*************** C.R. BRI APPLICATION app-version 5.0.44 13-02-2014

SYSTEM PARAMETERS IN THE CALL RECORDER BRI

The System Parameters can be accessed with the keyboard as follows:

- 1) Press Settings then SYSTEM (or Recorder on desktop model).
- 2) Press the >>> key a few times, until "System Parameters".
- 3) Press softkey START.

Inside System Parameters the following functions are available:

- To jump to the next parameter without change, press NEXT.
- To enter a number, use the numeric keys, then press NEXT.
- To enter 'Yes' or 'No' press softkey YES or NO, then NEXT. To enter 'Off' press * (star), then NEXT.
- To stop, press softkey STOP, then select YES or NO to store.
- The >>> key acts the same as softkey NEXT.
- It is not possible to step backwards to the previous parameter.

(OFF/<max.8>)' [OFF] > 'Service Password _____

This password can be used to prevent the normal user from entering the installation menu. In that case, the installation must be done by a system or service manager.

If activated, it overwrites the user password. The user password is then only used for playback and for the disk menu.

A numeric string of maximal 8 numbers can be filled in. Setting the string to "OFF" (use * from the keypad) will disable the service password again.

(OFF/<max.2>)' [xx] > 'Call Recorder ID (Y/N)' [No] > 'Rename All Recordings _____

This ID is used by the PC archive software and is therefore very important. It may not be changed without consulting the system or archive manager! After entering a 2 digit number, the next question must be answered with Yes.

A card number can be entered here to personalize a Call Recorder. A group of cards can be selected by entering a 2nd number; all cards between (and equal to) these numbers are accepted. If the number is used, card-recordings are only made with a valid card. In combination with 'CryptoCard' set to 'On' (in the normal install menu), the Call Recorder can be closed for usage by other users.

See also 'No Card Disables Menu' below.

> 'Channels Available (0-8)' [4/8]

This parameter is for test purposes! It can only set the number of available lines/channels that is smaller or same than the actual recorder model (press left-most softkey). Limiting the available channels will also limit the maximum number of calls that can be recorded simultaneously.

> 'Change Max Channels (Y/N)' [Yes] -----

This paramater has effect on the maximum number of used channels. It changes the highest channel number that can be monitored and recorded. This depends on the recorder model and the available channels.

> 'Take Clock from PSTN (Y/N)' [Yes]

The internal clock (date & time) can be synchronized with the clock from the public network. Only the clock coming from the NT side (PSTN) is used and this is done once per day.

> 'Reversed Rx/Tx Operation (Y/N)' [No]

If the used cables have reversed Rx/Tx connections then this parameter can be set to solve it with software..

The D-channel Mode, the DTMF detection and B-channel Sound Control will all operate in reversed mode then.

For in-line mode also the cables on the splitter have to be switched. (???)

> 'Reversed D-channel Mode (Y/N)' [No]

The D-channel can operate in reversed mode (commands IN & OUT switched).

This parameter is not available if 'Reversed Rx/Tx Operation' is set.

> 'Reversed Bit-order (Y/N)' [No] ______

This can be set if the bytes in the B-channels have reversed bit-order.

> 'Audio Activated (Y/N)'[No]

If set to 'Yes', the D-channel protocol is not interpreted anymore, but instead the B-channel data is examined for audio signal or silence. In audio activated mode the In-Line mode is not available anymore.

> 'Audio Stopped (Y/N)' [No]

If set to 'Yes', the D-channel protocol is used to start recordings, but recordings are stopped only if no audio is seen anymore on the B-channel.

- (0-255)' [255]

These parameters are used during audio activated/stopped recording only.

> 'Stereo Recording (Y/N)'[No]

All recordings can be stored in stereo mode. Files are twice as big then. Stereo and compression both enabled does not work correctly at the moment (G.723 Stereo WAV files are not valid).

> 'Disable CODEC's (Y/N)' [No]

_____ This parameter is used for test purposes.

If the CODEC's are disabled, all recordings are stored in G.711 format.

> 'Detect DTMF with CODEC (Y/N)' [Yes]

_____ Normally the CODEC chips are used for DTMF detection.

This can also be done by the ISDN/HFC chip, but is less reliable.

> 'Notification Beep Interval (0-300/sec)' [0]

If set to non-zero then system message 47 is played at the set interval. This message is standard included and contains a short beep that can be heard at both sides. The beep can be changed by overwriting the file "MESS347.6" with ftp. It must be a small wave file of max 8 kB with the format G.711 A-Law, 8 kHz, Mono.

Default this file contains a beep of 1400 Hz with a length of 180 ms.

The notification beep works independant of the notification message, but is only heard if 'In-Line' is set to 'On'.

The value zero disables the beep again.

If no CODEC chips are fitted on the board or when the CODEC's are disabled, the notification beeps are NOT included in the recording (silence instead)!

> 'Disable Notification (Y/N)'[No]

The notification message function can be disabled completely.

> 'Disable ChipCard (Y/N)'[No]

The chipcard interface can be disabled completely.

> 'Disable Encryption (Y/N)'[No]-----

Encryption can be disabled here. The chipcard number is still stored as part of the recording file name in that case.

Also, the chipcard can still be used to protect the menu's.

> 'No Card Disables Menu's (Y/N)' [No]

All menu functions can be disabled if no card is inserted. By entering the chipcard numbers above, the machine can be closed for all other persons not owning these cards.

> 'Use Card with Fax Files (Y/N)' [No]

Recorded faxes (from fax numberlist) can also be stored encrypted. Default, fax files are not encrypted and stored in G.711 A-Law format.

'Use Compatible Card Mode (Y/N)' [Yes] > 'Use Compatible Card Mode

Compatible mode means that encryption is done in the same way as a single line Call Recorder or old ISDN-S0 recorder.

In non-compatible card mode the files are encrypted in the same way as a PRI recorder.

> 'Search Card Number only (Y/N)' (Y/N)' [No]

If set to 'Yes' and a CryptoCard is inserted, the Call Recorder will only search for recordings with a matching card number. If no card is inserted, only the no-card-recordings are shown in that case.

> 'Search Date thru Last (Y/N)'[No]

This parameter has effect on how the date is treated when searching for playback files. Default, the system searches for the entered date only. If set to Yes, the system searches for files from that date and onwards.

> 'Possibility to Erase (Y/N)' [Yes]

The possibility to erase the recorded files in the playback menu can be disabled or enabled.

Erasing a recording is done by overwriting it with zero-bytes and then the file is renamed. So, no disk space comes free.

> 'Save Call Copies to CD

If set to Yes the call will be copied to CD after a save call action. 'CD Copy' must be on 'Off' and '[**] Action' must be on 'Save call'.

> 'Dialing *99 Erases Call (Y/N)' [Yes]

When dialing '*99' and the extension phonenumber is known, then the last

call is erased. The feature '[**] Dialing' must be enabled. A notification beep is heared if any last call is found. Erasing a recording can not be restored!

> 'Use DTMF *0# for Action (Y/N)'[No]

The DTMF sequence *0# can be used for the '[**] Action'. This is only possible if CODEC chips are fitted on the board (normal).

(Y/N)' [No] > 'Use DTMF # for Action

DTMF # can be used in stead of DTMF * for the '[**] Action'.

> 'Single DTMF Action (Y/N)'[No]

> 'Tripple DTMF Action (Y/N)'[No]-----

Default DTMF * must be pressed twice for '[**] Action' during the call. This can be changed here to single or tripple detection (* or ***). It does not apply to '[**] Dialing'.

> 'Start Numberlist Allowed (Y/N)' [Yes] ______

Numbers inside a blacklist can start a recording with DTMF ** by default. This can be disabled here. In that case the numbers inside the blacklist are never recorded.

This parameter can also be used to start recordings from a whitelist only. It must be on No then AND the numberlist must be on White AND '[**] Action' must be set to 'Start only' or 'Start+Stop'. In that case, only the numbers inside the whitelist can start a recording.

> 'Numberfilter & Numberlist Numberfilter & Numberlist (Y/N)' [No]

If set to Yes then the numberfilter will use the numberlist.

If the list is set to White, only numbers in the list are filtered.

If set to Black or Off, then the numbers in the list are NOT filtered.

- > 'Disable Connected Number (Y/N)' [No] > 'Disable Remote Number (Y/N)' [Yes]
- _____

These parameters are used in combination with the black/white list. When disabled, the connected and/or remote number are not used. The local number is always used for descission. The local number is the extension number that the PBX outputs to the isdn line.

> 'Use Redirecting Number (Y/N)' [No] _____

If enabled (on Yes) then the number from info element 'Redirecting number' is used for the e-maillist. Else the normal 'Called party number' is taken.

> 'Switch Local<>Connected (Y/N)' [No] _____

The Local and Connected numbers can be switched in the file name. This is only done for Incoming calls.

It may be needed if a user-dependent ftp download is done.

> 'Strip 0's from Numberlist (Y/N)' [Yes] > 'Strip 0's from File Code (Y/N)' [Yes]

Leading 0's are stripped from numbers longer than 7 digits by default. Maintaining the numberlists (black/fax list) and searching for numbers later on in any archiving software is easier that way.

> 'Report Lost Calls (Y/N)' [Yes] _____

A 'Lost Call' is a call that was not recorded because the maximum recorder-channels were exceeded.

If this parameter is set to 'No' then lost calls are not considered an error anymore. No email is sent and no message is displayed. Still a beep is heared on the line and an empty recorder file is stored. This must be used with care!

'Store Lost Calls (Y/N)' [Yes] > 'Store Lost Calls

This parameter is only available in the Pre-Notification Message version of the application. If set to 'No' then no beep is heared on the line and also no empty recorder file is stored. This makes it possible to use the notification as a sort of welcome message (no recorder-channels needed). This must be used with care!

(Y/N)' [Yes] (Y/N)' [Yes] > 'Record Incoming Calls > 'Record Outgoing Calls (Y/N)'

Only incoming or only outgoing calls can be recorded.

> 'Record Notification (Y/N)' [Yes]

The notification message is default included in the recording. If set to No, the recording is started after the message has finished.

If no CODEC chips are fitted on the board or when the CODEC's are disabled, the notification message is NOT included in the recording (silence instead)!

> 'Record during Ringing (Y/N)'[No]_____

If set to Yes, the recording is started as soon as the phone starts ringing. Also on the remote side, for outgoing calls.

> 'Record Audio/Speech only (Y/N)' [Yes] > 'Record 64k Rate only (Y/N)' [Yes] > 'Record A-Law/u-Law only (Y/N)' [Yes]

Optionally, these parameters in the ISDN protocol are checked and starting a recording can depend on them.

(Y/N)' [No] > 'Audio Data is u-Law (Y/N)' [No] > 'Data Rate is 56 kbs

If both these parameters are set to 'Yes' then the US system is enabled. Default, the European ISDN-S0 system is expected. The Audio parameter determines what type of data is in the B-channels. On No means that G.711 A-Law data is expected.

On Yes means that G.711 u-Law data is expected.

(Y/N)' [Yes] (Y/N)' [No] > 'Start B-channels Early > 'Open ISDN Files Early

If only B-channels are started early, data is already stored in buffers until the call is connected and the file is opened (pre-recording). This prevents that the first words of a call are missed.

If both parameters are set to Yes, the complete call is recorded from the dialing or ringing process onwards, including not-connected calls.

(Y/N)' [No] > 'Store Ringing Time ______

The card number in the file name can be used to store the ringing time. This is the time between the phone is ringing and the call is taken. The value can be used in statistics software on the PC. For not-connected calls this time is always stored. If the crytocard is enabled, this parameter is ignored.

A special feature is enabled when "Store Ringing Time" and all "Store Notconnected" and "Store Non-speech Calls" are set to "Yes". In that case

Call Logging is done for all calls. Also when they are part of the black list or not recorded for other reasons. An empty file is stored on the disk that can be used by other software.

```
> 'Store Not-connected Inc. (Y/N)' [No]
> 'Store Not-connected Out. (Y/N)' [No]
> 'Store Non-speech Calls (Y/N)' [No]
> 'Store with Number only (Y/N)' [Yes]
```

If a speech call is not-connected, an empty file can be created to report this call in playback mode.

This is seperately installable for incoming and outgoing speech calls. Also if a call is a data connection, an empty file can be created. Additionally for these types of calls, the empty file is only created if there is a phonenumber available.

> 'Process Facility (Y/N)' [No]

The Facility message on the D-channel is sometimes used by the PBX to show a connect thru action at the internal side of the PBX. If the message includes a number, a new recording is started (except if it exists in the blacklist).

> 'Transmit Receiver Ready (Y/N)' [Yes]

In D-channel link/control mode, the recorder transmits low level RR frames to prevent frame retransmission if the system is busy for some time.

> 'E-mail Unknown to System (Y/N)' [No]

If the phonenumber (extension) is not found in the e-mail list, the recording is mailed to the system address from install LAN. This applies to e-mail generated with '** Action' or '** Dialing' or in combination with "E-mail All Calls" below.

> 'E-mail All Calls (Y/N)' [No]

The phonenumber (extension) is searched in the e-mail list and if found, a WAV file is sent as an attachement after the call has finished. If the number is not found in the e-mail list the recording is not mailed, except if "E-mail Unknown to System" is also enabled.

Timed starting and stopping of recordings can be installed here. The recording days will only work if the start-stop time is used! To record working hours only for example:

```
start1=09:00 , stop1=17:00 , start2=off , stop2=off , days=2345 Or start1=08:30 , stop1=12:00 , start2=13:00 , stop2=17:30 , days=23456
```

> 'Timeout for 'SETUP' (0-3600/sec)' [7]

After receiving the SETUP-command, a timeout starts in case there is no response from the device. After the timeout, the line is not busy anymore.

______ Using or ignoring these layer 3 frames can be selected here. Normally this is only used for test purposes. > 'Use 'DISC' from PSTN (Y/N)' [Yes] If a DISC layer 2 frame from the network is detected, then all recordings are stopped on that S0-bus and the two B-channels are free again. > 'Line Disconnect Time (0-250/100ms)' [5] This time is used as a debounce for detecting a line disconnect-error. (0-255)' [7] > 'State Machine Mask ._____ Only the NT/PSTN side is checked for the right layer 1 state (F7=connected). If the state changes when a line is busy, the disconnect-error is generated on the display (and an email is sent). Recording on that line is stopped. If set to 0, the state is not checked anymore and the line disconnect-error is disabled. Pressing \star or # on the keypad during normal operation will show the status of all 4 lines (*=PSTN and #=PBX). The 2nd/right number is the state. > 'State Machine Force (0-255)' [0] With this parameter the layer 1 state machine can be forced into a state: bits0-3 = 0-8 = NT/PSTN side = TE mode = F0-F8bits4-6 = 0-4 = TE/PBX side = NT mode = G0-G4For example: Connect-state for both sides (F7/G3) = 7+3x16 = 55. Setting bit7 (+128) disables pass though of the state from NT<>TE. (0-255)' [255] > 'Synchronization Source With this parameter the synchronization source for the internal isdn system can be selected: 255 or 0 = Automatically select a sync source. 9 = Select NT on S/T interface ISDN#1. = Select NT on S/T interface ISDN#2. 13 = Select NT on S/T interface ISDN#3.
15 = Select NT on S/T interface ISDN#4. > 'Transmitter Configuration (0-65535)' [0] _____ Bit11=1 (+2048)= use HDLC flags as the D-channel interframe fill. Bit12=1 (+4096)= use all 1's as the D-channel interframe fill. If bits11+12 are both 0 then the OS default is used (= 1's). > 'Transmitter Pulse on PWM0 (0-1024)' [0] _____ This will alter the ISDN transmit pulse shape level (tx line level). If left to 0 then the default from OS is used, which is 170. A higher value gives a higher level. > 'Receiver Sensitivity PWM1 (0-1024)' [0] _____ This will alter the sensitivity on the ISDN receiver input. If left to 0 then the default from OS is used. This function is NOT implemented in hardware at the moment!

> 'S/T Interface Control 0 (0-255)' [0]

The defaults are: TE=0x0F , NT=0x6C.

These will set the $A_ST_CLK_DLY$ register for TE and NT modes.

```
These will set the A_ST_CTRL0/1 registers.
 The defaults are: CTRL0=0x03 , CTRL1=0x09.
> 'Protocol Discriminator
                               (0-255)'[8]
> 'D-channel Poll Timer (0-320/0.1ms)' [0]
> 'D-channel Error Count (0-32767)' [4]
  _____
 These parameters must not be changed.
> 'B-channel Message Config
                              (0-255)' [3]
                              (0-255)' [83]
> 'B-channel Sound Config
  ·----
  'Message' is the Notification message.
  'Sound' is the beep after DTMF * action (stop/save recording).
 The following values are possible:
       3 = Message/Sound heared on both Line-IN and Line-OUT.
       19 = as 3 plus DTMF detection during message possible.
       67 = Message/Sound heared on Line-IN/PSTN only.
       83 = Message/Sound heared on Line-OUT/PBX only.
                     (0-1800/sec)' [0]
> 'Minimum Call Time
  -----
 If the recording is smaller then the installed time, it is deleted.
> 'Maximum Part Time
                          (1-7200/min)' [240]
> 'Maximum Parts per Call (0-1000)' [6]
  _____
 This parameter is important and will effect all recordings.
 After the Maximum Part Time a recording is closed and a new file is
 opened automatically. Long calls are divided into parts. The default part size is 2 hours.
 The Maximum Parts per Call is build in for savety reasons.
 Default, a call can be maximal 24 hours long. After that it is closed.
                     (0-32767/25ms)' [10]
> 'Pre-recording Time
 Before the recorded data is stored in a file, it is stored in a buffer.
 At the time the file is opened (start of call) some 'pre-recorded' data
 can be taken from that buffer.
 For G.723 modes (compression enabled) the value is per 25 ms.
 For G.711 modes (compression disabled) the value is per 30 ms.
> 'Record Service Time (0-255/10ms)' [0]
 _____
 This parameter must not be changed.
> 'Compression Quality
                               (0-15)'[4]
  _____
 Compression is default on G.723 High Rate. Other formats are:
    Quality 4 = G.723 Low = 800 bytes/sec (default)
    Quality 5 = G.723 \text{ High} = 662.5 \text{ bytes/sec}
    Quality 6 = G.711 A-Law = 8000 bytes/sec (same as 'Compression Off')
    Quality 7 = G.711 u-Law = 8000 bytes/sec
> 'Microphone Quality
                             (0-15)' [6]
  _____
 Microphone recordings are used for the notification message.
 At the moment, only G.711 A-Law is supported (quality 6 above).
                              (0-255)' [72]
> 'Microphone Gain
  Bits0-4 (0-31) are used for the gain and bit6 enables the 20dB boost.
```

> 'S/T Interface Control 1 (0-255)' [0]

> 'Recording Gain (0-255)' [8] _____ This gain is only used for the microphone and can bet set from 0 till 31. (0-255)' [24] > 'Speaker Volume > 'Headset Volume (0-255)' [24] · ------These volume settings are additional offsets, apart from the normal volume. The maximum value is 31. > 'DTMF Control Byte (0-255)'[2] _____ This will set the way the system behaves when detecting DTMF: bit0 =1= DTMF detection on data coming from PSTN =1= DTMF detection on data coming from PBX (default) bit2 =1= Disable DTMF detection/filtering (bits0+1 are set to 0!) bit3 =0= reserved (Stereo recording) bit4=0/1= ISDN data on PCM bus is A-Law/u-Law bit5 =1= Reverse PSTN/PBX when detecting DTMF with HFC chips bit6=0/1= Use Rx/Tx channels in HFC chips for DTMF detection bit7 =1= Disable DTMF detection with CODEC's (HFC chips are used instead) > 'DTMF Validation Time (0-32767)' [0] ______ Detecting DTMF is only used if '[**] Action' is enabled. The value 0 will take the default from OS, which is 550 = 55 ms. This value is per 0.1 ms. Bigger values will give a less sensitive DTMF detection. Smaller values, a more sensitive detection. (0-255)'[0] > 'DTMF Samples 1 > 'DTMF Samples 2 (0-255)'[0](0-65535)' [0] > 'DTMF Threshold 1 > 'DTMF Threshold 2 (0-65535) ' [0] > 'DTMF RAM Address 1 (0-65535) ' [0] > 'DTMF RAM Address 2 (0-65535)' [0] _____ These parameters can be used to change the DTMF detection with the ISDN/HFC chips. The DTMF * can be changed to DTMF #, for example. Also the detection can be fine-tuned; more or less sensitive. The value 0 means that the OS default is used. > 'Disable Key-Click (Y/N)'[No]_____ Beeps on the speaker when entering a number or name can be disabled. > 'Timeout for Code Keys (30-300/10ms)' [66] This timeout is used when entering a searchcode. It defines the maximum time between pressing a key on the keypad more than once, to enter a character. (1-31)'[0]> 'Serial Baud Rate _____ The baud rate is used to enter the machine locally with a terminal: (If 16 is added to the baud rate, the start-bits are set to 2.) baud rate = 0 = 57600 default baud rate = 2 = 300 baud rate = 3 = 600baud rate = 4 = 1200baud rate = 5 = 2400baud rate = 6 = 4800 baud rate = 8 = 9600

baud rate = 10 = 19200 baud rate = 11 = 38400

```
baud rate = 12 = 57600
baud rate = 13 = 115200
baud rate = 14 = 230400
```

In a 19inch rack model this baud rate is also used for communication with the serial keyboard (9600,19200,38400,57600 only)!

> 'Serial Keyboard ICG Trim (0-255)' [0] _____

This value can be used to fine-tune the internal clock of the serial keyboard. The value 0 will use the default from the keyboard OS.

> 'Display Light Control (0-32767/sec)' [10]

.____

The 16bit value is as follows:

bits0-7 = active-to-inactive delay in seconds

bit10=1 => bits8+9 = active value 0-3 for rack model

bit13=1 => bits11+12= inactive value 0-3 for rack model

Examples:

10 = 10 secs, active=medium, inactive=low

0 = light always low 255 = light always medium

9216 = light always off (rack only)

9482 = 10 secs, active=low , inactive=off (rack only) 9738 = 10 secs, active=medium, inactive=off ,, 12042 = 10 secs, active=high , inactive=low ,,

> 'Overheated Temperature (0-255)' [55]

The temperature is in degrees Celcius (default 55 C). Setting this parameter to 0 prevents that the system detects overheating. Disabling the temperatur-check is not recommended.

> 'PCM Input Gain (0-63)'[0](0-63)' [0] > 'PCM Output Gain

These are the input & output levels/gains for the codec chips. The Output Gain is also called 'Voice Volume' and only affects the level of the transmitted speech (=notification message). Values: 0=Use default from OS (=32), 1=-30, 32=0, 63=+31 dBm.

> 'Wait States for AC-chips (0-31)' [0] _____

The value 0 uses the OS/ROM default. Values per 10ns.

> 'Sound Chip Sleep Mode (Y/N)' [Yes]

The AC97 sound chip, used for monitoring and playback, is put into sleep mode if not used (low power mode).

> 'Display Sound Chip Error (Y/N)' [Yes] -----

If no sound chip was found, an error is displayed and beeps are heared. This can be disabled and recording can continue normally. Playback or channel-monitoring is not possible then.

(Y/N)' [No] > 'Disable I-cache
> 'Disable Watchdog (Y/N)' [No] (Y/N)' [No] _____

These parameters must not be changed! Used for debug purposes.

> 'Disable Error Log (Y/N)' [No]

Default, all errors and resets are stored in the file "ERROR.LOG".

> 'Disable STOP on Keyboard (Y/N)' [Yes]

The keyboard code to directly jump to system mode can be enabled here. Only used for debug purposes.

> 'Hard Disk Free Hours (0-30000)' [0]

If set then the directory starts rotating if the free space on disk becomes less then this value.

Rotating in this way is done at night, after the directory mirror has been made.

The value 0 will calculate a number that is depending on the maximum number of simultanously recorded channels for 12 hours per channel per day. During normally operation, rotating also happens if the free space on disk becomes less then the 'Maximum Part Time' (see above).

> 'Hard Disk Full Warning (0-1000/MB)' [0]

If set (non-zero), the system checks for the hard disk to become full. If found almost full, it is shown in the display and beeps are heared. 1 MB is about 20 minutes of speech storage in G.723 mode and 2 minutes in G.711 mode (uncompressed).

> 'Hard Disk Park Time (0-1275/sec)' [600]

After 10 minutes of no action, the disk stops spinning and low power mode is entered automatically. The value can only be set in steps of 5 seconds. The value 0 will disable this feature, but is not recommended.

> 'Hard Disk Start Early Hard Disk Start Early (Y/N)' [Yes]

Default, the hard disk starts spinning as soon as a call is detected. Otherwise, it is started as soon as a recording is opened.

> 'Enable Hard Disk Restore (Y/N)'[No]

> 'Enable Hard Disk Seek (Y/N)' [Yes] > 'Enable Hard Disk Errors (Y/N)' [No]

These parameters must not be changed.

> 'Predict Disk Failure (Y/N)' [Yes]

> 'Autosave Disk Failure (Y/N)' [No] _____

Failure prediction is a feature of the hard disk (S.M.A.R.T. standard). If enabled in the application (by default) and a problem is found, a warning message will be display on the LCD.

The disk's failure-status is checked after each recording and when entering the disk menu.

> 'Automatic Mirror Time (OFF/HH:MM>)' [03:00]

If the power is left on, the system automatically makes a copy (mirror)

of the directory on the hard disk at the installed time.

If problems are encountered later on, the latest mirror can be retreived.

At this time, the hard disk is also checked for other problems and repaired if possible. If the Auto Delete functions is used old files are deleted at this time, after saving the mirror.

Do not set this parameter to 'OFF'

A special case is defined when the last minute of the Mirror Time is set to a "3" (for example "03:03" or 06:43"):

After the mirror stuff is done, the system hard resets (as power off/on). Normally the system runs file BOOT again without notice. A reset will close and open the relays on the ISDN line during restart when In-Line mode is on.

***** End of System Parameters *****

______ NETWORK PARAMETERS IN THE CALL RECORDER BRI ______ The Network Parameters can be accessed with the keyboard as follows: 1) Press Settings then SYSTEM (or Recorder on desktop model). 2) Press the >>> key a few times, until "Network Parameters". 3) Press softkey START. Further control is the same as System Parameters (see above). Most of these parameters can also be changed in the normal Install-LAN menu. > 'Service with LAN (Y/N)' [No] _____ This will set 'Network active' in the normal LAN menu. (0-255/10ms)'[0]> 'Service Timer -----The value 0 is the same as 'Auto' in the normal LAN menu. Other values: Ultra: U1=33 , U2=97 , U3=49 (fastest) > 'Display 'Not Connected' (Y/N)' [No] If the network is enabled and the cable is removed an error can be displayed and beeps are heared. > 'Enable 100 Mbps (Y/N)' [Yes] _____ If disabled, the network interface is fixed to 10 Mb. In that case, also 'Autonegotiation' must be disabled. > 'Enable Full Duplex (Y/N)' [Yes] _____ If disabled, the network interface is fixed to half duplex operation. In that case, also 'Autonegotiation' must be disabled. > 'Enable Autonegotiation (Y/N)' [Yes] -----This enables or disables low level negotiation (10/100 Mb). > 'Enable Re-Init (Y/N)'[No]-----This enables automatic periodic initiation of the network interface. With a fixed IP address this is done each minute. With a DHCP server it is done each 5 minutes. Only done if there is no ftp connection at that time. > 'Enable TelNet (Y/N)' [No] This can be enabled for remote maintainance. After connecting with TelNet, the user must enter "ATMENU" at the remote site to get the system menu. > 'Enable FTP (Y/N)'[No](OFF/<max.31>)' [0000] (OFF/<max.31>)' [0000] > 'FTP User ID > 'FTP Password

(0-65535)' [0]

> 'FTP Server Port

```
See normal manual.
```

```
> 'FTP Failure Timeout (0-32767/sec)' [0]
  _____
 The default ftp overall timeout is 150 seconds.
 The default ftp no-data-transfer timeout is 40 seconds.
 Settings the failure timeout will set both these timeouts.
 Settings the failure timeout to an odd value (bit0=1) disables the
 no-data-transfer timeout, but not the overall timeout.
> 'FTP Erase Recordings
                             (Y/N)' [No]
  -----
 If set to 'Yes', the archived recordings can be erased using ftp.
> 'FTP List Open Files
                             (Y/N)' [No]
  _____
 If set to 'Yes', all open files (busy recordings) are included in the
 ftp list. The PC Access Software must be a compatible version!
(Y/N)' [No]
> 'E-mail Delete after Fail
E-mail stuff.
> 'NTP Server IP Address (OFF/#.#.#.#) [OFF]
'NTP Server Name (OFF/<max.47>)' [OFF]
'NTP Server Port (0-65535)' [123]
(minutes)' [60]
                     (minutes)' [60]
(Y/N)' [No]
> 'Disable Summer Time
  ._____
 Network Time Protocol stuff (automatic clock update).
> 'Use DHCP Server
                              (Y/N)' [Yes]
_____
 See normal manual.
                           (0-1518)' [0]
> 'IP Packet Size
 The default packet size is the maximum.
 A value of 1024 or 512 can be tried if there are problems.
> 'Enable Voice Monitor
                             (Y/N)'[No]
 'Voice Monitor Password (OFF/<max.31>)' [0000]
  ______
 See normal manual.
> 'Voice Monitor on Display (Y/N)' [Yes]
 _____
 A voice monitor connection is shown on the display as 'LAN-MON' in stead
 of the day-of-the-week.
> 'Voice Monitor Mode
                            (0-255)'[0]
```

_____ Mode 0 means that the LAN-monitor-data is taken directly from the channel buffers. This can be G.723 High or G.711 A-law. Modes 1 till 5 means that the G.711 channel data is compressed using the SCP chip and then send over the LAN. This is the old method as used in the ISDN-S0 recorder. Mode 1 is DigiTalk and mode 4 is G.723 High. If no CODEC's are fitted then mode 1 is the default. > 'Ethernet Address (OFF/hhhhhhhhhhh)' [...] This parameter must not be changed! > 'Enable LAN Chip Error (Y/N)' [Yes] If the LAN hardware fails an error occurs on the display and beeps are heared over the speaker. All recording continues normally in that case. ***** End of Network Parameters ***** ______ CD PARAMETERS IN THE CALL RECORDER BRI ______ The CD Parameters can be accessed with the keyboard as follows: 1) Press Settings then SYSTEM (or Recorder on desktop model). 2) Press the >>> key a few times, until "CD Parameters". 3) Press softkey START. Further control is the same as System Parameters (see above). > 'Disable Eject Button (Y/N)' [Yes] _____ The CD Eject Button can be disabled here. In that case, a CD can only be ejected from the disk menu. > 'Disable Audio CD's (Y/N)' [Yes] _____ Playing Audio CD's in the menu can be enabled/disabled here. > 'Audio Volume (0-14)'[9]_____ This is the default volume setting for playing back Audio CD's. > 'Copy Delay per Second _____ After a call/recording has finished, this delay is waited before the file is copied to CD. The actual delay can be 1 second less. Setting this value to 0 will disable automatic copy to CD. ' [60] > 'Disc Load Time per Second _____ After opening the tray, this time is waited for the drive to recognise a newly inserted disc. After that, the 'Please insert CD' message is displayed. > 'Disc Double Space per MB _____

This value is used when double copy is installed in the normal menu. It defines how much space must be used on a CD to store double copies.

A warning message is displayed if there are 120 minutes left free on CD. ' [1024] > 'Directory Size per Block '[0] > 'Directory Search flags > 'Read/Write Options '[0] ' [0] > 'Data Block Type ' [0] > 'Read Buffer Size _____ These Parameters must not be changed! > 'Read Speed '[0] > 'Write Speed ' R/W Speed: $4 \times = 706 (= default)$ $8 \times = 1411$ 16 x = 282224 x = 4234optimal = 65535'[0] > 'Write Busy Timeout > 'Error Recovery Parameters '[0] > 'Read Retry Count ' [0] ' [0] _____ These Parameters must not be changed! > 'Enable CD Drive Error ______ If no CD Drive is found, an error message is displayed. This can be disabled for debug purposes only. > 'Enable Drive Sleep Mode (Y/N)' [No] ______ If the CD Drive is not used, it can be put into sleep mode for lower power consumption. The eject button will not work either then.

***** End of CD Parameters *****