

Grundlegende Informationen zur Einrichtung des Portforwardings beim DSR-1000N (FW 1.04B13).

Szenario:

Client/Benutzer aus dem Internet möchte auf einen Server im lokalem Netzwerk hinter einem DSR-1000N zugreifen. (In diesem Beispiel soll auf die HTTP Weboberfläche eines Webservers zugegriffen werden, dieser läuft auf Port 1996 (Standard Port 80).)

1.) WAN Status prüfen und ggfls. Internetverbindung herstellen

WAN1 Information	
MAC Address:	00:18:E7:CD:69:52
IPv4 Address:	192.168.30.2 / 255.255.255.252
IPv6 Address:	fe80::218:e7ff:fecd:6952 / 64
Wan State:	UP
NAT (IPv4 only):	Enabled
IPv4 Connection Type:	Static IP
IPv6 Connection Type:	Dynamic IP (DHCPv6)
IPv4 Connection State:	Connected
IPv6 Connection State:	Not Yet Connected
Link State:	LINK UP
WAN Mode:	Use only single WAN port: Dedicated WAN
Gateway:	192.168.30.1
Primary DNS:	192.168.30.1
Secondary DNS:	192.168.10.1
Primary DNS(IPv6):	
Secondary DNS(IPv6):	



2.) "Custom Services" für die gewünschte Verbindung anlegen

Anmerkung: Das Anlegen von "Custom Services" ist nur dann notwendig wenn noch kein Standardservice für die Firewallregeln angelegt wurde.

Product Page: DSR-1000N						Hardware Ver	sion: A1 Firm	ware Version: 1.03B12_WW
D T S	-1- [®]							
DSR-1000N	SETUP	ADV	ANCED	то	OLS	STA	TUS	HELP
Application Rules								Helpful Hints
Website Filter 🔹 🕨	APPLICATION RULES	i					LOGOUT	Application rules are also
Firewall Settings 🕨	Default Outbound Policy	lable port trig	gering rules an	d allows severa	l operations on	the rules.		referred to as port forwarding rules. Devices
Wireless Settings 🕨	Firewall Rules	send a request to the						
Advanced Network 🕨	Custom Services	Quitaging Ports Incoming Ports					defined outgoing ports, and then the configured	
Routing ▶		Protocol	Interface	Start Port	End Port	Start Port	End Port	rule will open the
Certificates	ALGS	Edi	t De	elete	Add			port for the specified type
Users 🕨	VPN Passthrough							WAN. Note that port triggering
IP/MAC Binding								is not appropriate for servers on the LAN, since
IPv6 🕨								there is a dependency on the LAN device making an
Radius Settings								before incoming ports are
Switch Settings								More
								· · · · · · · · · · · · · · · · · · ·
UNIFIED SERV	ICES ROUTER							

Klicken Sie auf Add um einen neuen Service anzulegen.

Product Page: DSR-1000N				Hardware Version: A1 Firm	ware Version: 1.03B12_WW				
D-Li	n k								
DSR-1000N	SETUP	ADVANCED	TOOLS	STATUS	HELP				
Application Rules					Helpful Hints				
Website Filter	CUSTOM SERVICES			LOGOUT	You can add custom				
Firewall Settings	This page allows a user to	add a user defined custom s	ervice.		services from here and use them in your firewall				
Wireless Settings 🛛 🕨	Save Settings	Save Settings Don't Save Settings							
Advanced Network 🕨		Plore							
Routing •	Custom Services Con	Custom Services Configuration							
Certificates	Name:	Name: Webserver_HTTP							
Users 🕨	Type:	Type: TCP 👻							
IP/MAC Binding	ICMP Type:								
IPv6	Start Port:	Start Port: 1996							
Radius Settings	Finish Port:								
Switch Settings	<u> </u>								
UNIFIED SERVICES ROUTER									

Bitte geben Sie wie im Beispiel angegeben, die Werte für den jeweiligen Service ein und klicken Sie zum Speichern auf "Save Settings".



Product Page: DSR-1000N				Hardware Version: A1 Firm	ware Version: 1.03B12_WW			
DTO								
D-Lil								
DSR-1000N	SETUP	ADVANCED	TOOLS	STATUS	HELP			
Application Rules		Operation	n succeeded		Helpful Hints			
Website Filter 🕨 🕨	CUSTOM SERVICES			LOGOUT	While common services			
Firewall Settings					use known TCP/UDP/ICMP ports, many custom or			
Wireless Settings 🔹 🕨	eless Settings When you create a firewall rule, you can specify a service that is controlled by the rule Common types of require traffic to be sent services are available for selection, and you can create your own custom services. This page allows creation							
Advanced Network 🕨	of custom services against which firewall rules can be defined. Once defined, the new service will appear in the List of Available Custom Services table.							
Routing ►	static ports for a unique identifier and then create							
Certificates	Name	firewall rules for this user-defined service.						
Users 🕨	Webserver	More						
IP/MAC Binding								
IPv6 🕨		Edit	Add					
Radius Settings								
Switch Settings								
UNIFIED SERVICES ROUTER								

In der Übersicht sehen Sie den/die von Ihnen angelegten Custom Service(s).

Product Page: DSR-1000N				Hardware Ver	sion: A1 Firm	ware Version: 1.03B12_WW		
D-Li	n k							
DSR-1000N	SETUP	ADVANCED	TOOLS	STA	TUS	HELP		
Application Rules D						Helpful Hints		
Website Filter	APPLICATION RULES	5			LOGOUT	Application rules are also		
Firewall Settings 🕨	Default Outbound Policy	able port triggering rules an	d allows several operations	on the rules.		referred to as port forwarding rules. Devices		
Wireless Settings 🕨	Firewall Rules	sends send a request to the Interest along one of the						
Advanced Network 🕨	Quetern Concisco	defined outgoing ports,						
Routing •	Custom Services	Protocol Interface	Start Port End Port	Start Port	End Port	rule will open the		
Certificates	ALGS	Edit	elete Add			port for the specified type of traffic coming from the		
Users 🕨	vi Ni assunougn					WAN. Note that port triggering		
IP/MAC Binding						is not appropriate for servers on the LAN, since		
IPv6						there is a dependency on the LAN device making an		
Radius Settings						before incoming ports are		
Switch Settings						More		
						4		
UNIFIED SERV	ICES ROUTER							

3.) Anlegen einer Firewall Regel für den soeben angelegten "Custom Service"

Klicken Sie auf Add um eine neue Firewall Regel anzulegen.



Application Rules			Helpful Hints
Website Filter 🔹 🕨	FIREWALL RULES	LOGOUT	If you are not an expert
Firewall Settings	This page allows you to add a new firewall rule or	edit the configuration of an existing firewall rule. The details	user, we recommend not to configure firewall rules
Wireless Settings 🛛 🕨	will then be displayed in the List of Available Firew	vall Rules table on the Firewall Rules page.	and leave the router into default firewall
Advanced Network 🔸	Save Settings Don't Save Se	ttings	More
Routing	Firewall Rule Configuration		
Certificates	From Zone:	INSECURE (WAN) 👻	
Users 🕨	To Zone:	SECURE (LAN) 👻	
IP/MAC Binding	Service:	Webserver_HTTP 🗸	
IPv6	Action:	Always Allow 🗸	
Radius Settings	Select Schedule:		
Switch Settings	Source Hosts:	Any 🗸	
	From:		
	То:		
	Destination Hosts:	Any 👻	
	From:		
	То:		
	Log:	Never 👻	
	QoS Priority:	Normal-Service 👻	
	Source NAT Settings		
	External IP Address:	WAN Interface Address	
	Single IP Address:		
	WAN Interface:	WAN1 -	
	Destination NAT Settings		
	Internal IP Address:	192.168.20.252	
	Enable Port Forwarding:		
	Translate Port Number:	1996	
	External IP Address:	Dedicated WAN 🗸	

Als Quelle für die Anfragen wird das Interface "Insecure (WAN)" ausgewählt. Das Ziel für das Portforwarding ist das Interface "Secure (LAN)". Den vorher angelegten "Custom Service" hier als "Service" auswählen. Unter dem Punkt "Action" wird die Option "Always Allow" angelegt.

Bei den NAT Einstellungen wird das Ziel und das Portforwarding für das anzusprechende Gerät (hier z.B.: lokale Webserver = 192.168.20.252 und http Port = 1996) eingetragen.



! ab der Firmware 1.04B13 lassen sich die Portweiterleitungen auch gezielt in vorhandene VLANs legen !

Website Filter	FIREWALL RULES LOGOUT This page allows you to add a new firewall rule or edit the configuration of an existing firewall rule. The details will then be displayed in the List of Available Firewall Rules table on the Firewall Rules page. Save Settings Don't Save Settings Don't Save Settings						GOUT tails	If you are not an expert user, we recommend not to configure firewall rules and leave the router into default firewall configuration.		
Certificates	From Zone:	conngurat	INSECUR	E (WAN1	/WAN2/	WAN3 (3G Internet)) 💌			
	Available V	ANo	Defeut	2 (177.111		11110				
IP/MAC Binding		LANS.								
	To Zone:		SECURE	(VLAN)					-	
Radius Settings	Available VI	LANs:	TEST_CP Default		-					
Captive Portal	Service:		TEST CP MOBILEH	OTSPOT						
Switch Settings	Action:		Always Blo	ock			•			
	Select Sche	dule:	-							
	Source Hos	ts:	Any	•]					
	From:									
	To:				_					
	Destination	Hoster	Amer		1					
	Descination	nosts.	Arty							
	From:									
	To:									
	Log:		Never -	•						
	Ooe Driority		Normal Co	nico	_					
Application Rules										Helpful Hints
Website Filter			Ор	eration s	ucceede	d				
Firewall Settings	FIREWALL RULE	S						L	OGOUT	Inbound rules govern access from the WAN to
Wireless Settings	A firewall is a secur	rity mechanism	n to selectively bloc	k or allow	certain t	pes of t	raffic in accordance with	rules spec	ified	firewall rules allow you to specify which local
Advanced Network	by network adminis network. The List of	strators. You o of Available Fir	can use this page t rewall Rules table in	o manage ncludes all	the firew firewall ru	all rules ules for t	that control traffic to an his device and allows se	d from you veral opera	r ations	resources can be accessed from the internet. By
Routing •	on the nrewait rule	5.								default all access from the internet blocked from
Certificates	List of Available	Firewall R	ules		Source	Dest		Internet		accessing the secure LAN, except in response to requests from the LAN ar
Users >	# Status	Zone Zone	Service	Action	Hosts	Hosts	Local Server	Dest	Log	DMZ. Outbound (LAN/DMZ to
IP/MAC Binding	1 Enabled	WAN LAN	Webserver_HTTP	ALLOW always	Any		192.168.20.252:1996	WAN1	Never	WAN) rules restrict access to traffic leaving your
IPv6		Edit	Enable	Disa	ble	Dele	Add]		network, selectively allowing only specific local
Radius Settings	_									users to access outside resources. Firewall rules are applied in
Switch Settings			Move To	First	▼	Move				the order listed. As a
										move the strictest rules (those with the most specific services or addresses) to the top of the list.

In der Übersicht sehen Sie die von Ihnen angelegte(n) Firewall Regel(n).



4.) Testen der Verbindung: z.B.: im IE8 eingeben: <u>http://192.168.30.2:1996</u>

HFS / - Microsoft Internet Explorer bereitge	estellt von D-Link (Deutschland) GmbH
http://192.168.30.2:1996/	
🚖 Favoriten 🛛 🚖 🙋 Ersatzteilshop der D-	Link (🙋 Technical Service Portal 🛛 🛿 Anmelden 🙋 T
🥖 🟉 HFS /	
S User	
Login	No files in this folder
📂 Folder	
🐼 Home	
0 folders, 0 files, 0 bytes	
Search	
All Invert Mask	
0 items selected	
Actions Archive Get list	
Server information	
Server time: 29.12.2010 13:22:10 Server uptime: 00:05:30	

Beachten Sie bitte, daß dieser Test von einem Rechner ausgeführt werden sollte, der nicht innerhalb des lokalen LANs verbunden ist, sondern von extern über die WAN Schnittstelle des DSR-1000N zugreift.