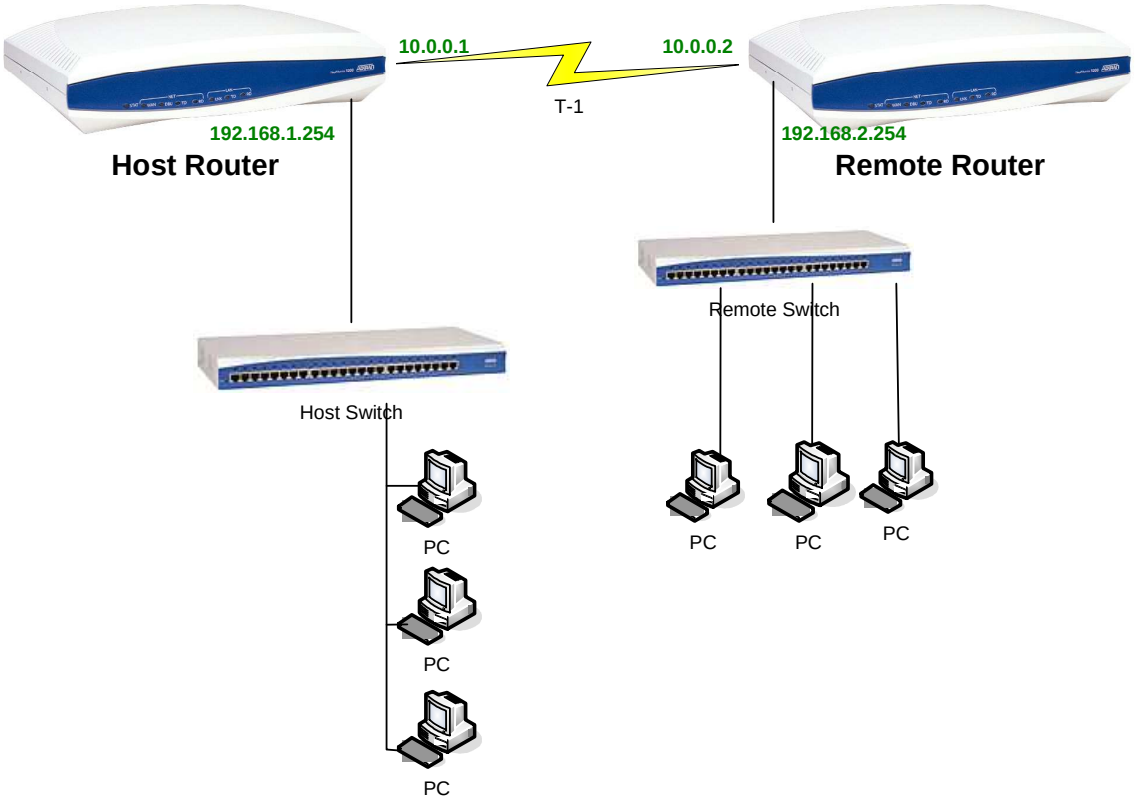
Application Drawings

Netvanta 3200/3205: Routing across the WAN



Overview

This application drawing shows how to use NetVanta 3200s or NetVanta 3205s in a scenario where there is a point-to-point T-1 that is used for data. The IP addresses used in the configuration script and configuration steps are just examples and maybe modified to fit your network.

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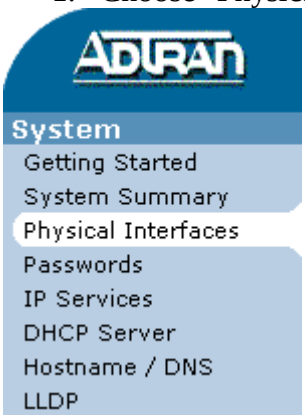
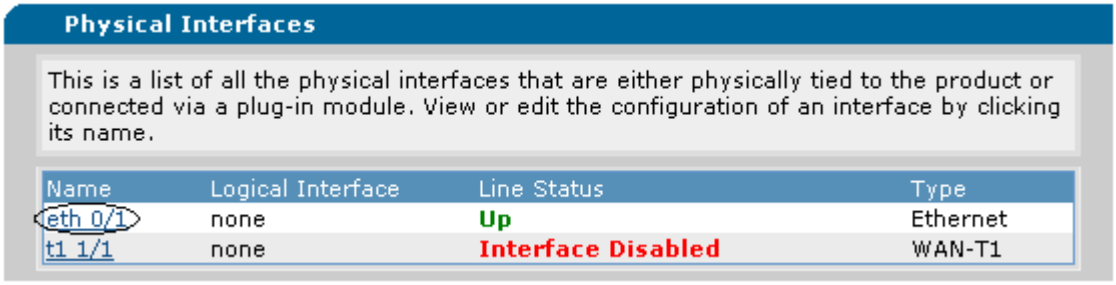
Configuration steps using the web interface for NetVanta 3200/3205 “Host Router”:

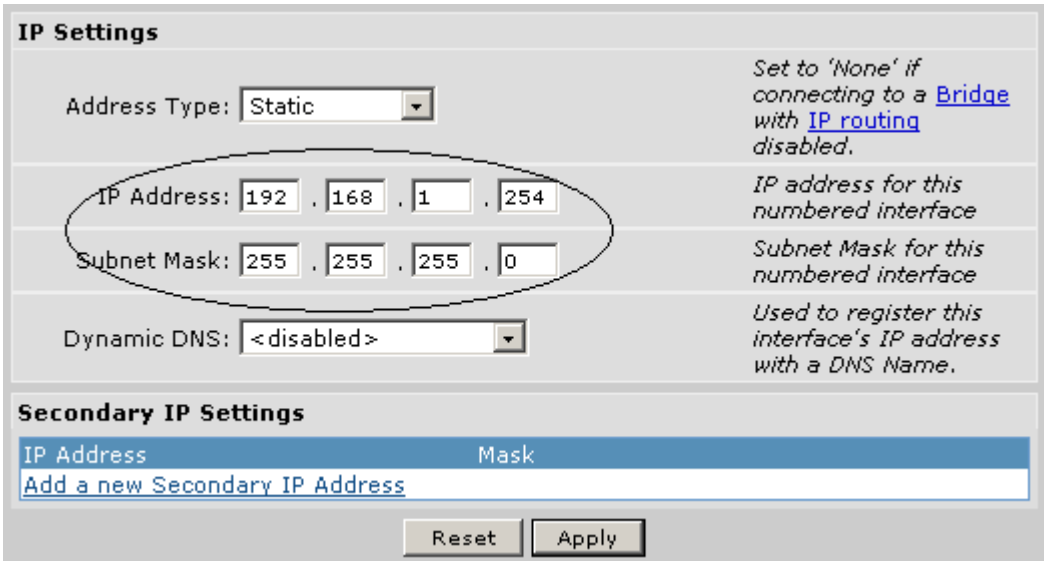
1. Choose "Physical Interfaces" from the left hand side menu options.



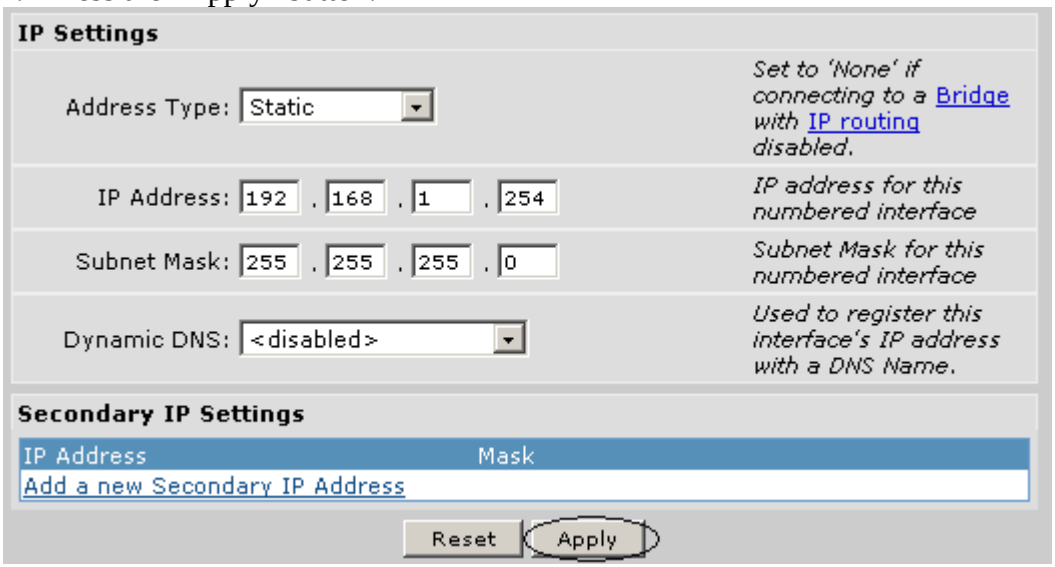
2. Choose "eth 0/1" from the list of physical interfaces displayed.



3. Under the "IP Settings" section type in the new "IP Address" and "Subnet Mask" you would like to use. In the application drawings example the IP address 192.168.1.254 is used.

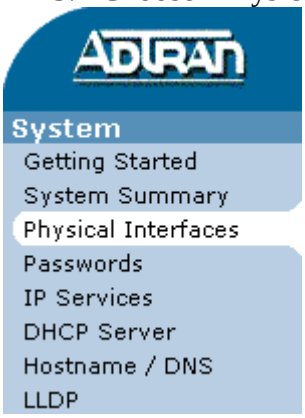


4. Press the “Apply” button.

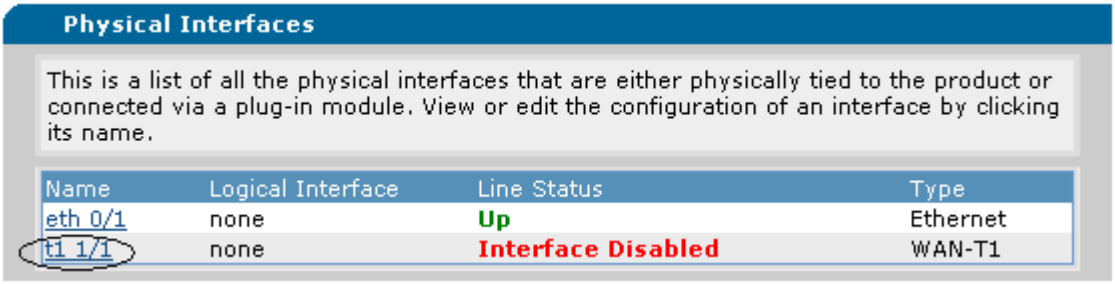


Note: If you choose to change the IP address of Ethernet 0/1, you will need to change the IP address of your workstation to an IP on the same network as Ethernet 0/1 to continue configuring the router.

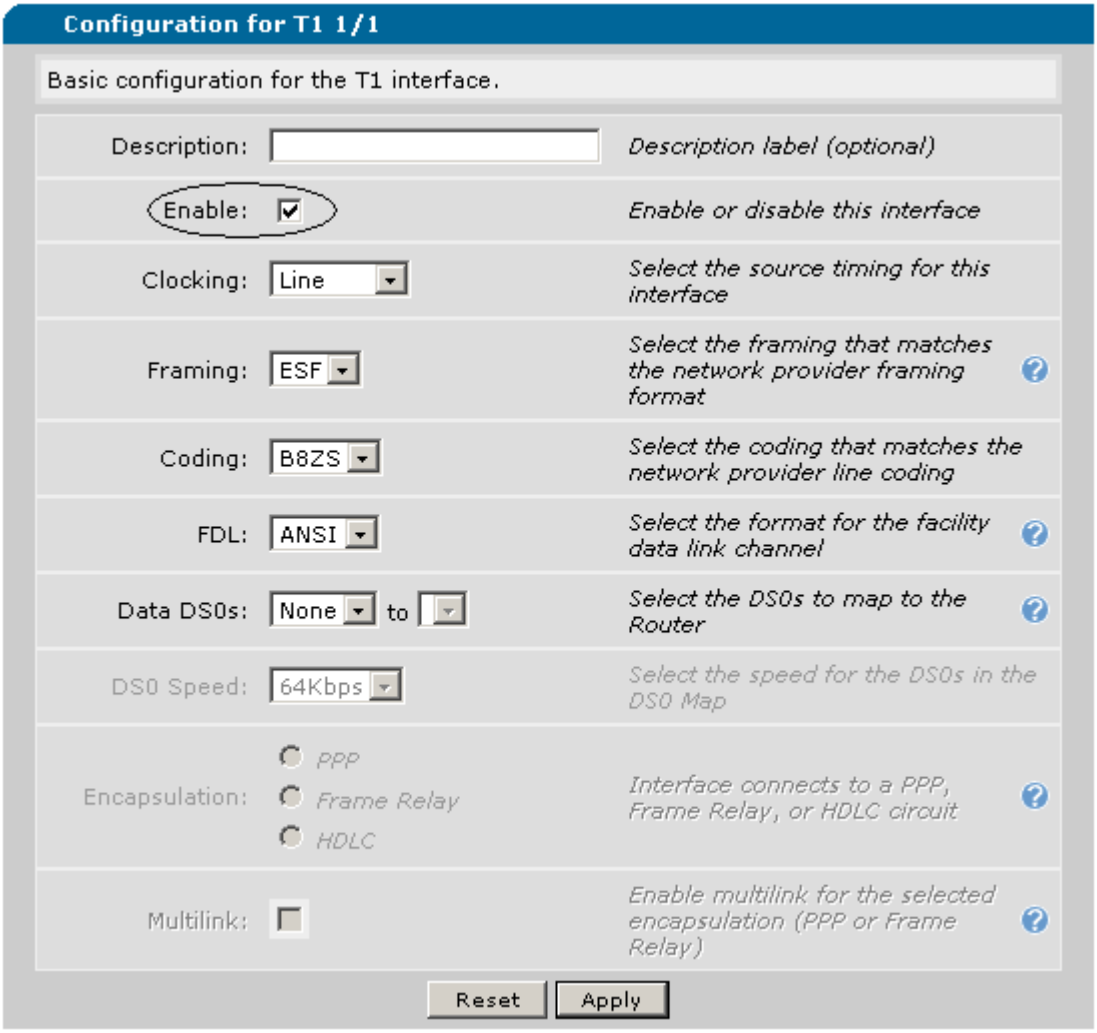
5. Choose "Physical Interfaces" from the left hand side menu options.



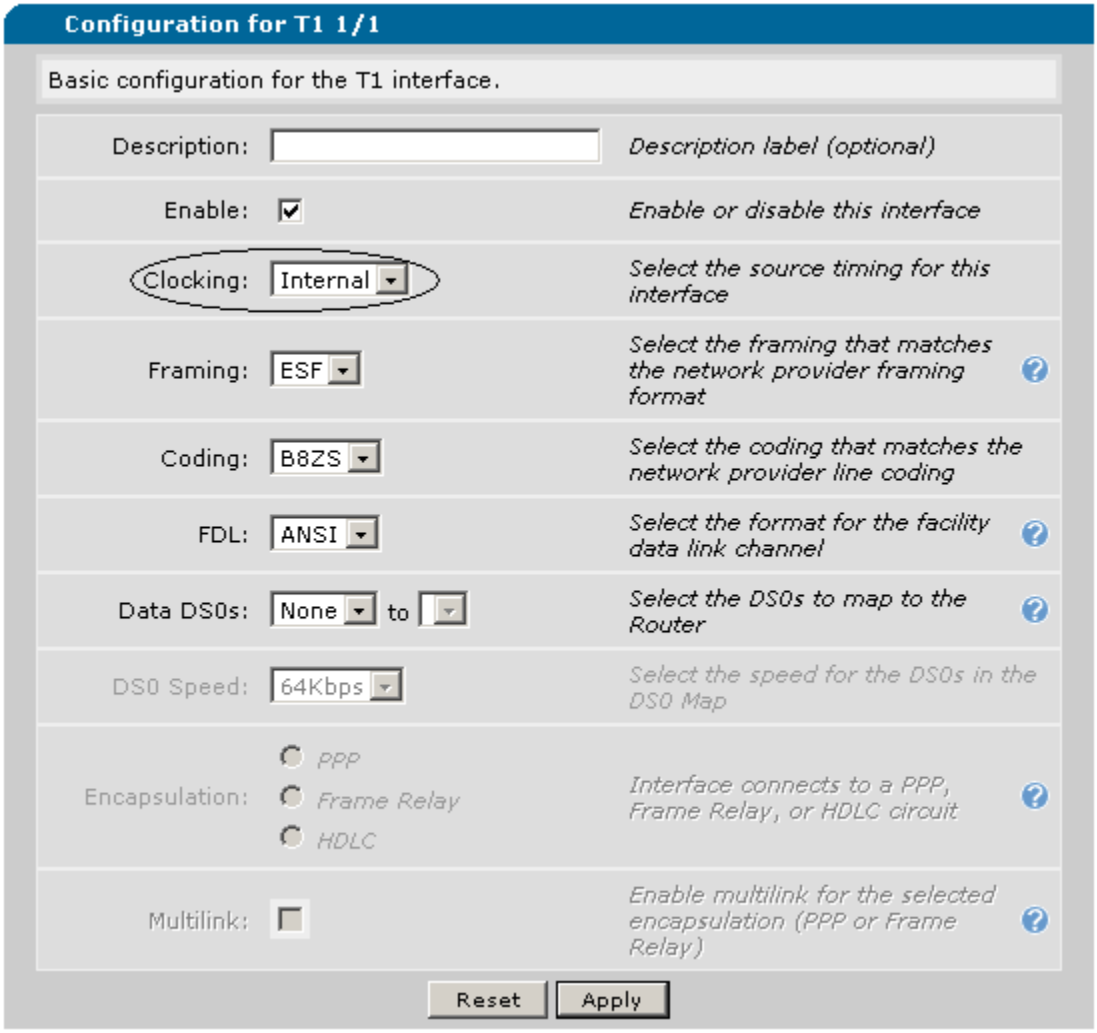
6. Choose "t1 1/1" from the list of physical interfaces displayed.



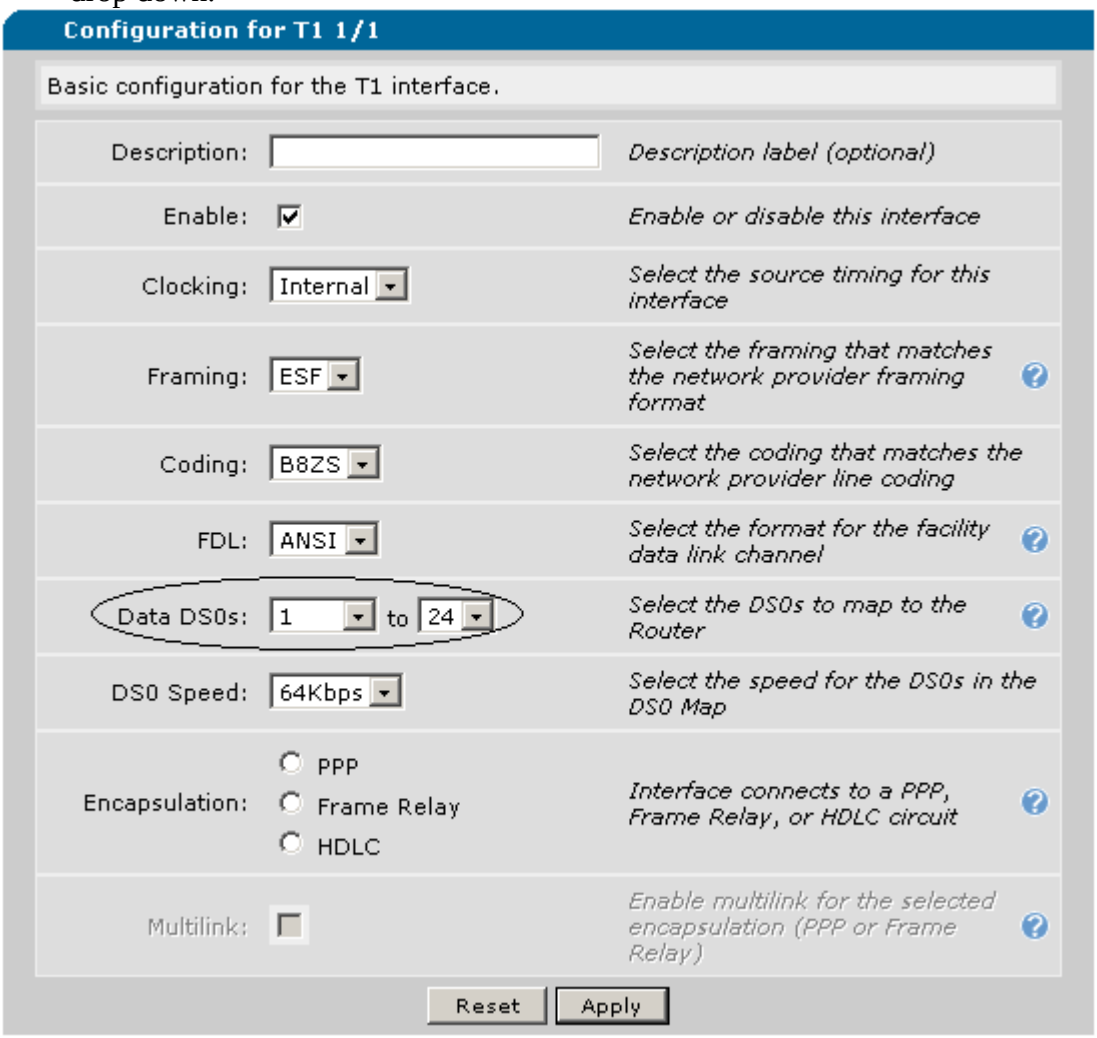
7. Checked the box next to "Enable".



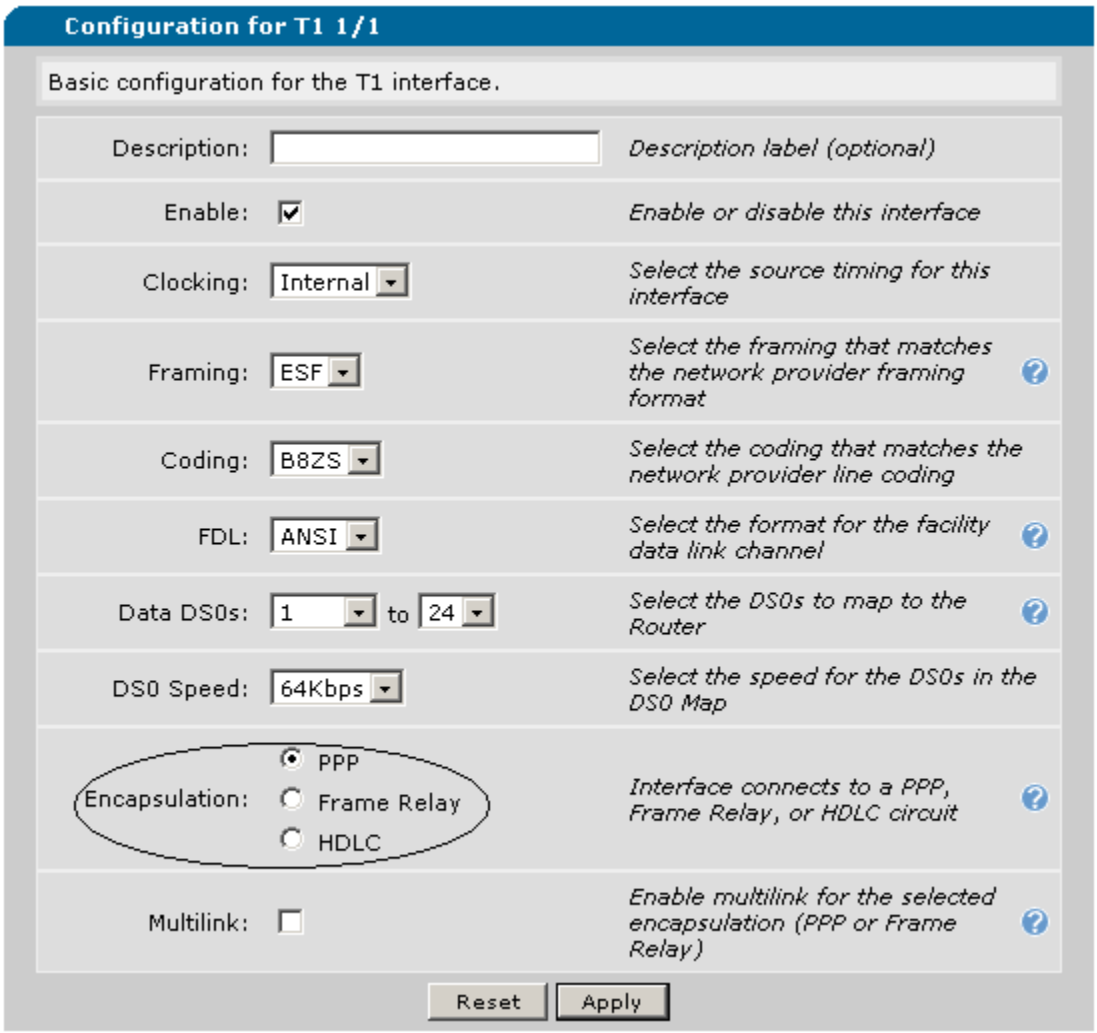
8. Next to “Clocking” choose “Internal”.



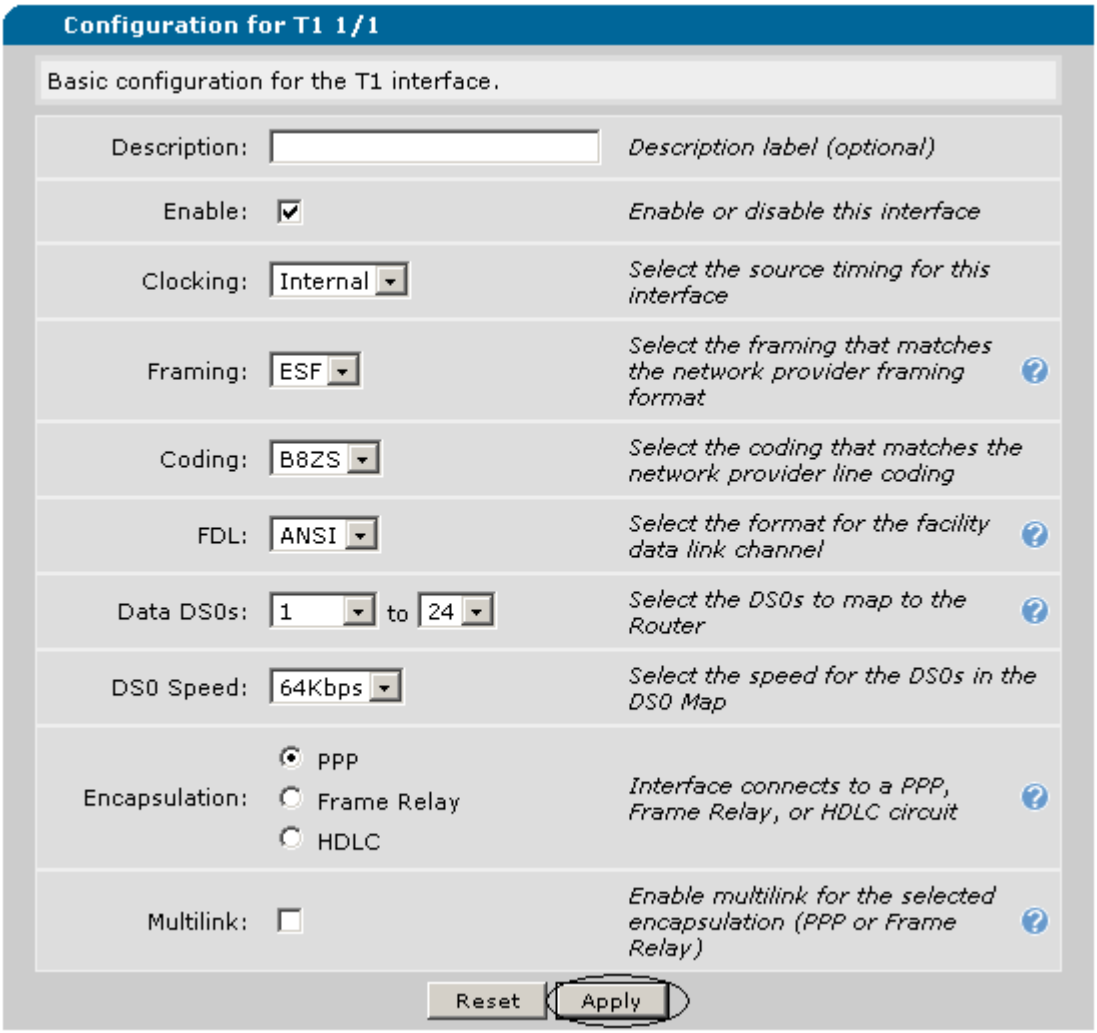
9. Choose "1" in the first drop down next to "Data DS0s" and "24" in the second drop down.



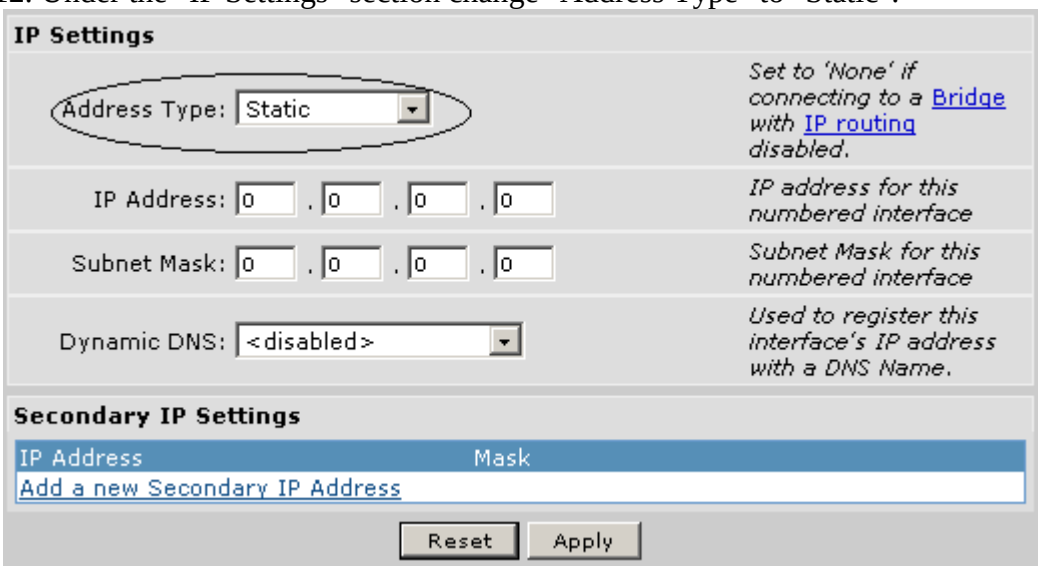
10. Choose "PPP" next to "Encapsulation".



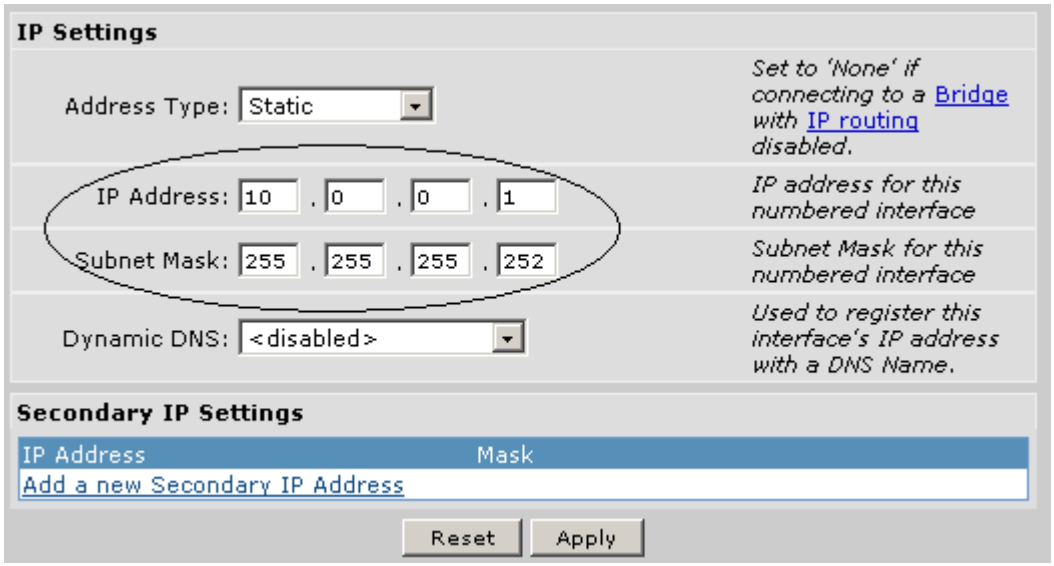
11. Press "Apply" and new screen will appear that is titled "PPP Configuration for ppp 1".



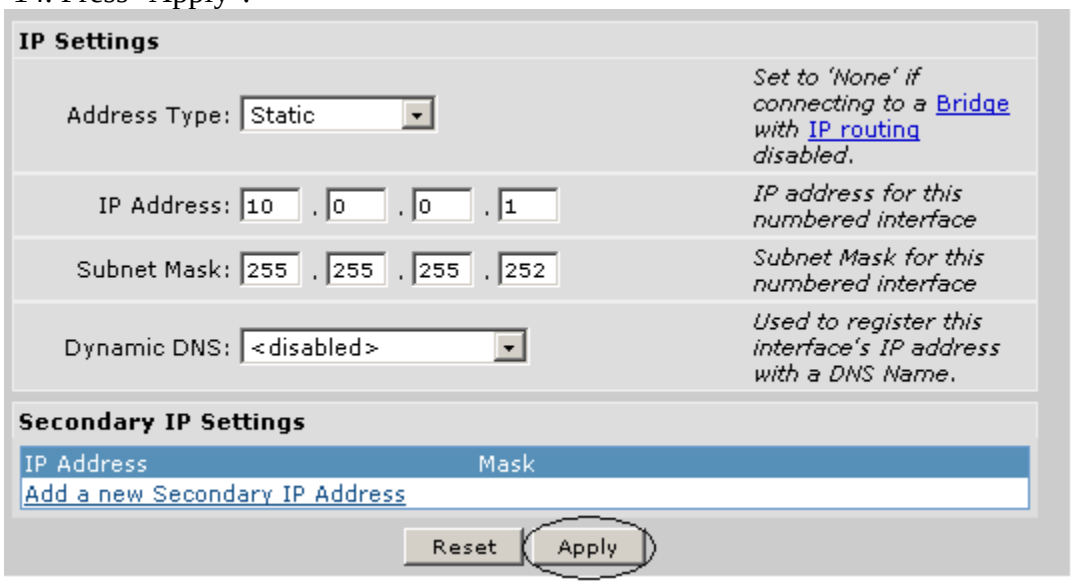
12. Under the "IP Settings" section change "Address Type" to "Static".



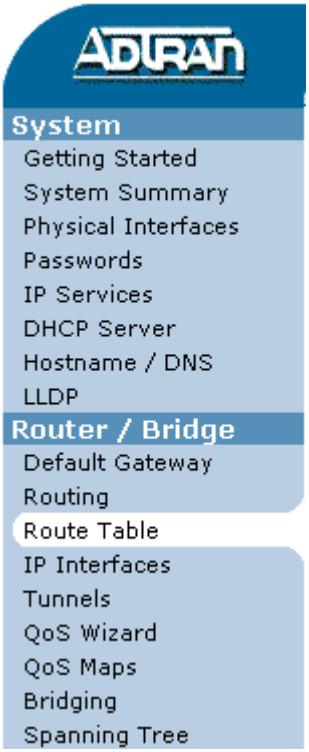
13. Fill in the "IP Address" and "Subnet Mask" you would like to use. In the example it would be 10.0.0.1 and 255.255.255.252



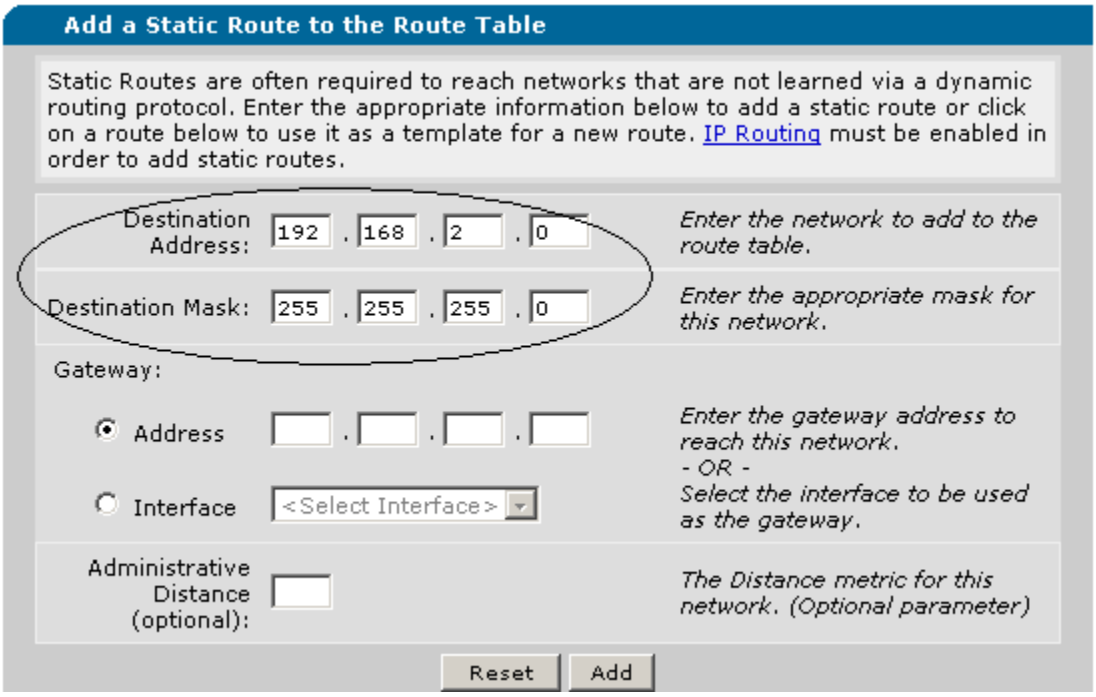
14. Press "Apply".



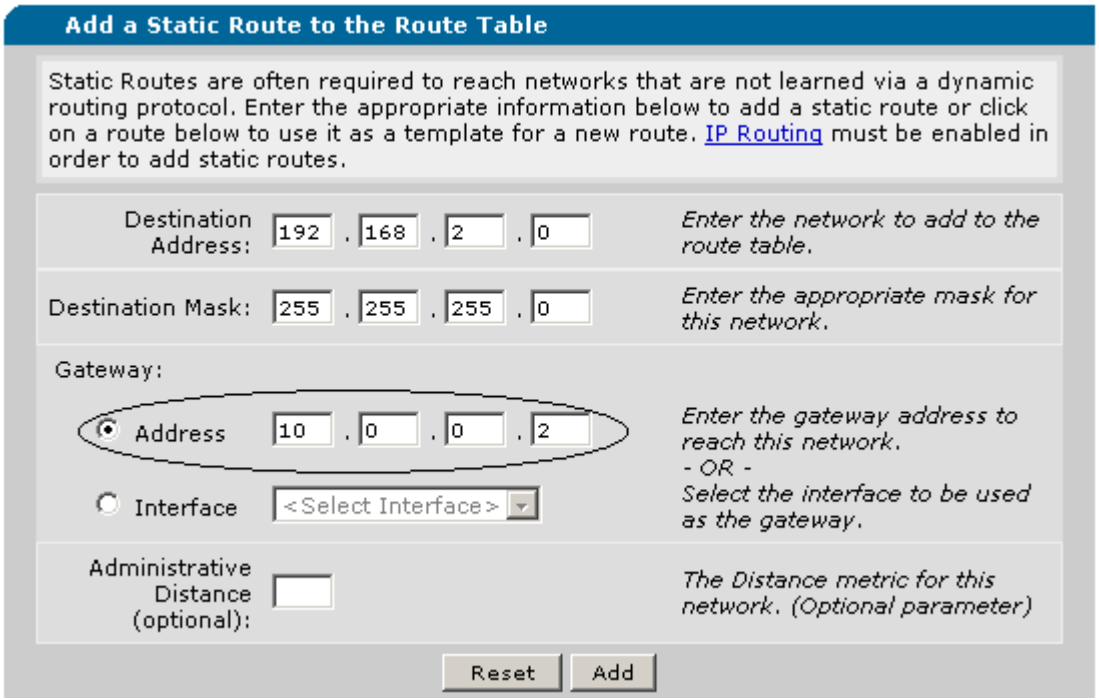
15. Choose "Route Table" from the left hand side menu options.



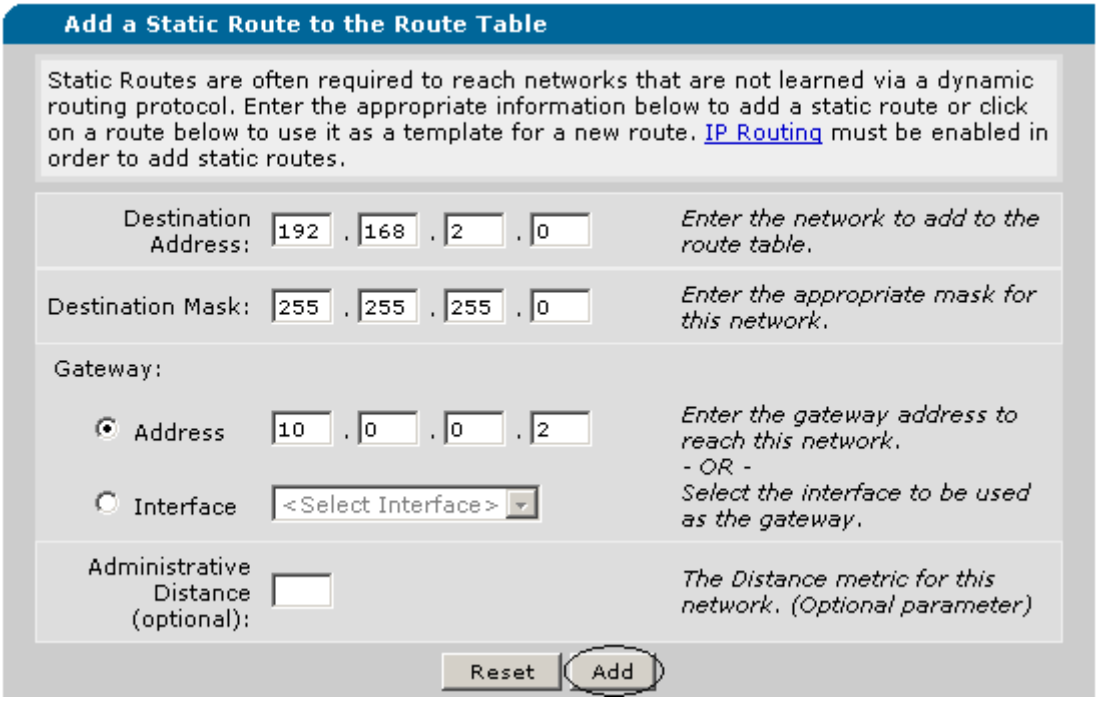
16. Fill in 192.168.2.0 for the "Destination Address" and 255.255.255.0 for the "Destination Mask".



17. Choose "Address" under "Gateway" and type 10.0.0.2



18. Press "Add".



19. Configuration is now done and all that left to do is choose "Save" in the upper right hand corner.

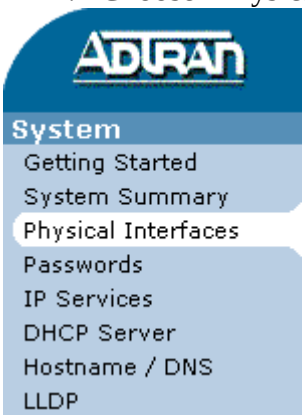
Configuration Script for the NetVanta 3200/3205 “Host Router”:

```
!
!
hostname "HostRouter"
enable password adtran
!
ip subnet-zero
ip classless
ip routing
!
event-history on
no logging forwarding
no logging email
logging email priority-level info
!
username "admin" password "adtran"
!
ip policy-timeout tcp telnet 14400
!
!
!
!
!
!
!
!
!
!
!
interface eth 0/1
  ip address  192.168.1.254  255.255.255.0
  no shutdown
!
!
!
interface t1 1/1
  clock source internal
  tdm-group 1 timeslots 1-24 speed 64
  no shutdown
!
interface ppp 1
  ip address  10.0.0.1  255.255.255.252
  no shutdown
  cross-connect 1 t1 1/1 1 ppp 1
!
```

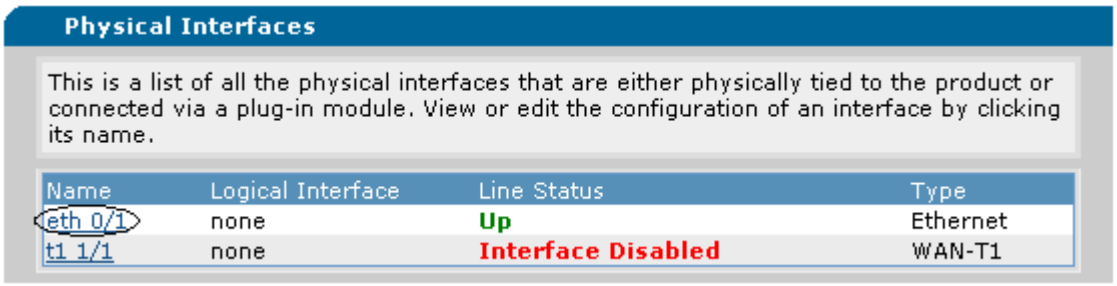
```
!
!
!
!
ip route 192.168.2.0 255.255.255.0 10.0.0.2
!
no ip n-form agent
ip http server
no ip http secure-server
no ip snmp agent
no ip ftp agent
!
!
!
!
!
!
!
line con 0
  no login
!
line telnet 0 4
  login
  password adtran
!
end
```

Configuration steps using the web interface for NetVanta 3200/3205 “Remote Router”:

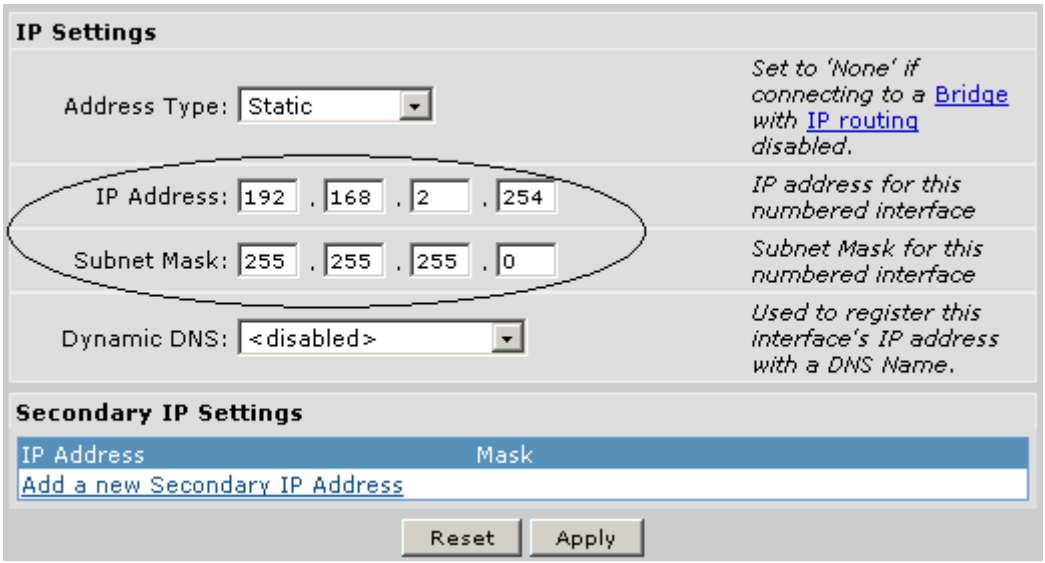
1. Choose "Physical Interfaces" from the left hand side menu options.



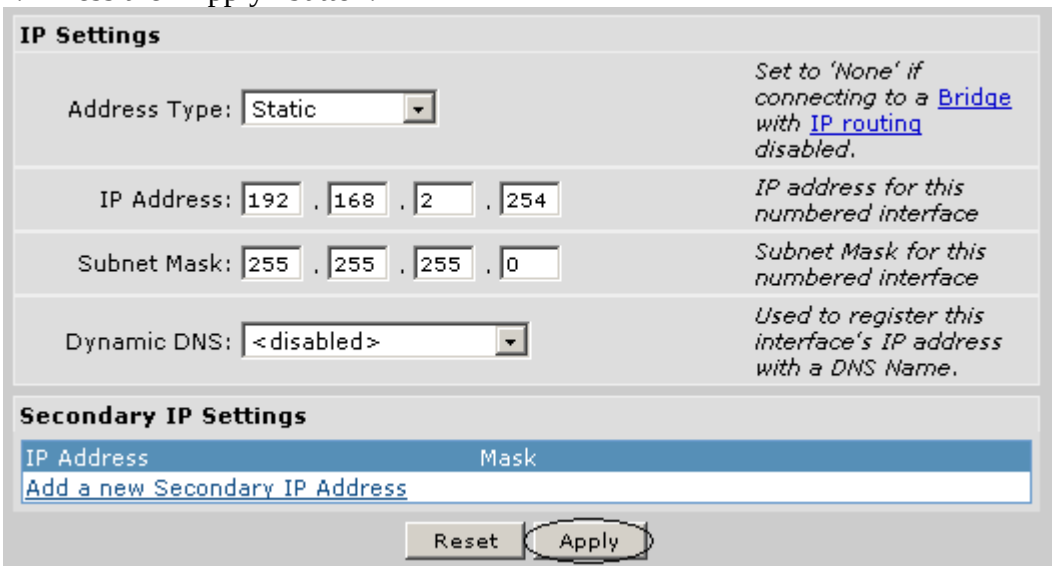
2. Choose "eth 0/1" from the list of physical interfaces displayed.



3. Under the "IP Settings" section type in the new "IP Address" and "Subnet Mask" you would like to use. In the application drawings example, the IP address 192.168.2.254 is used.

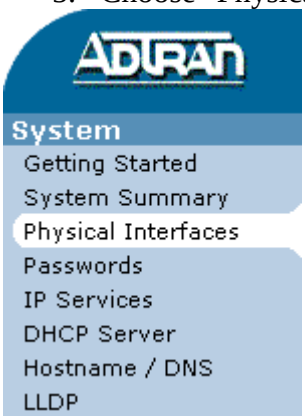


4. Press the “Apply” button.

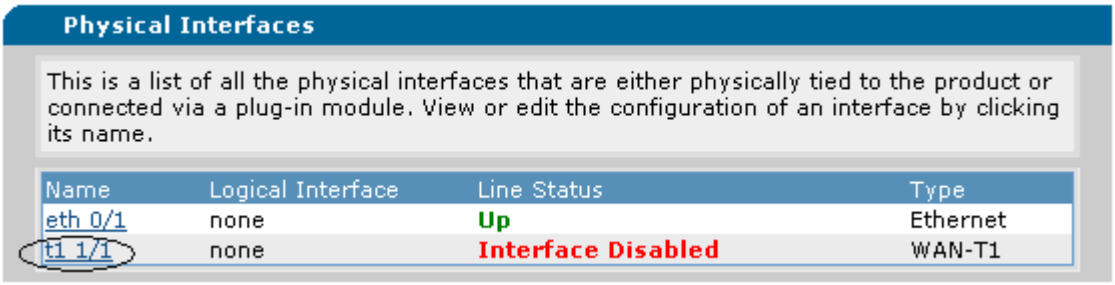


Note: If you choose to change the IP address of Ethernet 0/1, you will need to change the IP address of your workstation to an IP on the same network as Ethernet 0/1 to continue configuring the router.

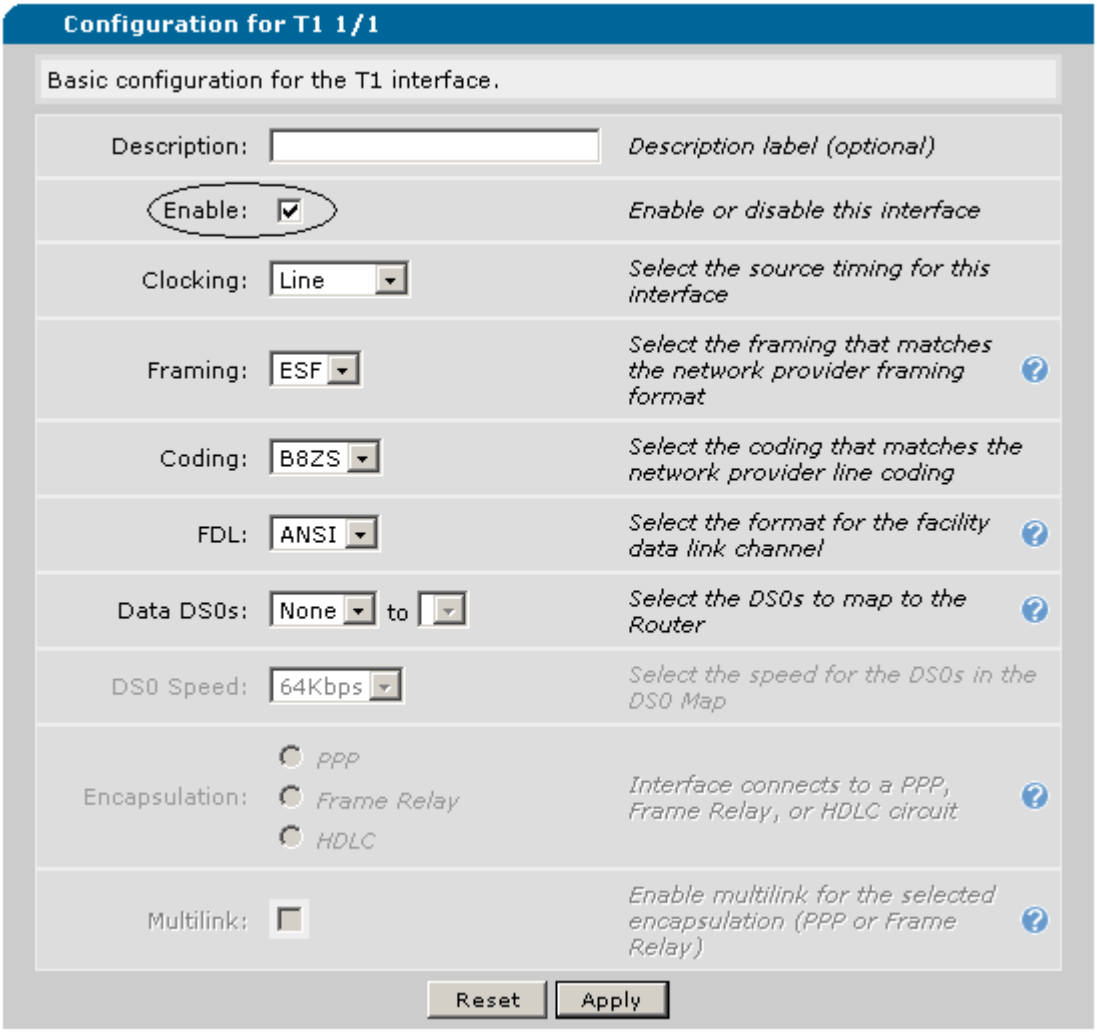
5. Choose "Physical Interfaces" from the left hand side menu options.



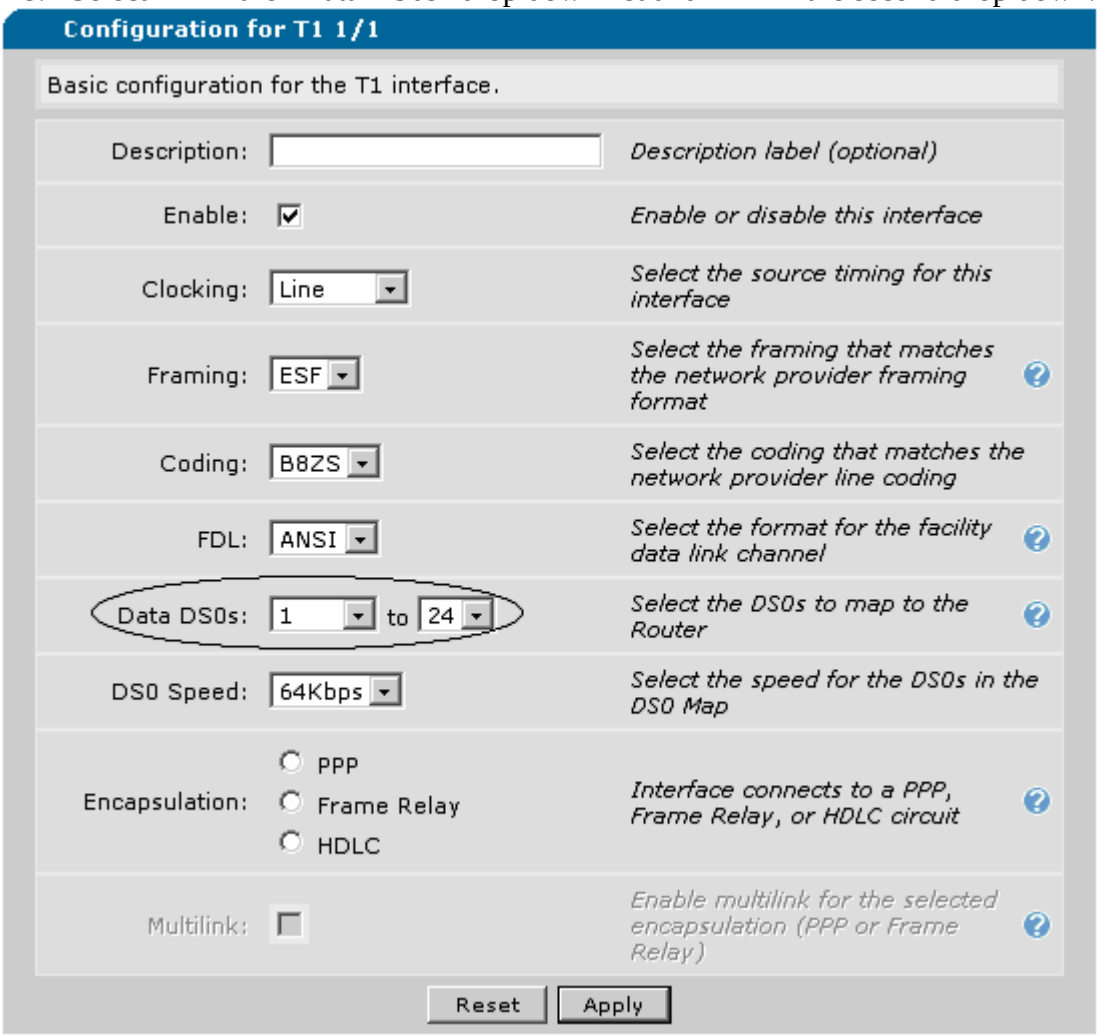
6. Choose "t1 1/1" from the list of physical interfaces displayed.



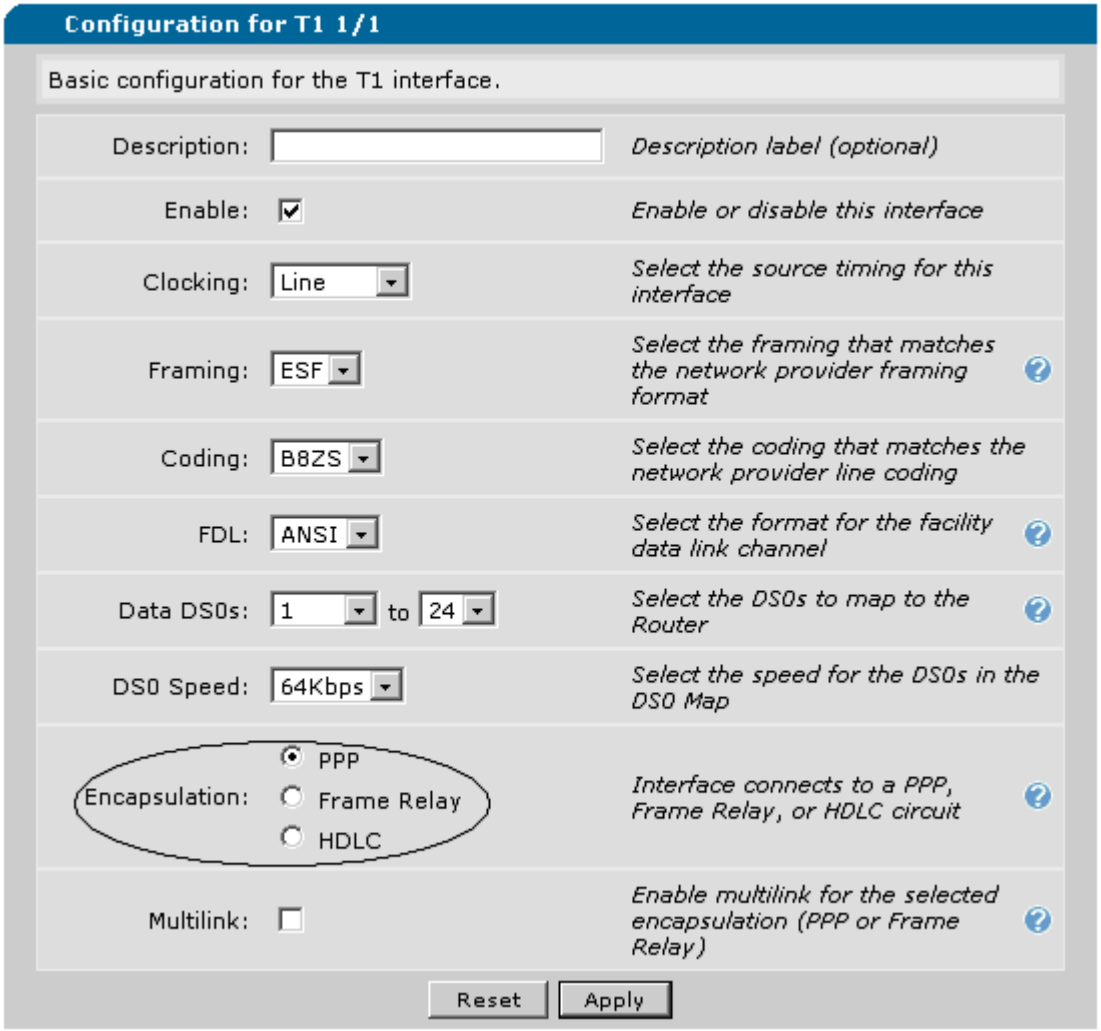
7. Check the box next to "Enable", to enable the interface.



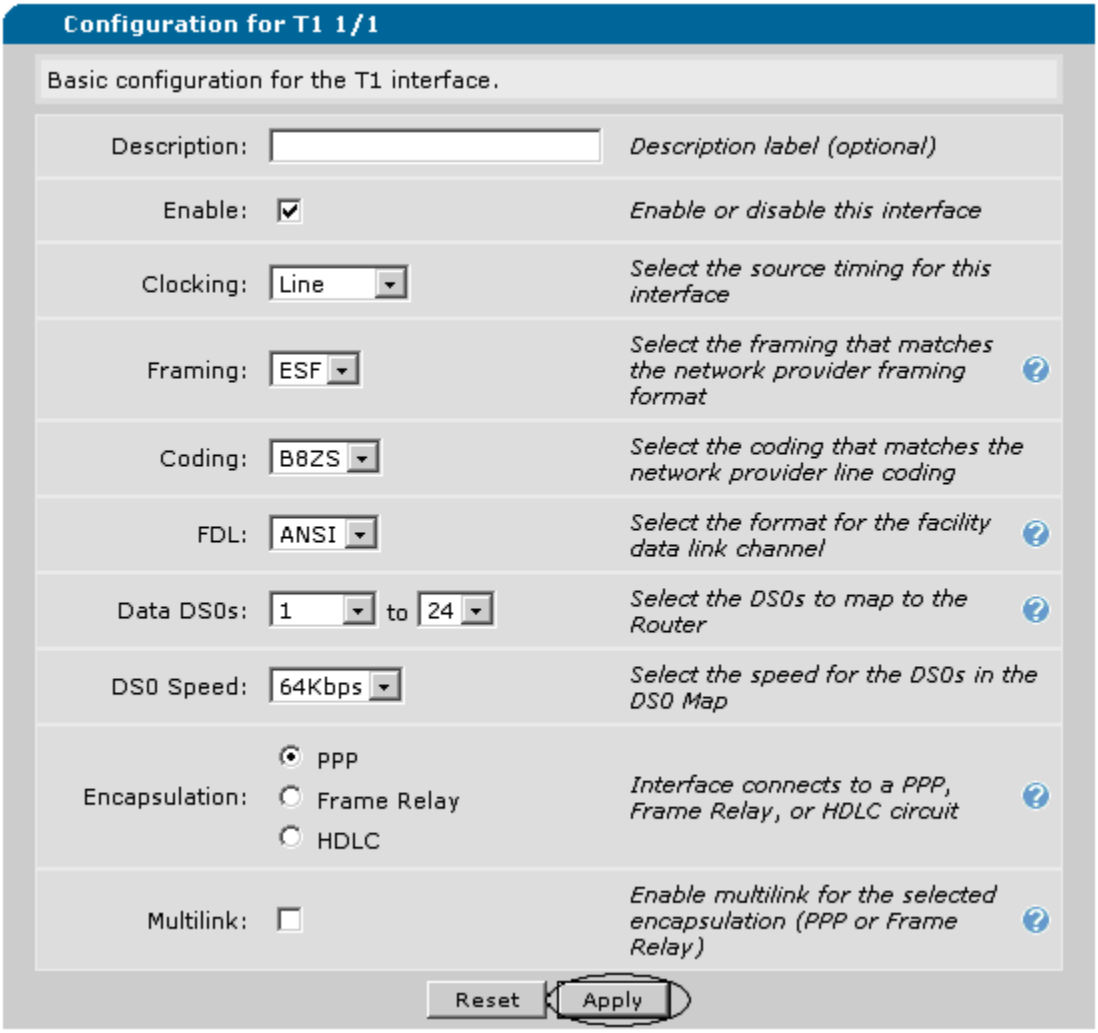
8. Select "1" in the “Data DS0s” drop down list and "24" in the second drop down.



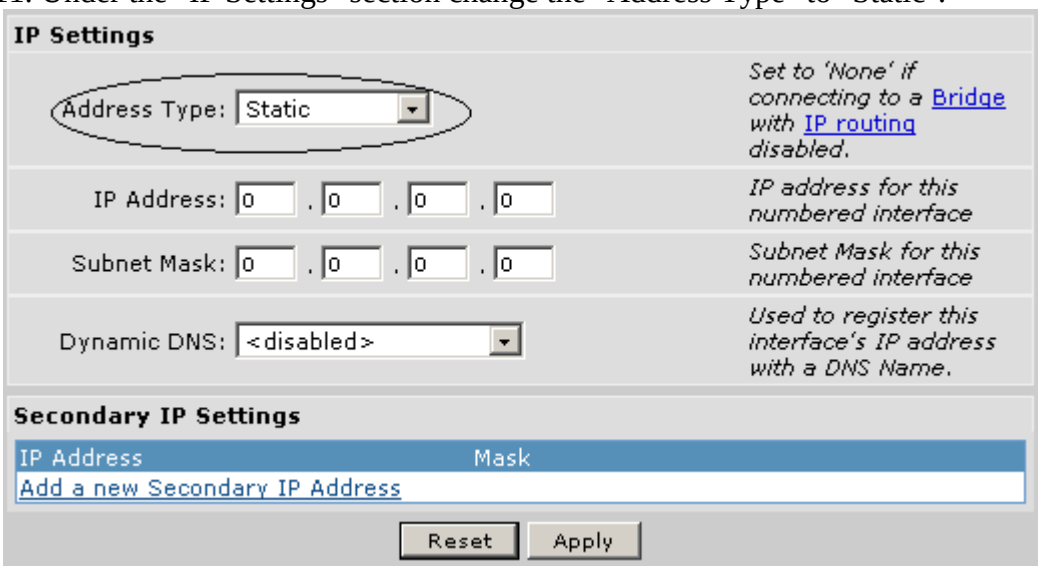
9. Choose "PPP" from the "Encapsulation" options.



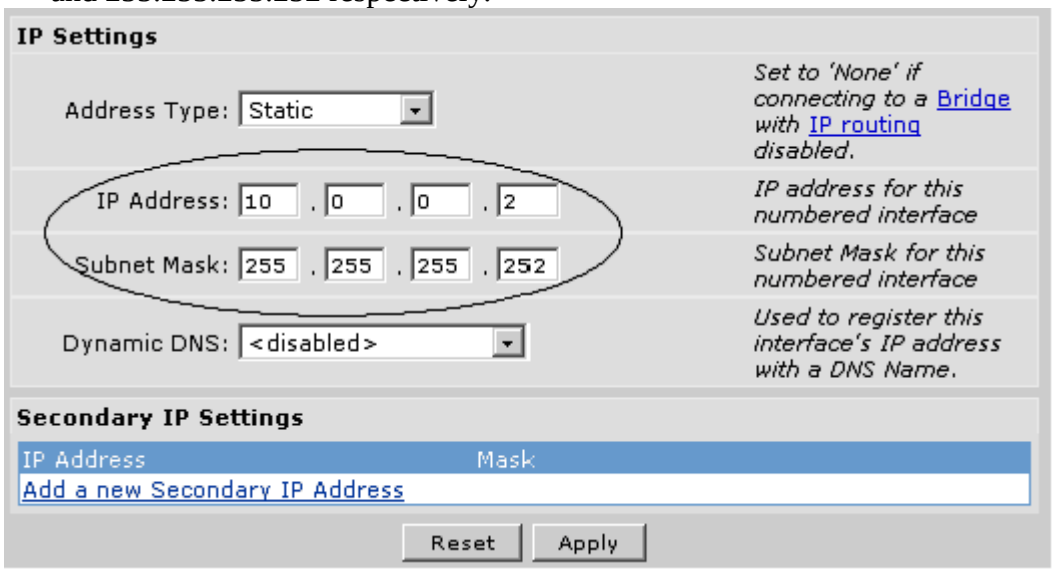
10. Press "Apply" and a new screen will appear to configure the PPP interface.



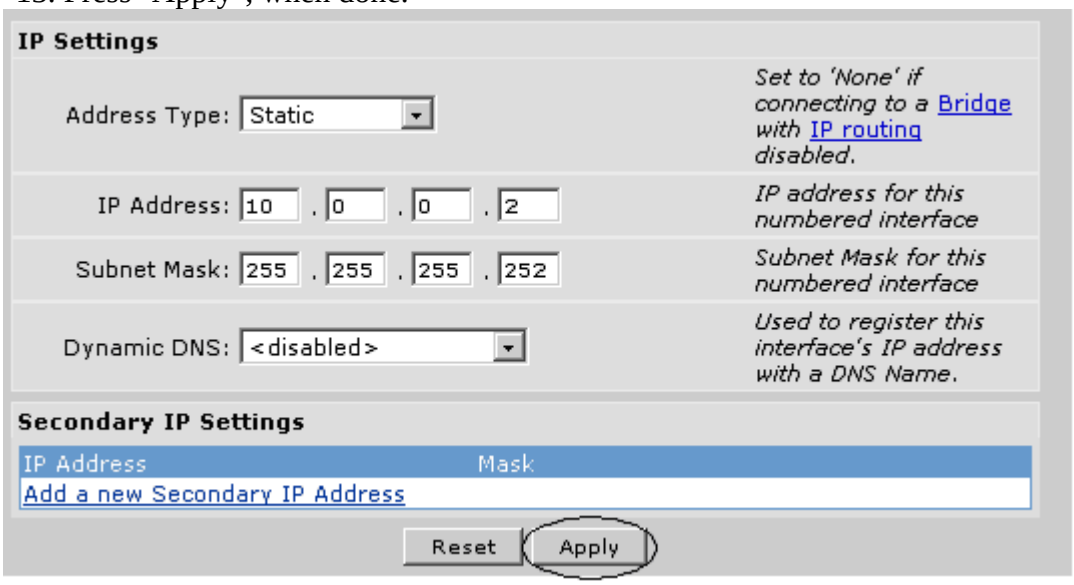
11. Under the "IP Settings" section change the "Address Type" to "Static".



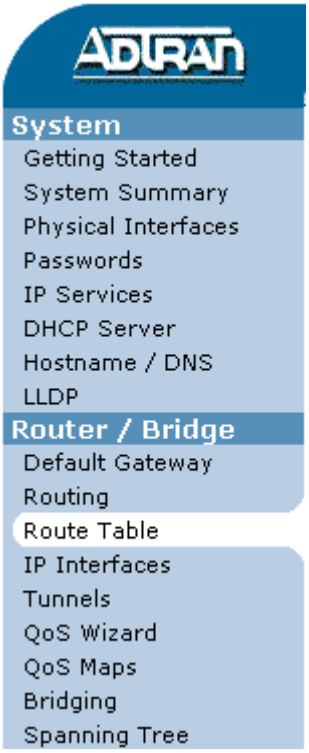
12. Fill in the "IP Address" and "Subnet Mask" you would like to use. In the application drawings example the IP address and subnet mask would be 10.0.0.2 and 255.255.255.252 respectively.



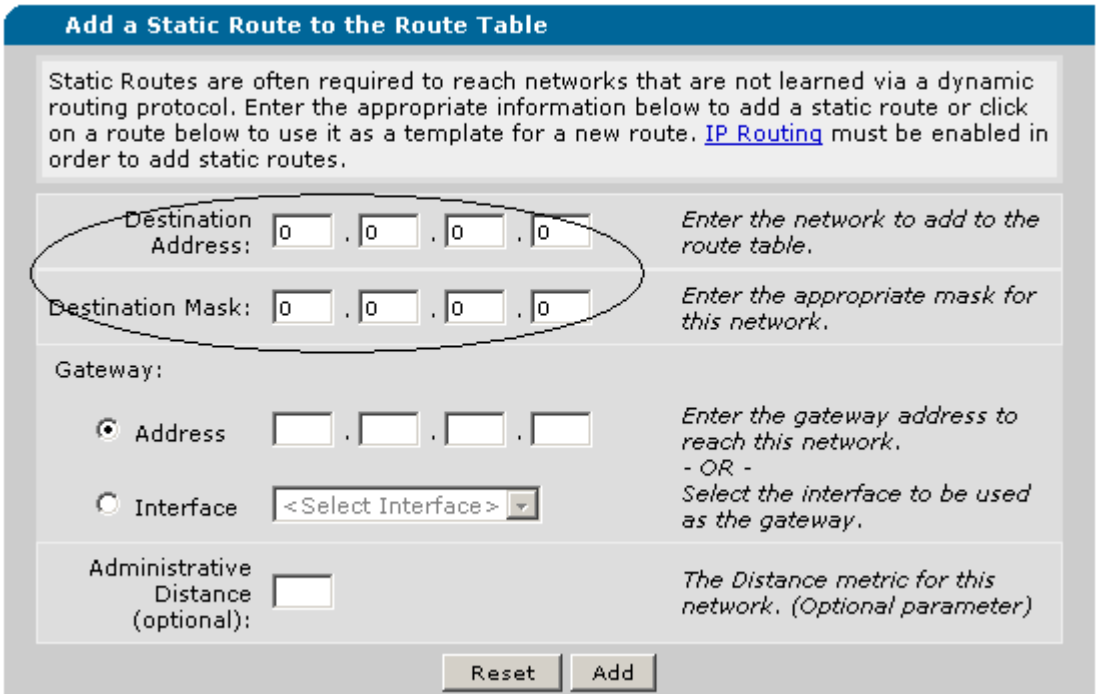
13. Press "Apply", when done.



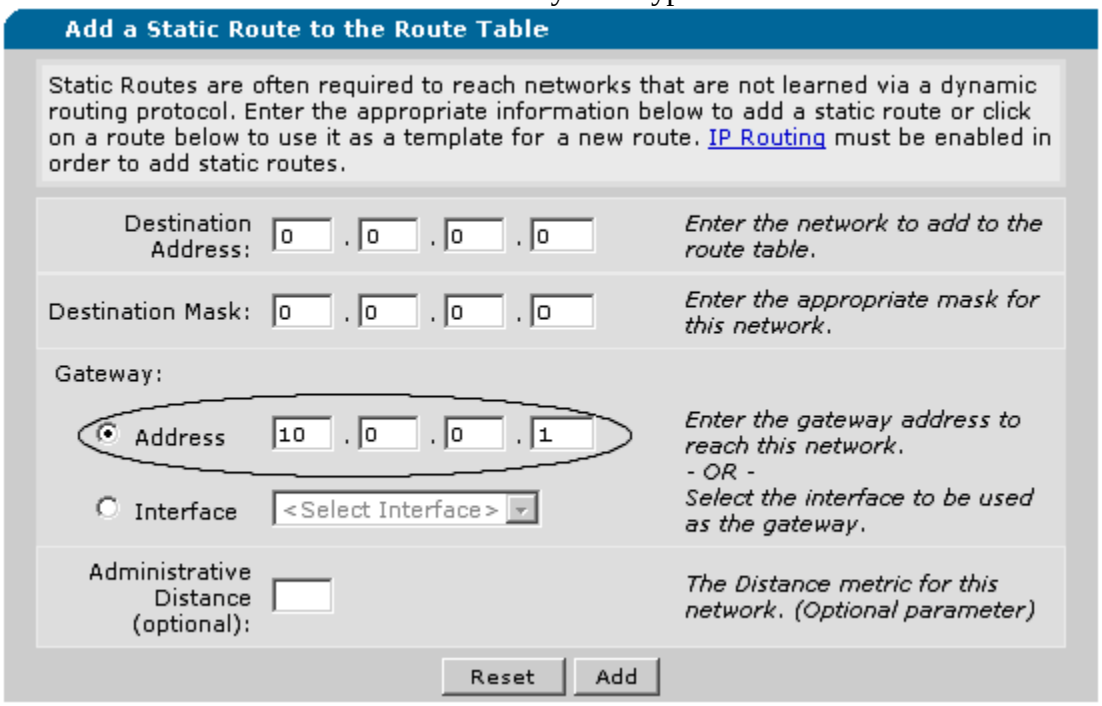
14. Choose "Route Table" from the left hand side menu options.



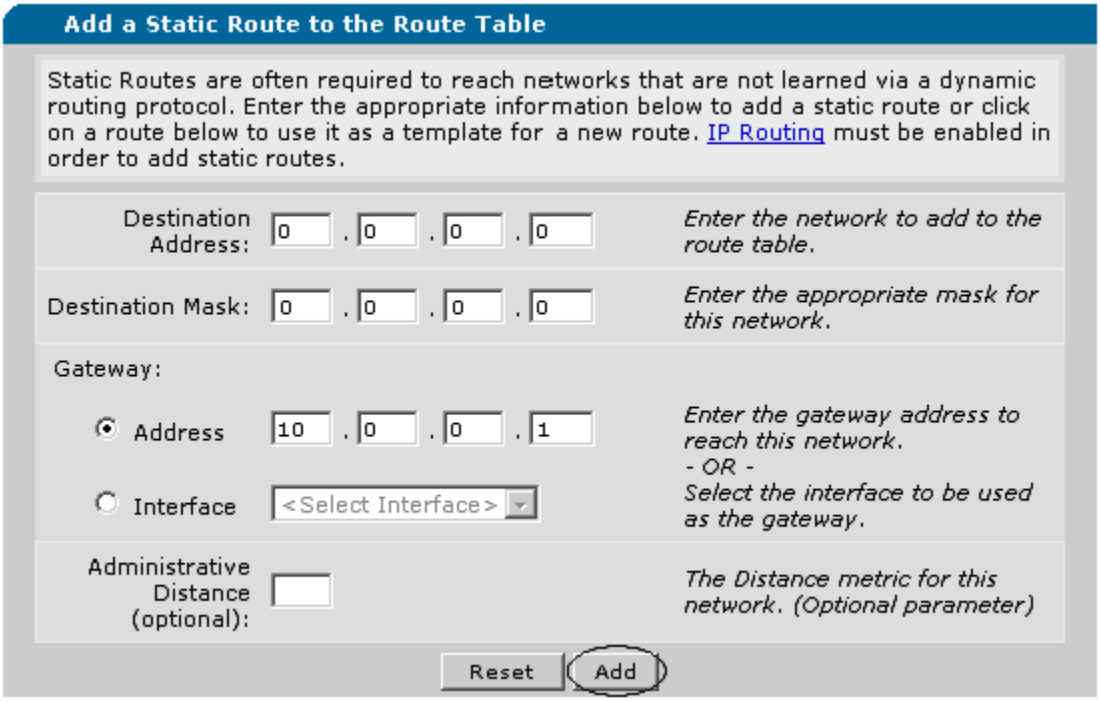
15. Using the information for the application drawings example, fill in 0.0.0.0 for the "Destination Address" and 0.0.0.0 for the "Destination Mask".



16. Choose "Address" under the "Gateway" and type 10.0.0.1



17. Press "Add".



18. Configuration is now done and all that left to do is choose "Save" in the upper right hand corner.

Configuration Script for the NetVanta 3200/3205 “Remote Router”:

```
!
!
hostname "RemoteRouter"
enable password adtran
!
ip subnet-zero
ip classless
ip routing
!
event-history on
no logging forwarding
no logging email
logging email priority-level info
!
username "admin" password "adtran"
!
ip policy-timeout tcp telnet 14400
!
!
!
!
!
!
!
!
!
!
!
interface eth 0/1
  ip address  192.168.2.254  255.255.255.0
  no shutdown
!
!
!
interface t1 1/1
  tdm-group 1 timeslots 1-24 speed 64
  no shutdown
!
interface ppp 1
  ip address  10.0.0.2  255.255.255.252
  no shutdown
  cross-connect 1 t1 1/1 1 ppp 1
!
```

```
!
!
!
!
ip route 0.0.0.0 0.0.0.0 10.0.0.1
!
no ip n-form agent
ip http server
no ip http secure-server
no ip snmp agent
no ip ftp agent
!
!
!
!
!
!
!
line con 0
  no login
!
line telnet 0 4
  login
  password adtran
!
end
```