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enterprise communications

User's Guide

bintec R4100 / R4300

GRE

Purpose	This document is part of the user's guide to the installation and configuration of bintec gateways running software release 7.4.5 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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	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.

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1   GRE Menu

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

```
R4100 Setup Tool                 Funkwerk Enterprise Communications 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*.

```
R4100 Setup Tool              Funkwerk Enterprise Communications 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	➤➤ **IP address** 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 *PARTNER'S LAN IP ADDRESS*.

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: ■ *no* (default value): Key not activated. ■ *yes*: Key activated.
Value	Only for **KEY USED** = *yes*. Value of GRE connection key. Possible values are *0* to *2147483647*.

Table 1-1: *GRE* menu fields

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