



# BinTec Routers in the UK



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# 1 Setting up a BinTec Router in the UK

To get your BinTec router (be it a BIANCA/BRICK or BinGO!) 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 BinTec routers.

## 1.1 Differences in the UK

### 1.1.1 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.

## 1.1.2 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, page 8](#) (Setup Tool) or [WAN Partner/PPP, page 11](#) (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.

## 1.1.3 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.

## 1.2 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 ([chapter 1.2.2, page 10](#)), subsequently the same settings are explained using the **BRICK**'s SNMP Client Shell ([chapter 1.2.2, page 10](#)).

### 1.2.1 Setup Tool

- Follow the instructions from the “Getting Started” or “User’s Guide” 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.

BRICK Setup Tool		BinTec Communications AG	
[WAN][Incoming]: Incoming Call Answering		MyBRICK	
Item	Number	Mode	Username
ADD		DELETE	EXIT
Press <Ctrl-n>, <Ctrl-p> to scroll, <Space> tag/untag DELETE, <Return> to edit			

- 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, page 10](#).

- Once your entries are correct select **SAVE** to return the previous menu.
- Select **EXIT** and **SAVE** 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.

BRICK Setup Tool	BinTec Communications AG
[WAN][ADD]: Configure WAN Partner	MyBRICK
Partner Name	partnerbrick
Encapsulation	PPP
Compression	none
Encryption	none
Calling Line Identification	no
WAN Numbers >	
PPP >	
Advanced Settings >	
IP >	
IPX	
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 the encapsulation to use (PPP).
- Select **PPP** to display the **PPP SETTINGS** menu.
- Select the type of authentication to use for call setup (CHAP and PAP).



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 sys-Name up to the first dot (".")).

- Then enter the **PPP Password** the remote site must match when performing authentication.
- Once your entries are correct select **OK** to return the previous menu.
- From here you can continue your configuration as described in the ISDN numbers section of your Getting Started manual or User's Guide.

## 1.2.2 SNMP Client Shell

If you want to configure your **BRICK** from the SMNP Client Shell, 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 or User's Guide 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 isdnlogin daemon even though the call has a matching service in the **isdnDispatchTable** (**isdnDspltem**).

- 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 following line to your `/usr/bianca/config/services` file:

```
* bricktel 001001
```

- Then use the following command to login to your **BRICK**.

```
isilogin -s bricktel <ISDN number of 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 (you have to type all four lines as one command entering **Return** only after the last line):

```
biboPPPType=isdn_dialup
biboPPPAuthentication=both
biboPPPAuthIdent=partnerbrick
biboPPPAuthSecret=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**.

```
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.

