

bintec Workshop
DynDNS Configuration

Purpose This document is part of the user's guide to the installation and configuration of bintec gateways running software release 7.1.4 or later. For up-to-the-minute information and instructions concerning the latest software release, you should always read our **Release Notes**, especially when carrying out a software update to a later release level. The latest **Release Notes** can be found at www.funkwerk-ec.com.

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Guidelines and standards bintec gateways comply with the following guidelines and standards:

R&TTE Directive 1999/5/EG

CE marking for all EU countries and Switzerland

You will find detailed information in the Declarations of Conformity at www.funkwerk-ec.com.

**How to reach Funkwerk
Enterprise Communications
GmbH**

Funkwerk Enterprise Communications GmbH Suedwestpark 94 D-90449 Nuremberg Germany Telephone: +49 180 300 9191 0 Fax: +49 180 300 9193 0 Internet: www.funkwerk-ec.com	Bintec France 6/8 Avenue de la Grande Lande F-33174 Gradignan France Telephone: +33 5 57 35 63 00 Fax: +33 5 56 89 14 05 Internet: www.bintec.fr
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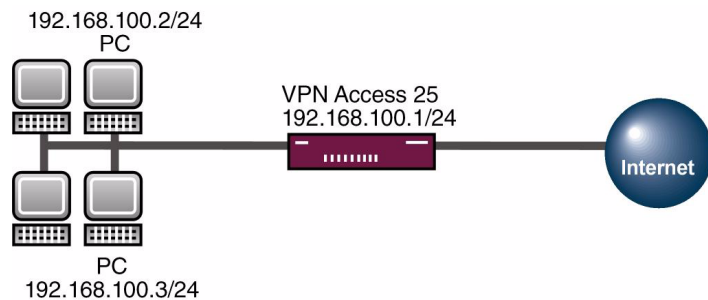
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1 Introduction

The following chapters describe the configuration of DynDNS. You will create an entry for the DynDNS provider *no-IP* and configure your DynDNS name *bintec.no-ip.com*, so that you can then administrate the router using Telnet over the Internet.

The Setup Tool is used for the configuration.

1.1 Scenario



1.2 Requirements

The following requirements must be fulfilled for the configuration:

- Basic configuration of router. The basic configuration using the Wizard is recommended.
- A boot image of version 7.1.1 or later.
- A working Internet access to the provider.
- Successful registration with the DynDNS provider *www.no-ip.com*

2 Configuration

Only the following menu is used for configuring DynDNS:

IP → DYNDNS

2.1 New Provider

If you would like to use a new DynDNS provider not yet included in your router's list, you must add this provider via the following menu:

■ Go to **IP → DYNDNS → DYNDNS PROVIDER LIST → ADD.**

VPN Access 25 Setup Tool		Bintec Access Networks GmbH
[IP] [DYNDNS] [DYNDNS PROVIDER] [EDIT]		Head_Office
Name	no-IP	
Server	dynupdate.no-ip.com	
Path	/nic/update	
Port	80	
Protocol	dyndns	
Minimum Wait (sec)	300	
SAVE		CANCEL
Enter string, max. length = 15 chars		

The following fields are relevant:

Field	Meaning
Name	Give the provider a name.
Server	Enter the IP address of the update server.
Path	The path to the registration script.
Port	Enter the port via which the service receives the update.

Field	Meaning
Protocol	The protocol used by the DynDNS provider.

Table 2-1: Relevant fields in **IP → DYNDNS → DYNDNS PROVIDER LIST → ADD**

Proceed as follows to configure the entry:

- Enter a **NAME**, e.g. *no-IP*.
- Enter *dynupdate.no-ip.com* for **SERVER**.
- Enter */nic/update* under **PATH**.
- Leave the **PORT** set to *80*.
- Select *dyndns* for **PROTOCOL**.
- Press **SAVE** to confirm your settings.

2.2 Configuring DynDNS

Create a new entry in the router for your registered DynDNS name. Go to the following menu for this:

- **IP → DYNDNS → ADD.**

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
[IP] [DYNDNS] [EDIT]	Head_Office
Host Name	bintec.no-ip.com
Interface	Internet
User	name@email.de
Password	secret
Provider	no-IP
MX	
Wildcard	off
Permission	enabled
SAVE	CANCEL
Enter string, max. length = 40 chars	

The following fields are relevant:

Field	Meaning
Host Name	Enter the complete host name you have registered.
Interface	Select the Internet interface.
User	Enter your user name.
Password	Enter your password.
Provider	Select your DynDNS provider.
Permission	Activate or deactivate the entry.

Table 2-2: Relevant fields in **IP → DYN DNS → ADD**

Proceed as follows to configure the entry:

- Enter **HOST NAME**, e.g. *bintec.no-ip.com*.
- Select **INTERFACE**, e.g. *Internet*.
- Enter **USER**, e.g. *name@email.de*.
- Enter **PASSWORD**, e.g. *secret*.
- The **PROVIDER** is *no-IP*.
- Set **PERMISSION** to *enabled*.
- Press **SAVE** to confirm your settings.

2.3 NAT Entries for Telnet

You should be able to administrate your router using Telnet over the Internet. Go to the following menu for the configuration in NAT:

IP → NETWORK ADDRESS TRANSLATION → INTERFACE → REQUESTED FROM OUTSIDE → ADD

VPN Access 25 Setup Tool		Bintec Access Networks GmbH	
[IP] [NAT] [EDIT] [OUTSIDE] [ADD]: NAT sessions from		Head_Office	
OUTSIDE (Internet)			
Service	user defined		
Protocol	tcp		
Remote Address			
Remote Mask			
External Address			
External Mask			
External Port	specify	Port	23
Internal Address	127.0.0.1		
Internal Mask	255.255.255.255		
Internal Port	any		
SAVE		CANCEL	

The following fields are relevant:

Field	Meaning
Protocol	For configuring the protocol used by the service.
External Port	This is the router port reached from outside.
Internal Address	The IP address to which you wish to be forwarded when you reach the router.
Internal Mask	The subnet mask that belongs to the internal address. This must always be 255.255.255.255 for a single IP.
Internal Port	For configuring the port you wish to reach on the internal system. Leave the entry set to <i>ANY</i> if the internal and external port are the same.

Table 2-3: Relevant fields in **IP → NETWORK ADDRESS TRANSLATION → INTERFACE → REQUESTED FROM OUTSIDE → ADD**

Proceed as follows to configure the entry:

- Set **PROTOCOL** to *tcp*.

- Set **EXTERNAL PORT** to *specify 23*.
- Configure the **INTERNAL ADDRESS** for the router to the loopback address *127.0.0.1*.
- The **INTERNAL MASK** remains set to *255.255.255.255*.
- Press **SAVE** to confirm your settings.

3 Result

You have entered the DynDNS provider *no-IP* in the router and registered a DynDNS name. The Bintec router can now also be administrated over the Internet.

3.1 Test

Go to the following menu to check that the current IP address is successfully registered with the DynDNS provider:

IP → DYNDNS

The **STATE** field of this menu must be set to *up-to-date*.

If you wish to administrate the Bintec router over the Internet, enter the following in the command prompt on a remote computer on the Internet:

e.g. `telnet bintec.no-ip.com`

You should then receive the normal login of the Bintec router.

3.2 Overview of Configuration Steps

Field	Menu	Description
Name	IP → DYNDNS → DYNDNS PROVIDER LIST → ADD	e.g. <i>no-IP</i>
Server	IP → DYNDNS → DYNDNS PROVIDER LIST → ADD	<i>dynupdate.no-ip.com</i>
Path	IP → DYNDNS → DYNDNS PROVIDER LIST → ADD	<i>/nic/update</i>
Port	IP → DYNDNS → DYNDNS PROVIDER LIST → ADD	80
Protocol	IP → DYNDNS → DYNDNS PROVIDER LIST → ADD	<i>dyndns</i>
Host Name	IP → DYNDNS → ADD	e.g. <i>bintec.no-ip.com</i>
Interface	IP → DYNDNS → ADD	e.g. <i>Internet</i>
User	IP → DYNDNS → ADD	e.g. <i>name@email.de</i>
Password	IP → DYNDNS → ADD	e.g. <i>secret</i>
Provider	IP → DYNDNS → ADD	<i>no-IP</i>
Permission	IP → DYNDNS → ADD	<i>enabled</i>
Protocol	IP → NAT → REQUESTED FROM OUTSIDE → ADD	<i>tcp</i>
External Port	IP → NAT → REQUESTED FROM OUTSIDE → ADD	<i>specify 23</i>
Internal Address	IP → NAT → REQUESTED FROM OUTSIDE → ADD	<i>127.0.0.1</i>
Internal Mask	IP → NAT → REQUESTED FROM OUTSIDE → ADD	<i>255.255.255.255</i>