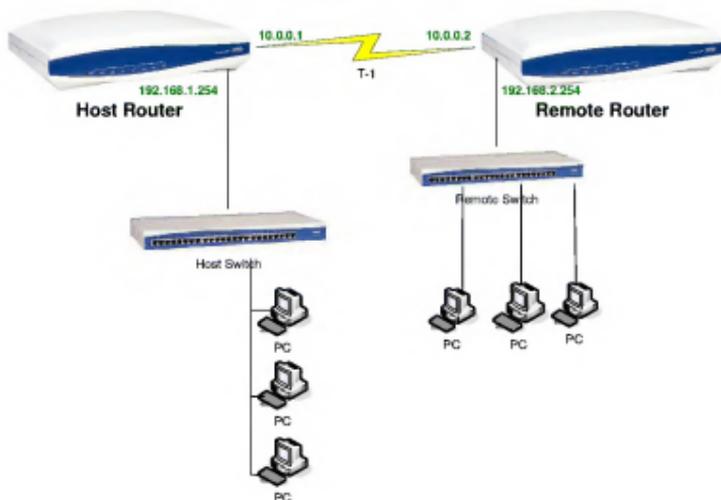


## Netvanta 3200/3205: Routing across the WAN



## Overview

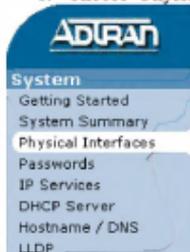
This application drawing shows how to use NetVanta 3200s or NetVanta 3205s in a scenario where there is a point-to-point T-1 that is used for data. The IP addresses used in the configuration script and configuration steps are just examples and maybe modified to fit your network.

## Table of Contents

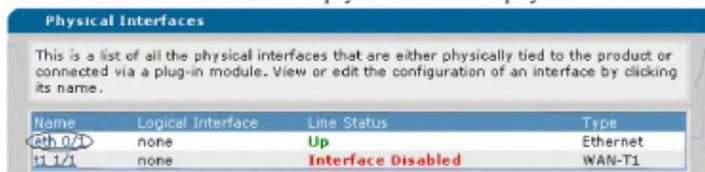
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## Configuration steps using the web interface for NetVanta 3200/3205 "Host Router":

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.

The screenshot shows the "IP Settings" configuration page. The "Address Type" is set to "Static". The "IP Address" field is circled in red and contains the value 192.168.1.254. The "Subnet Mask" field contains the value 255.255.255.0. The "Dynamic DNS" field is set to "<disabled>".

**IP Settings**

Address Type:

IP Address:  .  .  .

Subnet Mask:  .  .  .

Dynamic DNS:

*Set to "None" if connecting to a bridge with IP routing disabled.*

*IP address for this numbered interface*

*Subnet Mask for this numbered interface*

*Used to register this interface's IP address with a DNS Name.*

**Secondary IP Settings**

| IP Address  | Mask |
|---|------|
| <input type="text" value="Add a new Secondary IP Address"/> |      |

4. Press the "Apply" button.

**IP Settings**

Address Type:

IP Address:  .  .  .

Subnet Mask:  .  .  .

Dynamic DNS:

*Set to 'None' if connecting to a Bridge with IP routing disabled.*

*IP address for this numbered interface*

*Subnet Mask for this numbered interface*

*Used to register this interface's IP address with a DNS Name.*

**Secondary IP Settings**

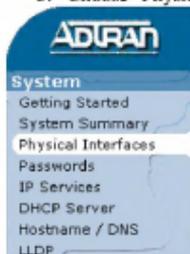
IP Address Mask

Add a new Secondary IP Address

Reset **Apply**

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 "tl 1/1" from the list of physical interfaces displayed.

**Physical Interfaces**

This is a list of all the physical interfaces that are either physically tied to the product or connected via a plug-in module. View or edit the configuration of an interface by clicking its name.

| Name          | Logical Interface | Line Status               | Type     |
|---------------|-------------------|---------------------------|----------|
| eth 0/1       | none              | Up                        | Ethernet |
| <b>tl 1/1</b> | none              | <b>Interface Disabled</b> | WAN-T1   |

7. Checked the box next to "Enable".

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |  |  |
|----------------|--|--|
| Description:   | <input type="text"/>   | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>  | Enable or disable this interface                                     |
| Clocking:      | <input type="text" value="Line"/>  | Select the source timing for this interface                          |
| Framing:       | <input type="text" value="ESF"/>   | Select the framing that matches the network provider framing format  |
| Coding:        | <input type="text" value="B8ZS"/>  | Select the coding that matches the network provider line coding      |
| FDL:           | <input type="text" value="ANSI"/>  | Select the format for the facility data link channel                 |
| Data DS0s:     | <input type="text" value="None"/> to <input type="text" value="1"/>                          | Select the DS0s to map to the Router                                 |
| DS0 Speed:     | <input type="text" value="64Kbps"/>  | Select the speed for the DS0s in the DS0 Map                         |
| Encapsulation: | <input type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>   | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

8. Next to "Clocking" choose "Internal".

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |  |  |
|----------------|--|--|
| Description:   | <input type="text"/>   | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>  | Enable or disable this interface                                     |
| Clocking:      | <input type="text" value="Internal"/>  | Select the source timing for this interface                          |
| Framing:       | <input type="text" value="ESF"/>   | Select the framing that matches the network provider framing format  |
| Coding:        | <input type="text" value="B8ZS"/>  | Select the coding that matches the network provider line coding      |
| FDL:           | <input type="text" value="ANSI"/>  | Select the format for the facility data link channel                 |
| Data DS0s:     | <input type="text" value="None"/> to <input type="text" value=""/>                           | Select the DS0s to map to the Router                                 |
| DS0 Speed:     | <input type="text" value="64Kbps"/>  | Select the speed for the DS0s in the DS0 Map                         |
| Encapsulation: | <input type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>   | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

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

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |  |  |
|----------------|--|--|
| Description:   | <input type="text"/>   | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>  | Enable or disable this interface                                     |
| Clocking:      | <input type="text" value="Internal"/>  | Select the source timing for this interface                          |
| Framing:       | <input type="text" value="ESF"/>   | Select the framing that matches the network provider framing format  |
| Coding:        | <input type="text" value="B8ZS"/>  | Select the coding that matches the network provider line coding      |
| FDL:           | <input type="text" value="ANSI"/>  | Select the format for the facility data link channel                 |
| Data DS0s:     | <input type="text" value="1"/> to <input type="text" value="24"/>                            | Select the DS0s to map to the Router                                 |
| DSD Speed:     | <input type="text" value="64Kbps"/>  | Select the speed for the DS0s in the DSD Map                         |
| Encapsulation: | <input type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>   | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

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

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |   |  |
|----------------|---|--|
| Description:   | <input type="text"/>  | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>   | Enable or disable this interface                                     |
| Clocking:      | <input type="text" value="Internal"/>   | Select the source timing for this interface                          |
| Framing:       | <input type="text" value="ESF"/>  | Select the framing that matches the network provider framing format  |
| Coding:        | <input type="text" value="B8ZS"/>   | Select the coding that matches the network provider line coding      |
| FDL:           | <input type="text" value="ANSI"/>   | Select the format for the facility data link channel                 |
| Date DS0s:     | <input type="text" value="1"/> to <input type="text" value="24"/>                                       | Select the DS0s to map to the Router                                 |
| DS0 Speed:     | <input type="text" value="64Kbps"/>   | Select the speed for the DS0s in the DS0 Map                         |
| Encapsulation: | <input checked="" type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>  | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

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

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |   |  |
|----------------|---|--|
| Description:   | <input type="text"/>  | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>   | Enable or disable this interface                                     |
| Clocking:      | <input type="text" value="Internal"/>   | Select the source timing for this interface                          |
| Framing:       | <input type="text" value="ESF"/>  | Select the framing that matches the network provider framing format  |
| Coding:        | <input type="text" value="B8ZS"/>   | Select the coding that matches the network provider line coding      |
| FDL:           | <input type="text" value="ANSI"/>   | Select the format for the facility data link channel                 |
| Data DS0s:     | <input type="text" value="1"/> to <input type="text" value="24"/>                                       | Select the DS0s to map to the Router                                 |
| DS0 Speed:     | <input type="text" value="64Kbps"/>   | Select the speed for the DS0s in the DS0 Map                         |
| Encapsulation: | <input checked="" type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>  | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

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

| IP Settings  |  |
|--|--|
| Address Type: <input type="text" value="Static"/>  | <i>Set to 'None' if connecting to a <a href="#">Bridge</a> with <a href="#">IP routing</a> disabled.</i> |
| IP Address: <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/>  | <i>IP address for this numbered interface</i>  |
| Subnet Mask: <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> | <i>Subnet Mask for this numbered interface</i>   |
| Dynamic DNS: <input type="text" value="&lt;disabled&gt;"/>   | <i>Used to register this interface's IP address with a DNS Name.</i>                                     |
| Secondary IP Settings  |  |
| IP Address   | Mask   |
| <input type="text" value="Add a new Secondary IP Address"/>  |  |
| <input type="button" value="Reset"/> <input type="button" value="Apply"/>  |  |

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

| IP Settings  |  |
|--|--|
| Address Type: <input type="text" value="Static"/>  | <i>Set to 'None' if connecting to a <a href="#">Bridge</a> with <a href="#">IP routing</a> disabled.</i> |
| IP Address: <input type="text" value="10"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="1"/>         | <i>IP address for this numbered interface</i>  |
| Subnet Mask: <input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="252"/> | <i>Subnet Mask for this numbered interface</i>   |
| Dynamic DNS: <input type="text" value="&lt;disabled&gt;"/>   | <i>Used to register this interface's IP address with a DNS Name.</i>                                     |
| Secondary IP Settings  |  |
| IP Address   | Mask   |
| <input type="text" value="Add a new Secondary IP Address"/>  |  |
| <input type="button" value="Reset"/> <input type="button" value="Apply"/>  |  |

14. Press "Apply".

**IP Settings**

Address Type:

IP Address:  .  .  .

Subnet Mask:  .  .  .

Dynamic DNS:

*Set to 'None' if connecting to a Bridge with IP routing disabled.*

*IP address for this numbered interface*

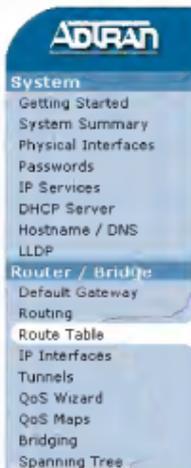
*Subnet Mask for this numbered interface*

*Used to register this interface's IP address with a DNS Name.*

**Secondary IP Settings**

| IP Address                     | Mask |
|--------------------------------|------|
| Add a new Secondary IP Address |      |

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".

**Add a Static Route to the Route Table**

Static Routes are often required to reach networks that are not learned via a dynamic routing protocol. Enter the appropriate information below to add a static route or click on a route below to use it as a template for a new route. [IP Routing](#) must be enabled in order to add static routes.

Destination Address:  .  .  .  *Enter the network to add to the route table.*

Destination Mask:  .  .  .  *Enter the appropriate mask for this network.*

Gateway:

Address  .  .  .  *Enter the gateway address to reach this network.*  
- OR -  
 Interface  *Select the interface to be used as the gateway.*

Administrative Distance (optional):  *The Distance metric for this network. (Optional parameter)*

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

**Add a Static Route to the Route Table**

Static Routes are often required to reach networks that are not learned via a dynamic routing protocol. Enter the appropriate information below to add a static route or click on a route below to use it as a template for a new route. [IP Routing](#) must be enabled in order to add static routes.

Destination Address:  .  .  .  *Enter the network to add to the route table.*

Destination Mask:  .  .  .  *Enter the appropriate mask for this network.*

Gateway:

Address  .  .  .  *Enter the gateway address to reach this network.*  
- OR -  
 Interface  *Select the interface to be used as the gateway.*

Administrative Distance (optional):  *The Distance metric for this network. (Optional parameter)*

18. Press "Add".

### Add a Static Route to the Route Table

Static Routes are often required to reach networks that are not learned via a dynamic routing protocol. Enter the appropriate information below to add a static route or click on a route below to use it as a template for a new route. [IP Routing](#) must be enabled in order to add static routes.

|  |   |  |
|--|---|--|
| Destination Address:                     | <input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="2"/> . <input type="text" value="0"/>   | Enter the network to add to the route table.               |
| Destination Mask:                        | <input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="0"/> | Enter the appropriate mask for this network.               |
| Gateway:                                 |   |  |
| <input checked="" type="radio"/> Address | <input type="text" value="10"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="2"/>      | Enter the gateway address to reach this network.           |
| <input type="radio"/> Interface          | <Select Interface>  | - OR -<br>Select the interface to be used as the gateway.  |
| Administrative Distance (optional):      | <input type="text"/>  | The Distance metric for this network. (Optional parameter) |

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



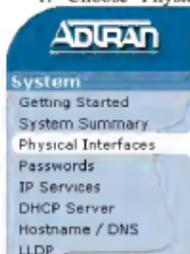
## Configuration Script for the NetVanta 3200/3205 "Host Router":

```
!  
!  
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.

The screenshot shows the "Physical Interfaces" configuration page. It contains a table listing the physical interfaces. The "eth 0/1" interface is circled in red.

| Name    | Logical Interface | Line Status        | Type     |
|---------|-------------------|--------------------|----------|
| eth 0/1 | none              | Up                 | Ethernet |
| tl 1/1  | none              | Interface Disabled | WAN-T1   |

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.

The screenshot shows the "IP Settings" configuration page. The "Address Type" is set to "Static". The "IP Address" field is set to 192.168.2.254 and the "Subnet Mask" field is set to 255.255.255.0. The "Dynamic DNS" field is set to "<disabled>".

Set to "None" if connecting to a [Bridge](#) with [IP routing](#) disabled.

IP address for this numbered interface

Subnet Mask for this numbered interface

Used to register this interface's IP address with a DNS Name.

**Secondary IP Settings**

| IP Address                                     | Mask |
|--|------|
| <a href="#">Add a new Secondary IP Address</a> |      |

Reset Apply

4. Press the "Apply" button.

**IP Settings**

Address Type:

IP Address:  .  .  .

Subnet Mask:  .  .  .

Dynamic DNS:

*Set to 'None' if connecting to a Bridge with IP routing disabled.*

*IP address for this numbered interface*

*Subnet Mask for this numbered interface*

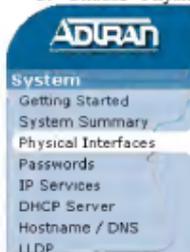
*Used to register this interface's IP address with a DNS Name.*

**Secondary IP Settings**

| IP Address                     | Mask |
|--------------------------------|------|
| Add a new Secondary IP Address |      |

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

**Physical Interfaces**

This is a list of all the physical interfaces that are either physically tied to the product or connected via a plug-in module. View or edit the configuration of an interface by clicking its name.

| Name           | Logical Interface | Line Status        | Type     |
|----------------|-------------------|--------------------|----------|
| <u>eth 0/1</u> | none              | Up                 | Ethernet |
| <u>eth 0/2</u> | none              | Interface Disabled | WAN-T1   |

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

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |  |  |
|----------------|--|--|
| Description:   | <input type="text"/>   | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>  | Enable or disable this interface                                     |
| Clocking:      | Line   | Select the source timing for this interface                          |
| Framing:       | ESF  | Select the framing that matches the network provider framing format  |
| Coding:        | BBZS   | Select the coding that matches the network provider line coding      |
| FDL:           | ANSI   | Select the format for the facility data link channel                 |
| Data DS0s:     | None to  | Select the DS0s to map to the Router                                 |
| DS0 Speed:     | 64Kbps   | Select the speed for the DS0s in the DS0 Map                         |
| Encapsulation: | <input type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>   | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

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

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |  |   |
|----------------|--|---|
| Description:   | <input type="text"/>   | <i>Description label (optional)</i>   |
| Enable:        | <input checked="" type="checkbox"/>  | <i>Enable or disable this interface</i>                                     |
| Clocking:      | <input type="text" value="Line"/>  | <i>Select the source timing for this interface</i>                          |
| Framing:       | <input type="text" value="ESF"/>   | <i>Select the framing that matches the network provider framing format</i>  |
| Coding:        | <input type="text" value="B8ZS"/>  | <i>Select the coding that matches the network provider line coding</i>      |
| FDL:           | <input type="text" value="ANSI"/>  | <i>Select the format for the facility data link channel</i>                 |
| Data DS0s:     | <input type="text" value="1"/> to <input type="text" value="24"/>                            | <i>Select the DS0s to map to the Router</i>                                 |
| DSD Speed:     | <input type="text" value="64Kbps"/>  | <i>Select the speed for the DS0s in the DSO Map</i>                         |
| Encapsulation: | <input type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | <i>Interface connects to a PPP, Frame Relay, or HDLC circuit</i>            |
| Multilink:     | <input type="checkbox"/>   | <i>Enable multilink for the selected encapsulation (PPP or Frame Relay)</i> |

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

Configuration for T1 1/1

Basic configuration for the T1 interface.

|                |   |  |
|----------------|---|--|
| Description:   | <input type="text"/>  | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>   | Enable or disable this interface                                     |
| Clocking:      | Line  | Select the source timing for this interface                          |
| Framing:       | ESF   | Select the framing that matches the network provider framing format  |
| Coding:        | B8ZS  | Select the coding that matches the network provider line coding      |
| FDL:           | ANSI  | Select the format for the facility data link channel                 |
| Data DSOs:     | 1 to 24   | Select the DSOs to map to the Router                                 |
| DSO Speed:     | 64Kbps  | Select the speed for the DSOs in the DSO Map                         |
| Encapsulation: | <input checked="" type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>  | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

Reset Apply

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

**Configuration for T1 1/1**

Basic configuration for the T1 interface.

|                |   |  |
|----------------|---|--|
| Description:   | <input type="text"/>  | Description label (optional)   |
| Enable:        | <input checked="" type="checkbox"/>   | Enable or disable this interface                                     |
| Clocking:      | Line  | Select the source timing for this interface                          |
| Framing:       | ESF   | Select the framing that matches the network provider framing format  |
| Coding:        | B8ZS  | Select the coding that matches the network provider line coding      |
| FDL:           | ANSI  | Select the format for the facility data link channel                 |
| Data DS0s:     | 1 to 24   | Select the DS0s to map to the Router                                 |
| DS0 Speed:     | 64Kbps  | Select the speed for the DS0s in the DS0 Map                         |
| Encapsulation: | <input checked="" type="radio"/> PPP<br><input type="radio"/> Frame Relay<br><input type="radio"/> HDLC | Interface connects to a PPP, Frame Relay, or HDLC circuit            |
| Multilink:     | <input type="checkbox"/>  | Enable multilink for the selected encapsulation (PPP or Frame Relay) |

Reset Apply

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

**IP Settings**

Address Type:

IP Address:  .  .  .

Subnet Mask:  .  .  .

Dynamic DNS:

*Set to 'None' if connecting to a [Bridge](#) with [IP routing](#) disabled.*

*IP address for this numbered interface*

*Subnet Mask for this numbered interface*

*Used to register this interface's IP address with a DNS Name.*

**Secondary IP Settings**

| IP Address                                     | Mask |
|--|------|
| <a href="#">Add a new Secondary IP Address</a> |      |

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.

**IP Settings**

Address Type:

IP Address:  .  .  .

Subnet Mask:  .  .  .

Dynamic DNS:

*Set to 'None' if connecting to a [Bridge](#) with [IP routing](#) disabled.*

*IP address for this numbered interface*

*Subnet Mask for this numbered interface*

*Used to register this interface's IP address with a DNS Name.*

**Secondary IP Settings**

| IP Address                                     | Mask |
|--|------|
| <a href="#">Add a new Secondary IP Address</a> |      |

13. Press "Apply", when done.

**IP Settings**

Address Type:

IP Address:  .  .  .

Subnet Mask:  .  .  .

Dynamic DNS:

*Set to 'None' if connecting to a Bridge with IP routing disabled.*

*IP address for this numbered interface*

*Subnet Mask for this numbered interface*

*Used to register this interface's IP address with a DNS Name.*

**Secondary IP Settings**

| IP Address                     | Mask |
|--------------------------------|------|
| Add a new Secondary IP Address |      |

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".

**Add a Static Route to the Route Table**

Static Routes are often required to reach networks that are not learned via a dynamic routing protocol. Enter the appropriate information below to add a static route or click on a route below to use it as a template for a new route. [IP Routing](#) must be enabled in order to add static routes.

|  |   |  |
|--|---|--|
| Destination Address:                     | <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> | Enter the network to add to the route table.               |
| Destination Mask:                        | <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> | Enter the appropriate mask for this network.               |
| Gateway:                                 |   |  |
| <input checked="" type="radio"/> Address | <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>     | Enter the gateway address to reach this network.           |
| <input type="radio"/> Interface          | <Select Interface>  | - OR -<br>Select the interface to be used as the gateway.  |
| Administrative Distance (optional):      | <input type="text" value=""/>   | The Distance metric for this network. (Optional parameter) |

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

**Add a Static Route to the Route Table**

Static Routes are often required to reach networks that are not learned via a dynamic routing protocol. Enter the appropriate information below to add a static route or click on a route below to use it as a template for a new route. [IP Routing](#) must be enabled in order to add static routes.

|  |  |  |
|--|--|--|
| Destination Address:                     | <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>  | Enter the network to add to the route table.               |
| Destination Mask:                        | <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>  | Enter the appropriate mask for this network.               |
| Gateway:                                 |  |  |
| <input checked="" type="radio"/> Address | <input type="text" value="10"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/> | Enter the gateway address to reach this network.           |
| <input type="radio"/> Interface          | <Select Interface>   | - OR -<br>Select the interface to be used as the gateway.  |
| Administrative Distance (optional):      | <input type="text" value=""/>  | The Distance metric for this network. (Optional parameter) |

17. Press "Add".

### Add a Static Route to the Route Table

Static Routes are often required to reach networks that are not learned via a dynamic routing protocol. Enter the appropriate information below to add a static route or click on a route below to use it as a template for a new route. [IP Routing](#) must be enabled in order to add static routes.

|                                     |   |  |
|-------------------------------------|---|--|
| Destination Address:                | <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/>   | Enter the network to add to the route table.               |
| Destination Mask:                   | <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/>   | Enter the appropriate mask for this network.               |
| Gateway:                            | <input checked="" type="radio"/> Address <input type="text" value="10"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="1"/> | Enter the gateway address to reach this network.           |
|                                     | <input type="radio"/> Interface <Select Interface>  | - OR -<br>Select the interface to be used as the gateway.  |
| Administrative Distance (optional): | <input type="text"/>  | The Distance metric for this network. (Optional parameter) |

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
```