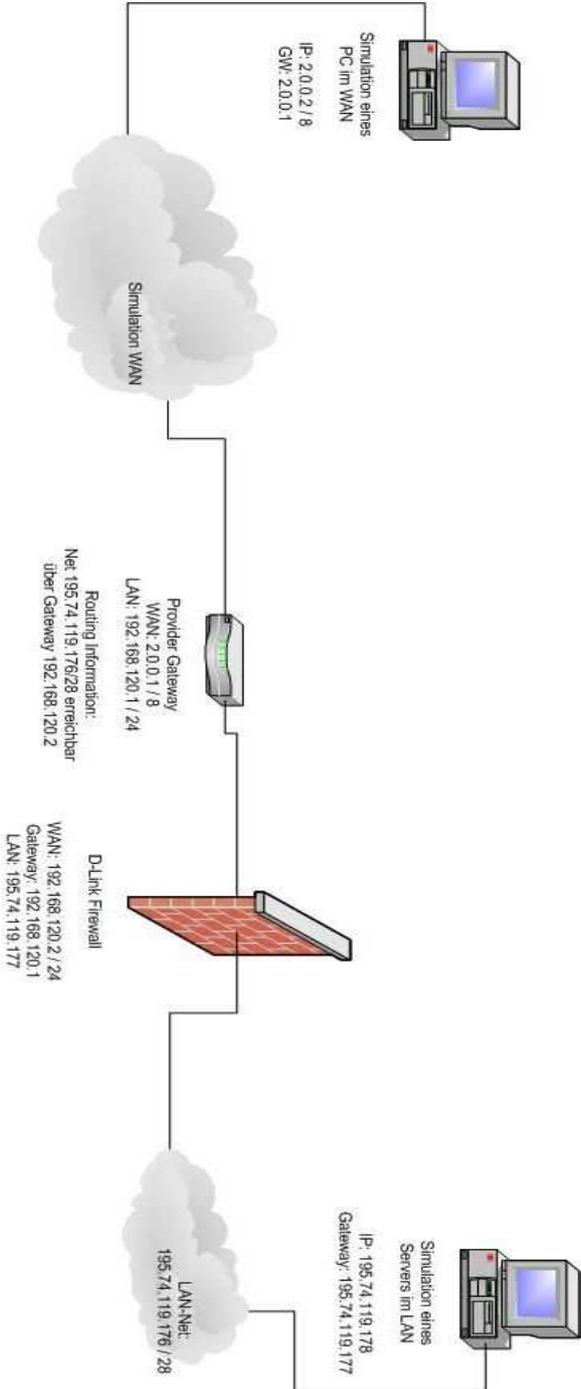


Benutzung mehrerer öffentlicher IP-Adressen

Anleitung für die DFL-200, DFL-700 und DFL-1100

TestszENARIO:



Dieser Bericht beschreibt die Nutzung von mehreren öffentlichen IP-Adressen am LAN bzw. DMZ Interface der DFL-200, DFL-700 oder DFL-1100.

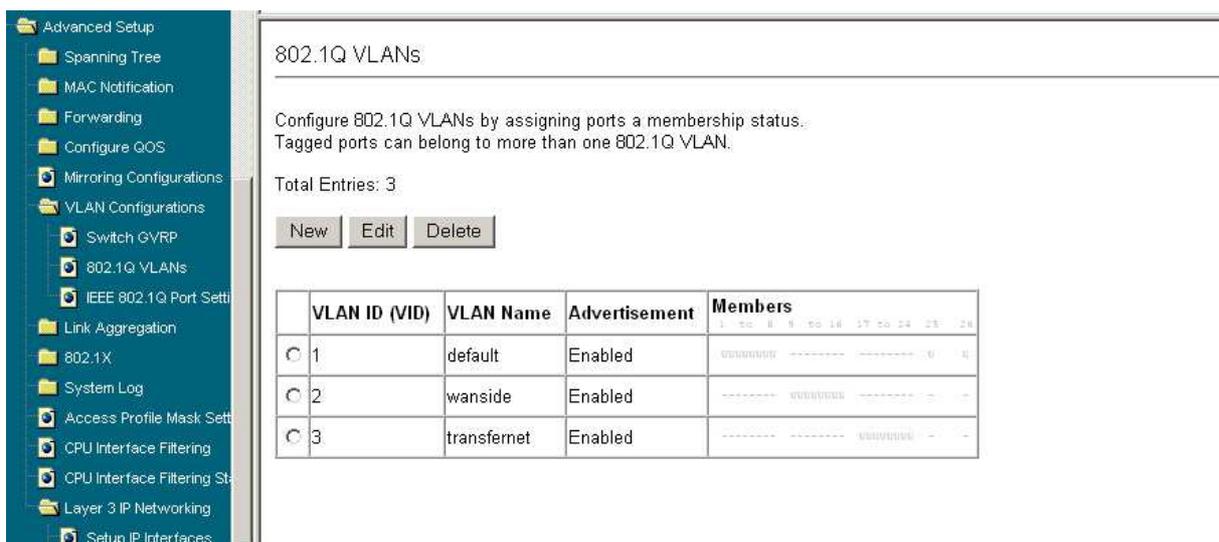
Um das hierzu benötigte Transfer-Netz einzurichten, benötigen Sie einen Konfigurationszugriff auf den Providerrouter.

In diesem Beispiel wird der Providerrouter durch einen Layer 3 Switch ersetzt.

Die Konfiguration des Switches wurde wie folgt durchgeführt:

1. Erstellen von 2 VLANs (VLAN 2 und VLAN 3) um im nächsten Schritt das Routing zu realisieren.

Das „default“ VLAN ist in diesem Beispiel nur zur Konfiguration gedacht und hat mit dem Routing nichts zu tun.



The screenshot shows a network configuration interface. On the left is a navigation menu with the following items: Advanced Setup, Spanning Tree, MAC Notification, Forwarding, Configure QoS, Mirroring Configurations, VLAN Configurations (selected), Switch GVRP, 802.1Q VLANs (selected), IEEE 802.1Q Port Settings, Link Aggregation, 802.1X, System Log, Access Profile Mask Settings, CPU Interface Filtering, CPU Interface Filtering Settings, Layer 3 IP Networking, and Setup IP Interfaces.

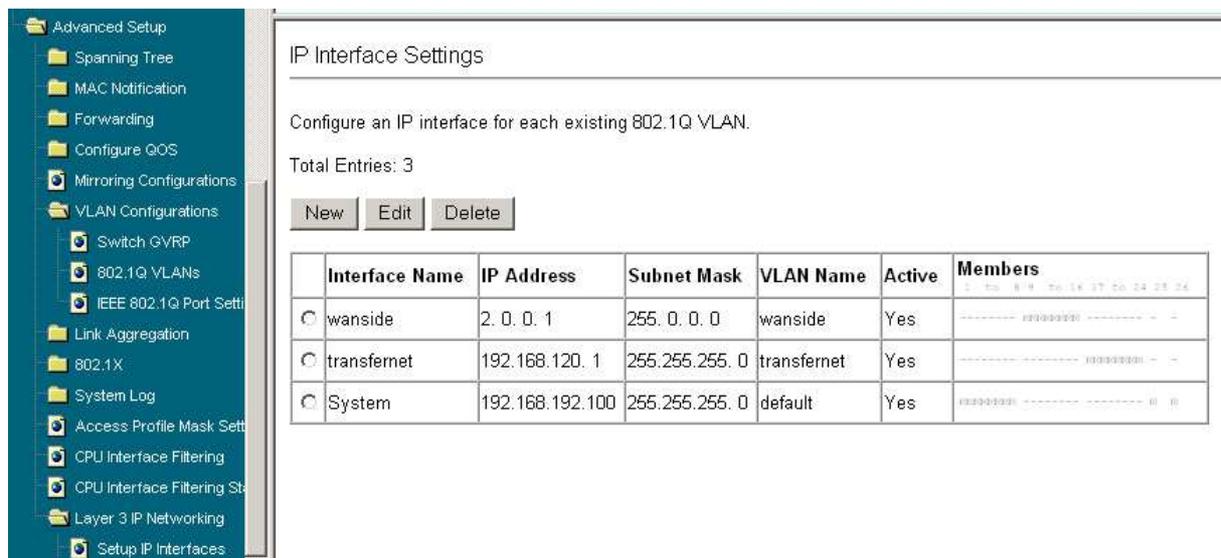
The main content area is titled "802.1Q VLANs". Below the title, it says: "Configure 802.1Q VLANs by assigning ports a membership status. Tagged ports can belong to more than one 802.1Q VLAN." Below this text, it says "Total Entries: 3". There are three buttons: "New", "Edit", and "Delete".

	VLAN ID (VID)	VLAN Name	Advertisement	Members
<input type="radio"/>	1	default	Enabled	-----
<input type="radio"/>	2	wanside	Enabled	-----
<input type="radio"/>	3	transfemet	Enabled	-----

2. Zuweisung der IP-Adressen für die „WAN und Transfernetz Seite“.

Hier wird das Routing zwischen Transfernetz (192.168.120.0/24) und dem simulierten Internet (2.0.0.0/8) konfiguriert.

In der Praxis muss nur das Transfernetz konfiguriert werden, da die WAN-Seite des Providerrouters bereits korrekt konfiguriert ist.

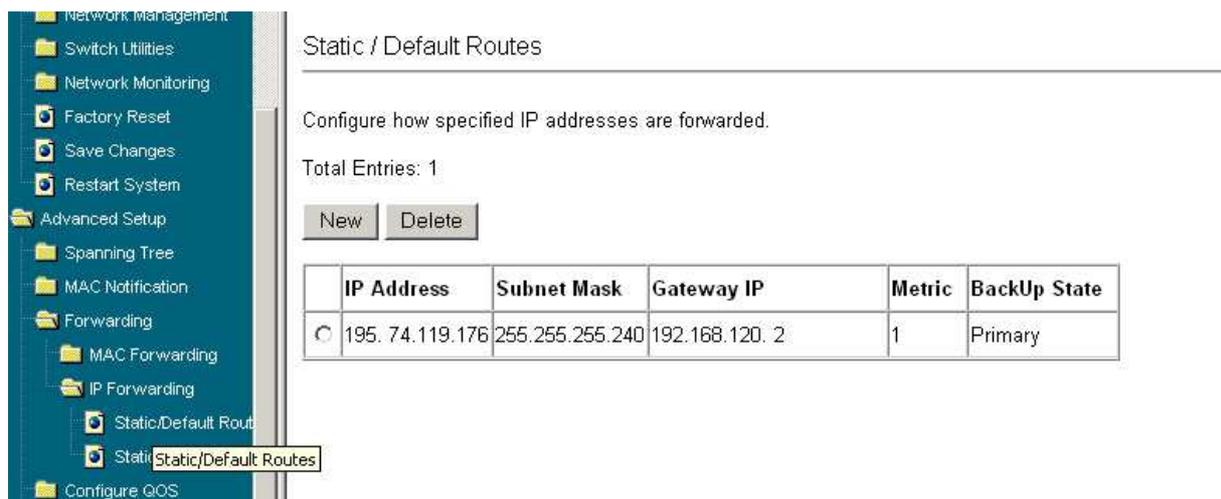


The screenshot shows the 'IP Interface Settings' configuration page. The left sidebar contains a tree view with 'Setup IP Interfaces' selected. The main content area has the title 'IP Interface Settings' and a subtitle 'Configure an IP interface for each existing 802.1Q VLAN.' Below this, it indicates 'Total Entries: 3' and provides 'New', 'Edit', and 'Delete' buttons. A table lists the configured interfaces:

	Interface Name	IP Address	Subnet Mask	VLAN Name	Active	Members
<input type="radio"/>	wanside	2.0.0.1	255.0.0.0	wanside	Yes	----- 00000000 ----- - -
<input type="radio"/>	transfernet	192.168.120.1	255.255.255.0	transfernet	Yes	----- 00000000 ----- - -
<input type="radio"/>	System	192.168.192.100	255.255.255.0	default	Yes	00000000 ----- 00000000 0 0

3. Einrichtung eines Routing um das öffentliche Netz hinter der DFL zu erreichen.

Durch diese Konfiguration wird dem Switch mitgeteilt, dass das öffentliche Netz 195.74.119.176/28 über das Gateway 192.168.120.2 (DFL) zu erreichen ist.



The screenshot shows the 'Static / Default Routes' configuration page. The left sidebar contains a tree view with 'Static/Default Routes' selected. The main content area has the title 'Static / Default Routes' and a subtitle 'Configure how specified IP addresses are forwarded.' Below this, it indicates 'Total Entries: 1' and provides 'New' and 'Delete' buttons. A table lists the configured static route:

	IP Address	Subnet Mask	Gateway IP	Metric	BackUp State
<input type="radio"/>	195.74.119.176	255.255.255.240	192.168.120.2	1	Primary

4. Hier wird das LAN-Interface der DFL konfiguriert

The screenshot shows the 'Interface Settings' page for the LAN interface. The navigation bar at the top includes 'System', 'Firewall', 'Servers', 'Tools', 'Status', and 'Help'. The main content area is titled 'Interface Settings' and contains the text 'Edit settings of the LAN interface:'. Below this, there are two input fields: 'IP Address' with the value '195.74.119.177' and 'Subnet Mask' with the value '255.255.255.240 - 16 hosts (/28)'. To the right of these fields are three buttons: 'Apply' (green checkmark), 'Cancel' (orange X), and 'Help' (red plus). Below the main settings area is a section titled 'Available interfaces' with a light blue background. It lists four interfaces: 'LAN', 'WAN (Static)', 'DMZ', and 'ETH4', each with a blue 'Edit' link next to it.

5. Hier wird das WAN-Interface der DFL konfiguriert.

Interface Settings

Edit settings of the **WAN** interface:

Change WAN Type:

Static WAN interface configuration is most commonly used in dedicated-line internet connections. Your ISP usually provides this information to you.

IP Address:
Subnet Mask:
Gateway IP:
Primary DNS Server:
Secondary DNS Server: (optional)

6. Hier sehen Sie den Routingeintrag in der DFL.

Achten Sie auf die Aktivierung des Proxy ARP.

Routing Table

Edit **195.74.119.176/255.255.255.240** route:

Note that this is the local network route for the interface; you can only change the Proxy ARP setting.

Interface:

Network:

Subnet Mask:

Gateway: Network is behind remote gateway

Proxy ARP: Publish network on all other interfaces via Proxy ARP

Additional IP: Additional firewall IP address that hosts can use as gateway:



7. Hier die Übersicht der Routing-Tabelle

Routing Table

Pick a route to edit from the below list:

Note that routing table ordering does not matter; smaller routes are always picked above larger ones.



Interface	Network	Gateway	Additional IP	Proxy ARP	
LAN	195.74.119.176/28			Yes	[Edit]
WAN	192.168.120.0/24				[Edit]
WAN	0.0.0.0/0	192.168.120.1			[Edit]
DMZ	127.0.0.0/24				[Edit]
ETH4	127.0.0.0/24				[Edit]
[Add new]					

8. In diesem Test wurden alle Verbindungen freigeschalten.

In der Praxis sollten die Rules genauer definiert werden.

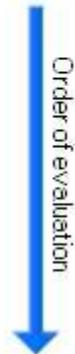
Firewall Policy

Show policy: [LAN->WAN](#) [LAN->DMZ](#) [WAN->DMZ](#) [LAN->ETH4](#) [WAN->ETH4](#) [DMZ->ETH4](#)
[WAN->LAN](#) [DMZ->LAN](#) [DMZ->WAN](#) [ETH4->LAN](#) [ETH4->WAN](#) [ETH4->DMZ](#)

Select "Add New" below, or select a rule from the list to edit it:

WAN->LAN Policy

Name	Action	Source	Destination	Service	Move
#1 test	Allow	Any	Any	All Protocols	[Edit]
[Add new]					



If no rule matches, the connection will be denied and logged.

Nun können Sie die öffentlichen IP-Adressen vom WAN-PC über die DFL erreichen.