

MAYAH Communications

Application Note 2

ISDN Backup For Faulty X.21-V.35 Connections

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How to realise an ISDN Backup for a Faulty X.21/V.35 Connection

Prerequisites

- MAYAH codec with system software 1.1.0.44 or later
- PC with:
 - min. Pentium 166 MHz
 - RAM 32 MB
 - Operating system Windows '95, '98, ME, NT or 2000
 - free serial port (remote control by RS232) or Ethernet card (remote control by IP)
 - Zero modem cable (included in MAYAH codec) if RS232 control is used or all necessary LAN cabling between MAYAH codec and PC
- MAYAH codec remote control with version 1.1.0.24

Note:

You can download the current MAYAH codec system software and the latest remote software from the download section of the Mayah homepage at www.mayah.com.

Short Introduction to MAYAH codec Event Action Programming

Please consider that this is not a detailed description of how MAYAH codec event action programming works. It simply aims to give you an impression of its possibilities. Generally MAYAH codec event action programming is just intended to combine events like

- Alarm on or off
- Connect on or off
- Framed on or off
- Overload on or off
- TTL input high or low

with actions. An action can be defined as a set of MAYAH codec commands

Description of ISDN Backup for a Faulty X.21/V.35 Connection

If a X.21/V.35 connection loses framing, an ISDN connection should be established automatically for backup. When the X.21/V.35 dedicated line is back, it is then necessary to hang up the ISDN line to re-establish the X.21/V.35 connection.

Please note that it will not be automatically detected that the X.21/V.35 is back.
The parameters of the connections in the following example are:
X.21 dedicated line: MPEG2, 256 kbit/s, 48 kHz, stereo
ISDN MPEG2, 128 kbit/s, 48 kHz, joint stereo

How to input all the necessary Commands to the MAYAH codec

You can type in all the necessary commands with help of the MAYAH codec remote control software. Just skip to remote item <Expert/Direct Command>.

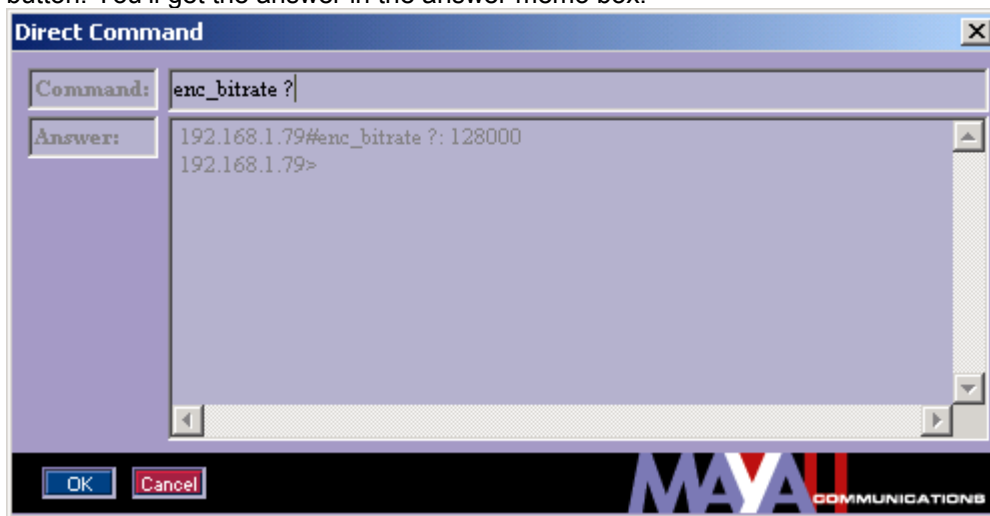
You may be asked for a Superuser Password . This Superuser Password is determined by the first use of MAYAH codec remote on your PC. If the super user gets lost you can recover it very easily.

It is saved in the registry at:

HKEY_CURRENT_USER\Software\Mayah Communications\MAYAH codec Remote\SuperUserPassword.

How to use the direct command dialog:

Just type in the MAYAH codec command in the command edit field and confirm by pressing the 'OK' button. You'll get the answer in the answer memo box.

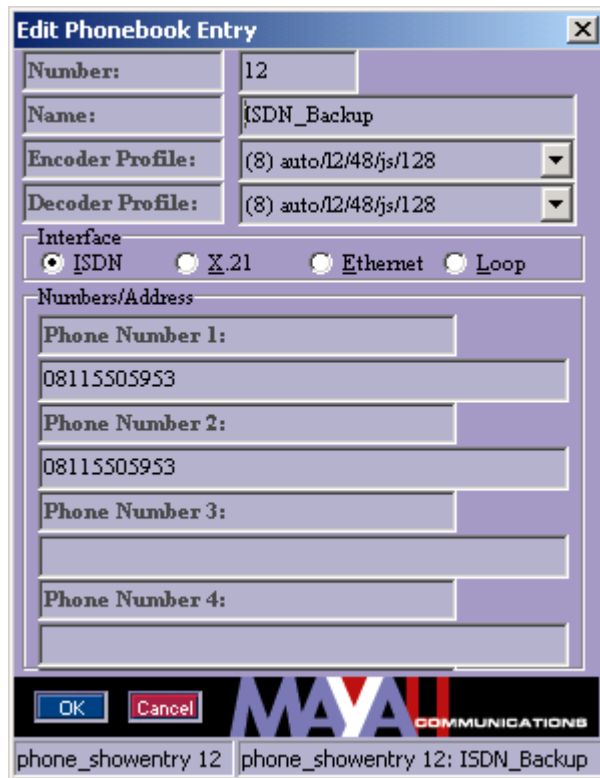


Necessary Commands

Create the following phonebook entry on the first MAYAH codec

To create a phonebook entry via remote control at the first MAYAH codec, first press the 'PHONEBOOK' button and then the 'NEW' button. After this enter the following phonebook entry:

```
Backup_ip  
<number of encoder profile>  
<number of decoder profile>  
isdn  
phone number 1  
phone number 2  
..  
for example:
```



Finally confirm the new phonebook entry by pressing the OK button.

Define the action 'isdnback' at first MAYAH codec

Direct command:

```
'action_create isdnback event_reset framed_off 1;com_disconnect 0;com_waitmsecs 3000;com_interface isdn;phone_execentry <number of above created phonebook entry>;event_set connect_off 1 normal true'
```

Define the action 'normal' at first MAYAH codec

Direct command:

```
'action_create normal event_reset connect_off 1;com_disconnect 0;com_waitmsecs 500;com_interface x.21;enc_slave local;enc_bitrate 256000;com_waitmsecs 500;com_connect 1;event_set framed_off 1 isdnback true'
```

Define the action 'isdnback' at second MAYAH codec

Direct command:

```
'action_create isdnback event_set framed_off 1 normal true;com_waitmsecs 4000;com_disconnect 1;com_waitsecs 1000; com_interface isdn'
```

Define the action 'normal' at second MAYAH codec

Direct command:

```
'action_create normal com_disconnect 0;com_waitmsecs 3000;com_interface x.21;enc_slave remote;enc_bitrate 256000;com_connect 1'
```

Event programming at first MAYAH codec

Direct command:

```
'event_set framed_off 1 isdnback true'
```

Event programming at second MAYAH codec

Direct command:

```
'event_set framed_off 1 normal true'
```

Save the events at first and second MAYAH codec

Direct command: 'event_save'