

**bintec Workshop**  
**Remote 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](http://www.funkwerk-ec.com).

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The information in this manual is subject to change without notice. Additional information, changes and **Release Notes** for bintec gateways can be found at [www.funkwerk-ec.com](http://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](http://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: <a href="http://www.funkwerk-ec.com">www.funkwerk-ec.com</a>	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: <a href="http://www.bintec.fr">www.bintec.fr</a>
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<b>1</b>	<b>Introduction</b> .....	<b>3</b>
1.1	Requirements .....	3
<b>2</b>	<b>Configuration</b> .....	<b>5</b>
2.1	ISDN Login .....	5
2.2	Telnet .....	6
2.3	HTML Setup .....	7
2.4	SSH Client .....	9



# 1 Introduction

The following chapters present various possible ways of remotely configuring the router. These include ISDN Login, Telnet, HTML Setup and SSH Client.

The Setup Tool is used for the configuration, parallel to the shell.

## 1.1 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.
- Brickware with the **DIME Tools** must be installed.
- You need a software client for SSH access, e.g. SecureCRT or PuTTY.



## 2 Configuration

### 2.1 ISDN Login

For accessing a remote router, you have the option of using the **ISDN Login** tool from a bintec router.

Just connect the bintec router to your ISDN connection. The router carries out automatic D-channel detection and then accepts every incoming call for the ISDN Login service.

If you have entered at least one service in the **ISDN S0 → INCOMING CALL ANSWERING** menu, you must also make an entry for remote administration.

Go to the following menu to configure the entry for ISDN Login:

**ISDN S0 → INCOMING CALL ANSWERING → ADD.**

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
[SLOT 0 UNIT 4 ISDN BRI] [INCOMING] [EDIT]	Head_Office
Item	ISDN Login
Number	100100
Mode	right to left
Bearer	any
SAVE	CANCEL
Enter string, max. length = 42 chars	

The following fields are relevant:

Field	Meaning
Item	For selecting the service that is to react to your own number.

Field	Meaning
Number	Enter your own number (MSN) in this field.

Table 2-1: Relevant fields in **ISDN SO** → **INCOMING CALL ANSWERING** → **ADD**

Proceed as follows to configure the entry:

- Set **ITEM** to *ISDN Login* for remote administration.
- Enter your number under **NUMBER**, e.g. *100100*.



#### Note

If you only have one number available on the connection, which you also need for telephoning, you can set the bearer to *data*.

To carry out an ISDN Login on the router from a remote router, you must enter the following:

```
e.g. isdnlogin 100100
```

If you do not have a bintec router available from which you can carry out an ISDN Login, you can also set up a connection using a normal ISDN card.

To do this, open your terminal program, create a new connection, enter the number of the remote terminal and just select the X.75 transparent protocol to carry out remote administration.

## 2.2 Telnet

You can execute the Telnet program to the router in the ex works state, as every bintec router with software 6.3.4 or later has a fixed IP address (192.168.0.254) entered in the LAN interface.

To set up a connection to the router, just open the command prompt of your PC and enter the following:

```
e.g. telnet 192.168.0.254
```



The login window opens for entering your authentication data.

```
Welcome to VPN Access 25 version V.7.1 Rev. 6 (Patch 7) IPSec from
2005/01/18 00:00:00
System name is Head_Office, location is European Union

Login: admin
Password: bintec

Password not changed. Call "setup" for quick configuration.

Head_Office:>
```

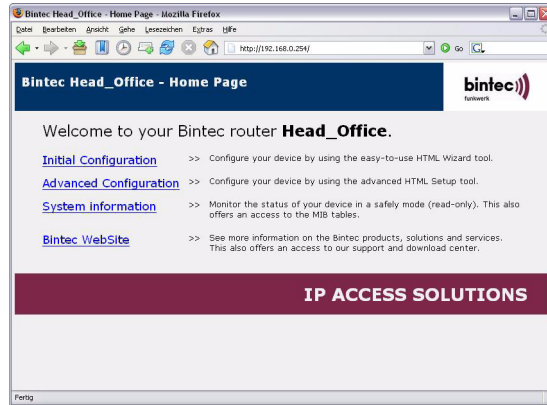
Proceed as follows to log in with the standard access code:

- Enter *admin* for **LOGIN**.
- Enter *bintec* under **PASSWORD**.
- Enter *setup* to open the Setup Tool.

## 2.3 HTML Setup

The bintec router also offers several options for configuration via HTML. Open your Internet Explorer and enter the IP address of the router in the URL bar.

e.g. <http://192.168.0.254>



Here you have a choice of two items you can use for configuration of your router:

Field	Meaning
Initial Configuration	A Wizard helps you to create the basic configuration.
Advanced Configuration	Here you find the Setup Tool, which is also available over Telnet.

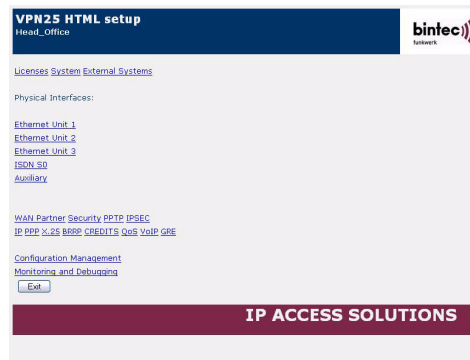
Proceed as follows to start the Wizard:

- Click **INITIAL CONFIGURATION** link.
- Enter the login data of your router, e.g. *admin / bintec*.
- Select the Wizard language, e.g. *English (English)*.



Proceed as follows to start the Setup Tool:

- Click the **ADVANCED CONFIGURATION** link.
- Enter the login data of your router, e.g. *admin / bintec*.



## 2.4 SSH Client

bintec routers with software 7.1.1 or later offer the possibility of setting up a secure connection for the configuration. All data, such as passwords or configuration parameters, were previously transferred in Telnet in clear text, but these are encrypted in SSH.

The SSH Daemon is not, however, available in the ex works state, as you must first create a host key. Go to the following menu for this:

**SECURITY → SSH DAEMON → CERTIFICATION MANAGEMENT**

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
[SECURITY] [SSHD] [KEYS]: SSHD Certification Management	Head_Office
<p>CAUTION: Key generation may take some minutes depending on your router's CPU speed</p> <p>Generate DSA Key            ok</p> <p>Generate RSA Key</p> <p>EXIT</p>	

The following fields are relevant:

Field	Meaning
Generate DSA Key	For generating a DSA key.
Generate RSA Key	For generating an RSA key.

Table 2-2: Relevant fields in **SECURITY → SSH DAEMON → CERTIFICATION MANAGEMENT**

Proceed as follows to generate keys:

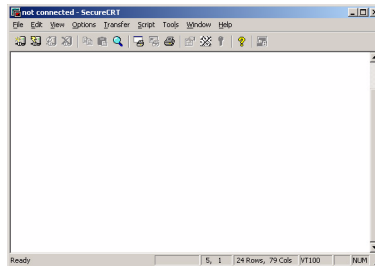
- Generate a DSA key by confirming the **GENERATE DSA KEY** field.



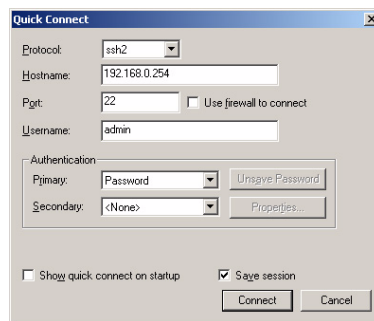
**Note**

The time taken to generate a key may vary according to device and CPU power.

After installation of an SSH client, e.g. here we have used SecureCRT, you must configure the software for the connection to the router. Start the SSH client:



You can create a connection under **FILE** → **QUICK CONNECT**.



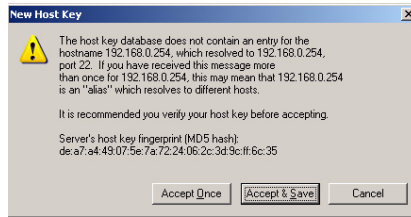
The following fields are relevant:

Field	Meaning
Protocol	Select the protocol for the connection.
Hostname	Enter the IP address of the router.
Port	The SSH service normally runs on port 22.
Username	Enter a login name.

Proceed as follows to generate keys:

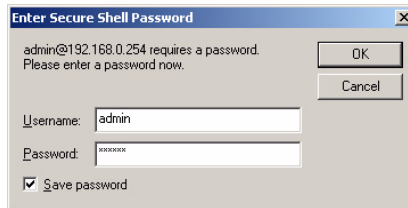
- Leave **PROTOCOL** set to *ssh2*.
- Enter the IP address under **HOSTNAME**, e.g. *192.168.0.254*
- The **PORT** remains set to 22.
- Enter *admin* for **USERNAME**.

You now receive the following message:



- Confirm the message with **Accept & Save**.

A window now appears for entering your admin password for login:



- Enter a **PASSWORD**, e.g. *bintec*.
- Click **OK**.

You have now configured and set up an encrypted connection to the router.

