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CALL RECORDER SINGLES II (v4.2.14 26-08-2013)  
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## SYSTEM PARAMETERS IN THE CALL RECORDER SINGLES II

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

- 1) Press the Install/Setup key.
- 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.

-----

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

-----

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 active, 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.

> 'Call Recorder ID (OFF/<max.2>)' [xx]

-----

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!

> 'CryptoCard Number 1 (OFF/<max.6>)' [OFF]

> 'CryptoCard Number 2 (OFF/<max.6>)' [OFF]

-----

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 Phone/Menu' below.

> 'Day's to Keep Recordings (OFF/1-9999)' [OFF]

-----

If the number of day's is filled in then all older recordings are deleted.

This is done each night, after saving the directory mirror.

This feature is only available in models with a hard disk.

> 'Dial Prefix (OFF/<max.20>)' [OFF]

-----

A prefix can be added when dialing numbers from the phonebook.

The prefix is only added, if the number is longer than 4 digits.

```
> 'Enable Call Recorder Mode          (Y/N)' [Yes]
> 'Enable Extra Answer Mode          (Y/N)' [Yes]
```

-----  
These parameters can be used to switch between different models.  
The Call Recorder and FeaturePhone uses different installation menu's.  
It can only work if the necessary hardware and software is available.

```
> 'Answer Conference Mode            (Y/N)' [No]
```

-----  
If set to Yes it enables a special answering mode:  
After ringing, the call recorder will not answer as an answering machine,  
but in stead will answer the phone and starts recording a call.  
A hangup is done after detecting the busy tone or a silence period.  
This is used in combination with a call in conference mode.  
Also called 'third party listener' or 'call witness mode'.

```
> 'Disable Record-Stop Keys          (Y/N)' [No]
```

-----  
During recordings, the STOP-key, the >-key (pause) and the >>>-key can be  
disabled. This prevents a user from stopping or pausing a recording.

```
> 'History with Password              (Y/N)' [No]
> 'Disable History                   (Y/N)' [No]
```

-----  
The Call History ('R' key when idle) can be protected by a password or  
can be disabled completely.

```
> 'Tel. Book with Password            (Y/N)' [No]
> 'Disable Telephone Book            (Y/N)' [No]
```

-----  
The Telephone Book can be protected by a password or can be disabled  
completely.

```
> 'Disable Handset                   (Y/N)' [No]
> 'Disable Headset                   (Y/N)' [No]
> 'Disable SpeakerPhone              (Y/N)' [No]
```

-----  
The handset, headset or speakerphone functions can be disabled.  
If the handset is disabled, a alternative headset can be connected to the  
RJ10 handset input.  
If the speakerphone is disabled, the speaker-key is only used to turn the  
speaker on or off (mute function).

```
> 'Disable Speaker & Headset          (Y/N)' [No]
```

-----  
The speaker and the headset can be disabled during recordings.  
In that case, no other person can listen to the conversation.

```
> 'Headset Always ON                 (Y/N)' [No]
> 'Handset Always ON                 (Y/N)' [No]
```

-----  
Normally the headset is disabled when dialing with the handset or the  
speakerphone. Also, an incoming ring is not heard on the headset.  
If set to Yes, the headset-speaker is always enabled (not the microphone).  
It can be used to monitor the line in all cases.  
Turning the handset always on is only usefull if the handset is disabled.

```
> 'Handset Warning Timeout           (0-3600/sec)' [40]
```

This parameter is used to prevent that the line is taken forever if the handset is not put down correctly.  
After this timeout beeps are heard every 10 seconds and the display shows "Please lay down Handset".  
The value 0 will disable the warning.

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

-----  
The possibility to erase the recorded files in the playback menu can be disabled or enabled.  
Erasing recordings is done by overwriting them with zero-bytes.

> 'Flashing Recorder LED (Y/N)' [Yes]

-----  
The flashing speaker LED during recordings can be turned on or off here.

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

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

-----  
These 2 parameters control if all calls must be recorded or incoming only or outgoing only.

> 'Store Missed Calls (Y/N)' [No]

-----  
This can be used to register missed incoming calls.  
In that case, a dummy empty file is stored.  
The compression type in the file name is set to "0".  
The card number in the file name is used to store the ring-count.

> 'Store Messages as Read (Y/N)' [No]

-----  
If set to Yes, the answering machine messages are stored directly as read/old (no "New Messages" in display).

> 'Ask Store/Delete Messages (Y/N)' [No]

-----  
If set to Yes, a store/delete selection must be made after listening to new answering machine messages.  
The 'Ask Store/Delete' in the normal menu is only for recorded calls.

> 'Rx DTMF while Recording (Y/N)' [Yes]

-----  
If set to No any received DTMF during recording mode will be ignored.  
Only received DTMF during the dialing phase are used then for the telephonenumber/searchcode.  
This parameter also affects the reception of DTMF during the recording of an answering machine message. Default, DTMF '#' stops the recording.

> 'Start/Stop on DTMF \*\*/## (Y/N)' [No]

-----  
With this parameter a special feature can be enabled in combination with an external telephone:  
Pressing DTMF "\*\*\*" on the telephone starts the recording and pressing DTMF "##" stops the recording.

> 'Use Name for Code (Y/N)' [No]

-----  
If a telbook name is found with a phonenumber, it can be stored in the file name of that recording as the code (chars 21-36).

> 'Use Tel.number for Code (Y/N)' [Yes]

-----  
Normally, the telephone number is used for the searchcode as part of the file name. For outgoing calls this is the dialed number and for incoming calls it is the received Caller ID.

> '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.

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

-----  
If set to Yes and a CryptoCard is inserted, the Call Recorder will search for recordings matching that card number only. If no card is inserted, only the no-card-recordings can be accessed.

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

-----  
The SD-Card interface can be disabled completely here.

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

-----  
The ChipCard (CryptoCard) interface can be disabled completely here.

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

-----  
Encryption only can be disabled. The CryptoCard number is still stored as part of the file name in that case.

> 'No Card Disables Phone (Y/N)' [Yes]

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

-----  
These parameters are only active if 'CryptoCard' is set to 'On' in the normal installation menu.  
In that case AND when no CryptoCard is inserted: All telephone functions are default disabled. The menu's can still be accessed.  
By setting the Phone parameter to No, calls can still be made, but no recordings are stored.  
By setting the Menu parameter to Yes, all the menu's can not be accessed anymore without a CryptoCard. Care must be taken to enable this feature if you don't own a CryptoCard.

> 'Disable Ring in AM mode (Y/N)' [No]

-----  
This will disable the ringing sound if the Answering Machine is active. If the Answering Machine is Off, the normal Ring-parameters are used.

> 'Disable Dialtone detect (Y/N)' [No]

> 'Dialtone Detect Time (1-9000/10ms)' [80]

-----  
Before a telephonenumber is dialed automatically (from phonebook or repeat), a dialtone is detected first. This can be disabled here. Depending on the Detect Time, the dialtone is validated for some time. Default this is 800 ms. If dialtone detection is disabled, the time is used as a delay before dialing starts.

> 'Caller ID Detect Time (1-99/10ms)' [12]

-----  
This parameter can be used to solve some FSK Caller ID problems. It represents the carrier-validation-time before actual reception starts.

In England, the time must be set higher than 100 ms because of an attention signal in front of the fsk-carrier. In other countries the value can be set much lower (2 = 20 ms).

> 'Caller ID Input Volume (0-63)' [0]

-----  
When left to 0 then the Line Input Volume is taken (=31).  
Values are in steps of 0.75dB.

> 'Software FSK Decoding (0-32767)' [0]

-----  
The value 0 disables the software method and will always use the build-in FSK chip for Caller ID decoding..  
The value 1 means that 124 is taken internally, except if parameter 2 in the language display file is set to 4 or 13. This is the case in England and the Netherlands.  
Setting the value 124 manually will always use the software method.  
Other values to try: 121-125, 137-141, 153-157, 170-173.

> 'Use Caller ID name (Y/N)' [No]

-----  
If set to Yes, the name from the FSK Caller ID is used (displayed).  
This name is not always available and depends on the country or state.  
Normally, the phonenumber is used only.  
Also, if set to Yes, the DTMF 'C' is ignored during reception of the number with the DTMF-method. (DTMF 'C' is normally used to mark the end of the Caller ID number, but some PABX's use it as the start of an internal format when passing an extension number).

> 'Foot Swith LISTEN<>FF (Y/N)' [No]

-----  
The Listen and Fast Forward functions on the foot pedal can be switched.

> 'Detector Zero Level (0-255)' [0]

-----  
This parameter can be used to make the internal A/D Converter more or less sensitive. Value 1 is the most sensitive. Value 0 is the OS default (=2).  
The A/D Converter is used for voice and silence detection.

> 'Switch Trigger Level (1-255)' [80]

-----  
This level is used for the external start/stop switch and the foot switch.

> 'Handset Sensitivity (0-9999/ms)' [100]

-----  
This value is used as a debounce for the handset detector. A bigger value means less sensitive.

> 'Off-Hook Detector (0-3)' [3]

> 'Off-Hook Level (0/1)' [0]

> 'Off-Hook Sensitivity (0-9999/ms)' [20]

-----  
The off-hook detector has the following values:

0 = disabled

1 = series-detector (if available; not in FeaturePhone)

2 = parallel-detector

3 = series- & parallel-detectors

The level 0/1 stands for a threshold of 10/20 Volts.

The sensitivity is used as a debounce for the off-hook detector.

> 'Ring Detect Sensitivity (0-255)' [49]

-----  
Detection of incoming rings (calls) depends on this parameter.  
The value 0 disables ring detection completely.  
Other values are bit-orientated:

bits0+1 = 1/2 = more/less sensitive (value 3 is unused)  
bit2 = 1 = disable ring detect during playback  
bit3 = 1 = disable ring detect during playback of messages only  
bits4-7 = 0-15= extra detection length per 50 ms (debounce)

> 'Double Ring Detect Time (0-999/50ms)' [11]  
-----

A double ring (internal call) is detected within the first 550ms of the ringing signal. The value 0 will disable the double ring detection.

> 'Ring Idle Timeout (0-9999/10ms)' [850]  
-----

This is the time between the last ring and going idle again when an incoming call is not answered. The recorder stops ringing, shows "Missed Call" on the display and starts waiting for a new call again.

> 'Record-Key Control (0-255)' [2]  
-----

This parameter controls the red REC-key, used to start a microphone recording or to start recording a call manually.  
If set to 0, the user must always press REC+PLAY to start a recording.  
If set to 1, the user can only press REC to start a recording.  
If set to 2 (auto), it depends on the mode: For microphone recordings it is REC+PLAY, for manual call recording it is REC only.

> 'Maximum Call Time (1-5940/min)' [120]

> 'Maximum Mic. Time (1-5940/min)' [480]  
-----

This parameter is important and will affect all recordings.  
After the Maximum Call Time, the recording is closed and a new file is opened automatically. So, very long calls are split into parts.  
The default part size is 2 hours.  
Opening a new part can also be done manually by pressing the >>> key.  
No data is lost with this process and the user won't notice it, except that the lap-counter is resetted.  
For microphone recordings a separate time can be installed.

> 'Pre-recording Time (0-255/250ms)' [4]  
-----

If the Call Recorder works in a voice activated mode, the recording is always started as soon as idle mode is entered.  
The recorded voice data is put into a RAM-buffer until the actual recording starts. In this way the first words of a conversation are not lost.  
The buffer can hold about 45 seconds of data when operating in compressed mode (GSM6.10) and 5 seconds for the uncompressed G.711 qualities.  
Setting this parameter to 0 disables the pre-recording.

> 'Record Service Timeout (0-255/10ms)' [0]

> 'Playback Service Timeout (0-255/10ms)' [0]

> 'Record Buffer Size (256-16384)' [0]

> 'Playback Buffer Size (256-16384)' [0]  
-----

These parameters must not be changed!!!

> 'DTMF Output Level (0-255)' [253]  
-----

The volume of the DTMF tones can be changed here in steps of 0.5dB.

The value 255 is the loudest.

> 'Answer Machine Volume (0-255)' [255]

-----  
Volume for playback over the line during answering machine mode. It is used for the welcome message and the system messages.  
The beep after the welcome message is system message 342 and can be disabled by setting the 'Notif. Beeps Volume' below on 0.

> 'Answer Machine Quality (1-10)' [6]

> 'System Messages Quality (1-10)' [6]

-----  
The answering machine's welcome & system messages can be recorded with the following qualities/compressions:

3 = GSM6.10 = 1625 bytes/sec

6 = G.711 A-Law = 8000 bytes/sec

10 = PCM 16bit = 16000 bytes/sec

System messages have the following numbers: 0-9 and 188-259 and 301-342. These numbers are reserved for the remote menu and are recorded with the 'System Messages Quality' (see SYSTEM MESSAGES below in this document). All other numbers are recorded using the 'Answer Machine Quality'.

> 'Hangup on Continuous Tone (Y/N)' [Yes]

> 'Hangup Silence Period (0-3600/sec)' [0]

> 'Hangup Busy-count (0-255)' [6]

> 'Hangup Minimum Duration (5-500/10ms)' [12]

> 'Hangup Maximum Duration (5-500/10ms)' [62]

> 'Hangup Minimum Frequency (0-50/100Hz)' [3]

> 'Hangup Maximum Frequency (0-50/100Hz)' [7]

-----  
Detecting a hangup on an analog line is used during the answering machine function. Fine-tuning the detection can be done with these parameters.  
In England and in some PABX's a continuous tone is used after hangup.  
The silence period can be set if the value must differ from the one in the normal installation menu. Default this is 10 seconds.  
The durations are used for both signal- and pause-times of a the busy tone.

> 'Hangup Delay (0-999/10ms)' [75]

-----  
This is the delay in the answering machine after hanging up the line, before a next ring is detected.

> 'Notif. Message Control (0-255)' [0]

-----  
These parameters are used for the Notification Message (announcement). Enabling the notification message is done in the normal installation menu. Value 0 means 'automatic': this plays the message always on incoming calls and waits for the REC-key to be pressed on outgoing calls.  
If set to 1, the notification message is only used for incoming calls. Outgoing calls will work normal then; no message before recording.  
If set to 2, the notif.message is heard as soon as the handset is lifted.

> 'Notif. Message Volume (0-255)' [243]

> 'Notif. Beeps Volume (0-7)' [5]

-----  
The Message Volume can be set in steps of 0.5dB. The Beep Volume per 3dB. The Beep Volume on 0 disables the beeps before and after the message. Also, the beep in answer machine mode is disabled then.

```

> 'Smart Notification                (Y/N)' [Yes]
> 'Notif. Tone Silence              (0-300/10ms)' [77]
> 'Notif. Tone Interval             (0-30000/10ms)' [501]
> 'Notif. Tone Duration             (0-300/10ms)' [8]
> 'Notif. Tone Frequency            (0-5000/Hz)' [1200]
> 'Notif. Tone Volume               (0-7)' [5]
> 'Notif. Tone Delay                (0-300/10ms)' [12]

```

-----

These parameters are used for the Notification Tone.  
 Enabling the notification tone is done in the normal installation menu.  
 Smart Notification means that the tone is only generated when no speech  
 is detected (during a silence period of the conversation).  
 The Interval is used as the minimum time between 2 beeps/tones.  
 The Duration is the length of the beep, the frequency is the pitch.  
 The Volume is set in steps of 3dB.  
 The Delay is used as a debounce value for the level detector. This prevents  
 that a signal is seen directly after the beep in voice detection mode.  
 The Tone Volume on 0 produces alternative beeps in all sniff modes. This is  
 standard not available in hardware.

```

> 'Operating Beeps Volume           (0-6)' [2]
> 'Alarm Beeps Volume              (0-7)' [5]
> 'Overall Volume for Beeps        (0-7)' [7]

```

-----

Controls the menu- and warning-beeps in 3dB steps.

```

> 'Line Input Gain                  (0-3)' [0]

```

-----

This gain works after the Auto Gain Control and boosts the volume of all  
 recordings from the analog line (phone or sniff mode). The values are:  
 0=0dB , 1=+13dB , 2=+20dB , 3=+29dB

```

> 'Line Input Volume                (0-63)' [31]

```

-----

This volume also affect recordings from the analog line, but it not used  
 when Auto Gain Control is active. Values are in steps of 0.75dB.

```

> 'Line Output Volume              (0-1)' [0]

```

-----

This volume affects all injected sound to the line (DTMF, beeps, messages).  
 When set to 1 the audio is +6dB louder.

```

> 'Line to Handset Volume          (0-7)' [7]

```

-----

The audio coming directly from the analog line is heard on the speaker of  
 the handset or headset. The volume can be decreased here in steps of 3dB.  
 Only affective when the recorder is used as a normal telephone.

```

> 'Mic. to Output Volume           (0-7)' [7]

```

-----

Handset or Headset Microphone to line output volume per 3dB.

```

> 'Handset Mic. Volume             (0-63)' [31]

```

-----

Handset Microphone input volume for recordings per 0.75dB.  
 The Microphone Gain can be set in the recorder settings menu.  
 Not used when Auto Gain Control is active.

```

> 'Headset Mic. Volume             (0-63)' [47]

```

-----

Headset or External mode Microphone input volume per 0.75dB.



The Microphone Gain can be set in the recorder settings menu.  
Not used when Auto Gain Control is active.

> 'Handset mode Volume A (0-63)' [31]  
> 'Handset mode Volume B (0-63)' [31]

-----  
Handset recording mode input volumes per 0.75dB.  
These volumes are not used when the Auto Gain Control is active!

> 'ADC/Recording Volume (0-255)' [195]

-----  
Extra volume setting per 0.5dB steps before the digital recording is stored.  
This volume is after the line input or microphone volume and after the input  
or microphone gain.

> 'DAC/Playback Volume (0-255)' [255]

-----  
Extra playback volume per 0.5dB steps. The default settings is the loudest.  
DTMF tones and the notification message have their own volume setting.

> 'Enable PCM mode (Y/N)' [No]

-----  
The uncompressed G.711 mode is still a little bit compressed, producing  
8bits per sample (8000 samples per second = 8000 bytes per second).  
By setting this parameter to yes, the uncompressed mode becomes raw PCM  
data which is 16bits per sample.

> 'Enable Stereo mode (Y/N)' [No]

-----  
Stereo mode can only be used together with the uncompressed G.711 mode.  
It will produce a stereo WAV file. Local and remote signals are better  
seperated then, specially in handset recording mode.

> 'Playback through Line (Y/N)' [Yes]

-----  
If set to No, playback is always done over the internal speaker.  
It only affects playback in not-idle mode; press STOP first when recording;  
'Call is NOT Recording' on display, then enter playback menu/mode.

> 'Take over Line for Play (Y/N)' [No]

-----  
Default the Notification Message is injected into the analog line in phone  
mode. Taking over an analog phone sometimes disconnects the line, because  
the PBX sees a hook-flash.

> 'Mix Telephone External (Y/N)' [Yes]

-----  
Mixing the local and remote signals in normal telephone mode can be done  
in two ways; external by hardware or internal by software.  
Selecting internal gives the possibility to record the local and remote  
signals seperately in a stereo WAV file (also set Stereo mode above).

> 'AGC for Call Recordings (Y/N)' [Yes]  
> 'AGC for Mic. Recordings (Y/N)' [Yes]  
> 'AGC in Telephone Mode (Y/N)' [Yes]

-----  
These parameters enable or disable the Automatic Gain Control in different  
modes of operation.  
The AGC parameter in the normal installation menu controls all 3 settings.

> 'AGC for Caller ID (Y/N)' [No]

-----  
Used during the reception of Caller ID only.

> 'AGC External (Y/N)' [No]  
> 'AGC Internal (Y/N)' [Yes]

-----  
An external AGC chip (if fitted) can be selected here for line modes only.  
Otherwise AGC is done internally in the codec chip.

> 'AGC Voice Start (Y/N)' [Yes]

-----  
Auto Gain Control can be disabled during the time the recorder is looking  
for the start-signal in voice activated modes. It can reduces accidental  
starting in situations were a lot of noise exists.

> 'AGC Target Level (0-16)' [16]

-----  
The value 16 uses the default value from the OS (which is 11).  
Values are in steps of 1.5dB: 0=-22.5dB ... 11=-3.0dB ... 14+15=-1.5dB

> 'Noise Gate Threshold (0-32)' [32]

-----  
This parameter is only used when AGC is active and sets the noise level  
that must be ignored by the AGC. The value 32 disables the function.  
Values are in steps of 1.5dB: 0=-76.5dBfs ... 31=-30.0dBfs

> 'High Pass Filter (Y/N)' [No]

-----  
The High Pass Filter for the A/D Converters can be enabled here.

> 'Disable Key Beeps (Y/N)' [No]

-----  
Sound on the speaker can be disabled when editing the telephone book.

> 'Timeout for Code Keys (30-300/10ms)' [75]

-----  
This timeout is used when entering the searchcode or a name for the  
phonebook. It defines the maximum time between pressing a key on the  
keypad, more than once, to enter a character.

> 'Serial Baud Rate (1-31)' [12]

-----  
The baud rate is used by an external PC to enter the call recorder locally.  
If 16 is added to the baud rate, the start-bits are set to 2.

baud rate = 1 = 57600  
baud rate = 2 = 300  
baud rate = 3 = 600  
baud rate = 4 = 1200  
baud rate = 5 = 2400  
baud rate = 6 = 4800  
baud rate = 7 = 57600  
baud rate = 8 = 9600  
baud rate = 9 = 57600  
baud rate = 10 = 19200  
baud rate = 11 = 38400  
baud rate = 12 = 57600  
baud rate = 13 = 115200  
baud rate = 14 = 230400

> '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 , ,

> 'Temperatur Warning (Y/N)' [Yes]

-----  
Setting this parameter to No prevents that the system detects overheating.  
This is not recommended of course and is only used in test cases.

> 'Enable Error on Display (Y/N)' [No]

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

-----  
These functions are used for debugging purposes; do not change them.

> 'SD-Card Date Directories (Y/N)' [Yes]

-----  
If set to Yes then recordings are stored in directory \RECORDER\YYMMDD.

If set to No then all recordings are stored in one directory \RECORDER.

> 'SD-Card Day Directories (Y/N)' [No]

-----  
Alternatively recordings can be stored on the SD-card in directories that  
have the day of the month in the dir-name; \RECORDER\1 till \RECORDER\31.

> '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 simultaneously 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).

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

-----  
If set (non-zero), the system checks for the disk to become full.

If found almost full, it is shown in the display and beeps are heard.

1 MB is about 10 minutes of speech storage in GSM mode and 2 minutes  
in G.711 mode (uncompressed).

> '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.

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

-----  
Default, the disk starts spinning as soon as a call is detected.

Otherwise, it is started as soon as a recording is opened.

```
> 'Enable Disk Restore          (Y/N)' [No]
> 'Enable Disk Seek             (Y/N)' [Yes]
> 'Enable 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 displayed and beeps are heard.  
The disk's failure-status is checked after each recording or playback and  
when entering the disk menu.

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

-----  
This parameter is only available in the hard disk version.  
If the power is left on, the system automatically makes a copy (mirror)  
of the directory on the disk at the installed time.  
If problems are encountered later on, the latest mirror can be retrieved  
in the Mirror menu. Care must be taken, because new files can get lost!

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

=====

## NETWORK PARAMETERS IN THE CALL RECORDER SINGLES II

=====

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

- 1) Press the Install-Recorder key.
- 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.

```
> 'Service Timer               (0-255/10ms)' [0]
```

-----  
The value 0 is the same as 'Auto' in the normal LAN menu. Other values:

Slow: S1=1 , S2=2 , S3=3 , S4=4 , S5=5

Fast: F1=65 , F2=129 , F3=193

Ultra: U1=42 , U2=33 , U3=63

```
> 'Display 'Not Connected'     (Y/N)' [No]
```

-----  
If the network is enabled and the cable is removed an error can be  
displayed and beeps are heard.

```
> '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]  
> 'FTP User ID (OFF/<max.30>)' [0000]  
> 'FTP Password (OFF/<max.30>)' [0000]  
> 'FTP Server Port (0-65535)' [0]

-----  
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 recordings can be erase using ftp ("Z\*" files).

> 'E-mail Destination (OFF/<max.63>)' []  
> 'E-mail Source/Reply (OFF/<max.63>)' []  
> 'E-mail Server Address (OFF/#.###)' [OFF]  
> 'E-mail Server Name (OFF/<max.47>)' [OFF]  
> 'E-mail Server Port (0-65535)' [0]  
> 'E-mail Send Tries (0-9)' [3]  
> 'E-mail Delete after Fail (Y/N)' [No]  
> 'Use SMTP Login (Y/N)' [No]  
> 'SMTP User ID (OFF/<max.47>)' []  
> 'SMTP Password (OFF/<max.47>)' []  
> 'Domain Name (OFF/<max.47>)' [...]  
> 'DNS Server Address (OFF/#.###)' [OFF]

-----  
E-mail stuff.

> 'NTP Server IP Address (OFF/#.###)' [OFF]  
> 'NTP Server Name (OFF/<max.47>)' [OFF]

```

> 'NTP Server Port          (0-65535)' [123]
> 'GMT Correction          (minutes)' [60]
> 'Disable Summer Time     (Y/N)' [No]

```

-----  
Network Time Protocol stuff (automatic clock update).

```

> 'Use DHCP Server          (Y/N)' [Yes]
> 'IP Source Address        (OFF/#.###)' [OFF]
> 'IP Subnet Mask           (OFF/#.###)' [OFF]
> 'IP Gateway Address       (OFF/#.###)' [OFF]
> 'IP Name                  (OFF/<max.60>)' [...]

```

-----  
See normal manual.

```

> 'IP Packet Size          (0-1518)' [0]

```

-----  
The default packet size is the maximum.

```

> 'Enable Voice Monitor     (Y/N)' [No]
> 'Voice Monitor Password   (OFF/<max.30>)' [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.

```

> 'Ethernet Address        (OFF/hhhhhhhhhhhhh)' [...]

```

-----  
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 heard over the speaker. All recording continues normally in that case.

\*\*\*\*\* End of Network Parameters \*\*\*\*\*

# ===== SYSTEM MESSAGES IN THE CALL RECORDER SINGLES II =====

System messages are voice files, stored in the Call Recorder. They are only used in the Answering Machine function. Most of them are used for remote control by the user (listen to new messages remoteley etc.). Default, the system messages are stored in the Call Recorder and differ per country. They can be changed by the user itself with the headset. To select a system message, press Anwering-Machine then WELCOME and then SYSTEM. The application will then ask for the system message number. After that, the recorder-keys can be used to record or playback. Inside the Call Recorder the system messages are stored with the following file names:

MESS<num>.<qua> : <num> = 0-999 , <qua> = 1-7 = quality/compression

The following numbers are used:

0-9 = "Zero" till "Nine"

188 = "January"  
189 = "February"  
190 = "March"  
191 = "April"  
192 = "May"  
193 = "June"  
194 = "Juli"  
195 = "August"  
196 = "September"  
197 = "October"  
198 = "November"  
199 = "December"  
200 = "Hour" (optional)  
210-259 = "Ten" till "Fiftynine"  
  
300 = "<default Welcome Message>"  
301 = "<factory Welcome Message>"  
  
302 = "<factory Notification Message>"  
  
303 = "The message has been stored. Goodbye."  
304 = "There are no new messages."  
  
309 = [temporary storage, don't use.]  
  
310 = "<MENU>: 1 = Listen to new Messages  
              3 = Select Welcome-message  
              5 = Change password  
              6 = Re-record Welcome-message  
              9 = Exit"  
  
311 = "Enter password:"  
312 = "Password is ..."  
313 = "To store press 1, to enter again press 2, to cancel press 3."  
314 = "Password stored."  
  
315 = "To re-record the welcome message press 1, to playback current press 2,  
      to cancel press 3."  
316 = "To re-record again press 1, to playback press 2, to cancel press 3,  
      to store press 4."  
317 = "Message stored."  
  
318 = "Waiting for your selection..." (optional after selection timeout)  
  
320 = "Enter Welcome-message number:"  
321 = "This Welcome-message does not exist."  
322 = "You have selected Welcome-message ..."  
323 = "To store this selection press 1, to playback this message press 2,  
      to cancel press 3."  
324 = "Selection stored."  
  
330 = "End of messages."  
331 = "Press any key to continue with the next message." (Germany only)  
  
333 = "Enter a 6 digit date"  
      If this message exists (not standard), then searching for and listening  
      to calls remotely is enabled.  
      In that case, the main menu (message 310) has a new selection 2.  
  
335 = "To listen again press 1, to quit press 3."

339 = "Goodbye." (optional)

340 = "This call will be recorded..."  
Used for the Notification Message.

342 = "<answer machine beep>" (default 1500 Hz for 0.5 sec)

351-359 = <Welcome Messages 1-9>

360-369 = <Welcome Messages 10-19>

370-379 = <Welcome Messages 20-29>

\*\*\*\*\* End of Document \*\*\*\*\*