

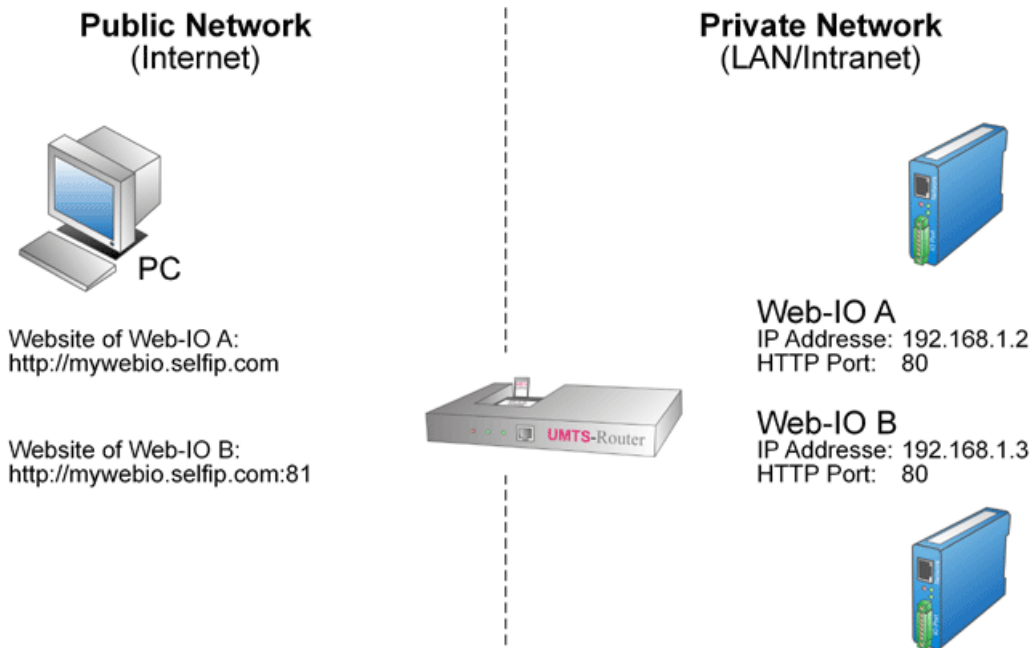
Application for the Web-IO Digital:

# Configuring a Greengate VPN 40 UMTS router for connecting the Web-IO over the cell phone network

Product overview

Application overview

In the router configuration shown here it makes no difference which Web-IO models are connected through the cellular phone network. Switching the digital signals of a Web-IO Digital is just as possible as sending alarm e-mails from the Web-Thermo-Hygrobarograph or a Web-IO Analog when limit values are exceeded.

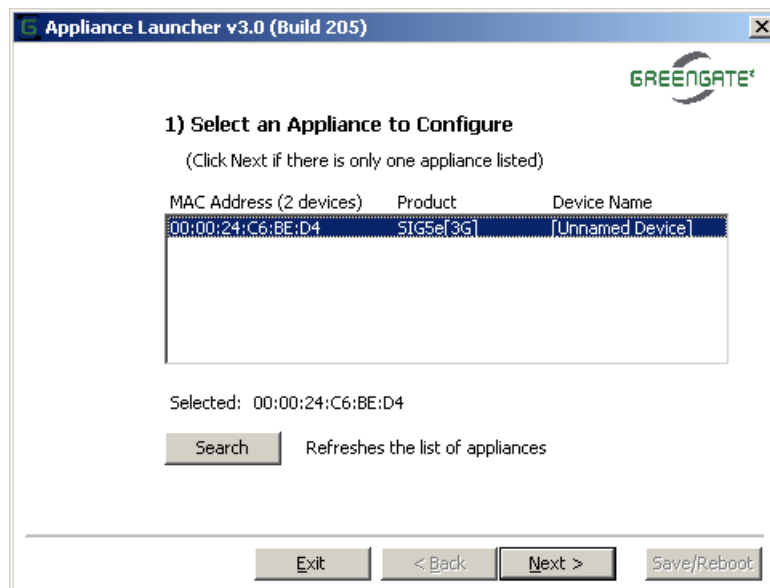


## Basic configuration of the UMTS router

To operate this router you need a PCMCIA card for the UMTS connection. First the SIM card of a cellular phone provider needs to be plugged into the PCMCIA card. Then the PCMCIA card is plugged into the router slot (the SIM card should be configured so that no login with PIN is required).

Even if the connected Web-IO needs to work later autonomously in its own "mini-network", the router must first be connected to a PC through the DEV1 port for basic configuration.

The CD included with the router contains a program named VPNLauncher. Starting this tool begins the configuration process.



Highlight the router you wish to configure in the list and then click on Next to confirm.

To continue with configuration, enter the user name and password (default for both is *admin*)

Then you assign the IP address and subnet mask for the router in the private (local) network. To operate a Web-IO on the router, extended settings are necessary which you can make by clicking on *Advanced Options*.

To ensure unique addressing the Web-IO must use fixed IP addresses. DHCP can therefore be set to OFF. Before you exit this part of the configuration, you must confirm the changes by clicking on *Apply*.

Use *Save/Reboot* to save the basic configuration.

This basic configuration is sufficient for ensuring that the Web-I/Os can use outgoing services such as e-mail or FTP.

### Expanded configuration for being able to use service services of the Web-I/O via UMTS

In the second step you can fine-tune the router. This is done in the browser by entering `https://<ip-address or the router>` in the URL field. It is important here to ensure that the URL uses https and not http.

Adresse	<code>https://192.168.1.1</code>
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The IP address of the PC must be in the same IP address range as that of the router.

After login by entering the user name and password, you can configure the DynDNS service in the System >> Uplink2 area (this is the UMTS access).

UPLINK2

UPLINK2 is up (UPLINK is default).

IP Address:

Subnet Mask:

Default Gateway:

Respond To Ping:  Yes  No

Purpose:

Probe Hosts:

Probe Interface:

Dynamic DNS Service:

Dynamic DNS Hostname:

Dynamic DNS Userid:

Dynamic DNS Password:

Rx Bandwidth:  kbit/sec

Tx Bandwidth:  kbit/sec

SIM PIN Code:

Mobile Access Technology:

Mobile Network Operator:

ISP (SIM provider) Settings

APN:

User Name:

Password:

ISP Authentication:

ISP User Name:

ISP Password:

You must enter the Hostname, UserID and password for the DNS service. To be able to use DynDNS, it is necessary first to create a corresponding account under DynDNS. This service is currently free.

DynDNS

Logged In User: My Services - My Certs - My Out

About Services Account Support News

Super dynamic TTL of 20 seconds. Consider an [Account Upgrade](#).

My Account

My Services

Account Upgrades

SLA

Premier Support

Zone Services

Host Services

Mail/ftp Outbound

Recursive DNS

Network Monitoring

SSL Certificates

### Host Services

[Add New Hostname](#) - [Host Update Log](#)

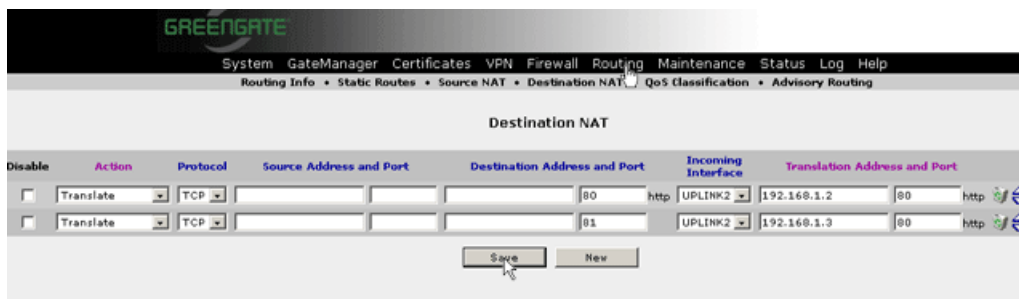
Hostname	Service	Details	Last Updated
<a href="#">mywebio.selfip.com</a>	Host	88.128.53.13	Nov. 28, 2007 2:29 AM

[Bulk Update IP Address And Service Type](#)

[Host Update Log](#)

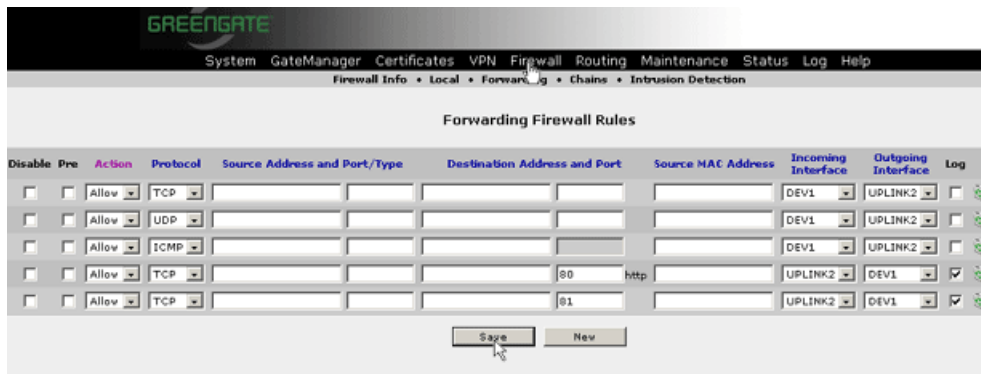
The Web-I/Os should be accessible from the Internet side through the browser. This means the corresponding NAT routes must be configured (area Routing >> Destination NAT).

In the private network both Web-I/Os have IP addresses 192.168.1.2 and 192.168.1.3. The HTTP port for both is 80. To access from the Internet, the NAT router is configured such that the Web-I/O 192.168.1.2 can normally be accessed through Port 80 (browser entry: `http://mywebio.selfip.com`) and Web-I/O 192.168.1.3 through Port 81 (browser entry: `http://mywebio.selfip.com:81`).



Of course other services and Web-IOs can be added when expanding the private network.

The Greengate UMTS/GPRS router protects the private network using an integrated firewall against unauthorized access from the Internet. Which services and ports can be accessed from the outside is configured in the firewall area.

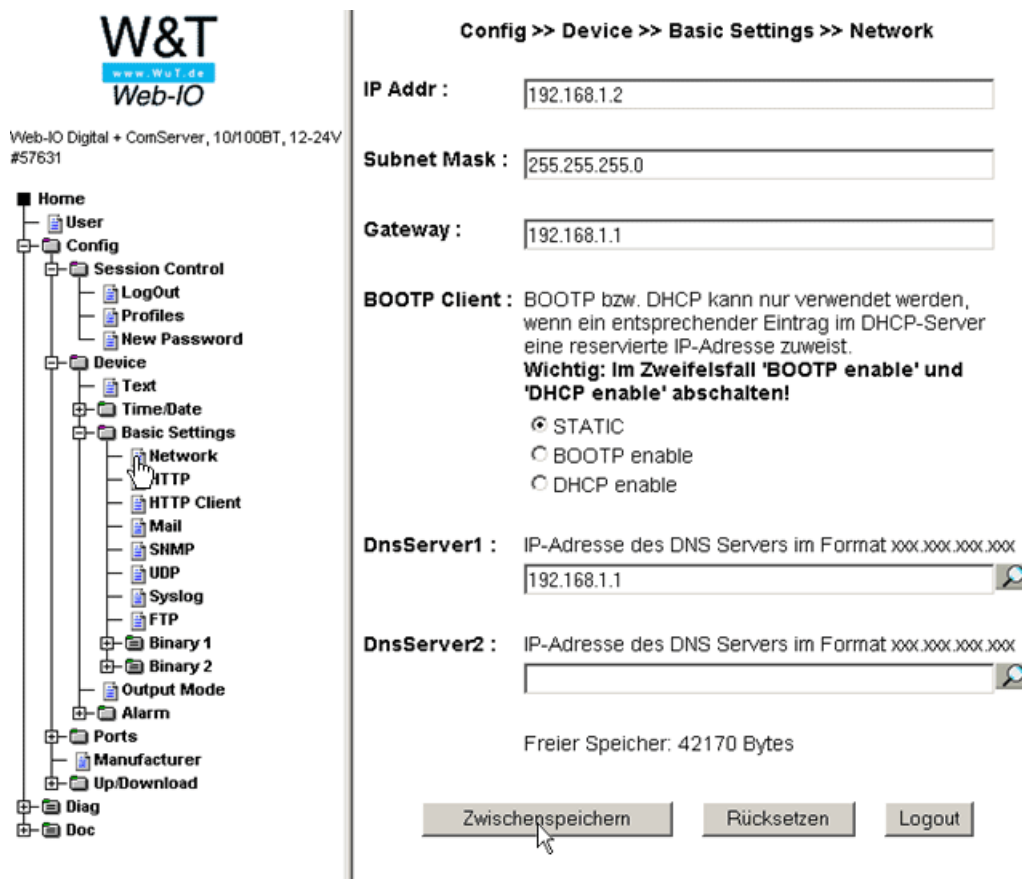


The outgoing services (access from the local network to servers in the Internet) are already enabled by default based on TCP and UDP. In order to make server services within the private network available from the Internet side, the corresponding port numbers and the protocol (TCP or UDP) must be added (here TCP and Port 80/81).

Once all the entries have been saved, the router is ready to use.

### Network parameters for the Web-IO

Lastly the IP address of the router as a gateway and DNS server need to be entered for the Web-IOs.



Once these parameters have been saved and the Web-IOs connected to the router, the UMTS link is complete.

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Wiesemann & Theis  
GmbH  
Porschestra. 12  
42279 Wuppertal  
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5  
p.m.)  
Fax: +49 202/2680-265  
info@wut.de

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