



Setting Up Aurora Presto Golden Router Replacement Mode

This application note gives step-by-step instructions for setting up Aurora Presto to operate in 'Golden Router Replacement Mode'. This mode enables Aurora Presto to directly replace a router and manage both LAN and WAN connections.



Application Note ANP -GRRM17

xDSL



INTRODUCTION

This application note describes step-by-step instructions for setting up Aurora Presto to operate in 'Golden Router Replacement Mode'.

This mode enables Aurora Presto to directly replace a router and manage both LAN and WAN connections. This application note describes how to set up Aurora Presto to replace a router configured to operate with a PPPoA link on the WAN side of the device.

Software version 4.50 and higher also supports IPoATM in place of the PPPoA on the WAN side of the link.

How Does The Golden Router Function Work?

Aurora Presto's Golden Router function routes IP traffic to and from a PC on a LAN to an IP endpoint. A diagram of this function is shown in Figure 1.

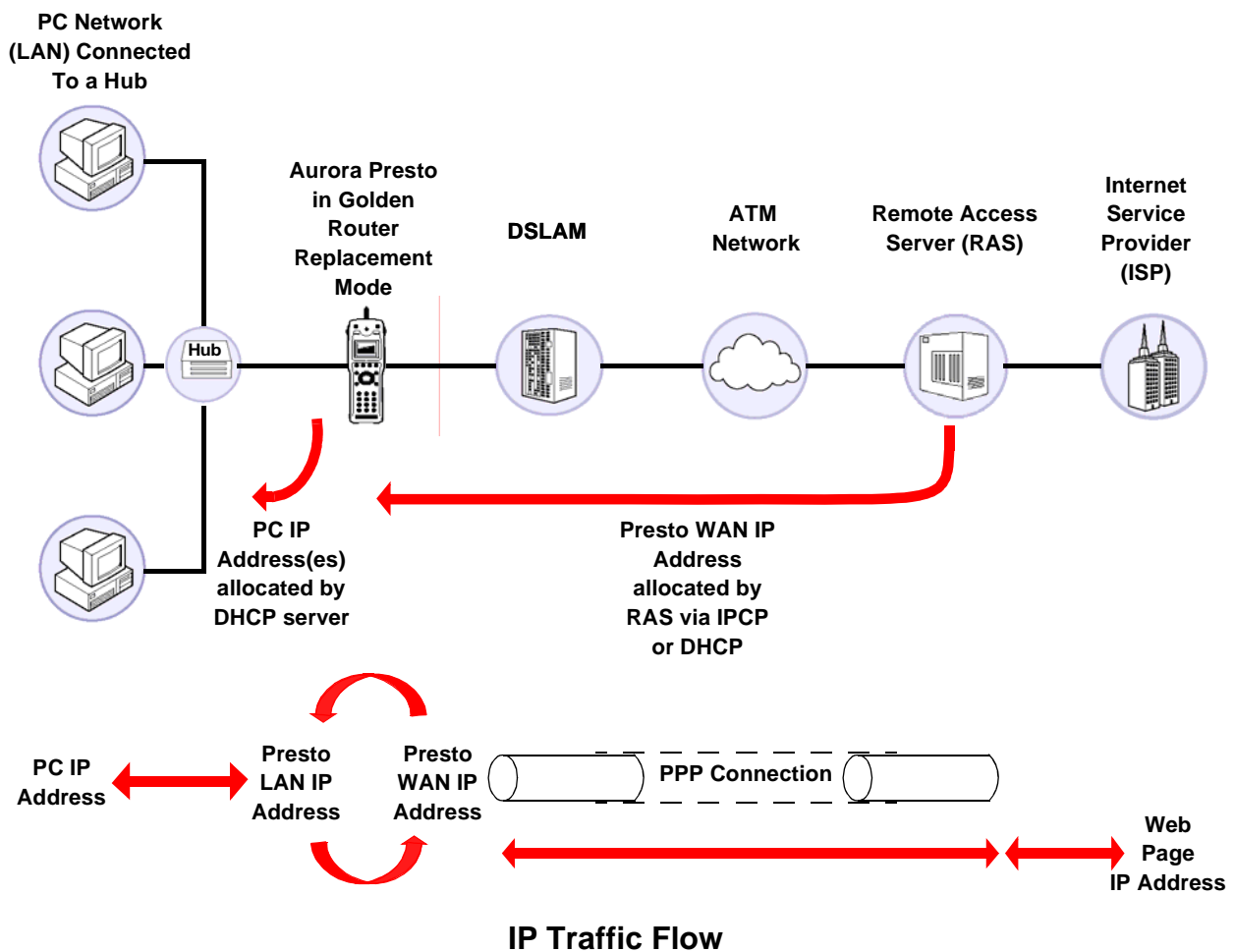


Figure 1

1

Aurora Presto Golden Router Function

Aurora Presto can be connected to up to 10 PCs via a Hub. These PCs can all be allocated IP addresses from within a pool of IP addresses, managed by the DHCP server function of Aurora Presto.

Aurora Presto receives a WAN IP address from the Network it is connected to.

The functions of the Golden Router mode can be separated into three tasks as follows:

- Managing LAN IP functions
- Managing WAN DSL, ATM, PPP, and IP functions
- Global routing of traffic between LAN and WAN interfaces.

Setting up Aurora Presto to operate in 'Golden Router Replacement Mode'

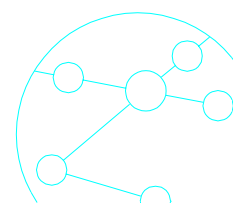
The following setup instructions assume that you have:

- selected Aurora Presto's factory defaults.
- configured Aurora Presto to emulate an ATU-R or STU-R.
- connected Aurora Presto to a line and it is synchronised to the DSL line.
- configured a correctly mapped ATM VC (VC 1) both on Aurora Presto and in the network manager.

For further details on setting up Aurora Presto for DSL and ATM operation, see the Aurora Presto Main User Guide.

Selecting Router Mode

1. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
2. Choose **IP Layer** and press **ENTER**.
3. Press **F4 Setup**.
4. Select **Mode** and press **ENTER**.
5. Choose **Routed** and press **ENTER**.
6. Press **ESC** to return to the **IP Setup** screen.



Setting Up the LAN Functions

The following instructions describe how to set up the LAN options of Aurora Presto's Golden Router function.

You must also set up the DHCP Server as part of the LAN functions setup procedure.

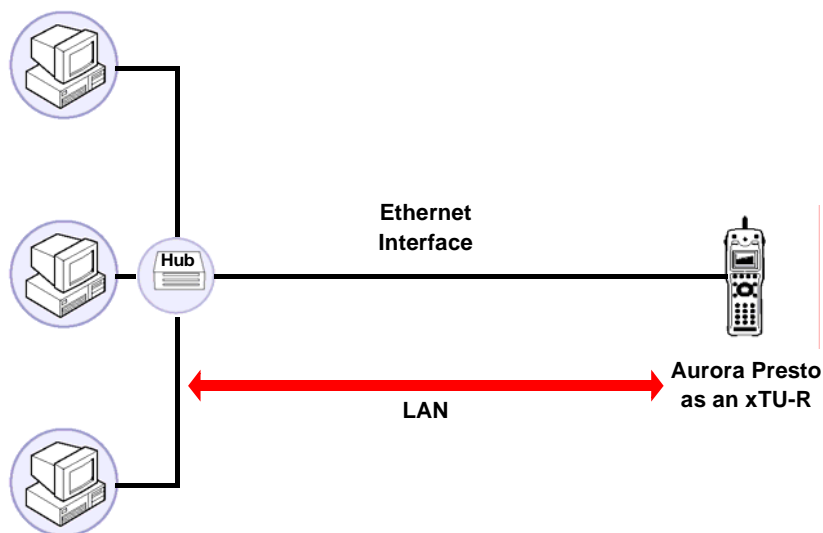


Figure 2

Aurora Presto LAN Functions

Setting Up the LAN Address Parameters

1. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
2. Choose **IP Layer** and press **ENTER**.
3. Press **F4 Setup**.
4. Select **LAN Address** and press **ENTER**.
5. Choose **Src** and press **ENTER**.
6. Enter the IP address of Aurora Presto and press **ENTER**.
7. Press **ESC** to return to the **LAN Address** screen.
8. From the **LAN Address** screen select **Msk** and press **ENTER**.
9. Enter the Subnet mask of the LAN connection and press **ENTER**.
10. Press **ESC** to return to the **LAN Address** screen.

Setting Up the DHCP Server

1. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
2. Choose **IP Layer** and press **ENTER**.
3. Press **F4 Setup**.
4. Choose **DHCP Server** and press **ENTER**.
5. Select **MODE**, press **ENTER**.
6. Choose **On** and press **ENTER**.
7. Select **Type** press **ENTER** and choose either **Leased** or **Permanent** for the IP addresses allocated to the PC and press **ENTER**.
8. Select **Adr** press **ENTER** and enter a start address for the IP Pool (for example, 172.20.252.222).
9. Select **Pool Size**, press **ENTER** and enter a Pool Depth (for example, a pool depth of 3 will allocate the addresses 172.20.252.222, 172.20.252.223 and 172.20.252.224 to PCs).
10. Select **Lease**, press **ENTER** and enter a lease time for the PC IP addresses.

Note

Lease is only available if you have selected **Leased** as the IP address **Type**.

Setting Up The WAN Functions

The following instructions describe how to set up the WAN functions of Aurora Presto's Golden Router function. You must also set up the PPP Link as part of the WAN functions setup procedure.

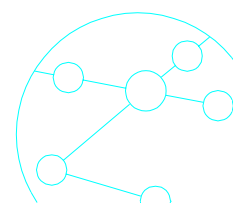
Selecting the ATM Port

1. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
2. Choose **IP Layer** and press **ENTER**.
3. Press **F4 Setup**.
4. Select **Port** and press **ENTER**.
5. Choose **VC1** and press **ENTER**.

Note

Only VCs that are enabled are displayed. To enable a VC, press **F1 VC Config** to display the **VC Config** screen.

6. Press **ESC** to return to the **IP Setup** screen.



Setting Up the WAN Address Parameters

1. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
2. Choose **IP Layer** and press **ENTER**.
3. Press **F4 Setup**.
4. Select **WAN Address** and press **ENTER**.
5. Choose **Origin** and press **ENTER**.
6. Select **IPCP** and press **ENTER** for Aurora Presto to received a Dynamic IP Address allocation from the RAS.
7. Press **ESC** to return to the **WAN Address** screen.
8. From the **WAN Address** screen select **Msk**.
9. Enter the subnet mask of the WAN connection.
10. Press **ESC** to return to the **WAN Address** screen.
11. From the **WAN Address** screen select **DNS** (Domain Name Server).
12. Enter the IP address of the DNS that Aurora Presto will receive from the DNS Server.
13. Press **ESC** to return to the **WAN Address** screen.

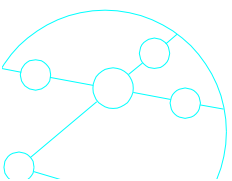
Setting Up the PPP Session

1. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
2. Choose **PPP Layer** and press **ENTER**.
3. Press **F4 Setup**.
4. Select **Type** and press **ENTER**.
5. Choose either **PPPoA** or **None**, depending on the connection, and press **ENTER**.
6. Select **Mode** and press **ENTER**.
7. Choose **Client** and press **ENTER**.
8. Select **User** and enter a username.
9. Select **Pswd** and enter a password.

Note

For information on entering alphanumeric information see the Aurora Presto Main User Guide.

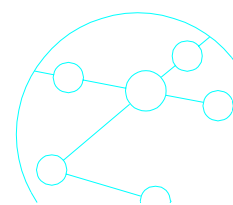
10. Press **ESC** three times to return to the **Select Test Mode** screen.
11. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
12. Choose **IP Layer** and press **ENTER**.
13. Press **F4 Setup**.



14. Select **Framing** and press **ENTER**.
15. Select **IP Encap** and press **ENTER**.
16. Choose **LLC SNAP** for PPPoE links
OR
VC Mux for PPPoA links and press **ENTER**.
17. Press **ESC** three times to return to the **Select Operation** screen.
18. Press **F4 PPP↑** to start the PPP session.

Setting Up The Router Functions

1. From the **Select Test Mode** screen, select **Manual Tests** and press **ENTER**.
2. Choose **IP Layer** and press **ENTER**.
3. Select **NAT** and press **ENTER**.
4. Choose **NAT** if Network Translation is used
OR
PAT if Port Address Translation depending on whether Network or Port Address translation is used and press **ENTER**.





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