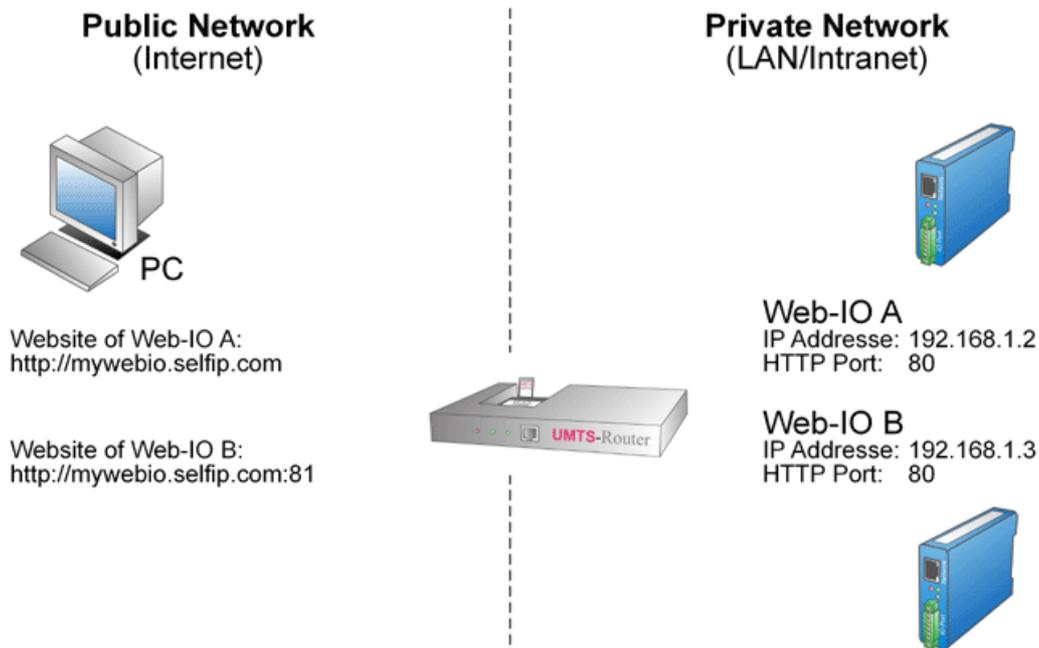


Application for the Web-IO Digital:

Configuring a *UR 5 UMTS* router for connecting the Web-IO over the cell phone network

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.



Configuring the UMTS router

The SIM card for a cell phone service provider is required for operating this UMTS router. The SIM card is plugged into the slot provided in the router.

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 ETH port for basic configuration. The factory set IP address for the router is 192.168.1.1. An IP address in the same subnet area must be assigned to the PC (only the number behind the last decimal point may differ).

After the router has been supplied with power, the configuration in the browser may begin. To do this, address <http://192.168.1.1> is entered. Before you get to the configuration menu, you must first enter the user and password. The factory setting in both cases is "root".

To get unlimited access to the cell phone network, you must unlock the SIM card. This can be done under *Administration >> Unlock SIM card* by entering the PIN.

UMTS router UR5

Status	Unlock SIM Card
Network	SIM PIN <input type="text" value="4711"/>
DHCP	<input type="button" value="Apply"/>
IPsec	
PPP	
DynDNS	
System Log	
Configuration	
LAN	
PPP	
NAT	
IPsec	
GRE	
L2TP	
DynDNS	
NTP	
SMS	
External Port	
Administration	
Change Password	
Set Real Time Clock	
Unlock SIM Card	
Backup Configuration	

In the next step the basic network settings are made. This is possible under LAN configuration. To operate with Web-IOs, Enable DHCP server should be deactivated, since the Web-IOs must have fixed IPs within the private network in order to be reachable later from the Internet.

UMTS router UR5

Status	LAN Configuration
Network	IP Address <input type="text" value="192.168.1.1"/>
DHCP	Subnet Mask <input type="text" value="255.255.255.0"/>
IPsec	Media Type <input type="text" value="Auto-Negotiation"/>
PPP	<input type="checkbox"/> Enable DHCP server
DynDNS	IP Pool Start <input type="text" value="192.168.1.2"/>
System Log	IP Pool End <input type="text" value="192.168.1.254"/>
Configuration	<input type="button" value="Apply"/>
LAN	
PPP	
NAT	
IPsec	
GRE	
L2TP	
DynDNS	
NTP	
SMS	
External Port	
Administration	
Change Password	
Set Real Time Clock	
Unlock SIM Card	
Backup Configuration	

For the Web-IOs to be reachable in the private network from a browser, a DynDNA name must be created for the router access. This service is currently offered at <http://www.dyndns.org> at no cost.

Logged In User: [My Services](#) - [My Certs](#) - [Logout](#)

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My Services

Account Upgrades

SLA

Premier Support

Zone Services

Host Services

Mail-Host Outbound

Recursive DNS

Network Monitoring

SSL Certificates

Host Services

[Add New Hostnames](#) - [Host Update Logs](#)

Hostname	Service	Details	Last Updated
mywebio.selfip.com	Host	88.128.53.13	Nov. 28, 2007 2:29 AM

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

[Host Update Log](#)

In the area *Configuration >> DynDNS* you can enter the host name, UserID and password for the DNS service.

UMTS router UR5

Status

[Network](#)

[DHCP](#)

[IPsec](#)

[PPP](#)

[DynDNS](#)

[System Log](#)

Configuration

[LAN](#)

[PPP](#)

[NAT](#)

[IPsec](#)

[GRE](#)

[L2TP](#)

[DynDNS](#)

[NTP](#)

[SMS](#)

[External Port](#)

Administration

[Change Password](#)

[Set Real Time Clock](#)

[Unlock SIM Card](#)

[Backup Configuration](#)

DynDNS Configuration

Enable DynDNS client

Hostname

Username

Password

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

UMTS router UR5

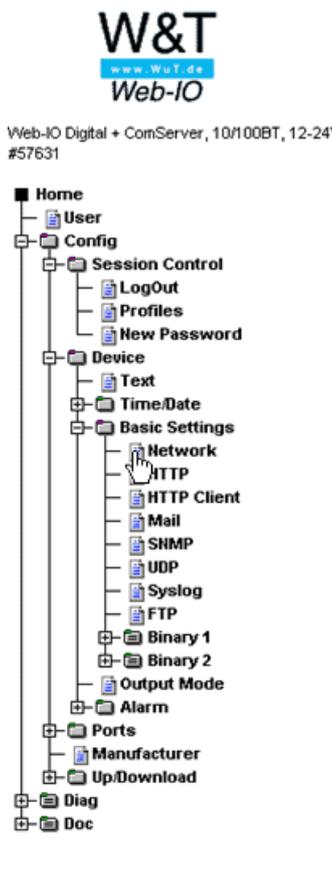
Status		NAT Configuration			
Network DHCP IPsec PPP DynDNS System Log		Public Port	Private Port	Type	Server IP Address
Configuration LAN PPP NAT IPsec GRE L2TP DynDNS NTP SMS External Port		80	80	TCP	192.168.1.2
Administration Change Password Set Real Time Clock Unlock SIM Card Backup Configuration		81	80	TCP	192.168.1.3
				TCP	
		<input type="checkbox"/> Enable remote HTTP access <input type="checkbox"/> Enable remote Telnet access <input type="checkbox"/> Send all remaining incoming packets to default server			
		Default Server IP Address <input type="text"/>			
		<input type="button" value="Apply"/>			

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

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.



Web-IO Digital + ComServer, 10/100BT, 12-24V #57631

- Home
- User
- Config
 - Session Control
 - LogOut
 - Profiles
 - New Password
 - Device
 - Text
 - Time/Date
 - Basic Settings
 - Network
 - HTTP
 - HTTP Client
 - Mail
 - SNMP
 - UDP
 - Syslog
 - FTP
 - Binary 1
 - Binary 2
 - Output Mode
 - Alarm
 - Ports
 - Manufacturer
 - Up/Download
 - Diag
 - Doc

Config >> Device >> Basic Settings >> Network

IP Addr :

Subnet Mask :

Gateway :

BOOTP Client : BOOTP bzw. DHCP kann nur verwendet werden, wenn ein entsprechender Eintrag im DHCP-Server eine reservierte IP-Adresse zuweist.
Wichtig: Im Zweifelsfall 'BOOTP enable' und 'DHCP enable' abschalten!

STATIC
 BOOTP enable
 DHCP enable

DnsServer1 : IP-Adresse des DNS Servers im Format xxx.xxx.xxx.xxx

DnsServer2 : IP-Adresse des DNS Servers im Format xxx.xxx.xxx.xxx

Freier Speicher: 42170 Bytes

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

[We are available to you in person:](#)

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