How do I configure the bandwidth management/traffic shaping?

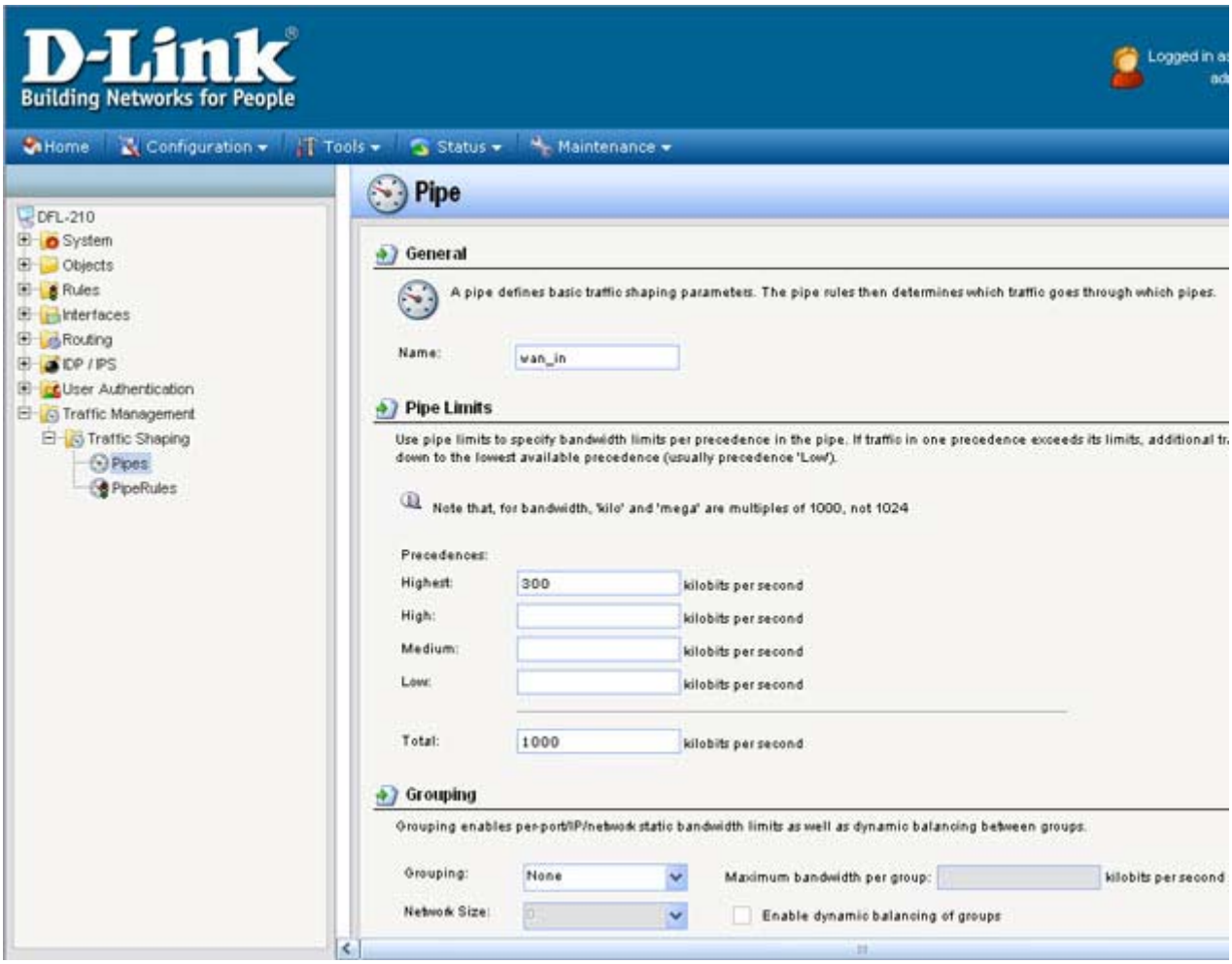
This FAQ will demonstrate setting up bandwidth management/traffic shaping on 1Mbps leased line upstream and downstream.
For inbound and outbound http and https: Maximum bandwidth is 500 Kbps.
For inbound and outbound pop3: Guaranteed bandwidth is 300 Kbps.
For inbound and outbound other services: The remaining bandwidth will be used.

Step 1: Open the web browser and type the IP address of the device in the address bar *(default is 192.168.1.1)*, press **Enter**.

Step 2: Click on **Traffic Management** and click on **Traffic Shaping**, select **Pipes**. Click **Add** and select **Pipe** for inbound traffic. Configure the pipe rule as followed:

- **Name:** Name as desired *(wan_in in this example)*
- **Precedences:**
- **Highest:** 300 Kbps
- **Total:** 1000 Kbps
- **Group:** None

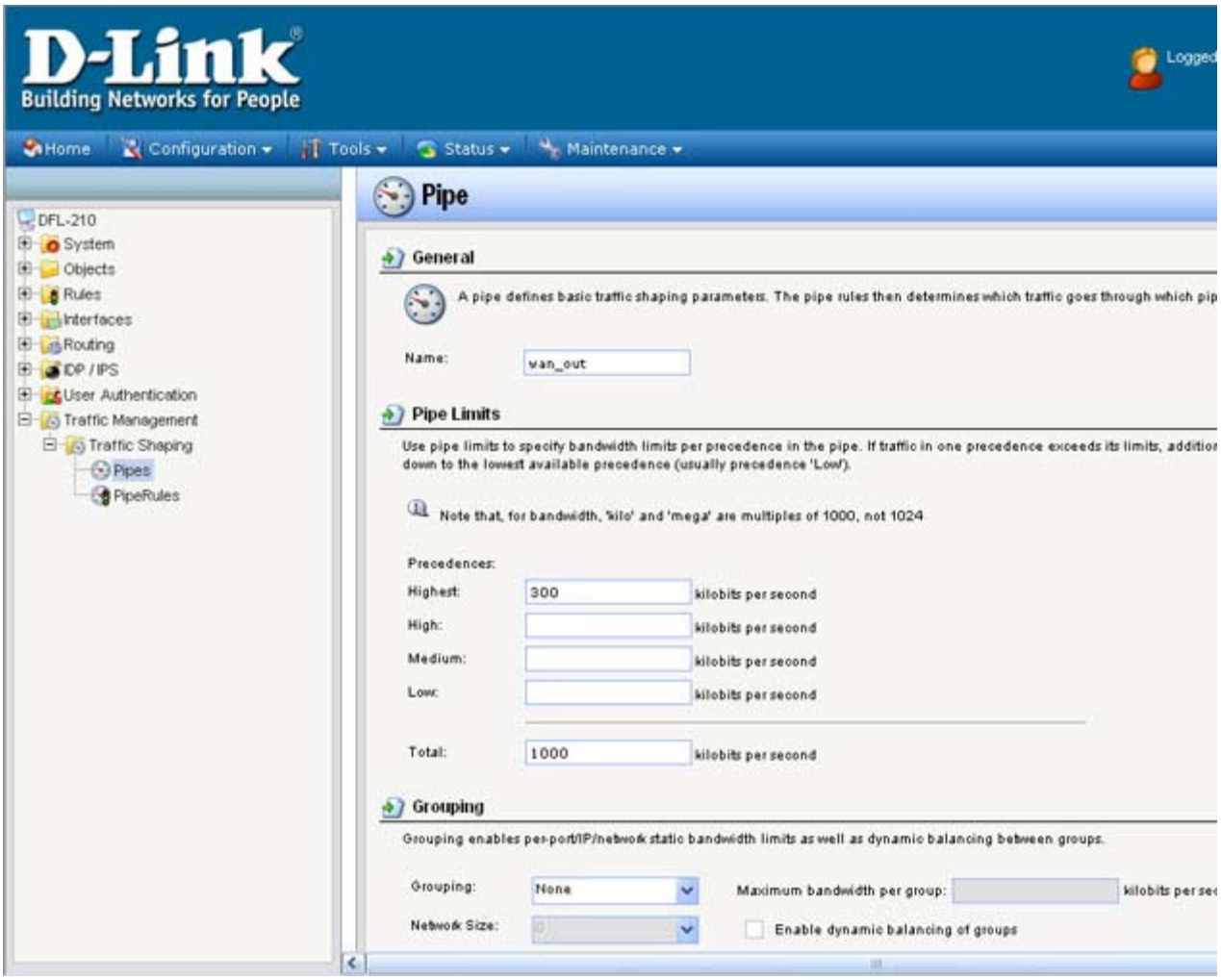
Click **OK**.



Step 3: Click **Add** and select **Pipe** for outbound traffic. Configure the pipe rule as followed:

- **Name:** Name as desired *(wan_out in this example)*
- **Precedences:**
- **Highest:** 300 Kbps
- **Total:** 1000 Kbps
- **Group:** None

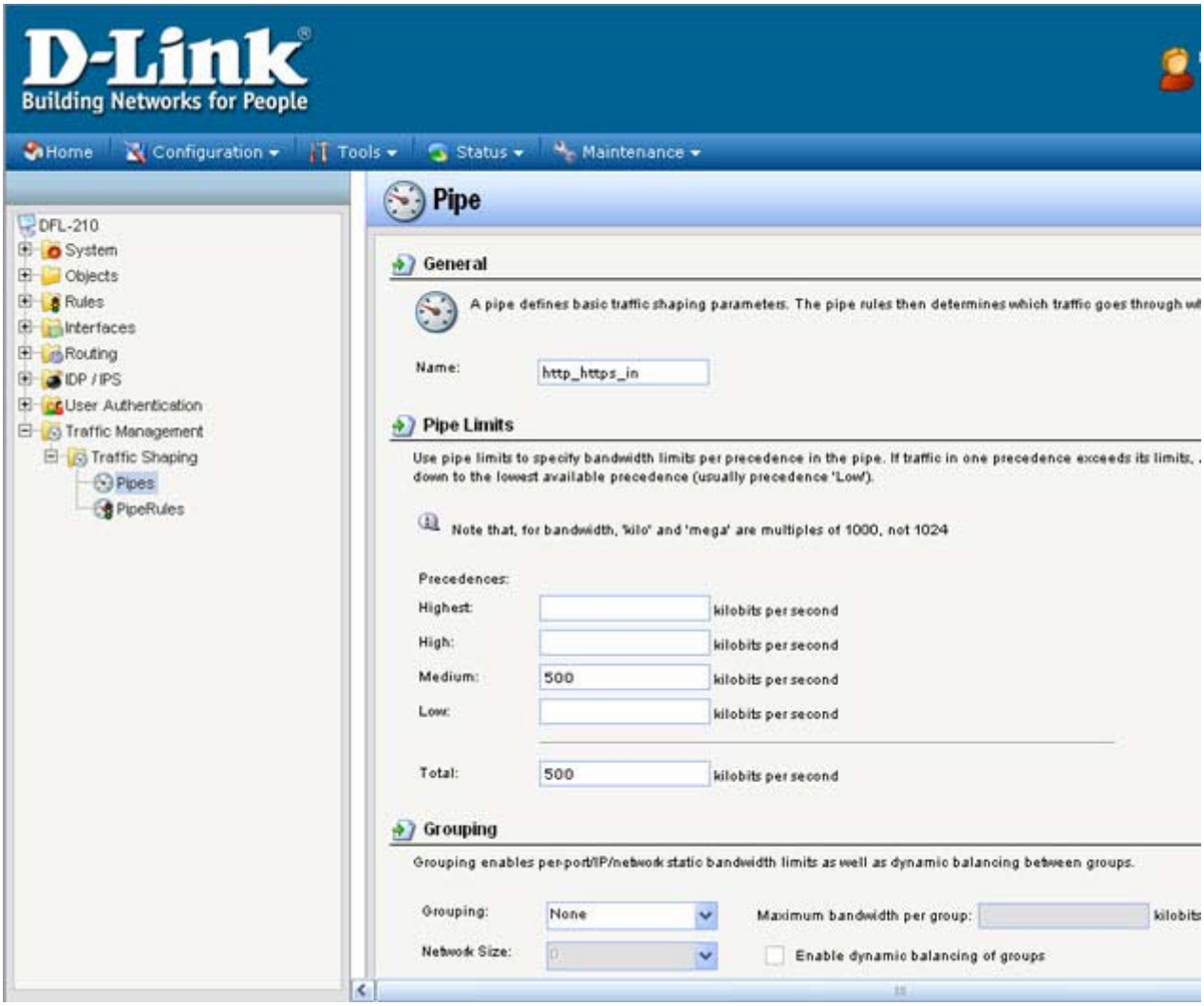
Click **OK**.



Step 4: Click **Add** and select **Pipe** for http/https inbound traffic. Configure the pipe rule as followed:

- **Name:** Name as desired *(http_https_in in this example)*
- **Precedences:**
- **Medium:** 500 Kbps
- **Total:** 500 Kbps
- **Group:** None

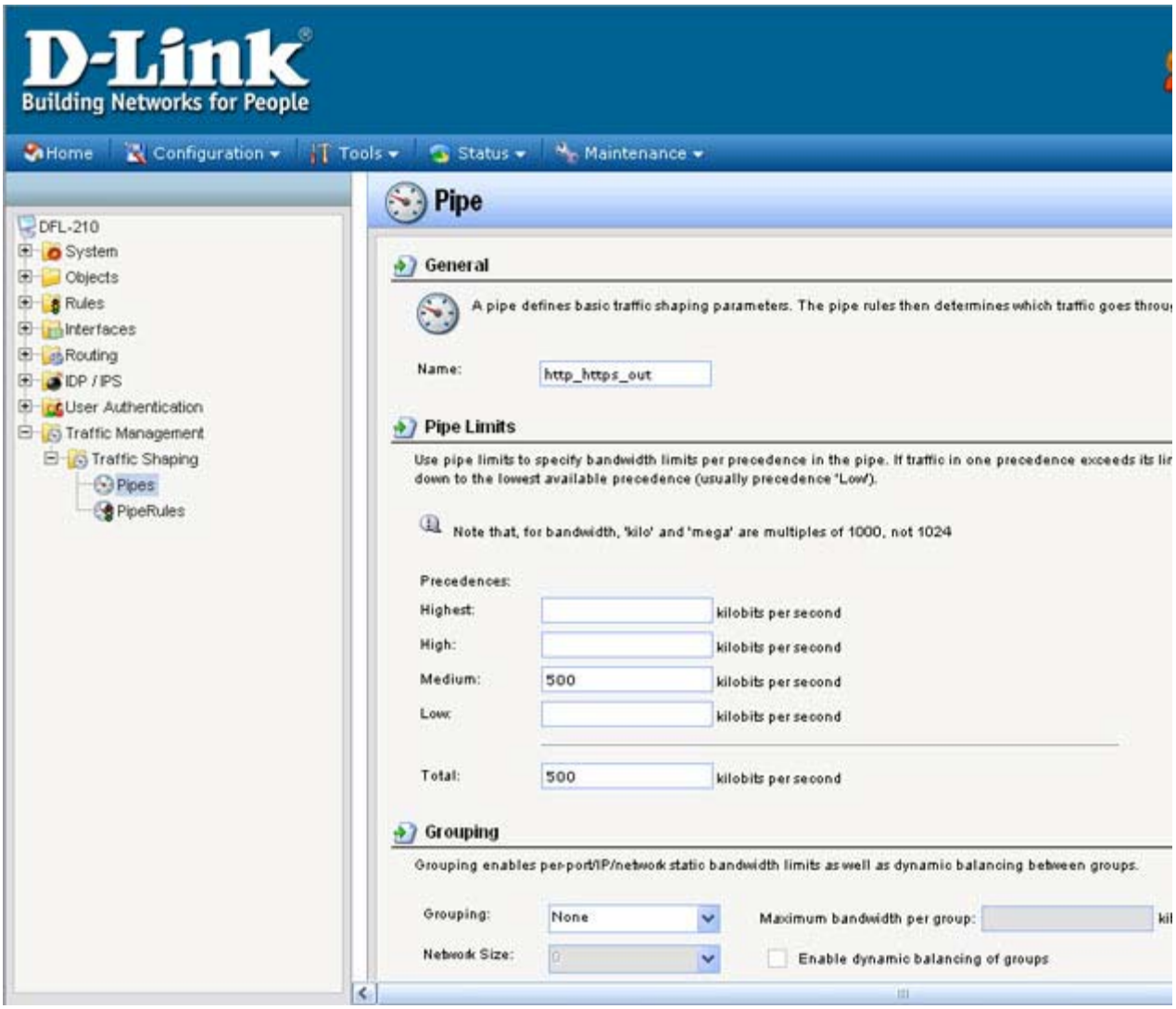
Click **OK**.



Step 5: Click **Add** and select **Pipe** for http/https outbound traffic. Configure the pipe rule as followed:

- **Name:** Name as desired *(http_https_out in this example)*
- **Precedences:**
- **Medium:** 500 Kbps
- **Total:** 500 Kbps
- **Group:** None

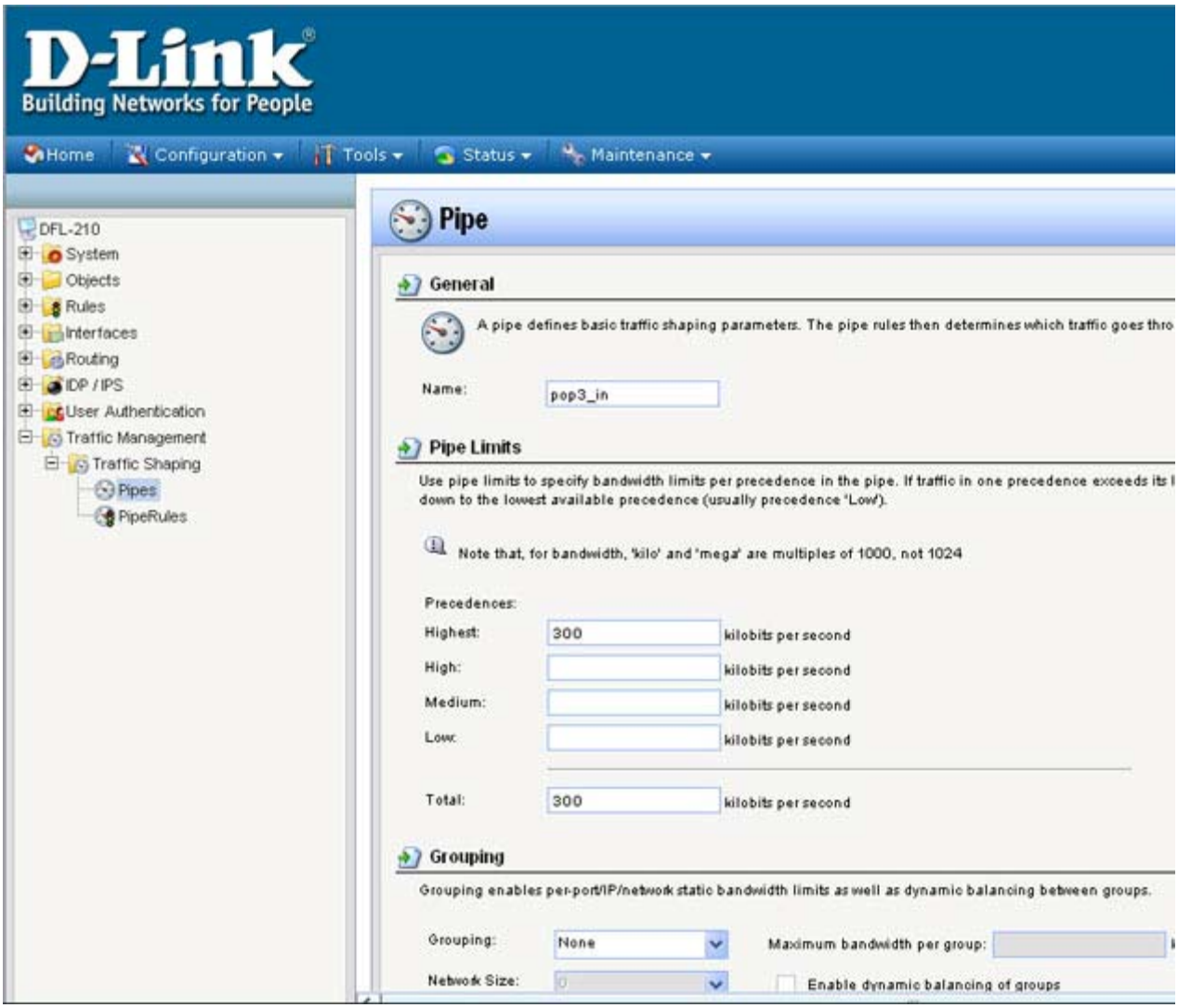
Click **OK**.



Step 6: Click **Add** and select **Pipe** for Pop3 inbound traffic. Configure the pipe rule as followed:

- **Name:** Name as desired *(pop3_in in this example)*
- **Precedences:**
- **Highest:** 300 Kbps
- **Total:** 300 Kbps
- **Group:** None

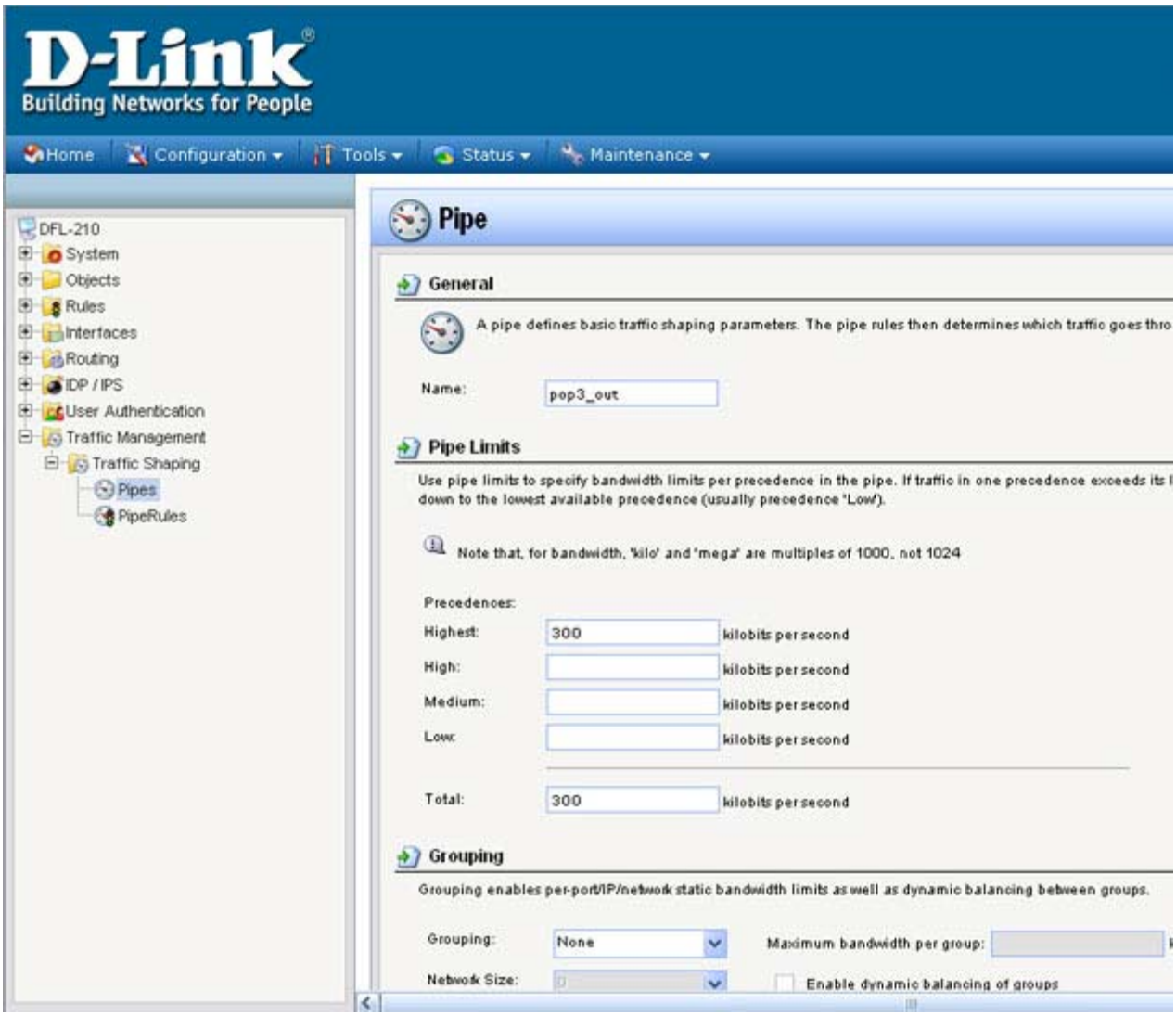
Click **OK**.



Step 7: Click **Add** and select **Pipe** for Pop3 outbound traffic. Configure the pipe rule as followed:

- **Name:** Name as desired *(pop3_out in this example)*
- **Precedences:**
- **Highest:** 300 Kbps
- **Total:** 300 Kbps
- **Group:** None

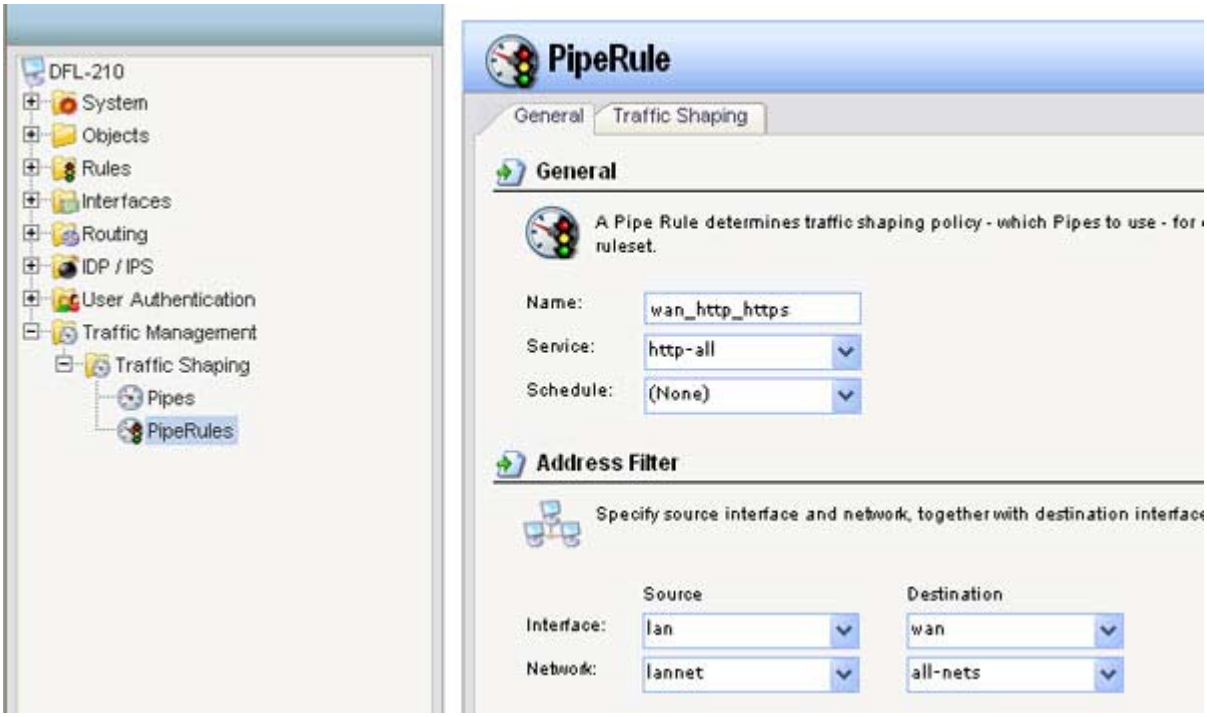
Click **OK**.



Step 8: Click **Pipe Rules** on the left side of the configuration screen. Click on **Add** and select **PipeRule** for http/https. Configure the pipe rule as followed:

- **Name:** Name as desired *(wan_http_https in this example)*
- **Service:** http-all
- **Schedule:** None
- **Source Interface:** lan
- **Source Network:** lannet
- **Destination Interface:** wan
- **Destination Network:** all-nets

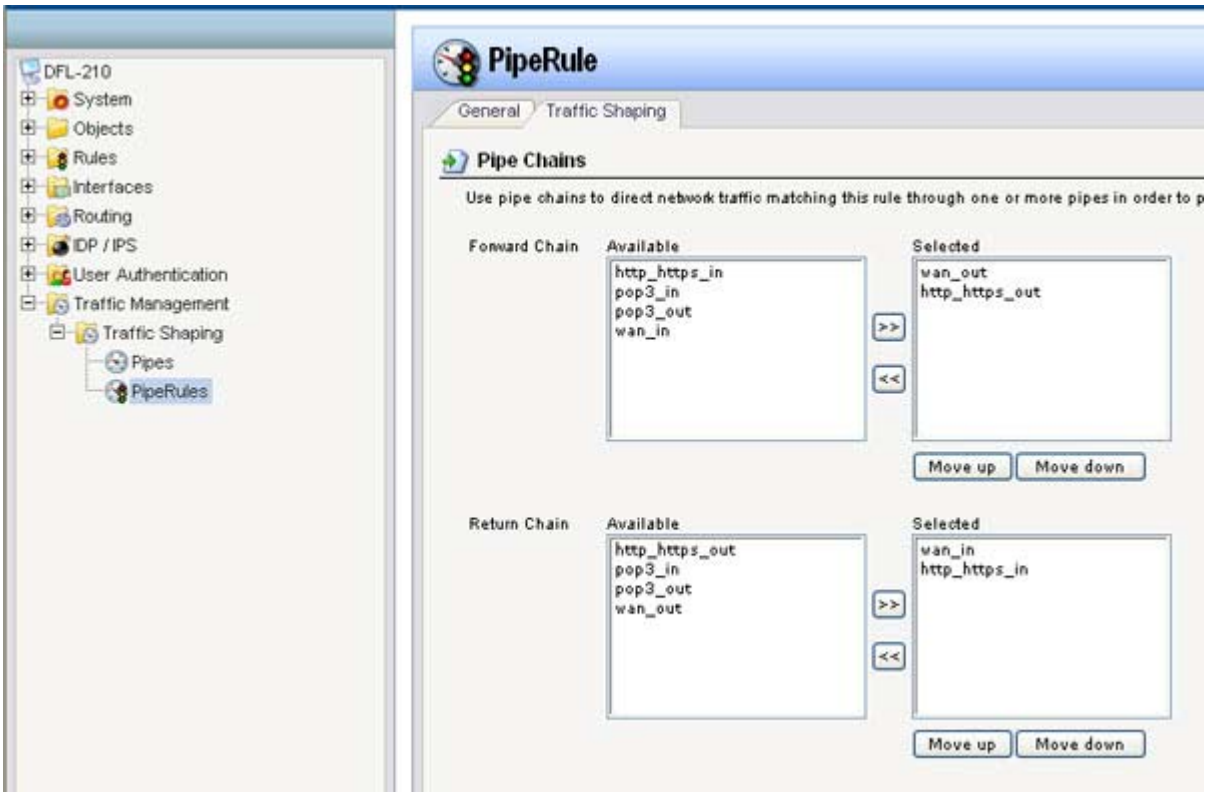
Click **OK**.



Step 9: Select the **Traffic Shaping** tab and configure as followed:

- **Forward Chain:** Add desired pipe into Selected box in order to perform traffic shaping. *(wan_out and http_https_out created in step 3 and 5)*
- **Return Chain:** Add desired pipe into Selected box in order to perform traffic shaping. *(wan_in and http_https_in created in step 2 and 4)*
- **Precedence:** select **Use fixed precedence**, click the drop-down menu and select desired precedence. *(0 is selected in this example)*

Click **OK**.



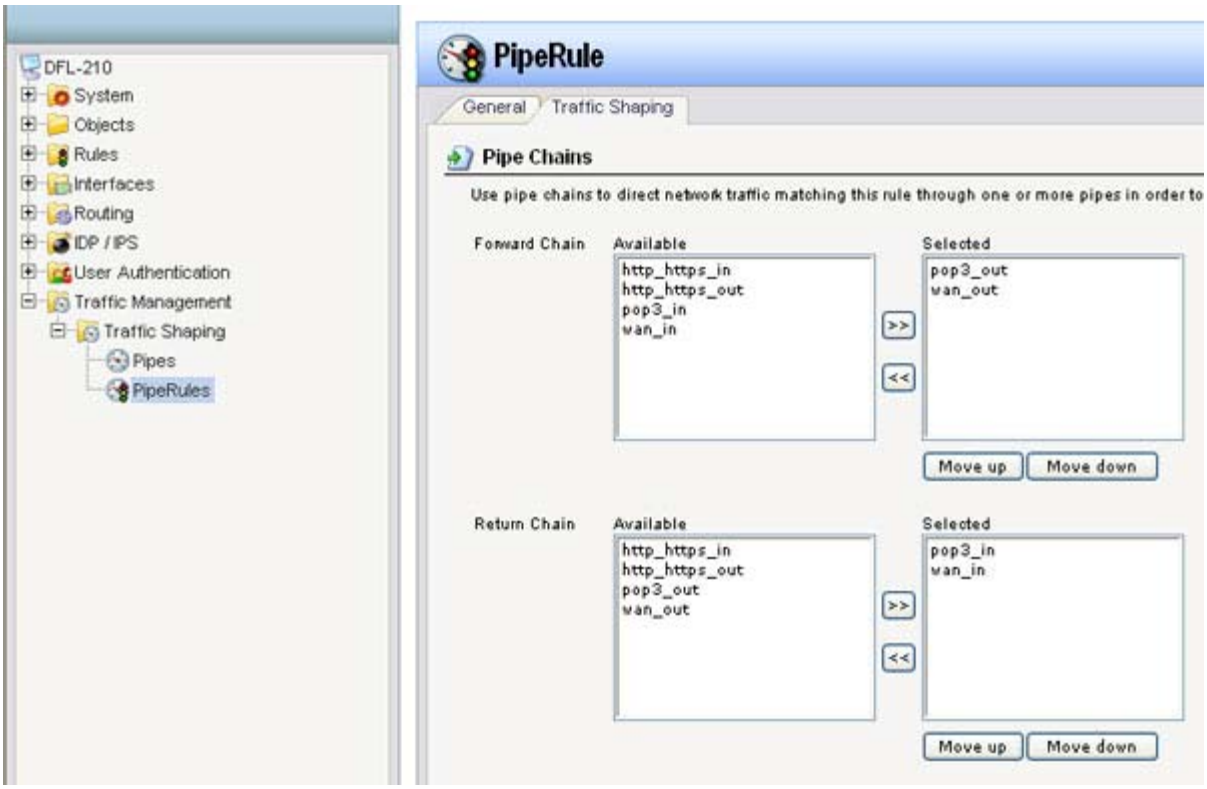
Step 10: Click **Add** and select **PipeRule** for Pop3. Configure the pipe rule as followed:

- **Name:** Name as desired *(wan_pop3 in this example)*
- **Service:** pop3
- **Schedule:** None
- **Source Interface:** lan
- **Source Network:** lannet
- **Destination Interface:** wan
- **Destination Network:** all-nets

Step 11: Select the **Traffic Shaping** tab and configure as followed:

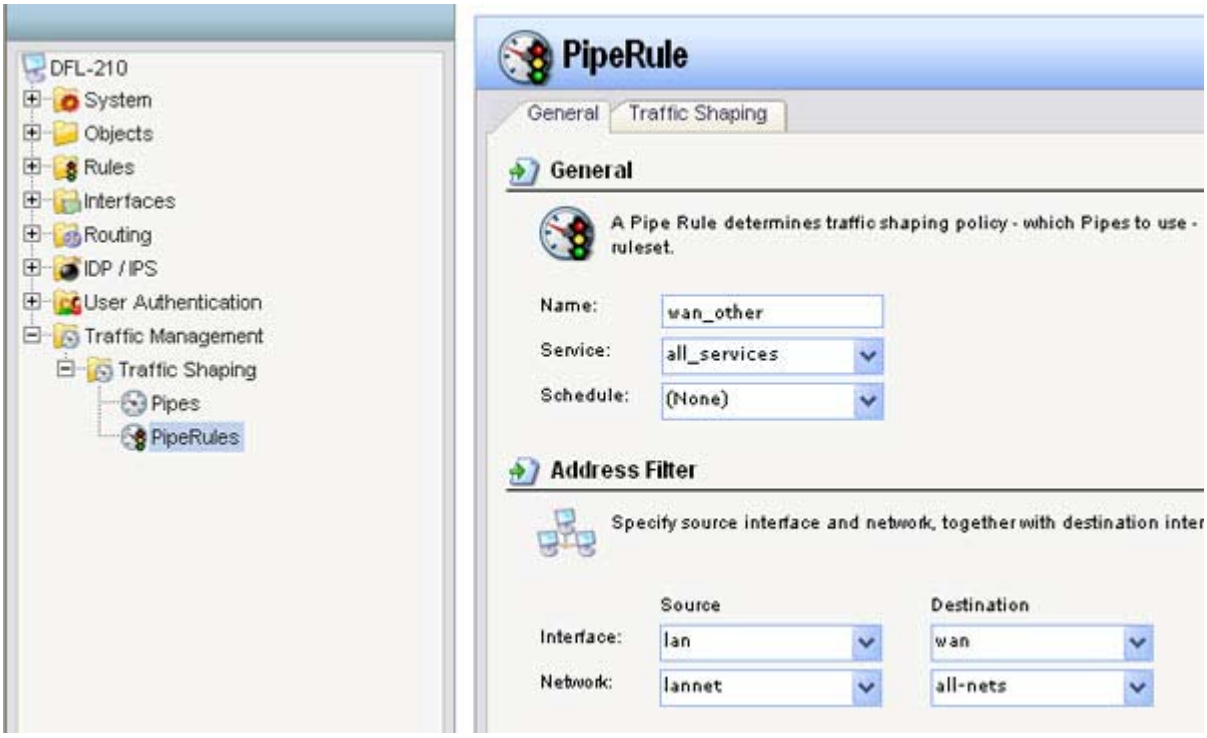
- **Forward Chain:** Add desired pipe into Selected box in order to perform traffic shaping *(pop3_out and wan_out created in step 7 and 3)*
- **Return Chain:** Add desired pipe into Selected box in order to perform traffic shaping *(pop3_in and wan_in created in step 6 and 2)*
- **Precedence:** select **Use fixed precedence**, click the drop-down menu and select desired precedence *(6 is selected in this example)*

Click **OK**.



Step 12: Click **Add** and select **PipeRule** for other services. Configure the pipe rule as followed:

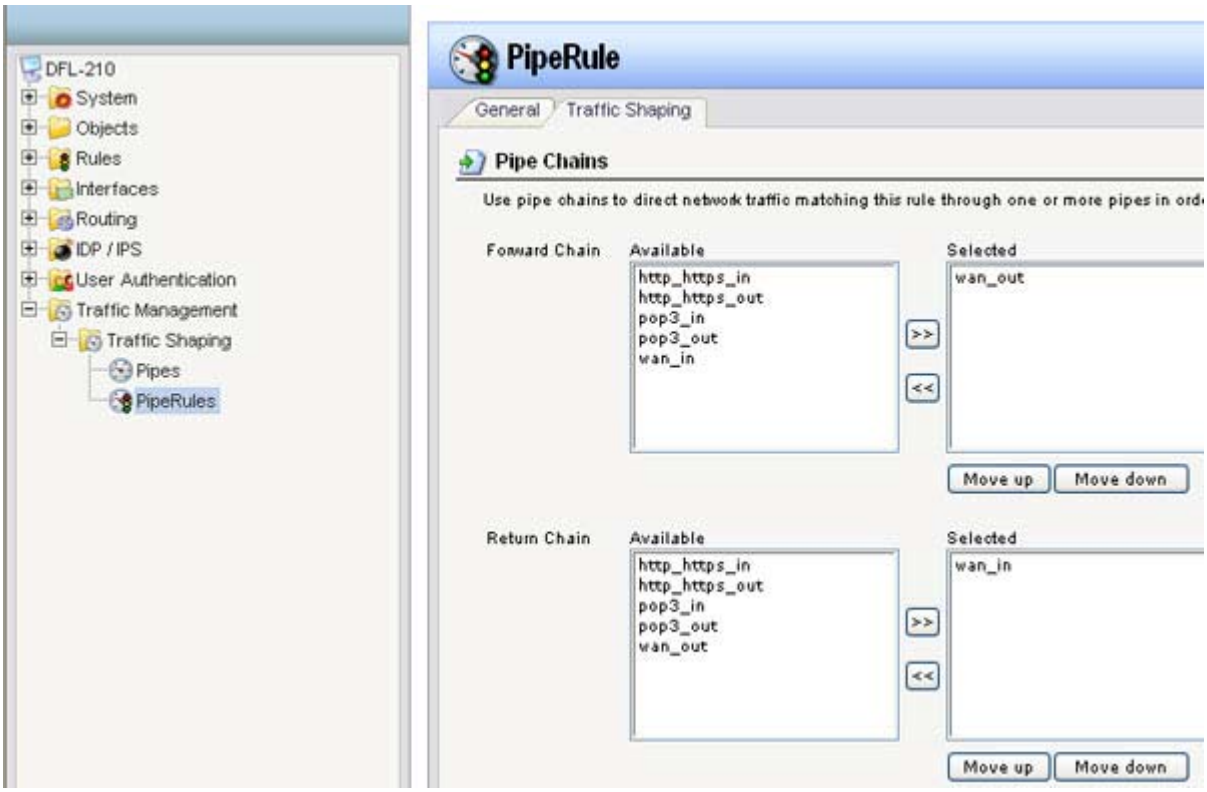
- **Name:** Name as desired *(wan_others in this example)*
- **Service:** all_services
- **Schedule:** None
- **Source Interface:** lan
- **Source Network:** lannet
- **Destination Interface:** wan
- **Destination Network:** all-nets



Step 13: Select the **Traffic Shaping** tab and configure as followed:

- **Forward Chain:** Add desired pipe into Selected box in order to perform traffic shaping *(wan_out created in step 3)*
- **Return Chain:** Add desired pipe into Selected box in order to perform traffic shaping *(wan_in created in step 2)*
- **Precedence:** select **Use fixed precedence**, click the drop-down menu and select desired precedence *(0 is selected in this example)*

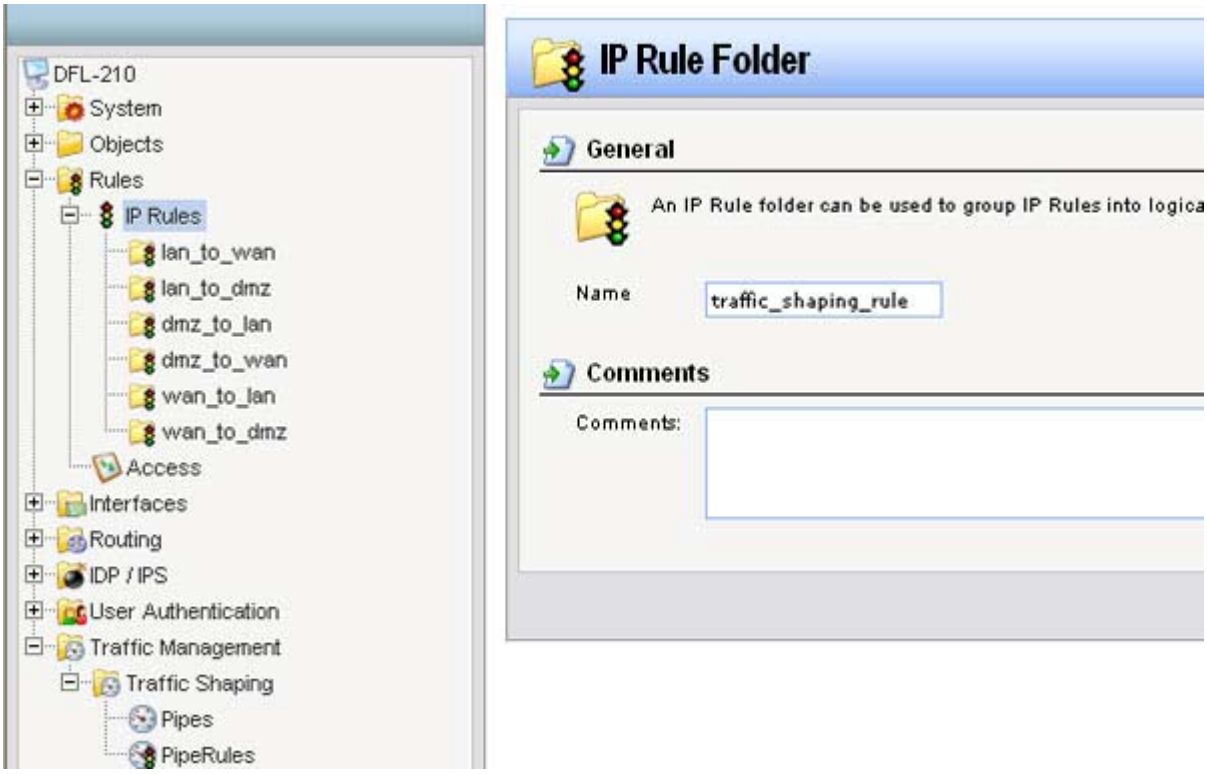
Click **OK**.



Step 14: Click the plus sign next to **Rules**, select **IP Rules**, click **Add** and select **IP Rule Folder**. Configure as followed:

- Name the folder as desired

Click **OK**.



Step 15: Click **Add** and select **IP Rule**. Configure the new IP rule as followed:

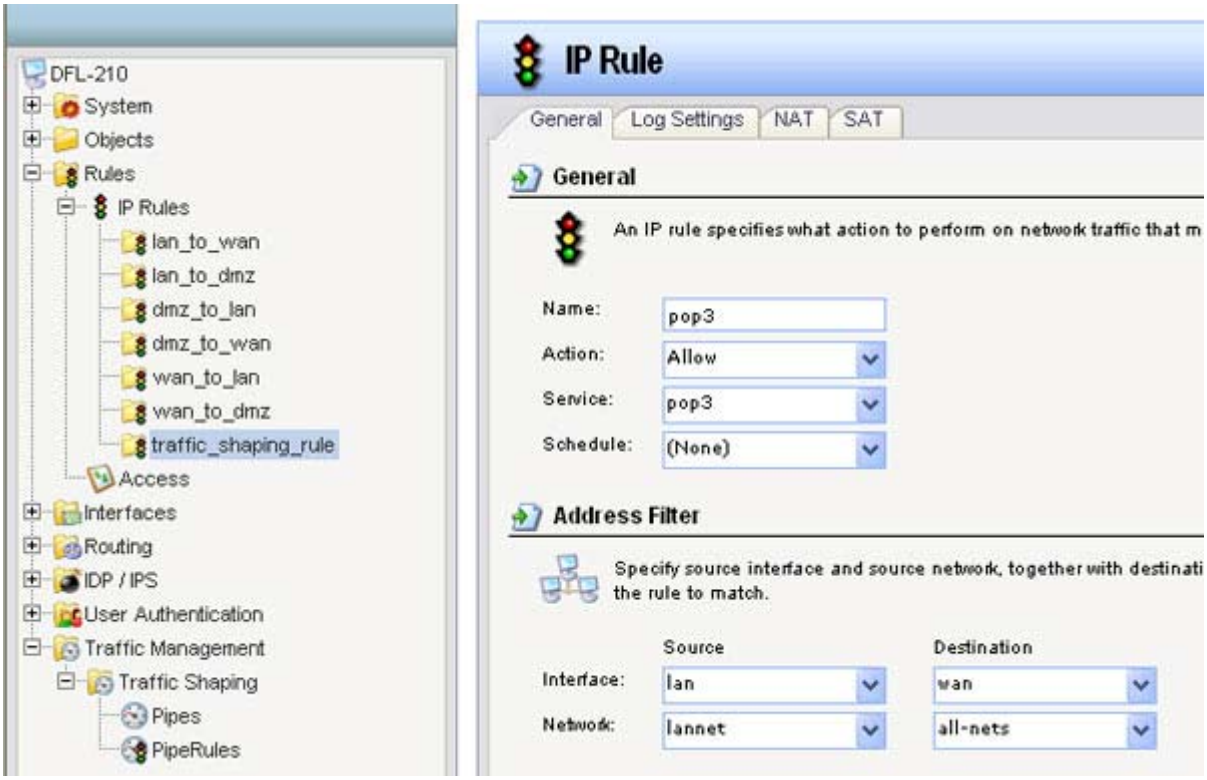
- **Name:** Name as desired
- **Action:** Allow
- **Service:** http-all
- **Schedule:** None
- **Source Interface:** lan
- **Source Network:** lannet
- **Destination Interface:** wan
- **Destination Network:** all-nets

Click **OK**.

Step 16: Click **Add** and select **IP Rule**. Configure the new IP rule as followed:

- **Name:** Name as desired
- **Action:** Allow
- **Service:** pop3
- **Schedule:** None
- **Source Interface:** lan
- **Source Network:** lannet
- **Destination Interface:** wan
- **Destination Network:** all-nets

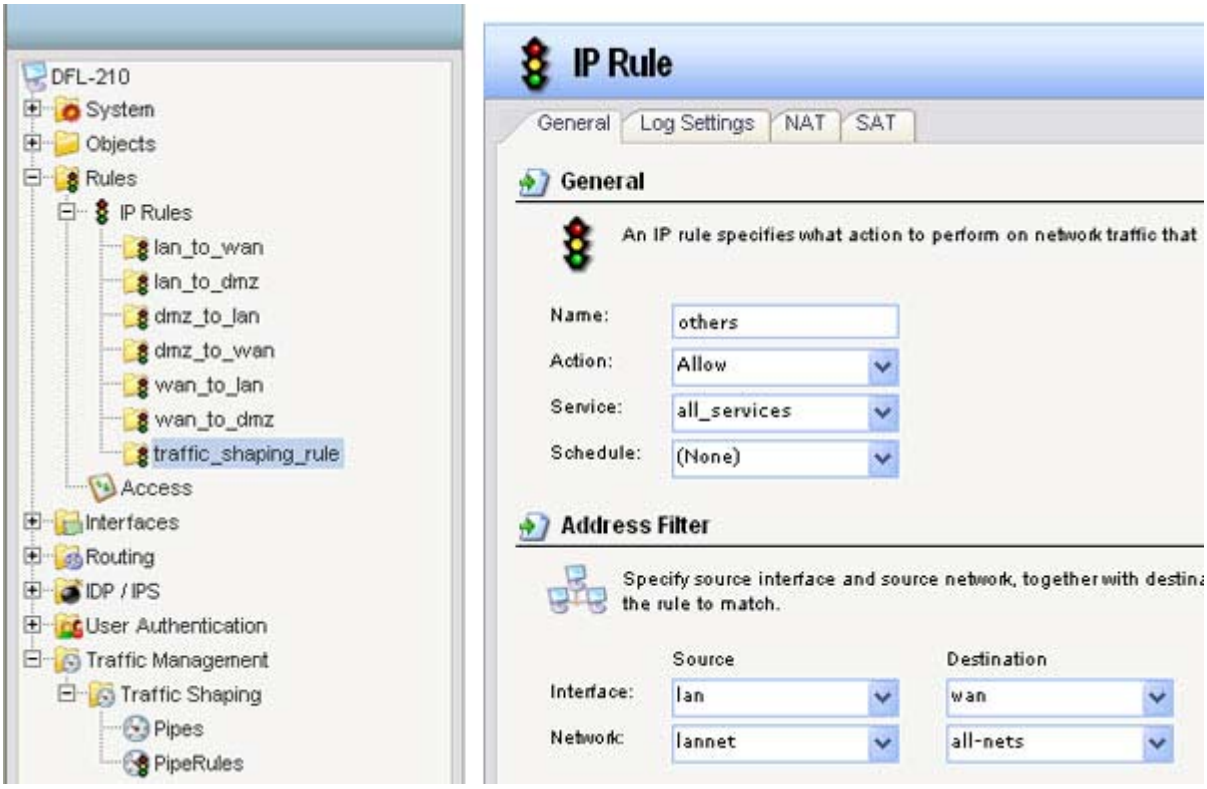
Click **OK**.



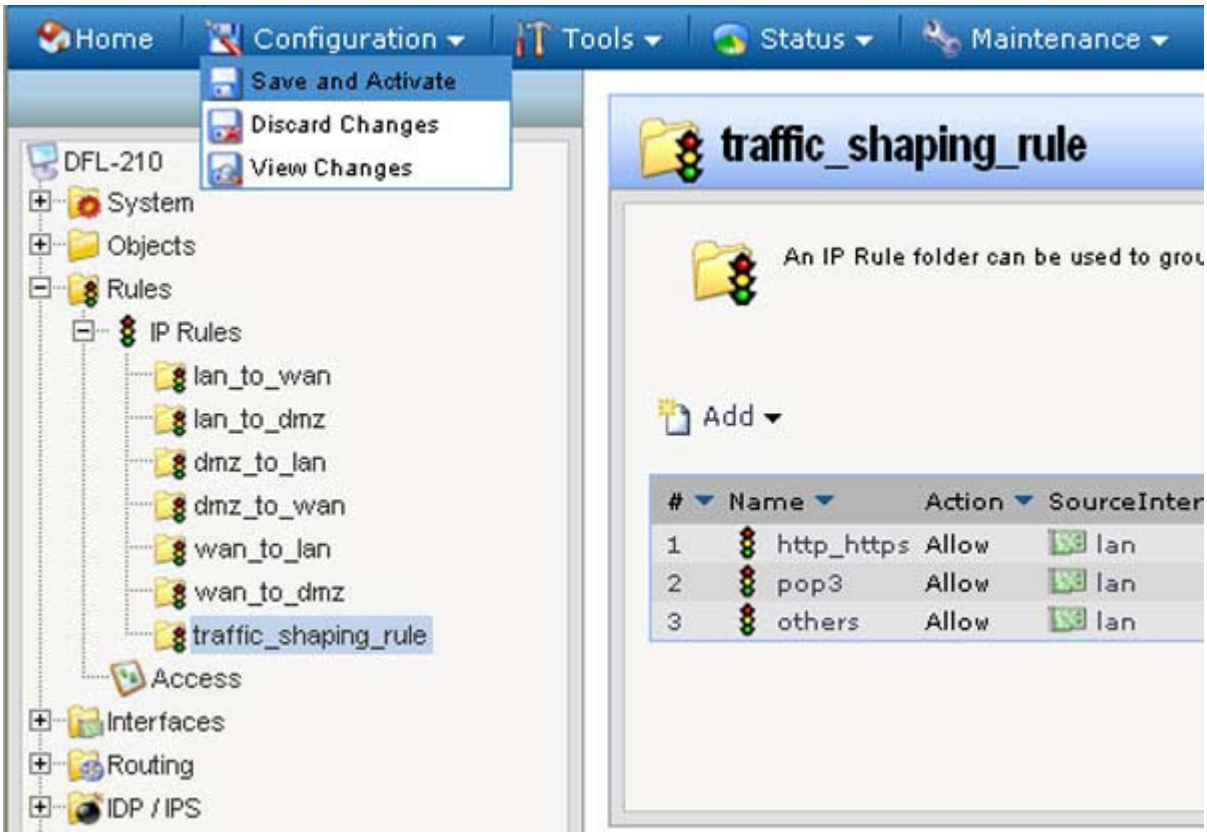
Step 17: Click **Add** and select **IP Rule**. Configure the new IP rule as followed:

- **Name:** Name as desired
- **Action:** Allow
- **Service:** all_services
- **Schedule:** None
- **Source Interface:** lan
- **Source Network:** lannet
- **Destination Interface:** wan
- **Destination Network:** all-nets

Click **OK**.



Step 18: Click on the **Configuration** tab and select **Save and Activate** from the dropdown menu Click **OK**.


Home
Configuration
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Status
Maintenance
Save and Activate
Discard Changes
View Changes
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System
Objects
Rules
IP Rules
lan_to_wan
lan_to_dmz
dmz_to_lan
dmz_to_wan
wan_to_lan
wan_to_dmz
traffic_shaping_rule
Access
Interfaces
Routing
IDP / IPS
traffic_shaping_rule
An IP Rule folder can be used to grou
Add
Name Action SourceInter
1 http_https Allow lan
2 pop3 Allow lan
3 others Allow lan