

# GRE

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Bintec User's Guide - X2250  
Version 1.0

**Purpose** This document is part of the user's guide to the installation and configuration of Bintec gateways running software release 7.1.16 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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As multiprotocol gateways, Bintec gateways set up WAN connections in accordance with the system configuration. To prevent unintentional charges accumulating, the operation of the product should be carefully monitored. Funkwerk Enterprise Communications GmbH accepts no liability for loss of data, unintentional connection costs and damages resulting from unsupervised operation of the product.

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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).

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# 1 GRE Menu

The **GRE (Generic Routing Encapsulation)** menu is described below.

X2250 Setup Tool		Bintec Access Networks GmbH		
[GRE]: Configure GRE Tunnels		MyGateway		
Name	IP dst addr	IP src addr	Mtu	Key
GRE Tunnel	56.56.56.56	56.56.56.55	1450	not used
ADD	DELETE	EXIT		

The **GRE** menu shows a list of all configured GRE tunnels. (The display contains example values.)

The specification of the GRE protocol is available in two versions: GRE V.1 for use in PPTP connections (RFC 2637, configuration in the **PPTP** menu) and GRE V.0 (RFC 2784) for general **encapsulation** using GRE.

In the **GRE** menu you can configure a virtual interface for using GRE V.0. The data traffic routed over this interface is then encapsulated using GRE and sent to the specified recipient.

The configuration is made in **ADD/EDIT**.

X2250 Setup Tool		Bintec Access Networks GmbH	
[GRE] [ADD]: Configure GRE Tunnels		MyGateway	
Name	GRE Tunnel		
GRE Partner's IP Address	56.56.56.56		
GRE Local IP Address	56.56.56.55		
Partner's LAN IP Address	192.168.100.0		
Partner's LAN IP Mask	255.255.255.0		
Mtu	1450		
Key Used	no		
SAVE		CANCEL	

The menu consists of the following fields:

Field	Description
Name	Name of the virtual interface.
GRE Partner's IP Address	➤➤ <b>IP address</b> of the GRE partner.
GRE Local IP Address	Source IP address of the GRE packets to the GRE partner.  If no IP address (this corresponds to IP address 0.0.0.0) is given, the source IP address of the GRE packets is selected automatically from one of the addresses of the interface via which the GRE partner is reached.
Partner's LAN IP Address	Destination IP address of the host or network to which the packets are to be sent through the GRE tunnel.
Partner's LAN IP Mask	Netmask for <b>PARTNER'S LAN IP ADDRESS</b> .

Field	Description
Mtu	Maximum packet size (Maximum Transfer Unit, MTU) in bytes that is allowed for the GRE connection between the partners. Possible values are 1 to 8192. The default value is 1500.
Key Used	Activation of a key for the GRE connection, which makes it possible to distinguish between several parallel GRE connections between two GRE partners (see RFC 1701). Possible values: <ul style="list-style-type: none"> <li>■ no (default value): Key not activated.</li> <li>■ yes: Key activated.</li> </ul>
Value	Only for <b>KEY USED</b> = yes. Value of GRE connection key. Possible values are 0 to 2147483647.

Table 1-1: **GRE** menu fields







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