Configuring ISDN Interfaces

NOTE

This is a basic configuration. You may need to configure additional parameters.

Add ISDN addresses. Includes address name (description of address), network dial address (telephone number), and network subdial address (telephone extension).

```
Config>add isdn-address address-name   network-dial-address
                        subdial-address
```

Display the `ISDN Config>` prompt.

```
Config>network isdn-interface#
```

Set address name of the local port. Must match one of the ISDN addresses.

```
ISDN Config>set local-address-name address-name
```

Specify switch-variant to which this ISDN interface is connected.

```
ISDN Config>set switch-variant net3 or ins64 or vn3
```

If you set the switch-variant to NET3 or VN3, set the directory number of the local port. Enter the network dial address (telephone number) of the ISDN address that you entered using **set local-address-name**.

```
ISDN Config>set dn0 network-dial-address
```

Set the signalling terminal endpoint identifier (TEI).

```
ISDN Config>set tei  auto or value
```

Configure optional parameters described on the inside of this card and then return to the `Config>` prompt.

```
ISDN Config>exit
```

Add and configure a dial circuit as described in the *Configuring Dial Circuits* quick reference card.

Restart the router as described on the back of this card to activate the new configuration.

digital™

Part Number: AV–QU5WA–TE
Configuring ISDN Interfaces Quick Reference Card
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ISDN Configuration Commands

This section summarizes the ISDN configuration commands. Enter these commands at the `ISDN config>` prompt. Enter **?** to list available commands or their options.

add

accounting-entry *address-name*

If your ISDN service provides accounting information, you can track telephone charges for specific network addresses. You can add up to eight entries. Must match ISDN address names.

enable

ps1

Enables Power Source 1 (PS1) detection. If your ISDN switch supplies PS1, enable PS1.

disable

ps1

Disables PS1 detection.

list

Displays the current ISDN configuration.

remove

accounting-entry

Removes accounting entries you set using **add accounting-entry**.

set

framesize *1024* or *2048* or *4096*

Size of the network layer portion of frames on the ISDN interface. Must be greater than or equal to the frame size of the data-link protocol (PSL or PPP) running on the link. The default is 2048.

local-address-name *address-name*

Network address name of the local ISDN interface. Must match one of the ISDN address names.

retries-call-address *value*

Maximum number of calls the router attempts to a non-responding address during the **timeout-call-address** period. The range is 0 to 10. The default is 2.

If you set the switch-variant to INS64, you cannot change **retries-call-address**. It is fixed at 2.

timeout-call-address *#-of-seconds*

When the router reaches **retries-call-address**, it does not make further calls to that address until this time has expired. The default is 180 seconds. The range is 0 to 65535 seconds. Zero causes the router to retry until the call is established.

If you set the switch-variant to INS64, you cannot change **timeout-call-address**. It is fixed at 180 seconds.

switch-variant *net3* or *ins64* or *vn3*

Model of the switch to which this ISDN interface is connected. The default is net3.

dn0 *network-dial-address*

Applies only if you set the switch-variant to NET3 or VN3. Enter the network dial address of the local port. Must match the network dial address (telephone number) of the ISDN address you entered using the **set local-address-name** command.

dn1

This implementation does not currently support **dn1**.

tei *auto* or *value*

Signalling terminal endpoint identifier (TEI) for the ISDN interface. Must match the signalling TEI of your ISDN switch. The range is 0 to 63 or Auto. The default is Auto.

exit

Returns to the `Config>` prompt.

ISDN Monitoring Commands

This section summarizes the ISDN monitoring commands. Enter these commands at the `ISDN>` prompt. Enter **?** to list available commands or their options.

accounting

Displays accrued telephone charges for each address that you added with the **add accounting entries** command.

calls

Lists the number of completed and attempted connections made for each dial circuit mapped to this interface since the last time statistics were reset on the router.

circuits

Shows the status of dial circuits.

parameters

Displays the current ISDN configuration.

statistics

Displays the current state of the link and the dial circuit and displays the firmware revision. Also shows statistics on what was transmitted and received on the interface.

exit

Returns to the GWCON (+) prompt.

Configuring the Router

Enter configuration commands at the `Config>` prompt. To display the `Config>` prompt enter **talk 6** at the `*` prompt.

```
*talk 6
Gateway user configuration
Config>
```

If the `Config>` prompt does not appear, press ↵ again.

To return to the `*` prompt, press Ctrl p.

Enter ISDN configuration commands at the `ISDN Config>` prompt. To display this prompt:

3. Enter **list devices** at the `Config>` prompt to see a list of interface numbers configured on the router.
4. Enter **network** followed by the number of the ISDN interface you want to configure. For example:

```
Config>network 2
ISDN user configuration
ISDN Config>
```

Restarting the Router

When you are done configuring the router, restart it to activate the new configuration. Enter **restart** at the `*` prompt and respond yes to the following prompt:

```
Are you sure you want to restart the gateway? (Yes or No): yes
```

When the new configuration is finished initializing, the terminal displays the * prompt.

Monitoring the Router

Enter monitoring commands at the GWCON prompt (+). To enter ISDN monitoring commands, display the `ISDN>` prompt as shown:

```
*talk 5

CGW Operator Console
+network interface#
ISDN>
```

To return to the * prompt, press Ctrl p.