

Informations about the ISDN device

Using the ISDN device

ISDN protocol options

ISDN global options

Useage hints for use with X.25 und X.31

Tested ISDN boards

## Informations about the ISDN device

The ISDN device lets ZOC access CAPI V2.0 DLLs.

Topics:

- o Using the ISDN device
- o ISDN protocol options
- o ISDN global options
- o How to use X.25 and X.31
- o Tested ISDN boards

## **Using the ISDN device**

The ISDN device can be selected in Options->Serial, if you installed your ISDN board's CAPI20.DLL (OS/2) or CAPI2032.DLL (Win-95/NT) in a directory that can be accessed by ZOC.

The options window will come up, if you press the Device-Options button. In the phone book, it is possible to select a device for each phone book entry (from the Device listbox). With the Setup button in the phone book you will set the device options only for this phone book entry. This way it is possible to have different phone book entries use the same device with different options. In REXX you can activate the ISDN device with 'CALL ZocSetDevice "ISDN"'.

## ISDN protocol options

The ISDN device has some options. The options dialog offers three buttons to set the most commonly used combinations of settings.

### **B1/B2/B3**

Here you can select the used layer-1, layer-2 and layer-3 protocol. However, not all manufacturers implement all protocols. The default for layer-1 is 64K-HDLC, for layer2 X.75 and for layer-3 TRANS.

### **CEPT telematic**

This option must be selected for using CEPT-based protocols (like the german T-Online) because of their special packet handling.

### **Framesize**

The frame size (block size) can be set from 128 to 2050 bytes. Frame sizes greater 2048 bytes (plus overhead) are not allowed in CAPI V2.0 and should not be used.

### **Window size**

The window size can be selected between two and seven and sets the number of ISDN messages that can be sent from the remote host without acknowledgement from ZOC.

### **Predefined**

These buttons set the above parameters to predefined configurations. 'Standard' will work in most cases (especially if you call hosts which use CFOS or ISDNCOM).

### **Global**

This button opens the ISDN global options window, where you can set general options for your ISDN board.

## **ISDN global options**

This window is opened with the Global-Options button. The parameters set here are used in all ISDN sessions (and not just in the entry from where you opened this window).

### **Listen MSN**

Here you can list all numbers (MSNs) for which ZOC will accept incoming calls. Multiple MSNs must be separated by "|" characters, like in "7406933|7406934". If no MSN is listed, ZOC will accept digital data calls for all MSNs.

### **Source MSN**

This field defines the phone number (MSN) that will be used as the caller id when you make a call. If you do not list a number here, the ISDN network will provide the main MSN of your ISDN socket.

### **Controller ID**

If you are using more than one ISDN board simultaneously, select the board ID here (default is 1).

### **Set system time to ISDN time**

Since ISDN transfers the exact system time when a call is made, you can select, to set your computer's time accordingly.

## **Useage hints for use with X.25 und X.31**

To use X.25/X.31 you need to set the ISDN options and to provide additional information with the phone number you want to call.

### **Connecting via X.25**

For X.25 connections, please use the following ISDN settings: B1=64k-HLDC, B2=X75.SLP, B3=IS2808, Blocksize=128, Window=2.

To make a call, you supply the target phone number and the X.25 host address separated by a bar character in the manual dial dialog or in the phone book, eg. 0711646464|4578545454. If you do not supply the X.25 number, ZOC will expect to be connected to a default host.

### **Connecting via X.31**

To make a call via X.31 (i.e. X.25 via ISDN D-Channel) use the following settings: B1=64k-HLDC, B2=LAPD\_X25, B3=IS2808, Blocksize=128, Window=2.

The destination to call consists a leading bar character, the X.25 host address and the TEI separated by a bar characters, eg. |02624578545454|1 If you do not supply a TEI ZOC will make the call with automatic TEI assignment.

## **Tested ISDN boards**

ISDN boards of the following manufacturers are tested with this ZOC.

- o AVM
- o BINTEC
- o CREATIX
- o DIEHL
- o ELSA
- o HST
- o HYSDN
- o ITK
- o NCP
- o STOLLMANN
- o TELES

