

# BinTec ROUTERS IN THE UK

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## Setting up a BinTec Router in the UK

To get your BinTec router (be it a BIANCA/BRICK or V!CAS) up and running in the UK you should follow the UK-specific instructions given below.



Please note that we will use the term *BRICK* here to include all models of the BIANCA/BRICK family of routers, as well as V!CAS.

### Differences in the UK

#### Multiple Subscriber Numbering (MSN)

In the UK, unlike in other European countries, you only get *one* ISDN telephone number by default.

This makes accepting calls for different ISDN services a little more difficult—a solution is presented on the following pages.

An optional service called MSN (Multiple Subscriber Numbering) is available at a charge, and provides a block of *ten* consecutive numbers for incoming callers to use (e.g. 811910, 811911, ..., 811919).



If you want to use the CAPI services (e.g. Euro file transfer or Fax server) of your BRICK in addition to TCP/IP or PPP connections, you will have to order the MSN service from your telephone company.

### Calling Line Identification (CLIP)

The CLIP feature (calling line identification presentation) is also a purchasable option.

For security reasons PPP connections should therefore be configured to use either the PAP or the CHAP authentication protocols—or both—for incoming call identification; see section WAN Partner / PPP on pages 4 (Setup Tool) or 6 (SNMP client shell).

Also note that international calls from the Republic of Ireland do *not* contain a CLI information.



If you want the additional security of calling line identification for PPP connections, both you and your communication partner(s) have to order the CLIP feature.

### International ISDN Calls



The code for dialling international ISDN calls from the UK is *not* 00 (as with normal voice calls), but *000*. The British Telecom will sometimes route calls preceded by 00 over normal audio lines, even when they originate from the ISDN.

## Configuring your BRICK

The UK-specific settings for your BRICK are described on the following pages. The first section (starting below) deals with configuring your BRICK using the built-in Setup Tool, subsequently (from page 5) the same settings are explained using the BRICK's SNMP Client Shell.

### Setup Tool

Follow the instructions from the “Getting Started” manual up to “Incoming Call Answering”.

#### Routing

In this menu you will specify how your BRICK responds to incoming ISDN calls and which services it will support.

BIANCA/BRICK Setup Tool		BinTec Communications GmbH
[WAN][INCOMING]: Incoming Call Answering		mybrick
Item	Number	Mode
ADD	DELETE	EXIT

To enable routing (i.e. to allow IP connections via ISDN calls), use `[ADD]` to create a new entry and select **PPP (routing)** in the *Item* field (using the spacebar). Leave the *Number* field blank—this will accept all incoming calls.



Do *not* additionally make an *ISDN Login* entry. A way to enable logging in to your BRICK via ISDN can be found in section *Login via ISDN* on page 5.

Once your entries are correct select [SAVE] to return the [CM-1BRI, ISDN S0] menu; select [SAVE] once more to complete the configuration of the ISDN interface and return to the main menu.

WAN Partner /  
PPP

Select [WAN Partner]. This menu displays a list of known WAN (i.e. ISDN) partners and initially will be empty. To add a WAN partner select [ADD]. A menu similar to the following will be displayed. For our example setup, we have already filled in the appropriate fields.

BIANCA/BRICK Setup Tool	BinTec Communications GmbH
[WAN][ADD]: Configure WAN Partner	mybrick
Partner Name	<b>partnerbrick</b>
Enabled Protocols	<X> IP
Encapsulation	PPP
Identify by Calling Number	no
PPP Authentication Protocol	CHAP and PAP
Partner PPP ID	<b>partnerbrick</b>
Local PPP ID (sysName)	mybrick
PPP Password	<b>secret</b>
ISDN Numbers >	
IP >	
Advanced Settings >	
SAVE	CANCEL
Enter string, max length = 25 chars	

As you edit each field the remaining fields will change depending on which options you select.

In the *Partner Name* field, enter a name for this partner; normally the partner's hostname is used.

You can specify which protocols to route, the encapsulation to use (PPP), and the type of authentication to use for call setup (CHAP and PAP). In our example we are routing IP traffic, do *not* use the calling line identification feature (CLIP), and will use both PAP and CHAP authentication for security reasons.



If the remote host is a BRICK then the *Partner PPP ID* must be set to the remote BRICK's hostname (i.e. the contents of *sysName* up to the first dot (".").

Then enter the *PPP Password* the remote site must match when performing authentication.

From here you can continue your configuration as described in the *ISDN Numbers* section of your *Getting Started* manual.

### SNMP Client Shell

If you want to configure your BRICK from the SNMP Client Shell (see User's Guide), you can enter the following commands directly at the BRICK's command prompt after logging in to your BRICK as user *admin* with the password *bintec* (please refer to your *Getting Started* manual for different ways of accessing your BRICK).

#### Routing

To enable routing (via IP, IPX, X.25, or bridging) enter the following commands:

```
isdnDispatchTable
```

This will display the *isdnDispatchTable*, which should be empty if you access your BRICK for the first time. Here you can create an entry to accept incoming PPP calls. The *LocalNumber* field can remain empty—this will accept all PPP calls received by your BRICK.

```
StkNumber=0 Item=ppp
```

#### Login via ISDN

If you also want to be able to login to your BRICK via ISDN (e.g. from another BRICK) you have to enter the following command:

```
isdnLoginOnPPPSDispatch=allow
```

This allows incoming ISDN calls with an ISDN service indicator of "telephony" to be connected to the *isdn-*

login daemon even though the call has a matching service in the ***isdnDispatchTable*** (*isdnDspItem*).

To login to your BRICK from another BRICK use the command

```
isdnlogin <ISDN number of your BRICK> telephony
```

If you are already using a BinTec ISDN product for UNIX you can enter the line

```
*      bricktel          001001
```

to your */usr/bianca/config/services* file and then use the command

```
isilogin -s bricktel <ISDN number of your BRICK>
```

to login to your BRICK.

WAN Partner /  
PPP

Now you can setup a PPP interface for incoming calls. First create a new entry in the ***biboPPPTable***, select *both* CHAP and PAP as authentication protocols, and enter the name and password for your communications partner:

```
biboPPPTType=isdn_dialup ⇨1  
biboPPPAAuthentication=both ⇨  
biboPPPAAuthIdent=partnerbrick ⇨  
biboPPPAAuthSecret=secret
```

Then display the ***biboPPPTable*** and note down the *IfIndex* of this entry. You can now name the interface entry by assigning a new value to the *Descr* field with the appropriate *IfIndex* in the ***IfTable***.

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1. The arrows “⇨” at the end of these lines indicate that the command continues on the next line, and you have to type all the lines as one command (entering the “Return” key only after the last line).

*IfTable*

*Descr: <inx>=**partnerbrick***

Finally enter the ISDN number of your communication partner in the ***biboDialTable***:

*biboDialTable*

*IfIndex=**partnerbrick** ⇨*

*Number=**<ISDN number>** ⇨*

*Direction=**outgoing***

Now all incoming calls and outgoing calls to your partner are handled by the PPP interface.

For further instructions on configuring your BinTec router please refer to its User's Guide.

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