

**bintec Workshop**  
**LAN-to-LAN Connection over PPTP**

**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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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).

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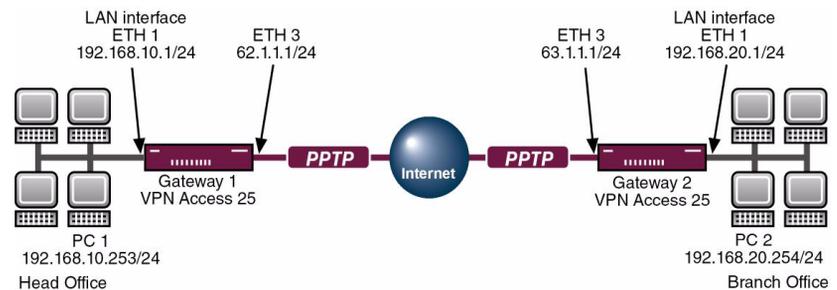
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# 1 Introduction

## 1.1 Scenario

The following chapters describe the configuration of a VPN tunnel between two Bintec **VPN Access 25** gateways over PPTP (Point-to-Point Tunneling Protocol) with 3DES encryption. The Setup Tool is used for the configuration.



## 1.2 Requirements

- Configure your PC (see User's Guide Part **Access and Configuration**).
- Connect your LANs to the Ethernet interfaces (ETH1) of the two gateways.
- Configure the Internet connection for each of the two gateways (see Bintec FAQ: **Internet leased line with fixed IP address**).



## 2 Configuration of Gateway 1

### 2.1 Configuring IP Address of LAN Interface (ETH1)

- Go to **ETHERNET UNIT 1**.

VPN Access 25 Setup Tool		Bintec Access Networks GmbH	
[SLOT 0 UNIT 1 ETH]: Configure Ethernet Interface		Gateway1	
IP Configuration	Manual		
local IP Number	192.168.10.1		
local Netmask	255.255.255.0		
Second Local IP Number			
Second Local Netmask			
Encapsulation	Ethernet II		
Mode	Auto		
MAC Address			
Bridging	disabled		
Advanced Settings >			
Virtual Interfaces >			
SAVE		CANCEL	
Use <Space> to select			

The following fields are relevant:

Field	Meaning
local IP Number	Defines the IP address at which the gateway can be reached in the local network.
local Netmask	Associated netmask.

Table 2-1: Relevant fields in **ETHERNET UNIT 1**

Proceed as follows to define the necessary settings:

- Enter your local IP address under **LOCAL IP NUMBER**, e.g. *192.168.10.1*.
- Enter your associated netmask under **LOCAL NETMASK**, e.g. *255.255.255.0*.

- Leave all the other settings as they are.
- Press **SAVE** to confirm your settings.

## 2.2 Configuring IP Address of VPN Interface (ETH3)

- Go to **ETHERNET UNIT 3**.

VPN Access 25 Setup Tool		Bintec Access Networks GmbH	
[SLOT 0 UNIT 3 ETH]: Configure Ethernet Interface		Gateway1	
IP Configuration	Manual		
local IP Number	62.1.1.1		
local Netmask	255.255.255.0		
Second Local IP Number			
Second Local Netmask			
Encapsulation	Ethernet II		
Mode	Auto		
MAC Address			
Bridging	disabled		
Advanced Settings >			
Virtual Interfaces >			
SAVE		CANCEL	

Use <Space> to select

The following fields are relevant:

Field	Meaning
local IP Number	Defines the IP address at which the gateway can be reached on the Internet.
local Netmask	Associated netmask.

Table 2-2: Relevant fields in **ETHERNET UNIT 3**

Proceed as follows to define the necessary settings:

- Enter your static public IP address under **LOCAL IP NUMBER**, e.g. 62.1.1.1.
- Enter your associated netmask under **LOCAL NETMASK**, e.g. 255.255.255.0.
- Leave all the other settings as they are.
- Press **SAVE** to confirm your settings.

## 2.3 Adding and Configuring a VPN Interface

### 2.3.1 Configuring VPN Partners

- Go to **PPTP** → **ADD**.

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
PPTP] [ADD]	Gateway1
Partner Name	PPTP to Gateway2
Encapsulation	PPP
Encryption	DES3 168
Compression	none
PPP >	
Advanced Settings >	
IP >	
SAVE	CANCEL
Use <Space> to select	

The following fields are relevant:

Field	Meaning
Partner Name	Designation of connection.
Encapsulation	Transmission protocol used.

Field	Meaning
Encryption	Type of encryption.

Table 2-3: Relevant fields in **PPTP** → **ADD**

Proceed as follows to define the necessary settings:

- Enter any desired name under **PARTNER NAME**, e.g. *PPTP to Gateway2*.
- Set **ENCAPSULATION** to *PPP*.
- Select a type of encryption under **ENCRYPTION**, e.g. *DES3 168*.
- Leave **COMPRESSION** set to *none*.
- Change to **PPP** >.

## 2.3.2 PPP Settings

- Go to **PPTP** → **INTERFACE** → **PPP**.

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
[PPTP] [EDIT] [PPP]: PPP Settings (vpn)	Gateway1
Authentication	CHAP + PAP
Partner PPP ID	Gateway2
Local PPP ID	Gateway1
PPP Password	secret
Keepalives	off
Link Quality Monitoring	off
OK	CANCEL
Use <Space> to select	

The following fields are relevant:

Field	Meaning
Authentication	Type of authentication must be the same as at the remote terminal.

Field	Meaning
Partner PPP ID	Name of remote terminal.
Local PPP ID	Own name.
PPP Password	Password for the VPN connection; must be the same as at the remote terminal.

Table 2-4: Relevant fields in **PPTP → INTERFACE → PPP**

Proceed as follows to define the necessary settings:

- Select the type of authentication under **AUTHENTICATION**, e.g. *CHAP + PAP*.
- Enter a name under **PARTNER PPP ID**, e.g. *Gateway2*.
- Enter a name under **LOCAL PPP ID**, e.g. *Gateway1*.
- Enter any desired password under **PPP PASSWORD**, e.g. *secret*.
- Leave all the other settings as they are.
- Press **OK** to confirm your settings.

### 2.3.3 Advanced Settings

- Go to **PPTP → INTERFACE → ADVANCED SETTINGS**.

VPN Access 25 Setup Tool		Bintec Access Networks GmbH	
[PPTP] [EDIT] [ADVANCED]: Advanced Settings (vpn)		Gateway1	
Callback	no		
Static Short Hold (sec)	120		
Delay after Connection Failure (sec)	10		
PPTP Mode	PPTP PNS		
Extended Interface Settings (optional) >			
Special Interface Types	none		
	OK		CANCEL
Use <Space> to select			

The following fields are relevant:

Field	Meaning
Static Short Hold	Time between the last data packet sent and clearing the connection.
Delay after Connection failure	The defined time for which the interface changes to the <i>blocked</i> state if the connection is not set up successfully.
PPTP Mode/Client	The configuration of this menu item is irrelevant for a Bintec-to-Bintec connection. The PPTP connection between the two Bintec gateways will be set up regardless of what you select as PPTP mode.

Table 2-5: Relevant fields in **PPTP → INTERFACE → ADVANCED SETTINGS**

Proceed as follows to define the necessary settings:

- Enter a time under **STATIC SHORT HOLD (SEC)**, e.g. 120.
- Enter a time under **DELAY AFTER CONNECTION FAILURE (SEC)**, e.g. 10.
- Set **PPTP MODE** to the **PPTP PNS** mode.
- Leave all the other settings as they are.
- Press **OK** to confirm your settings.

### 2.3.4 IP Settings

- Go to **PPTP → INTERFACE → IP → BASIC SETTINGS**.

VPN Access 25 Setup Tool		Bintec Access Networks GmbH	
[PPTP] [EDIT] [IP] [BASIC]: IP Settings (vpn)		Gateway1	
Dynamic PPTP VPN		no	
Identification by IP Address		no	
PPTP VPN Partner's IP Address		63.1.1.1	
via IP Interface		en0-3	
Use Gateway		no	
Local PPTP VPN IP Address		62.1.1.1	
Local IP Address			
IP Address Negotiation		static	
Default Route		no	
Remote IP Address		192.168.20.0	
Remote Netmask		255.255.255.0	
SAVE		CANCEL	
Use <Space> to select			

The following fields are relevant:

Field	Meaning
PPTP VPN Partner's IP Address	Static public IP address of remote terminal.
Local PPTP VPN IP Address	A static public IP address.
Remote IP Address	Network address of the LAN at the remote terminal.
Remote Netmask	Netmask of the LAN at the remote terminal.

Table 2-6: Relevant fields in **PPTP → INTERFACE → IP → BASIC SETTINGS**.

Proceed as follows to define the necessary settings:

- Enter the static public IP address of the remote terminal under **PPTP VPN PARTNER'S IP ADDRESS**, e.g. **63.1.1.2**.
- Enter the local static public IP address under **LOCAL PPTP VPN IP ADDRESS**, e.g. **62.1.1.1**.
- Set **DEFAULT ROUTE** to **no**.

- Enter the network address of the remote network under **REMOTE IP ADDRESS**, e.g. *192.168.20.0*.
- Enter the netmask of the remote network under **REMOTE NETMASK**, e.g. *255.255.255.0*.
- Leave all the other settings as they are.
- Press **SAVE** to confirm your settings.
- Select **EXIT**.
- Press **SAVE** to confirm your settings.

Return to the main menu and finally save your new configuration in the flash memory with **EXIT and Save as boot configuration and exit**.

## 3 Configuration of Gateway 2

### 3.1 Configuring IP Address of LAN Interface (ETH1)

- Go to **ETHERNET UNIT 1**.

VPN Access 25 Setup Tool		Bintec Access Networks GmbH	
[SLOT 0 UNIT 1 ETH]: Configure Ethernet Interface		Gateway2	
IP Configuration	Manual		
local IP Number	192.168.20.1		
local Netmask	255.255.255.0		
Second Local IP Number			
Second Local Netmask			
Encapsulation	Ethernet II		
Mode	Auto		
MAC Address			
Bridging	disabled		
Advanced Settings >			
Virtual Interfaces >			
SAVE		CANCEL	
Use <Space> to select			

The following fields are relevant:

Field	Meaning
local IP Number	Defines the IP address at which the gateway can be reached in the local network.
local Netmask	Associated netmask.

Table 3-1: Relevant fields in **ETHERNET UNIT 1**

Proceed as follows to define the necessary settings:

- Enter your local IP address under **LOCAL IP NUMBER**, e.g. *192.168.20.1*.
- Enter your associated netmask under **LOCAL NETMASK**, e.g. *255.255.255.0*.

- Leave all the other settings as they are.
- Press **SAVE** to confirm your settings.

## 3.2 Configuring IP Address of VPN Interface (ETH3)

- Go to **ETHERNET UNIT 3**.

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
[SLOT 0 UNIT 3 ETH]: Configure Ethernet Interface	Gateway2
<pre> IP Configuration                               Manual   local IP Number                               63.1.1.1   local Netmask                                 255.255.255.0   Second Local IP Number   Second Local Netmask   Encapsulation                                 Ethernet II   Mode   Auto MAC Address  Bridging                                       disabled Advanced Settings &gt; Virtual Interfaces &gt;                                  SAVE                                CANCEL </pre>	
Use <Space> to select	

The following fields are relevant:

Field	Meaning
local IP Number	Defines the IP address at which the gateway can be reached on the Internet.
local Netmask	Associated netmask.

Table 3-2: Relevant fields in **ETHERNET UNIT 3**

Proceed as follows to define the necessary settings:

- Enter your static public IP address under **LOCAL IP NUMBER**, e.g. 63.1.1.1.
- Enter your associated netmask under **LOCAL NETMASK**, e.g. 255.255.255.0.
- Leave all the other settings as they are.
- Press **SAVE** to confirm your settings.

## 3.3 Adding and Configuring a VPN Interface

### 3.3.1 Configuring VPN Partners

- Go to **PPTP** → **ADD**.

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
PPTP] [ADD]	Gateway2
Partner Name	PPTP to Gateway1
Encapsulation	PPP
Encryption	DES3 168
Compression	none
PPP >	
Advanced Settings >	
IP >	
SAVE	CANCEL
Use <Space> to select	

The following fields are relevant:

Field	Meaning
Partner Name	Designation of connection.
Encapsulation	Transmission protocol used.

Field	Meaning
Encryption	Type of encryption.

Table 3-3: Relevant fields in **PPTP** → **ADD**

Proceed as follows to define the necessary settings:

- Enter any desired name under **PARTNER NAME**, e.g. *PPTP to Gateway1*.
- Set **ENCAPSULATION** to *PPP*.
- Select a type of encryption under **ENCRYPTION**, e.g. *DES3 168*.
- Leave **COMPRESSION** set to *none*.
- Change to the **PPP** submenu.

### 3.3.2 PPP Settings

- Go to **PPTP** → **INTERFACE** → **PPP**.

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
[PPTP] [EDIT] [PPP]: PPP Settings (vpn)	Gateway2
Authentication	CHAP + PAP
Partner PPP ID	Gateway1
Local PPP ID	Gateway2
PPP Password	secret
Keepalives	off
Link Quality Monitoring	off
OK	CANCEL
Use <Space> to select	

The following fields are relevant:

Field	Meaning
Authentication	Type of authentication must be the same as at the remote terminal.

Field	Meaning
Partner PPP ID	Name of remote terminal.
Local PPP ID	Own name.
PPP Password	Password for the VPN connection; must be the same as at the remote terminal.

Table 3-4: Relevant fields in **PPTP → INTERFACE → PPP**

Proceed as follows to define the necessary settings:

- Select the type of authentication under **AUTHENTICATION**, e.g. *CHAP + PAP*.
- Enter a name under **PARTNER PPP ID**, e.g. *Gateway1*.
- Enter a name under local **PPP ID**, e.g. *Gateway2*.
- Enter any desired password under **PPP PASSWORD**, e.g. *secret*.
- Leave all the other settings as they are.
- Press **OK** to confirm your settings.

### 3.3.3 Advanced Settings

- Go to **PPTP → INTERFACE → ADVANCED SETTINGS**.

VPN Access 25 Setup Tool	Bintec Access Networks GmbH
[PPTP] [EDIT] [ADVANCED]: Advanced Settings (vpn)	Gateway2
Callback	no
Static Short Hold (sec)	120
Delay after Connection Failure (sec)	10
PPTP Mode	PPTP PNS
Extended Interface Settings (optional) >	
Special Interface Types	none
OK	CANCEL
Use <Space> to select	

The following fields are relevant:

Field	Meaning
Static Short Hold	Time between the last data packet sent and clearing the connection.
Delay after Connection failure	The defined time for which the interface changes to the <i>blocked</i> state if the connection is not set up successfully.
PPTP Mode/Client	The configuration of this menu item is irrelevant for a Bintec-to-Bintec connection. The PPTP connection between the two Bintec gateways will be set up regardless of what you select as PPTP mode.

Table 3-5: Relevant fields in **PPTP → INTERFACE → ADVANCED SETTINGS**

Proceed as follows to define the necessary settings:

- Enter a time under **STATIC SHORT HOLD (SEC)**, e.g. 120.
- Enter a time under **DELAY AFTER CONNECTION FAILURE (SEC)**, e.g. 10.
- Set **PPTP MODE** to the **PPTP PNS** mode.

- Leave all the other settings as they are.
- Press **OK** to confirm your settings.

### 3.3.4 IP Settings

- Go to **PPTP → INTERFACE → IP → BASIC SETTINGS**.

VPN Access 25 Setup Tool		Bintec Access Networks GmbH	
[PPTP] [EDIT] [IP] [BASIC]: IP Settings (vpn)		Gateway2	
Dynamic PPTP VPN		no	
Identification by IP Address		no	
PPTP VPN Partner's IP Address		62.1.1.1	
via IP Interface		en0-3	
Use Gateway		no	
Local PPTP VPN IP Address		63.1.1.1	
Local IP Address			
IP Address Negotiation		static	
Default Route		no	
Remote IP Address		192.168.10.0	
Remote Netmask		255.255.255.0	
SAVE		CANCEL	
Use <Space> to select			

The following fields are relevant:

Field	Meaning
PPTP VPN Partner's IP Address	Static public IP address of remote terminal.
Local PPTP VPN IP Address	Own static public IP address.
Remote IP Address	Network address of the LAN at the remote terminal.
Remote Netmask	Netmask of the LAN at the remote terminal.

Table 3-6: Relevant fields in **PPTP → INTERFACE → IP → BASIC SETTINGS**

Proceed as follows to define the necessary settings:

- Enter the static public IP address of the remote terminal under **PPTP VPN PARTNER'S IP ADDRESS**, e.g. 62.1.1.1.
- Enter the local static public IP address under **LOCAL PPTP VPN IP ADDRESS**, e.g. 63.1.1.1.
- Set **DEFAULT ROUTE** to *no*.
- Enter the network address of the remote network under **REMOTE IP ADDRESS**, e.g. 192.168.10.0.
- Enter the netmask of the remote network under **REMOTE NETMASK**, e.g. 255.255.255.0.
- Leave all the other settings as they are.
- Press **SAVE** to confirm your settings.
- Select **EXIT**.
- Press **SAVE** again.

Return to the main menu and finally save your new configuration in the flash memory with **EXIT** and **Save as boot configuration and exit**.

## 4 Result

You have configured a PPTP connection between two Bintec **VPN Access 25** gateways. Data are now transferred secure over a public network according to the type of encryption selected.

### 4.1 Checking the Connection

The connection is set up by the head office with a ping. You can trace the setup of the PPTP connection by entering the command `debug all` in the command line of gateway 1.

Enter the following in the command line of the PC at the head office:

```
C:\>ping 192.168.20.254
```

```
Running Ping for 192.168.20.254 with 32 bytes of data:
```

```
Answer from 192.168.20.254: Bytes=32 time=60ms TTL=62
```

```
Answer from 192.168.20.254: Bytes=32 time=57ms TTL=62
```

```
Answer from 192.168.20.254: Bytes=32 time=56ms TTL=62
```

```
Answer from 192.168.20.254: Bytes=32 time=55ms TTL=62
```

```
Ping statistics for 192.168.20.254:
```

```
    Packets: sent = 4, received = 4, lost = 0 (0% loss),  
    approx. time in milliseconds:
```

```
        minimum = 55ms, maximum = 60ms, mean = 57ms
```

Enter the following in the command line of gateway 1:

```
Gateway1:> debug all
```

```
00:48:00 INFO/INET: dialup if 10001 prot 1 192.168.10.253:2048->192.168.20.254:10332
00:52:05 DEBUG/PPP: PPTP to Gateway2: connect to <63.1.1.1>
00:52:05 DEBUG/PPP: PPTP to Gateway2 62.1.1.1(ID 0)/63.1.1.1(ID 7), 1/2/1: PPTP call identified
00:52:05 DEBUG/PPP: 62.1.1.1/63.1.1.1(vpn25 BinTec (VPN Acc version: 256/712), 1/3: PPTP control
connection established
00:52:05 DEBUG/PPP: PPTP to Gateway2 62.1.1.1(ID 0)/63.1.1.1(ID 7), 1/2/3: event: 0, state: 1 ->
3
00:52:05 DEBUG/PPP: PPTP to Gateway2 62.1.1.1(ID 7)/63.1.1.1(ID 7), 1/2/3: event: 4, state: 3 ->
3
00:52:05 DEBUG/PPP: PPTP to Gateway2 62.1.1.1(ID 7)/63.1.1.1(ID 7), 1/2/3: PPTP call established
00:52:05 DEBUG/PPP: PPTP to Gateway2 62.1.1.1(ID 7)/63.1.1.1x(ID 7), 1/2/5: event: 2, state: 3 -
> 5
00:52:05 DEBUG/PPP: Layer 1 protocol pptp
00:52:05 DEBUG/PPP: PPTP to Gateway2: set ifSpeed, number of active connections: 0/0/0
00:52:06 DEBUG/PPP: PPTP to Gateway2: triple DES encryption negotiated
00:52:06 DEBUG/PPP: PPTP to Gateway2: CCP RX uses 3DES-168 SW encryption
00:52:06 DEBUG/PPP: PPTP to Gateway2: CCP TX uses 3DES-168 SW encryption
00:52:06 DEBUG/PPP: PPTP to Gateway2: set ifSpeed, number of active connections: 1/1/1
00:52:06 DEBUG/PPP: PPTP to Gateway2: outgoing connection established
```

As the debug extract shows, a PPTP connection has been set up successfully.

## 4.2 Overview of Configuration Steps

Field	Menu	Description	Compulsory field
local IP Number	<b>ETHERNET UNIT 1</b>	e.g. 192.168.10.1	Yes
local Netmask	<b>ETHERNET UNIT 1</b>	e.g. 255.255.255.0	Yes
local IP Number	<b>ETHERNET UNIT 3</b>	e.g. 62.1.1.1	Yes
local Netmask	<b>ETHERNET UNIT 3</b>	e.g. 255.255.255.0	
Partner Name	<b>PPTP → ADD</b>	e.g. PPTP	Yes
Encapsulation	<b>PPTP → ADD</b>	PPP	Yes
Encryption	<b>PPTP → ADD</b>	e.g. DES3	Yes
Authentication	<b>PPTP → ADD → PPP</b>	e.g. CHAP + PAP	Yes
Partner PPP ID	<b>PPTP → ADD → PPP</b>	e.g. Gateway1	Yes
Local PPP ID	<b>PPTP → ADD → PPP</b>	e.g. Gateway2	Yes
PPP Password	<b>PPTP → ADD → PPP</b>	e.g. secret	Yes
Static Short Hold	<b>PPTP → ADD → ADVANCED SETTINGS</b>	e.g. 120 sec.	Yes
Delay after Connection Failure	<b>PPTP → ADD → ADVANCED SETTINGS</b>	e.g. 10 SEC.	Yes
PPTP Mode	<b>PPTP → ADD → ADVANCED SETTINGS</b>	PPTP PNS	Yes
PPTP VPN Partner's IP Address	<b>PPTP → ADD → IP SETTINGS</b>	e.g. 63.1.1.1	Yes
Local PPTP VPN IP Address	<b>PPTP → ADD → IP SETTINGS</b>	e.g. 62.1.1.1	Yes
Default Route	<b>PPTP → ADD → IP SETTINGS</b>	No	Yes
Remote IP Address	<b>PPTP → ADD → IP SETTINGS</b>	e.g. 192.168.10.0	Yes
Remote Netmask	<b>PPTP → ADD → IP SETTINGS</b>	e.g. 255.255.255.0	Yes

