Master Circuits

Master Circuits creates a group of network elements, such as fiber, ports or channels. Point to point fiber routes, channels and ports on Inside Plant equipment can all be grouped together into a master circuit. These master circuits are the networks typically purchased by the end customer from a telecommunications company.

SpatialNET allows users to create and edit a Master Circuit and also list the Master Circuits created. A warning appears if an element changed within a Master Circuit causes a disruption.

SpatialWEB displays the Master Circuits created in **spatialNET** for field technicians and other business personnel. The Master Circuits function helps manage logical networks and provides a name for a logical network path.

In this section

- Configuring the Dictionary for Master Circuits
- Create a Master Circuit
- Using Master Circuits in SPATIALweb

SpatialNET: Defining Master Circuits in the Dictionary

SpatialNET uses dictionaries, a reference source containing definitions of site and equipment types. The dictionaries save specifications for equipment types. Create, edit and delete specifications for equipment types in the dictionary. Before a site or equipment type can be used in spatialNET, a new entry in the dictionary must be created and defined.

For more information about dictionaries, see the *spatialNET Configuration Manual*, included with the spatialNET software.

To configure:

1. Under **spatialNET,** select **Dictionaries**-> **Fiber Definitions**-> **Master Circuit Definitions**.

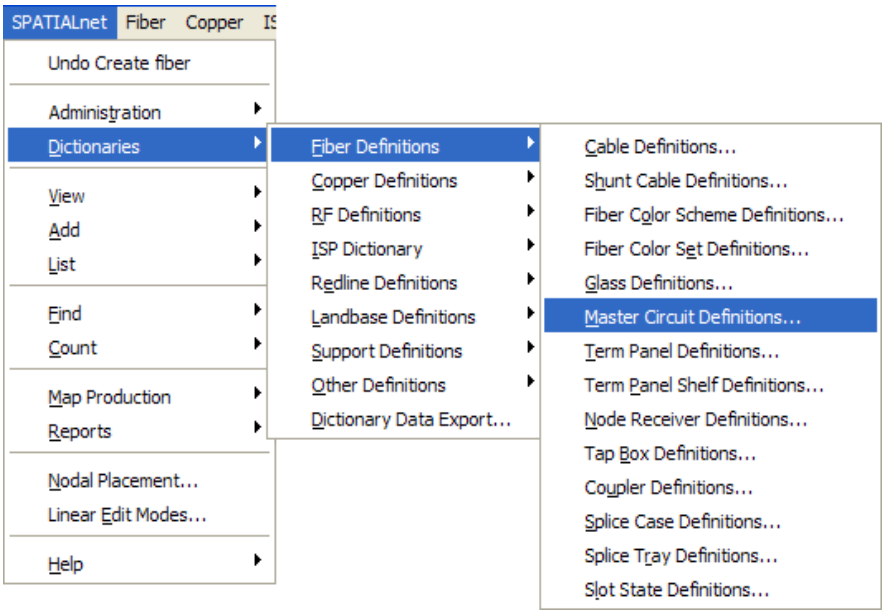
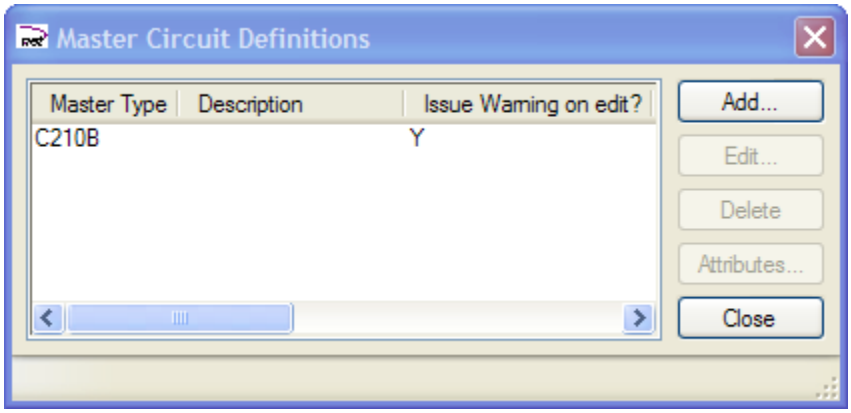


Figure 1 Master Circuit Definitions

2. The **Master Circuit Definitions** dialogue box opens. Select **Add**.



3. The **Add Master Circuit Definition** dialogue box opens. Enter the following fields:

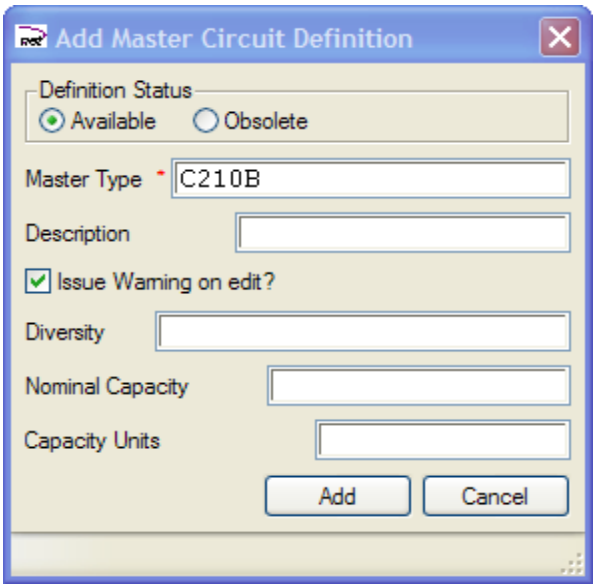


Figure 2 Add Master Circuit Definition

Name	Task
Definition Status	Select either Available or Obsolete
Master Type	Name the type of master circuit to be used
Description	Describe the Master Circuit. The description can also be used in the Master Circuits Definition box to sort.
Issue Warning on edit?	If selected, a warning dialogue box opens, notifying the user of changes made to the Master Circuit.
Diversity	Shows that this circuit is part of a diverse system.
Nominal Capacity	Enter amount of nominal capacity.
Capacity Units	Enter type of capacity units
Add	Select Add when finished.

Creating a Master Circuit

After a definition has been added to the dictionary, a Master Circuit can be created.

A Master Circuit can be created using the Fiber menu, and then associated with selected fibers and ports. A Master Circuit can also be created while in the Fibers and Ports Modification dialogue box.

Using the Fiber menu to add a Master Circuit

1. Select **Fiber->Add-> Master Circuit**

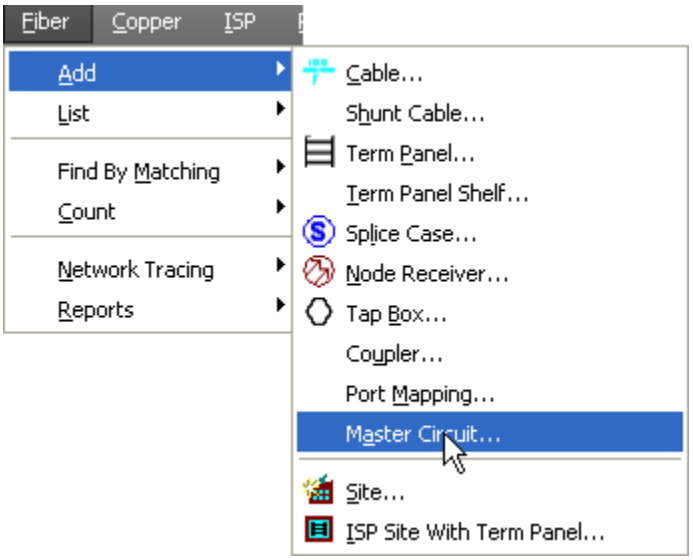


Figure 3 Fiber Menu

2. The **Master Circuit Creation** dialogue box opens. Enter the following fields:

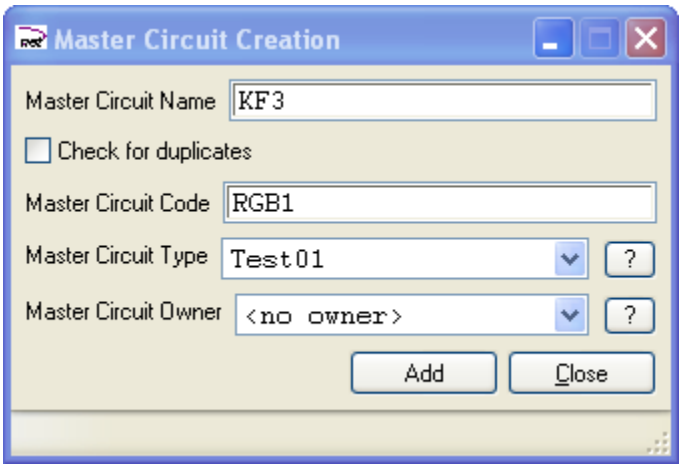


Figure 4 Master Circuit Creation

Name	Task
Master Circuit Name	Enter the Master Circuit name.
Check for duplicates	New Master Circuit will not be added if this box is checked and a duplicate is found.
Master Circuit code	Enter a Master Circuit code.
Master Circuit Type	Automatically populates from the dictionary list.
Master Circuit Owner	Select from the drop-down list. Populated from the Plant Owner dictionary definition.
Add/Close	Select Add to save the information.

Now that a Master Circuit is created, it can be associated with specific fibers and ports. A Master Circuit can also be created when within fiber and port menus.

Associating/Creating a Master Circuit with a Fiber/Port

Adding/Creating a Master Circuit to a fiber

1. Select a cable from the current view.
2. Select the fibers/ports icon  located on the **Network Tools** toolbar.
3. The **Fiber List** dialogue box for the selected fiber opens. Select the fiber to add to the master circuit.

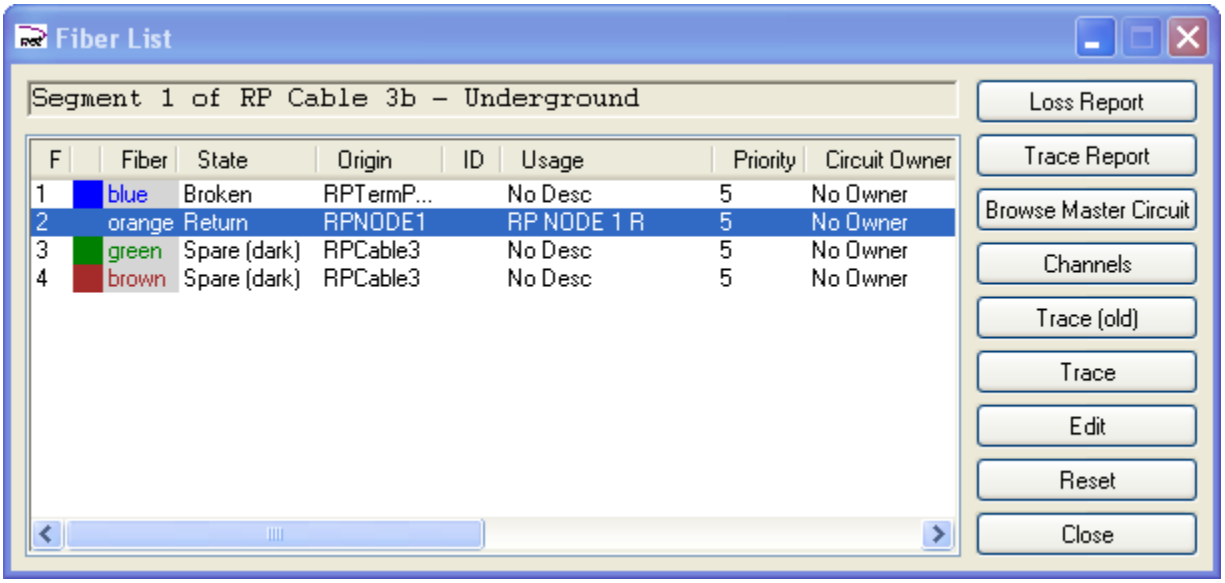


Figure 5 Fiber List

4. Select **Edit**. The **Fiber Modification** dialogue box opens. Select the **Master Circuit button (callout 1)**. A drop down menu opens.

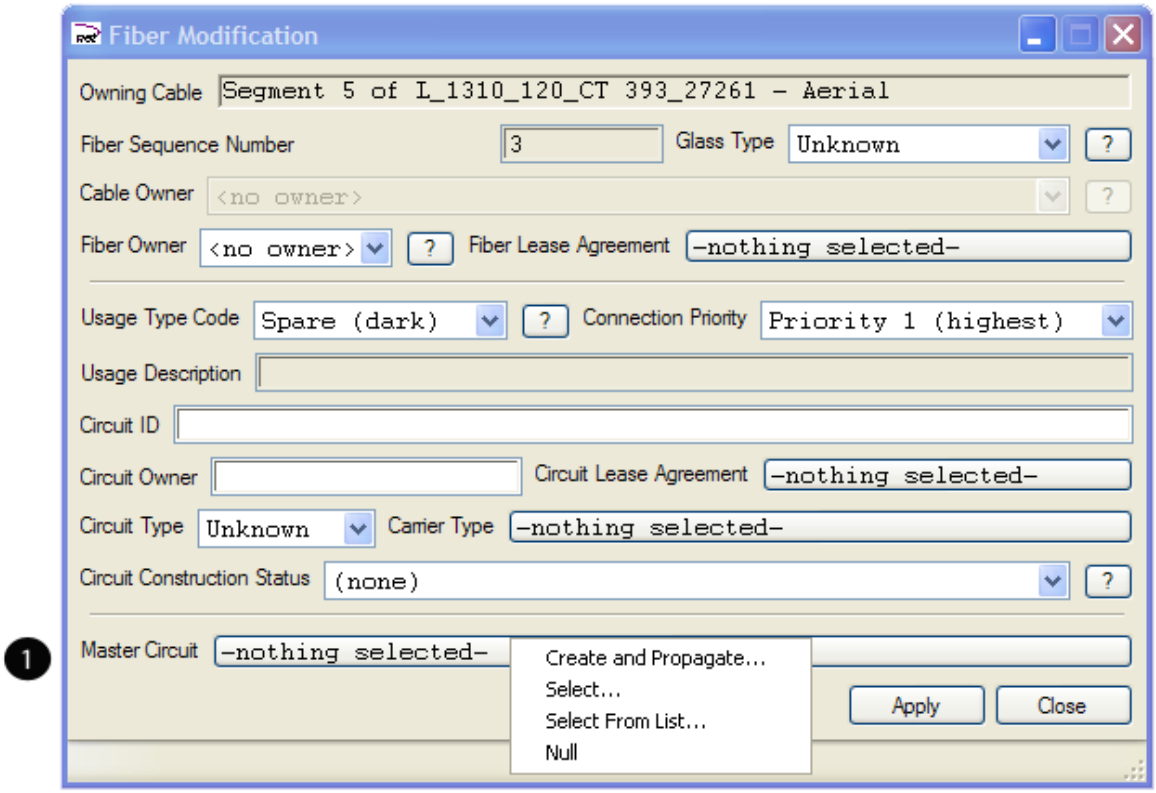
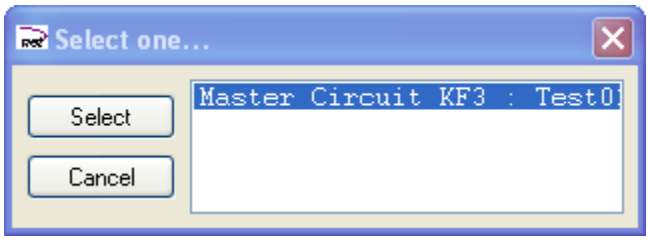


Figure 7 Fiber Modification dialogue box

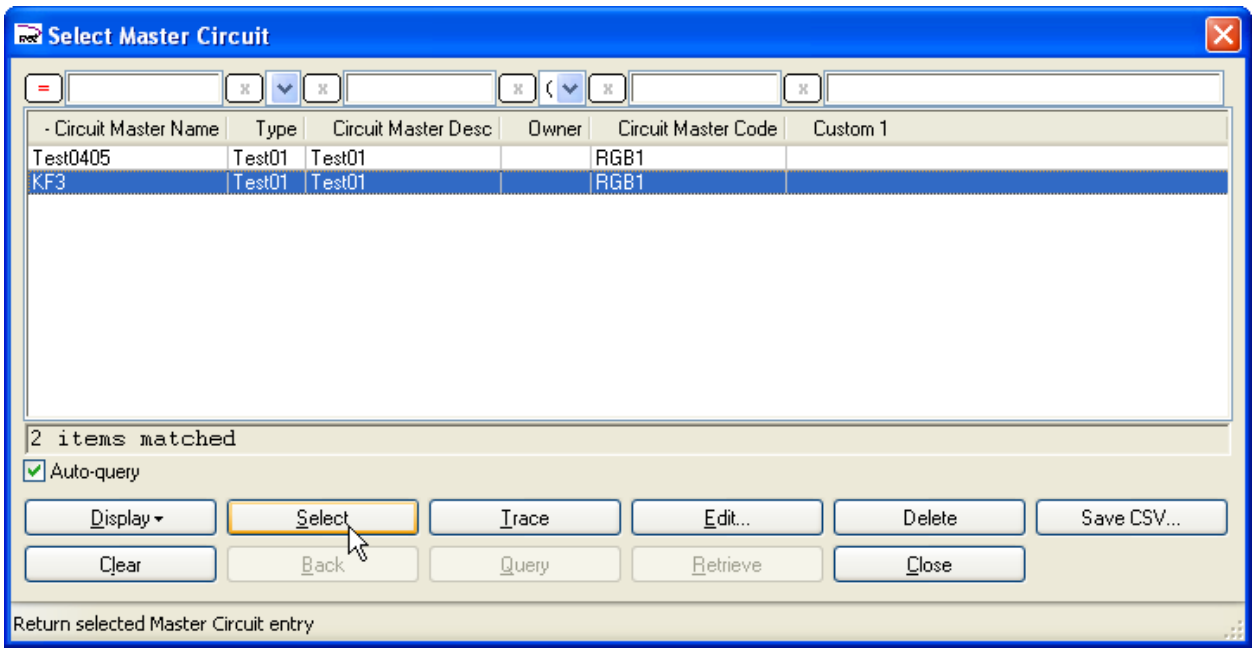
Name	Task
Create and Propagate	Creates a new master circuit, associated with the selected fiber or port Select to create a new Master Circuit. The Master Circuit Creation dialogue box opens. See Step 2 of Creating a Master Circuit for more information
Select...	Opens the Select Master Circuit Screen. Select a master circuit from this screen. Can search, query and delete for Master Circuits.
Select from List	Displays a list of the master circuits created. Select a master circuit for this screen
Null	Deletes the currently selected entity

5. Since a previous Master Circuit was created, choose the Master Circuit either from **Select** or **Select from List.**

From **Select from List**



From **Select**



6. After the Master Circuit is selected, it is associated with the fiber in the Fiber List.

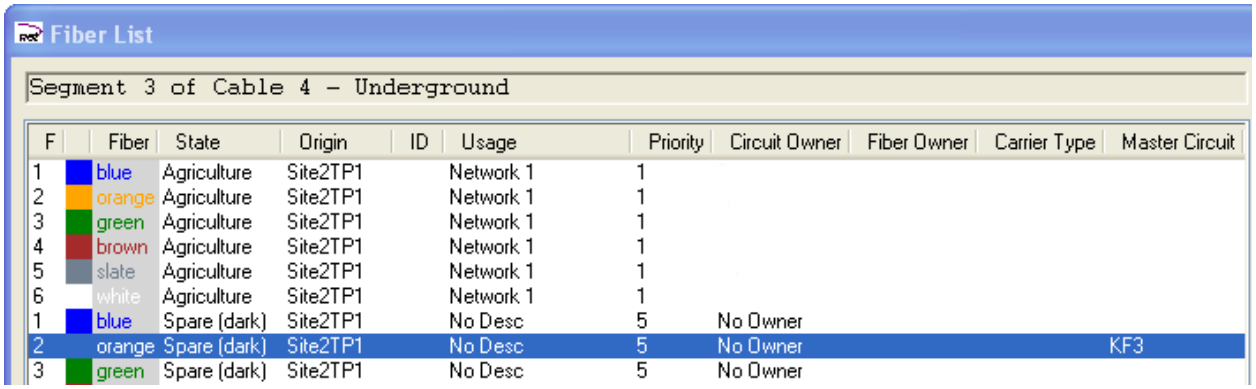


Figure 6 Fiber List with Master Circuit

Adding a Master Circuit to a port

1. Select a port from the current view.
2. Select the fibers/ports icon  located on the **Network Tools** toolbar.
3. The **Port List** dialogue box for the selected port opens. Select the port to add to the master circuit.

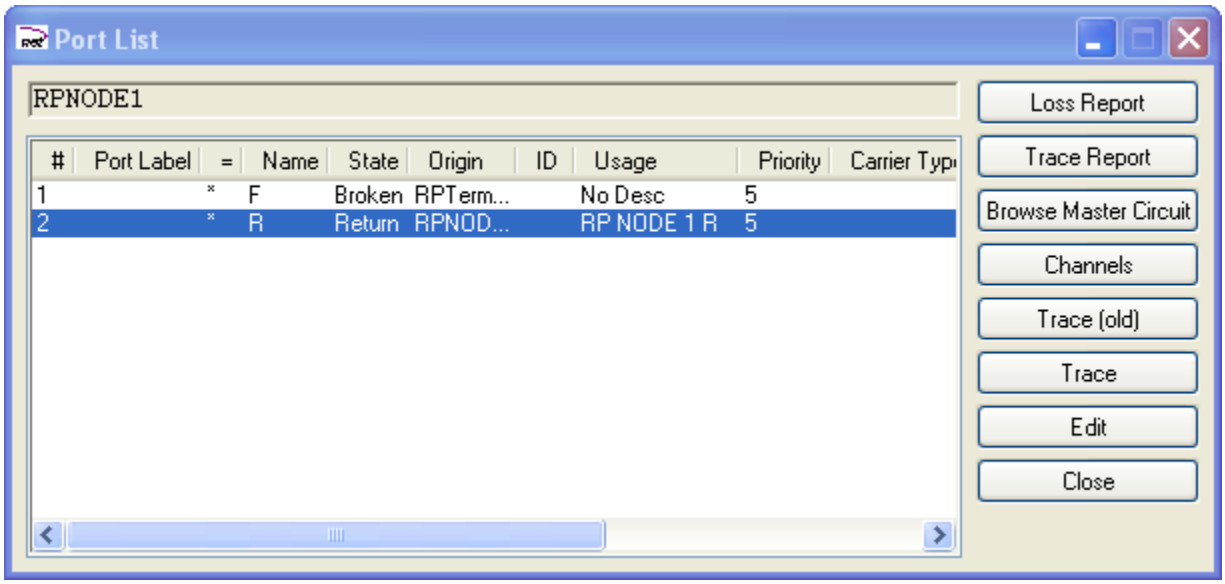


Figure 7 Port List

Select **Edit**. The **Port Modification** dialogue box opens. Select the Master Circuit button. See Step 4 on page 7 to complete the steps to add a Master Circuit.

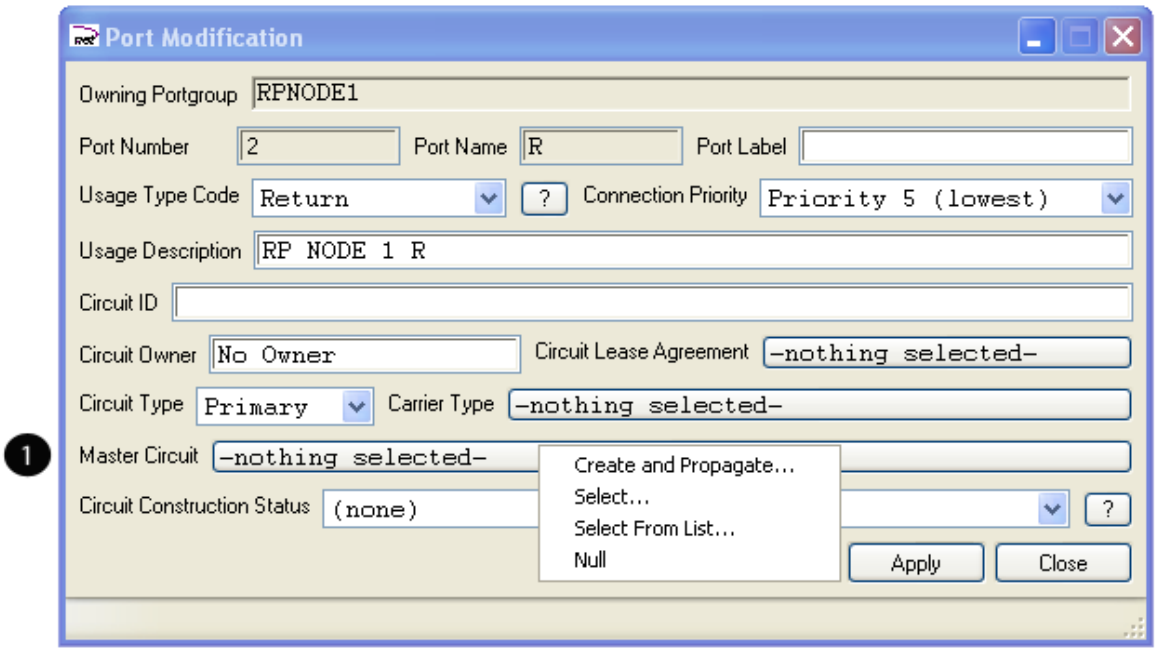


Figure 8 Port Modification dialogue box

SpatialWEB: Searching for Master Circuits

After creating a Master Circuit in spatialNET, the Master Circuit appears in spatialWEB.

To search:

1. Type in the name of the Master Circuit into the search box, located in the menu bar. Select the Master Circuit in the **Object Browser**.

2. The Master Circuit shows in the **Map View**.

T o show schematics:

1. After the Master Circuit appears in the Map View, select **Display Schematics** in the Object Browser. An information panel opens, showing the associated fibers and ports.