

User's Guide
bintec R4100 / R4300
CREDITS

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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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.

**How to reach Funkwerk
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1 CREDITS Menu

The fields of the *CREDITS* menu are described below.

R4100 Setup Tool	Funkwerk Enterprise Communications GmbH
[CREDITS]: CREDITS Configuration	MyGateway
ISDN Credits xDSL Credits EXIT	

Charges The Credits Based Accounting System of the gateway enables you to control the costs billed for data connections. This means you can keep the effects of possible configuration errors within limits. For example, the system enables you to define the maximum number of connections allowed in a certain period of time. You can make settings for certain subsystems (**>>> PPP**, **>>> ISDN-Login**, **PPPoE**) to define the number of connections, the connection time and the charges billed. If the defined limit is exceeded, the gateway cannot set up any more connections within the defined period of time; existing connections are cleared. This means you can detect configuration errors in good time, before your telephone bill gets too big!

Syslog Messages Syslog messages are generated on reaching 90% or 100% of the limit and if a connection is prevented by the Credits Based Accounting System because the limit is exceeded.

The measured values are shown in the **MONITORING AND DEBUGGING → ISDN CREDITS** or **xDSL CREDITS** menu.

The whole account is available again if you switch the gateway off and then switch it on again (i.e. reboot).

Configuration is made in **CREDITS → ISDN CREDITS** or in **CREDITS → xDSL CREDITS → PPPoE CREDITS**.

2 ISDN Credits Submenu

The **ISDN CREDITS** submenu is described below.

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R4100 Setup Tool                               Funkwerk Enterprise Communications GmbH
[CREDITS][ISDN CREDITS]: Configure Credits     MyGateway

Select Subsystem

Subsystem      Surveillance
capi           off
ppp            off
isdnlogin      off

EXIT

```

The **CREDITS** → **ISDN CREDITS** menu lists the subsystems with the **SURVEILLANCE** status. To edit a subsystem select the respective subsystem with **Return**.

The following subsystems can be selected:

- **CAPI**
- **PPP**
- **ISDNLOGIN.**

2.1 Subsystem capi/ppp/isdnlogin Menu

The **CAPI/PPP/ISDNLOGIN** submenus are described below.

R4100 Setup Tool	Funkwerk Enterprise Communications GmbH
[CREDITS][ISDN CREDITS][EDIT]: Configure ppp Credits	MyGateway
Surveillance (Changing a value will reset all measured values!)	on
Measure Time (sec)	86400
Maximum Number of Incoming Connections	off
Maximum Number of Outgoing Connections	on
	100
Maximum Charge	off
Maximum Time for Incoming Connections (sec)	on
	28800
Maximum Time for Outgoing Connections (sec)	on
	28800
Maximum Number of Current Incoming Connections	off
Maximum Number of Current Outgoing Connections	off
SAVE	CANCEL

The configuration menus for the **CREDITS → ISDN CREDITS → CAPI resp. → PPP resp. → ISDNLOGIN** subsystems are used for activating and deactivating the Credits Based Accounting System and for defining the limits for number, duration and cost of the incoming and outgoing ISDN connections.

The **CAPI/PPP/ISDNLOGIN** menu consists of the following fields:

Field	Description
Surveillance	Defines whether the Credits Based Accounting System is to be activated for the respective subsystem. Possible values: <i>off</i> (default value), <i>on</i> . If the system is <i>on</i> you can define the parameters listed below.
Measure Time (sec)	Time in seconds during which the limits for number, duration and cost of incoming and outgoing connections apply. The measured values are reset to 0 when the time expires. The default value is <i>86400</i> .

Field	Description
Maximum Number of Incoming Connections	<p>Maximum number of all incoming connections allowed during MEASURE TIME (SEC).</p> <p>If you activate this setting with <i>on</i>, you can enter the desired value in the line below.</p> <p>The default value is <i>off</i>.</p>
Maximum Number of Outgoing Connections	<p>Maximum number of all outgoing connections allowed during MEASURE TIME (SEC).</p> <p>If you activate this setting with <i>on</i>, you can enter the desired value in the line below.</p> <p>The default value is <i>on</i> with <i>100</i>.</p>
Maximum Charge	<p>Maximum charges allowed (amount or units, depending on charging pulses transmitted) during MEASURE TIME (SEC).</p> <p>If you activate this setting with <i>on</i>, you can enter the desired value in the line below.</p> <p>The default value is <i>off</i>.</p>
Maximum Time for Incoming Connections (sec)	<p>Maximum time in seconds allowed for all incoming connections during MEASURE TIME (SEC).</p> <p>If you activate this setting with <i>on</i>, you can enter the desired value in the line below.</p> <p>The default value is <i>on</i> with <i>28800</i>.</p>
Maximum Time for Outgoing Connections (sec)	<p>Maximum time in seconds allowed for all outgoing connections during MEASURE TIME (SEC).</p> <p>If you activate this setting with <i>on</i>, you can enter the desired value in the line below.</p> <p>The default value is <i>on</i> with <i>28800</i>.</p>

Field	Description
Maximum Number of Current Incoming Connections	Maximum number of incoming connections allowed at any one time. If you activate this setting with <i>on</i> , you can enter the desired value in the line below. The default value is <i>off</i> .
Maximum Number of Current Outgoing Connections	Maximum number of outgoing connections allowed at any one time. If you activate this setting with <i>on</i> , you can enter the desired value in the line below. The default value is <i>off</i> .

Table 2-1: **CAP/PPP/ISDNLOGIN** menu fields

3 xDSL Credits Submenu

The *xDSL CREDITS* submenu is described below.

The **CREDITS** → *xDSL CREDITS* menu provides access to the **PPPoE CREDITS** submenu.

R4100 Setup Tool	Funkwerk Enterprise Communications GmbH
[CREDITS] [XDSL CREDITS] [EDIT]: Configure PPPoE Credits	MyGateway
Surveillance (Changing a value will reset all measured values!)	on
Measure Time (sec)	86400
Maximum Number of Outgoing Connections	on 1000
Maximum Time for Outgoing Connections (sec)	on 28800
SAVE	CANCEL

The **PPPoE CREDITS** menu consists of the following fields:

Field	Description
Surveillance	Defines whether the Credits Based Accounting System is to be activated for PPPoE connections. Possible values: <i>off</i> (default value), <i>on</i> . If the system is <i>on</i> , you can define the parameters listed below.
Measure Time (sec)	Time in seconds during which the limits for number and duration of outgoing connections apply. The measured values are reset to 0 when the time expires. The default value is <i>86400</i> .

Field	Description
Maximum Number of Outgoing Connections	Maximum number of all outgoing connections allowed during MEASURE TIME (SEC) . If you activate this setting with <i>on</i> , you can enter the desired value in the line below. The default value is <i>on</i> with <i>1000</i> .
Maximum Time for Outgoing Connections (sec)	Maximum time in seconds allowed for all outgoing connections during MEASURE TIME (SEC) . If you activate this setting with <i>on</i> , you can enter the desired value in the line below. The default value is <i>on</i> with <i>28800</i> .

Table 3-1: **PPPoE CREDITS** menu fields

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