

## CYBERTECH RECORDING SOLUTIONS-SPECIFICATIONS

### RECORDING MODES

- Full recording
- Selective and rules based recording
  - Selections can be based on:
    - Full D-Channel support (no need for CTI server)
    - Channel no.
    - Date and time
    - Line key
    - User or extension no.
    - Recording on demand
  - Function key
  - Calling Line ID (via DTMF/FSK or D-Channel)
  - On/off hook
  - Include / exclude telephone number lists

### SELECTIVE DELETING

- Calls and related information can be deleted by age
- Delete schedule for marked calls
- Call information can be kept even if audio part is deleted

### CALL SEARCH CRITERIA

- Calls can be searched by any combination of search criteria:
  - Call duration
  - Date and time
  - CLI/dialled number
  - Channel
  - Call direction (incoming/outgoing)
  - Marked calls
  - Name
  - Notes fields
  - User fields (max. 20)

### SECURITY

- Highest Security level possibilities (Sarbanes-Oxley compliant)
- User level access rights with many Passwords options
- Access & Permissions can be extended to underlying roles (Maker/Checker)
- OS Hardening Policy

### STORAGE & ARCHIVING

- Local storage to HDD, local archive to DVD-RAM or Iomega REV drives
- Central storage to SAN/NAS (also mirroring, RAID)
- Central archiving to SAN/NAS or EMC Centera
- Flexible scheduled archiving capabilities to many media types, also mirrored.

### PLAYBACK

- Replay over the LAN/internet via web browser
- Real-time monitor
- Last call Replay
- Variable speed replay
- Loop playback replay of call sections
- Add remarks to call playback
- Easy navigation through calls
- Replay directly from archiving media

### ENCRYPTION

- Rijndael 256 bit audio encryption
- Fingerprinting

### SCALABILITY

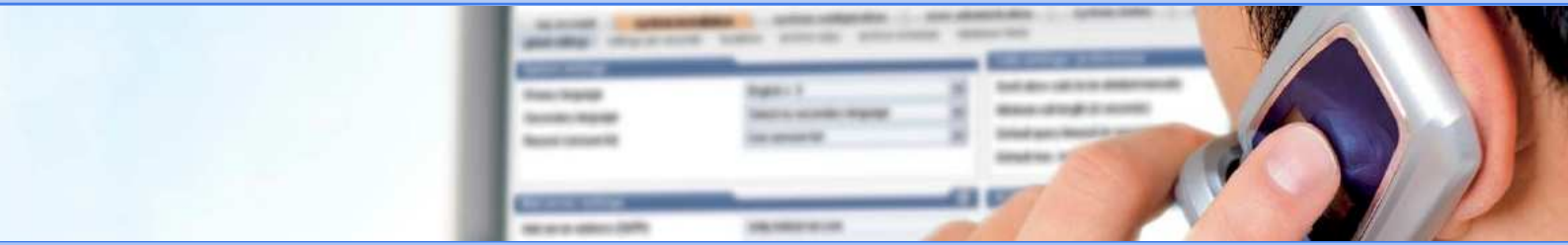
- Mixed analogue / digital / trunk / VoIP recording (from 4 channels and upwards)
- Max. 64 input channels (**Myracle**)
- Unlimited input channels (**Pro**)
- Limited only by number of available PCI slots on server and system performance
- Recorder systems can be clustered to extend limits
- Number of channels can be extended by simply adding an extra interface card or additional recorder chassis (Server/Satellite)

### USER ADMINISTRATION

- All user administration is web based, remote maintenance possible
- Extensive rights can be defined for different users
- Users can be assigned to groups
- Assign rights to users to access, e.g. only own calls, or calls of specific groups
- Templates to easily set up and apply rights to users

### CTI & INTEGRATIONS

- Flexible passive and active CTI integrations for Avaya, Nortel, Mitel and Cisco
- Active VoIP recording for Avaya, Nortel, Mitel Secure Connector and Cisco
- MS-Windows API and SDK available for software developments



## COMPRESSION

- 10 compression rates available
- Indication of hours of recordings storage per media type:

Compression Type	70 Gb REV	4.7 Gb DVD	80 Gb HDD	180 Gb HDD	250 Gb HDD
Uncompressed 64Kb/s	2.290	154	2.625	5.906	8.203
ADPCM 32Kb/s	4.580	308	5.250	11.813	16.406
ADPCM 24Kb/s	6.100	411	7.000	15.750	21.875
GSM 13Kb/s	11.000	748	12.727	28.636	39.773
Fast GSM 13Kb/s	11.000	748	12.727	28.636	39.773
True Speech 8.5Kb/s	17.300	1.161	19.765	44.471	61.765
Speex 8Kb/s	18.300	1.234	21.000	47.250	65.625
Speex 5.95Kb/s	24.700	1.659	28.235	63.529	88.235
Speex 3.95Kb/s	37.200	2.499	42.532	95.696	132.911
Speex 2.15Kb/s	68.300	4.591	78.140	17.5814	244.186

## AUDIO INTERFACES

- **Audio and D-Channel support for all major PABXs including**

<b>Digital Parallel</b>	- Goldstar	- Spectrum	<b>VoIP</b>
- Alcatel OmniPCX	- Intertel Axxess	- Selta	- Alcatel
- Ascocom Ascotel	- ISDN2 ETSI/1TR6	- Siemens	- Avaya IP office
- Aspect	- LG Starex-VSP	- Tadicom Coral	- Cisco
- Avaya	- Nitsuko DX2E	- Toshiba Strata	- Mitel
- Bosch Integral	- Nortel		- Nortel
- DMS-100 (BRI)	- Panasonic KX-TD	<b>Digital Serial</b>	- Siemens
- Ericsson	- Philips/NEC	- Avaya Index	
- Fujitsu Coral	- Realitis DX 4-wire	(SDX)	
- Generic	- Rockwell	- Mitel X200	
		- SX2000	

For actual list, see:  
[www.cybertech-int.com](http://www.cybertech-int.com)

- **Trunk recording**
    - ISDN E1
    - ISDN T1
    - CAS
  - **Extension recording**
    - Analogue
    - Proprietary digital extensions
- E1/T1 PRI  
 - PCM30 / PCM32  
 - DPNSS / QSIG  
 - VoIP  
 - SIP

## TECHNICAL DATA

- **Audio input (analogue)**
    - Frequency range
    - Signal-to-noise ratio
    - Distortion factor
    - Cross talk attenuation
    - AGC amplifier
  - **Operations**
- 300 ... 3400 Hz, +/- 3 dB  
 > 42 dB (A)  
 < 3 %  
 > 60 dB / 1 kHz  
 response time 20 ms / 20 dB  
 recovery time 250 ms ... 4 sec. / 20 dB adjustable
- 0 ms  
 1 ... 120 sec. adjustable  
 optional: NTP, input for minute pulse, DCF 77, GPS, IRIG B, IRIG E, HOPF, output: minute pulse relay outputs for optical and audible alarm (option)  
 115 / 230 V AC  
 + 5 ... + 35 °C

## CERTIFICATIONS

The CyberTech Recording solutions are certified by Avaya, Cisco, Nortel, EADS, EMC and others.

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