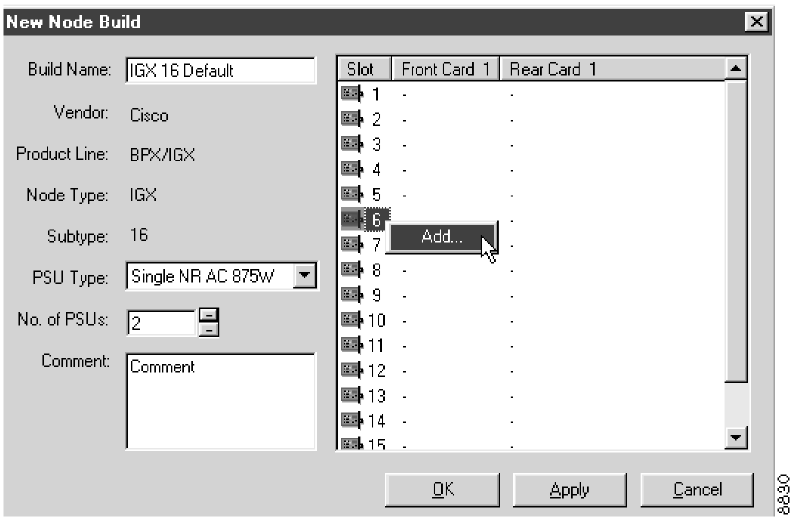


Note that the vendor, product line, node type, and subtype have become noneditable and the relevant number of slot records is displayed in the list view.

At this point, you can close the dialog and have a valid Node Build, but it would be empty, that is it would have no cards defined.

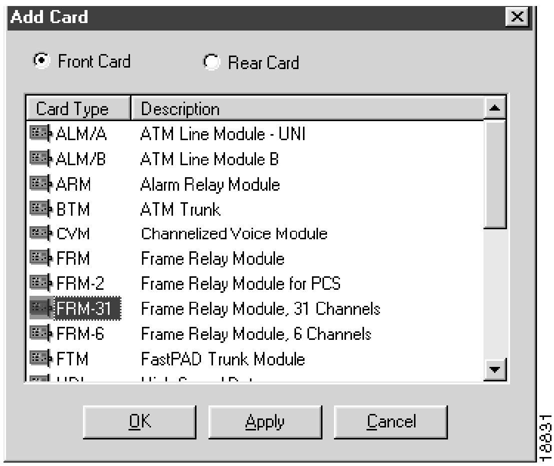
To add cards to the Node Build, select the slot to which you want to add the card and activate the **Add…** right mouse menu from the list view popup menu, as shown in Figure 2-29, "Selecting a Slot to Add a Card Type to the Node Build".

Figure 2-29 Selecting a Slot to Add a Card Type to the Node Build



An Add Card dialog appears, as shown in Figure 2-30, "Adding Card Types to the Node Build".

Figure 2-30 Adding Card Types to the Node Build

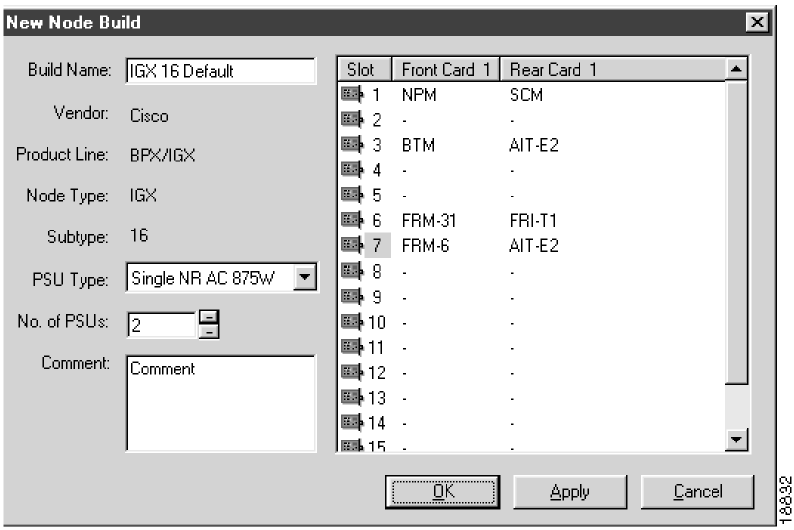


With the Front Card radio button selected, select a front card to insert into the slot you selected in the Node Build, and press **Apply**. Select the Rear Card radio button, select a rear card, and press **Apply** again. Then press **Cancel** to close the dialog or **OK** to insert the card and close the dialog.

Caution When adding card types to slots in the node build, you must be aware of which front cards can safely reside with which rear cards. The card pair information described in section Card Pairs on page 2-9 is NOT used by this dialog. It is your responsibility to ensure that card pairings in a node build are valid.

Once a few cards have been added to the Node Build, it appears similar to Figure 2-31, “Populated Node Build”.

Figure 2-31 Populated Node Build

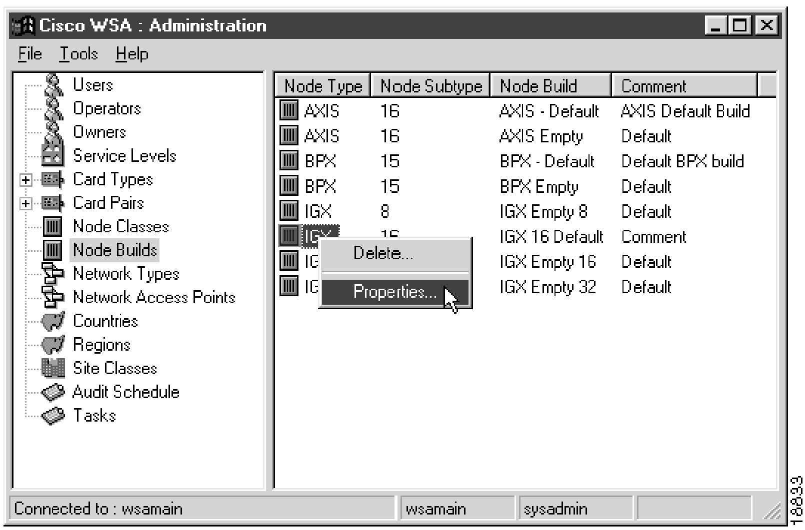


Once you complete the cards in this Node Build, press **OK** to save the record and close the dialog. If you decide not to add these cards to the Node Build, press **Cancel** to close the dialog.

Node Builds—Modify

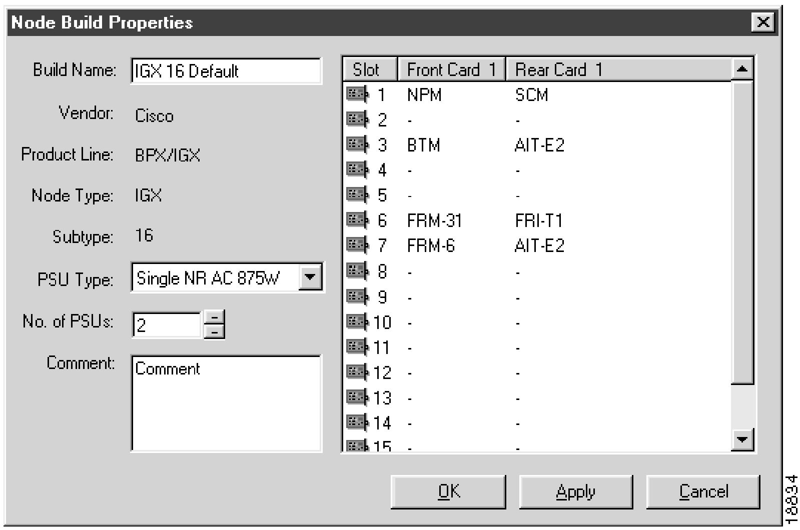
To modify an existing Node Build, select **Node Builds** in the tree view and select the individual Node Build that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-32, “Selecting a Node Build for Modification”.

Figure 2-32 Selecting a Node Build for Modification



A Node Build Properties dialog appears, as shown in Figure 2-33, “Node Build Properties”.

Figure 2-33 Node Build Properties



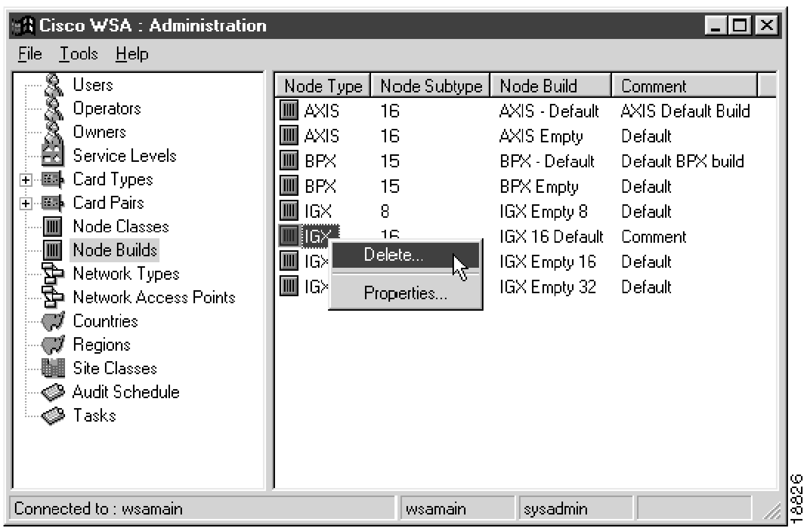
New cards can be added to the Node Build by using the same techniques described in section Node Builds—Create on page 2-31.

Once you complete the settings for this Node Build, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Node Builds—Delete

To delete a Node Build, select **Node Builds** in the tree view and select the individual Node Build that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-34, "Selecting a Node Build for Deletion".

Figure 2-34 Selecting a Node Build for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Node Build; press **No** if you decide not to delete it.

Node Classes

The following sections give detailed information about the **Node Classes** object:

- Node Classes—Description on page 2-41
- Node Classes—Create on page 2-42
- Node Classes—Modify on page 2-44
- Node Classes—Delete on page 2-46

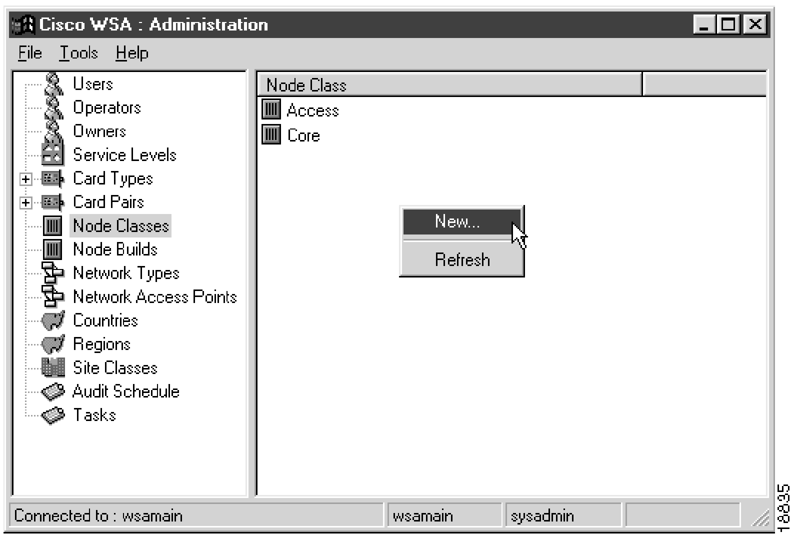
Node Classes—Description

Node classes are arbitrary text strings that have an implied meaning only in your business. Node Classes have no significance in WSA other than as a label, but you must define at least one Node Class to be able to create nodes in WSA.

Node Classes—Create

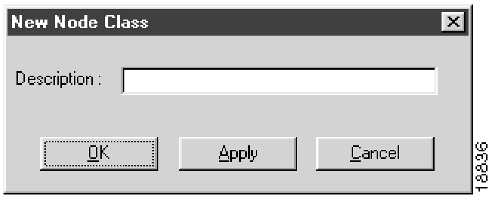
To create a new Node Class, select **Node Class** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-35, “Node Class List”.

Figure 2-35 Node Class List



A New Node Class dialog appears, as shown in Figure 2-36, "New Node Class".

Figure 2-36 New Node Class



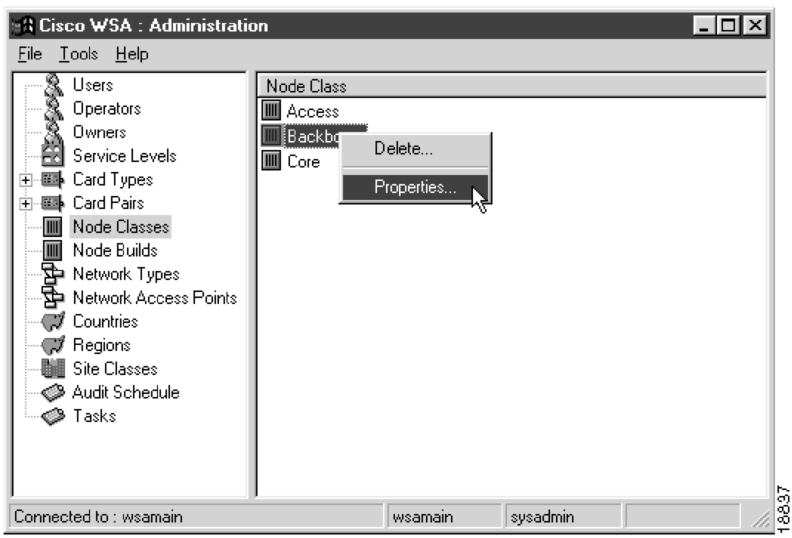
Enter a description for the node class.

Once you complete the settings for this Node Class, press **OK** to save the record and close the dialog. If you decide not to create this new Node Class, press **Cancel** to close the dialog.

Node Classes—Modify

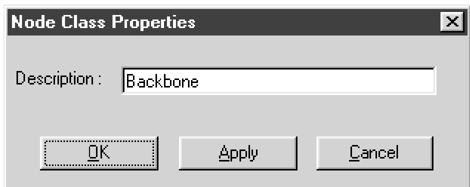
To modify an existing Node Class, select **Node Class** in the tree view and select the individual Node Class that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-37, "Selecting a Node Class for Modification".

Figure 2-37 Selecting a Node Class for Modification



A Node Class Properties dialog appears, as shown in Figure 2-38, “Node Class Properties”.

Figure 2-38 Node Class Properties



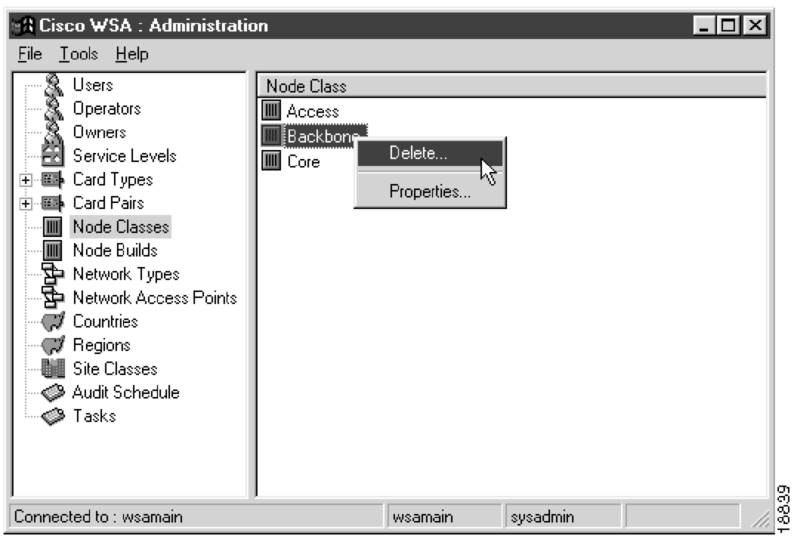
18838

Once you complete the settings for this Node Class, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Node Classes—Delete

To delete a Node Class, select **Node Class** in the tree view and select the individual Node Class that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-39, "Selecting a Node Class for Deletion".

Figure 2-39 Selecting a Node Class for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Node Class; press **No** if you decide not to delete it.

Operators

The following sections give detailed information about the **Operators** object:

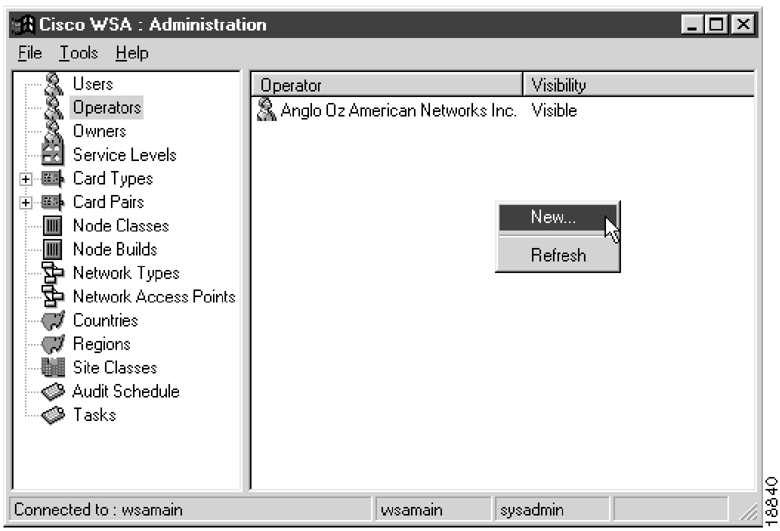
Operators—Description

Operators are the organizations that own the networks controlled by WSA. At least one operator must exist for WSA to function correctly.

Operators—Create

To create a new Operator, select **Operators** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-40, "Operator List".

Figure 2-40 Operator List



A New Operator dialog appears, as shown in Figure 2-41, “New Operator”.

Figure 2-41 New Operator

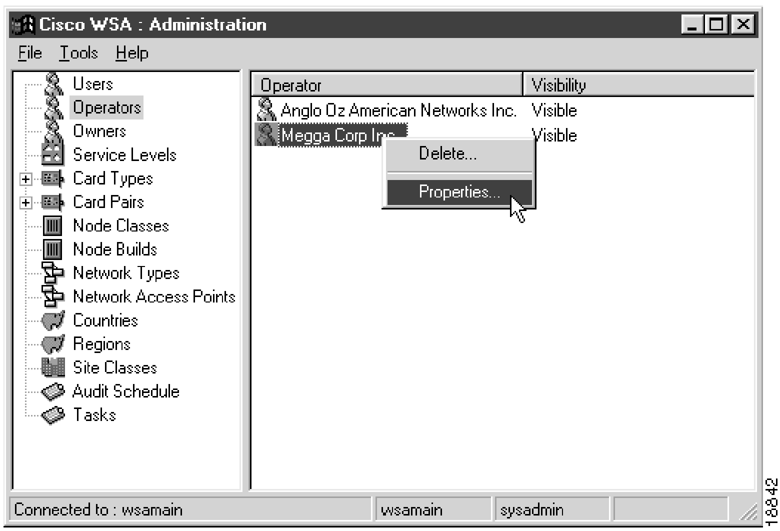
Enter the operator name. Check the **Hidden** box if you do not want this operator to be available for selection when adding a network to the system using the Add Network Wizard in the WSA Explorer Client (refer to *Cisco WAN Service Administrator Client User Guide*).

Once you complete the settings for this Operator, press **OK** to save the record and close the dialog. If you decide not to create this new Operator, press **Cancel** to close the dialog.

Operators—Modify

To modify an existing Operator, select **Operators** in the tree view and select the individual Operator that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-42, "Selecting an Operator for Modification".

Figure 2-42 Selecting an Operator for Modification



An Operator Properties dialog appears, as shown in Figure 2-43, “Operator Properties”.

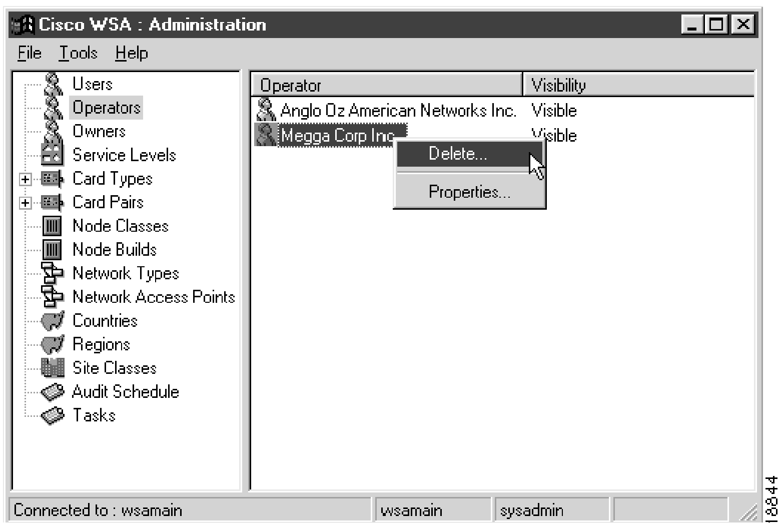
Figure 2-43 Operator Properties

Once you complete the settings for this Operator, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Operators—Delete

To delete an Operator, select **Operators** in the tree view and select the individual Operator that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-44, "Selecting an Operator for Deletion".

Figure 2-44 Selecting an Operator for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Operator; press **No** if you decide not to delete it.

Owners

The following sections give detailed information about the **Owners** object:

Owners—Description

The following entities within WSA have ownership rules applied to them, where ownership implies responsibility for and authority over the specific entity:

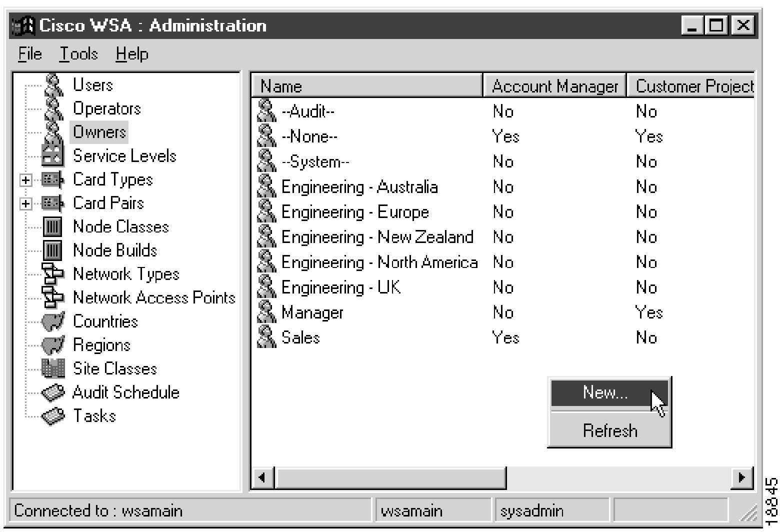
- Accounts (Customers)
- Contracts
- Customer Projects
- Locations (Sites)
- Network Projects
- Networks
- Nodes

A single owner can be allowed to own all, some, or none of these entities. For example, you may want to create a sales department owner that is allowed to own accounts, projects, and contracts, an engineering owner who is allowed to own networks, nodes, and projects, and a facilities owner who is only allowed to own locations.

Owners—Create

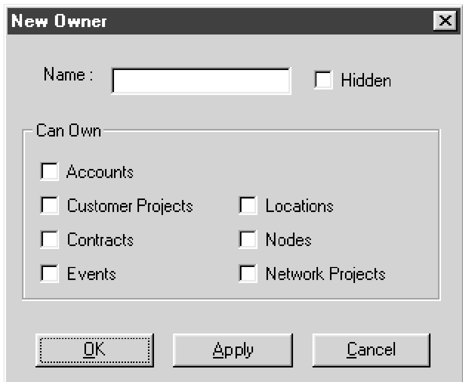
To create a new Owner, select **Owners** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-45, "Owners List".

Figure 2-45 Owners List



A New Owner dialog appears, as shown in Figure 2-46, “New Owner”.

Figure 2-46 New Owner



18846

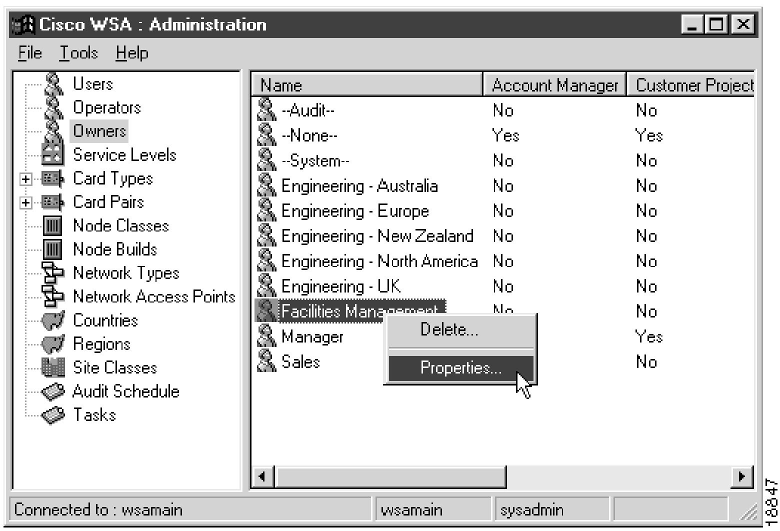
Enter the name of the new Owner and check the appropriate boxes to indicate the WSA entities for which this owner can take responsibility.

Once you complete the settings for this Owner, press **OK** to save the record and close the dialog. If you decide not to create this new Owner, press **Cancel** to close the dialog.

Owners—Modify

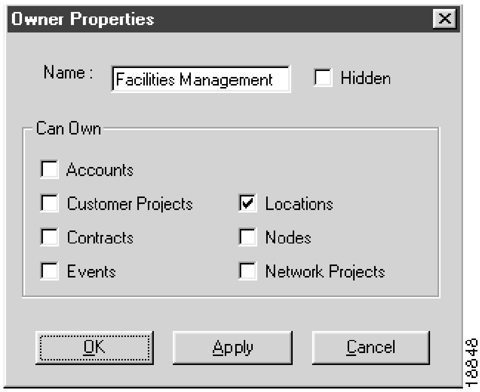
To modify an existing Owner, select **Owners** in the tree view and select the individual Owner that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-47, "Selecting an Owner for Modification".

Figure 2-47 Selecting an Owner for Modification



An Owner Properties dialog appears, as shown in Figure 2-48, “Owner Properties”.

Figure 2-48 Owner Properties

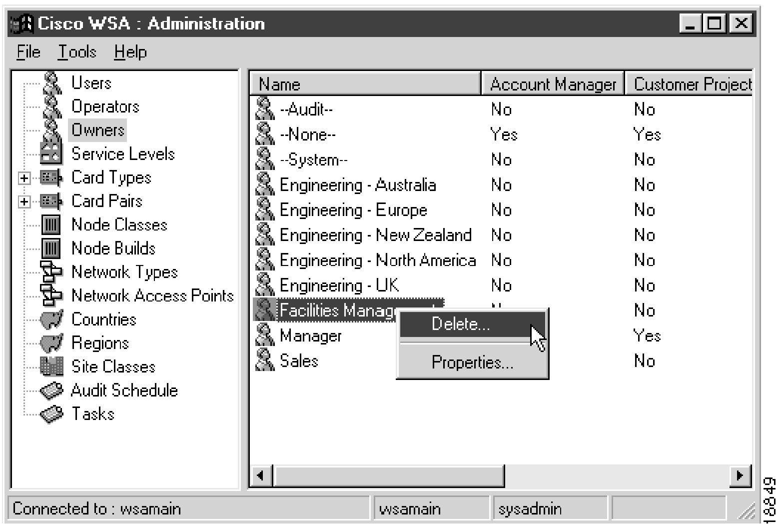


Once you complete the settings for this Owner, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Owners—Delete

To delete an Owner, select **Owners** in the tree view and select the individual Owner that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-49, “Selecting an Owner for Deletion”.

Figure 2-49 Selecting an Owner for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Owner; press **No** if you decide not to delete it.

Regions

The following sections give detailed information about the **Regions** object:

- Regions—Description on page 2-59
- Regions—Create on page 2-60
- Regions—Modify on page 2-62
- Regions—Delete on page 2-64

Regions—Description

In WSA, Regions are used to group together nodes in a network by some common attribute. Typically this grouping will be on a geographical basis—all the nodes in France, Germany, and Italy being in the **Europe** region, for example.

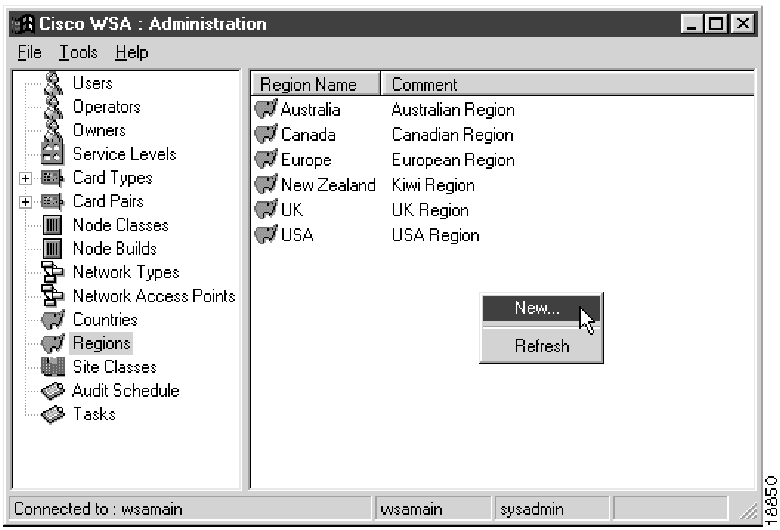
Regions can, however, be used to group nodes together by some other common attribute, for example, the node class. In this example, and assuming that you have two node classes, **access** and **core**, you can create an **Access Nodes** and a **Core Nodes** region to separate the two types.

WSA users are restricted to viewing nodes that are in Regions for which they have been granted permissions (refer to the section Users on page 2-82).

Regions—Create

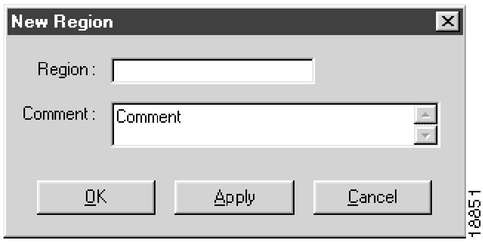
To create a new Region, select **Regions** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-50, "Regions List".

Figure 2-50 Regions List



A New Region dialog appears, as shown in Figure 2-51, “New Region”.

Figure 2-51 New Region

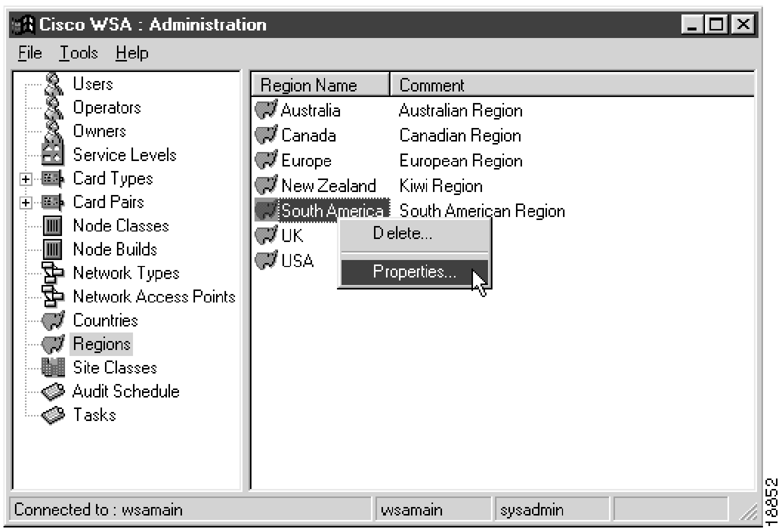


Once you complete the settings for this Region, press **OK** to save the record and close the dialog. If you decide not to create this new Region, press **Cancel** to close the dialog.

Regions—Modify

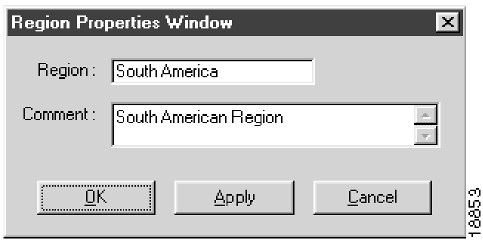
To modify an existing Region, select **Regions** in the tree view and select the individual Region that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-52, "Selecting a Region for Modification".

Figure 2-52 Selecting a Region for Modification



A Region Properties dialog appears, as shown in Figure 2-53, "Region Properties".

Figure 2-53 Region Properties

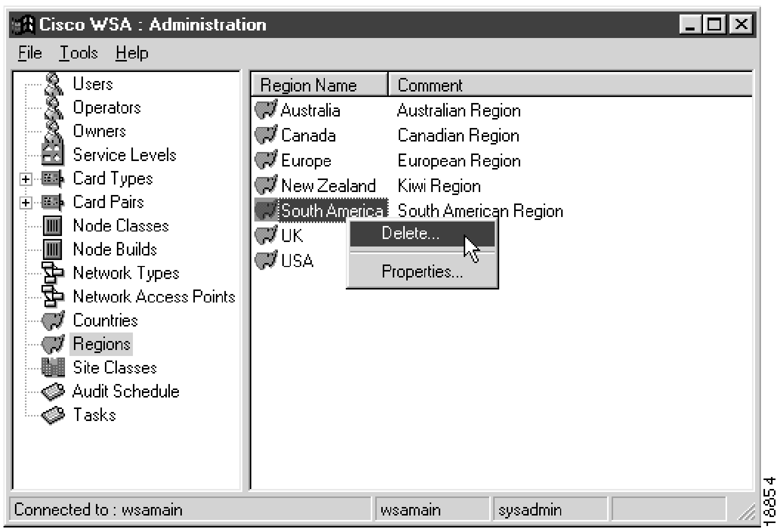


Once you complete the settings for this Region, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Regions—Delete

To delete a Region, select **Regions** in the tree view and select the individual Region that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-54, "Selecting a Region for Deletion".

Figure 2-54 Selecting a Region for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Region; press **No** if you decide not to delete it.

Service Levels

The following sections give detailed information about the **Service Levels** object:

Service Levels—Description

Service Levels are the top level item for Quality of Service settings within WSA. They provide two main functions:

- Group templates together.
- Define the default connection subtype for multi-segment connections.

Templates are described in more detail in Chapter 3, "Service Level Template Management".

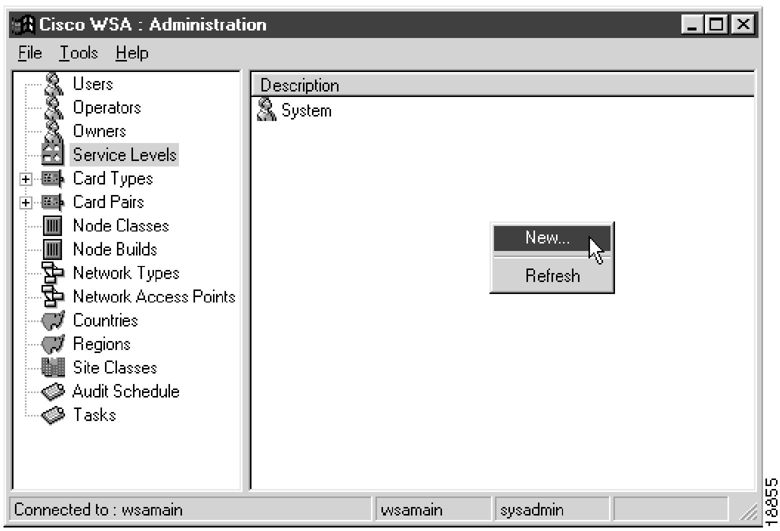
The default connection subtypes defined by the Service Level are used when a connection goes across one or more Network to Network Interconnects (NNIs).

If, for example, a Frame Relay connection is requested and it is routed via an ATM NNI, then the connection subtype for the two ATM to Frame Relay Interworking Permanent Virtual Circuits (PVCs) created is defined by the Service Level chosen for the connection.

Service Levels—Create

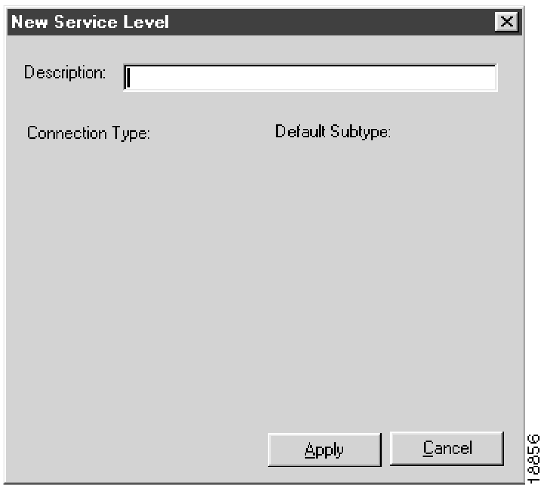
To create a new Service Level, select **Service Levels** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-55, "Service Level List".

Figure 2-55 Service Level List



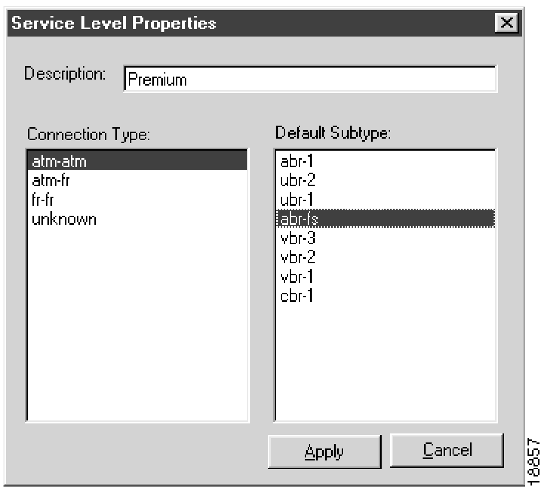
A New Service Level dialog appears, as shown in Figure 2-56, "New Service Level—Step 1".

Figure 2-56 New Service Level—Step 1



Enter a description for the service level and press **Apply**. Once the record has been inserted into the database, the dialog changes appearance to that shown in Figure 2-57, "New Service Level—Step 2".

Figure 2-57 New Service Level—Step 2



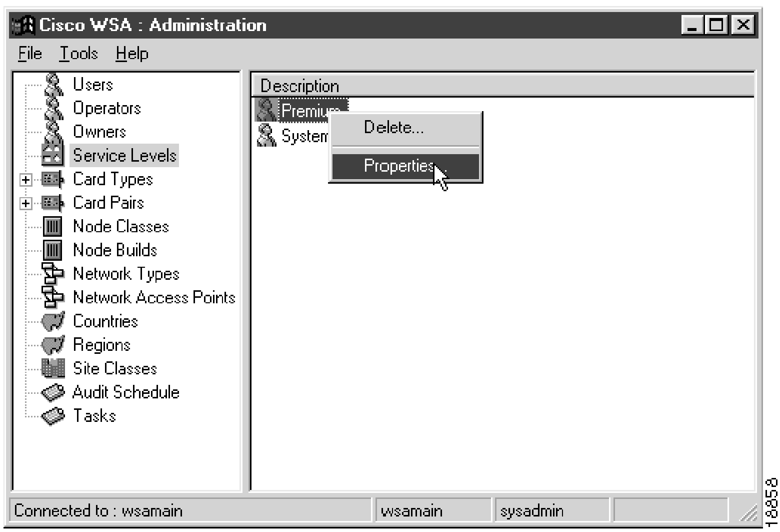
You must now select each available connection type in turn and assign it a default subtype by selecting from the right list. After each assignment, press **Apply**.

Once you complete the settings for this Service Level, press **Cancel** to close the dialog.

Service Levels—Modify

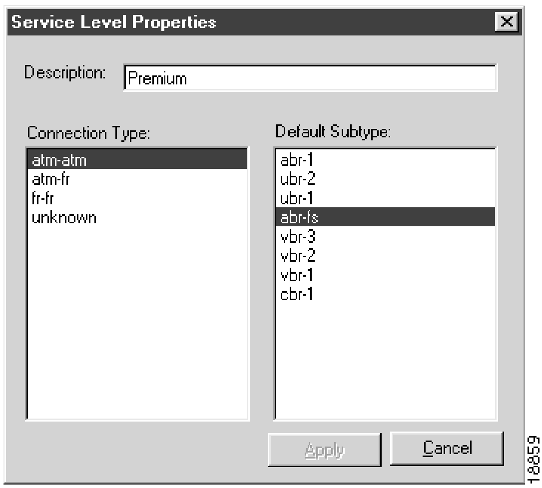
To modify an existing Service Level, select **Service Levels** in the tree view and select the individual Service Level that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-58, "Selecting a Service Level for Modification".

Figure 2-58 Selecting a Service Level for Modification



A Service Level Properties dialog appears, as shown in Figure 2-59, "Service Level Properties".

Figure 2-59 Service Level Properties



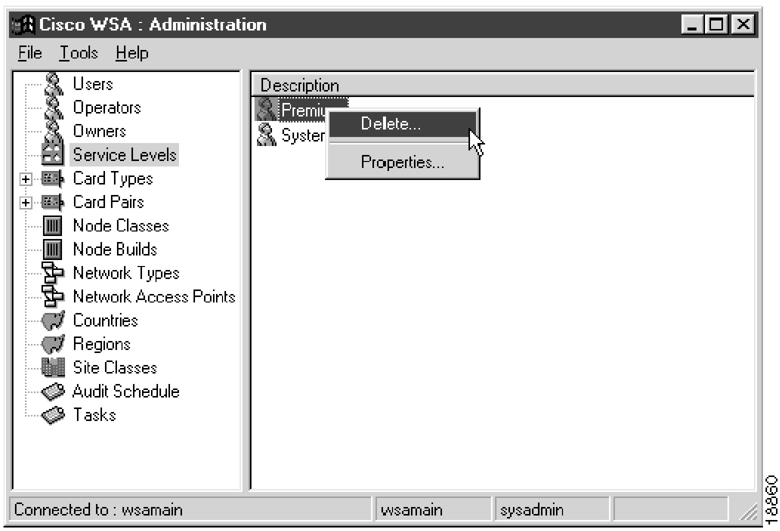
You can change the description of the service level and/or modify the default connection subtype for a given connection type as described in the previous section.

Once you complete the settings for this Service Level, press **Cancel** to close the dialog.

Service Levels—Delete

To delete a Service Level, select **Service Levels** in the tree view and select the individual Service Level that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-60, “Selecting a Service Level for Deletion”.

Figure 2-60 Selecting a Service Level for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Service Level; press **No** if you decide not to delete it.

Site Classes

The following sections give detailed information about the **Site Classes** object:

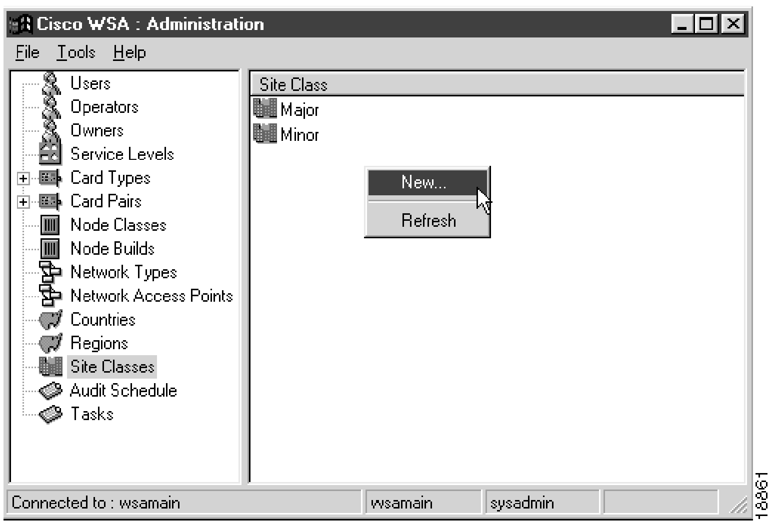
Site Classes—Description

Site Classes are arbitrary text labels assigned to locations when they are created. At least one site class must exist for WSA to work correctly.

Site Classes—Create

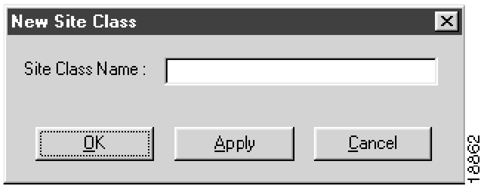
To create a new Site Class, select **Site Classes** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-61, "Site Class List".

Figure 2-61 Site Class List



A New Site Class dialog appears, as shown in Figure 2-62, “New Site Class”.

Figure 2-62 New Site Class

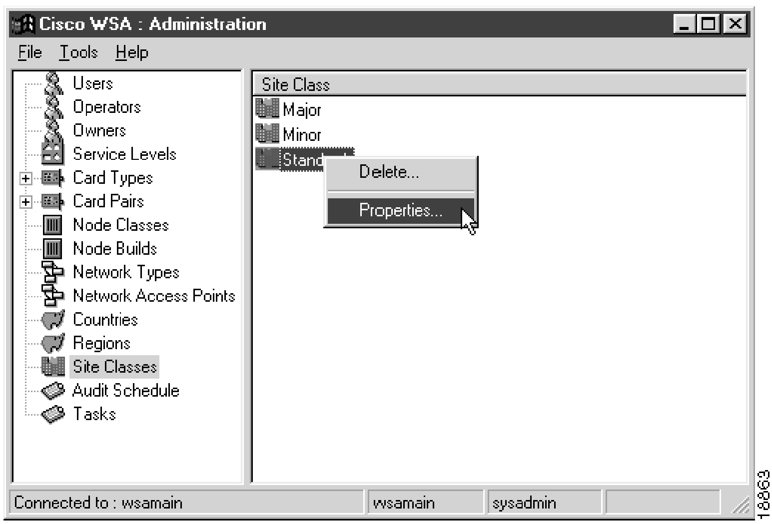


Enter the Site Class name and press **OK** to save the record and close the dialog. If you decide not to create this new Site Class, press **Cancel** to close the dialog.

Site Classes—Modify

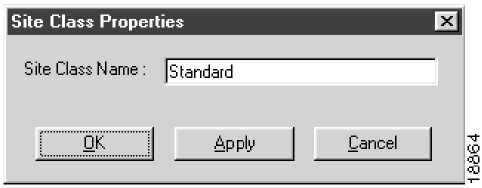
To modify an existing Site Class, select **Site Classes** in the tree view and select the individual Site Class that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-63, “Selecting a Site Class for Modification”.

Figure 2-63 Selecting a Site Class for Modification



A Site Class Properties dialog appears, as shown in Figure 2-64, "Site Class Properties".

Figure 2-64 Site Class Properties

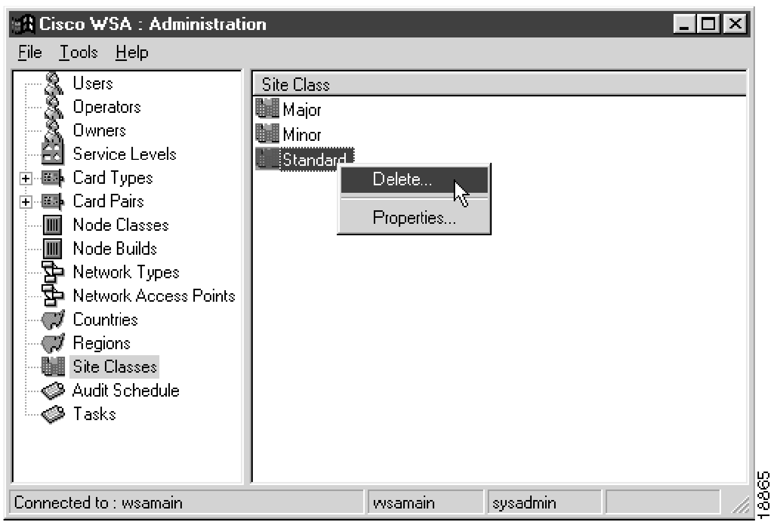


Once you complete the settings for this Site Class, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Site Classes—Delete

To delete a Site Class, select **Site Classes** in the tree view and select the individual Site Class that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-65, "Selecting a Site Class for Deletion".

Figure 2-65 Selecting a Site Class for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Site Class; press **No** if you decide not to delete it.

Tasks

The following sections give detailed information about the **Tasks** object:

Tasks—Description

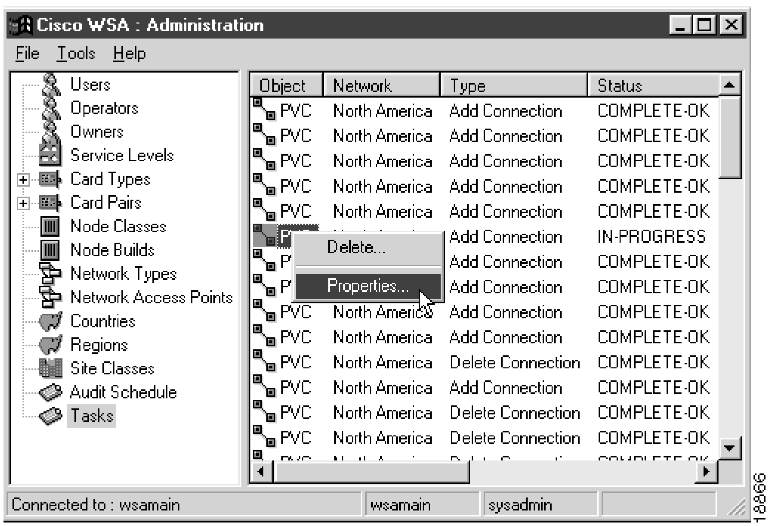
The WSA Control System creates tasks that are acted on to provision services within the networks controlled by WSA. These tasks can be listed in the WSA System Administrator Client. They can be deleted and the properties of the WSA entity they relate to can be viewed.

Note In this version of WSA, the only entity that a task can relate to is a PVC. Therefore, when you view the properties of the tasks related entity, you will see the properties of the connection of which the PVC is a part.

Tasks—View Properties

To view a Task, select **Tasks** from the tree view and select the individual Task that you want to view. Then activate the **Properties…** right mouse menu from the list view popup menu, as shown in Figure 2-66, "Task List".

Figure 2-66 Task List



If the task relates to a PVC that is no longer in the database, a warning dialog appears, as shown in Figure 2-67, “Task Warning”.

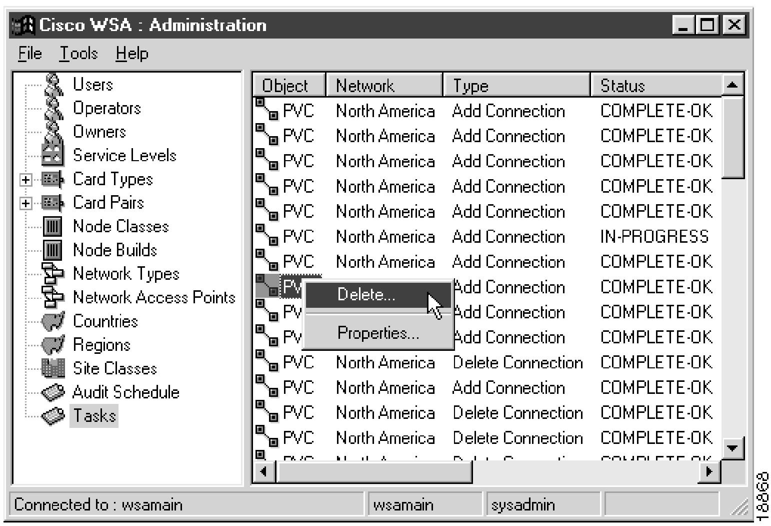
Figure 2-67 Task Warning

If the PVC relates to an existing connection, the properties dialog for that connection appears (refer to *Cisco WAN Service Administrator Client User Guide*).

Tasks—Delete

To delete a Task, select **Tasks** in the tree view and select the individual Task that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-68, "Selecting a Task for Deletion".

Figure 2-68 Selecting a Task for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the Task; press **No** if you decide not to delete it.

Users

The following sections give detailed information about the **Users** object:

- Users—Description on page 2-82
- Users—Create on page 2-83
- Users—Modify on page 2-86
- Users—Delete on page 2-88

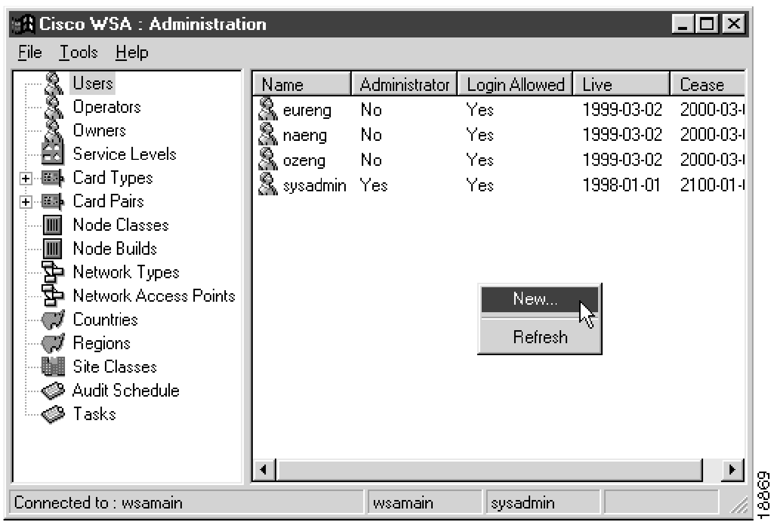
Users—Description

Users are the individuals who will be using the WSA PC Clients. They are allocated a unique login name and access to the system is password protected. Visibility of nodes within networks and regions is controlled via the user account.

Users—Create

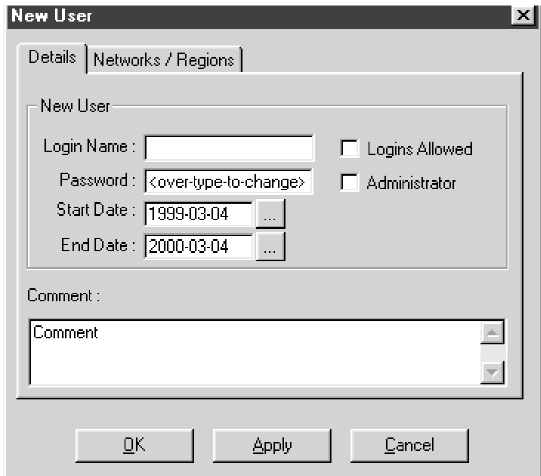
To create a new User, select **Users** from the tree view and activate the **New…** right mouse menu from the list view popup menu, as shown in Figure 2-69, "User List".

Figure 2-69 User List



A New User dialog appears, as shown in Figure 2-70, “New User”.

Figure 2-70 New User



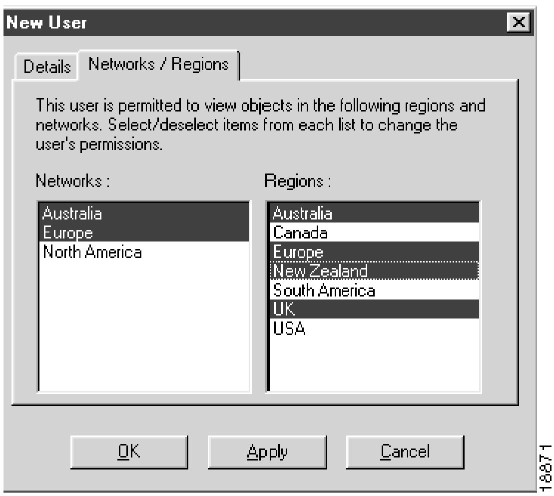
18870

Enter the login name, which must be a minimum of 3 characters, and the password, which must be a minimum of 8 characters and a maximum of 16 characters.

Modify the start date and end dates—outside the boundaries of which this user will not be able to log into WSA—and check the **Logins Allowed** box if you want this account to be immediately active. Check the **Administrator box** if this user is to be given access to the WSA System Administration Client—this application.

Next, activate the **Networks / Regions** tab and select one or more networks and one or more regions for user access, as shown in Figure 2-71, “Assigning Networks and Regions”.

Figure 2-71 Assigning Networks and Regions



When this user logs into WSA, it will only be able to view nodes in the networks and regions selected here. All other nodes are hidden from view.

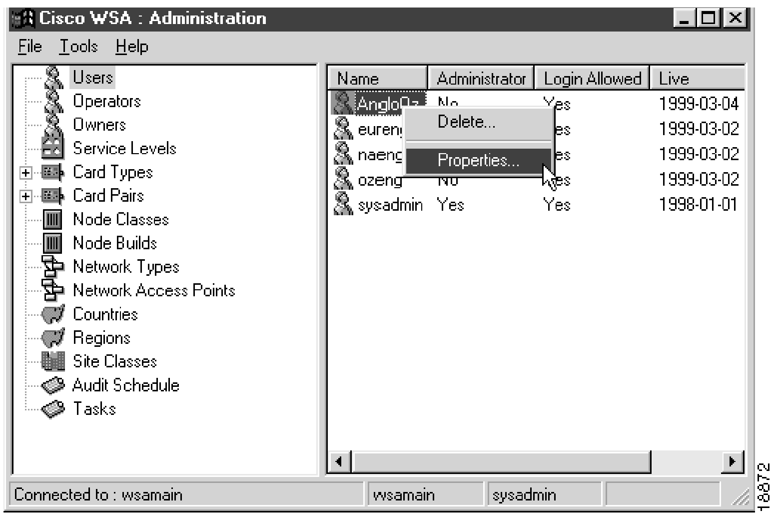
Once you complete the settings for this User, press **OK** to save the record and close the dialog. If you decide not to create this new User, press **Cancel** to close the dialog.

Note For this new user account to be usable, be sure to check **Logins Allowed** and give the user permissions on at least one network and region.

Users—Modify

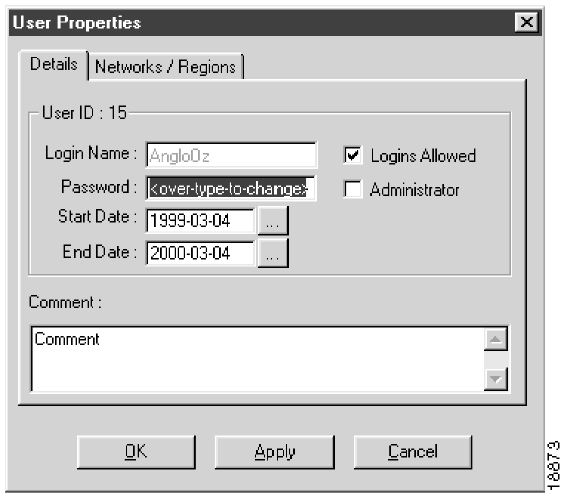
To modify an existing User, select **Users** in the tree view and select the individual User that you want to modify. Then activate the **Properties…** right mouse menu from the item menu, as shown in Figure 2-72, "Selecting a User for Modification".

Figure 2-72 Selecting a User for Modification



A User Properties dialog appears, as shown in Figure 2-73, “User Properties”.

Figure 2-73 User Properties



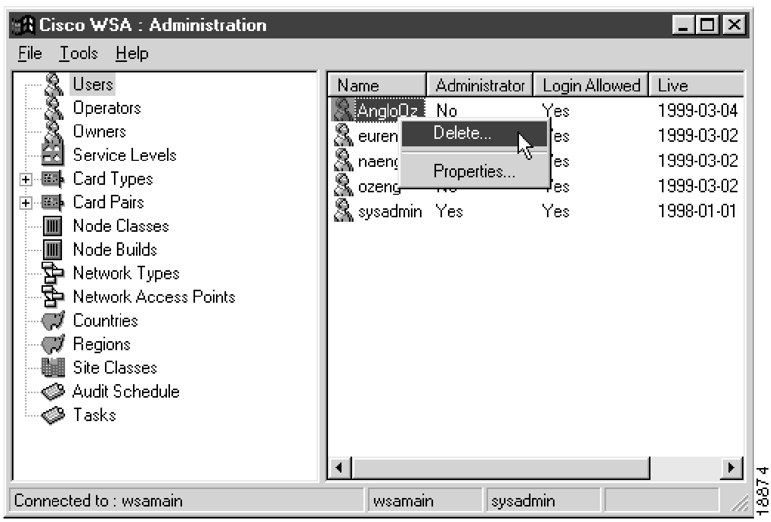
Note The login name is now disabled. Once the user has been created, its name can not be changed.

Once you complete the settings for this User, press **OK** to save the record and close the dialog. If you decide not to modify the properties, press **Cancel** to close the dialog.

Users—Delete

To delete a User, select **Users** in the tree view and select the individual User that you want to delete. Then activate the **Delete…** right mouse menu from the item menu, as shown in Figure 2-74, "Selecting a User for Deletion".

Figure 2-74 Selecting a User for Deletion



A delete confirmation dialog appears. Press **Yes** to delete the User; press **No** if you decide not to delete it.