



<b>Security Functions</b>	<b>Protection of Existing Recordings</b>	Overwrite and deletion protection is available (time-to-live)
	<b>User Management</b>	Password Protection, Hierarchical access control and user rights, User profiles, Multi-tenancy support
	<b>Extended Password Protection</b>	Four eyes principle, i.e. access requires two authorized users; Selectable password change intervals; Selectable password strength
	<b>Log Management</b>	All user and system activities are logged
	<b>Channel Inactivity</b>	Monitoring of selected channels, alarm is triggered if no recording takes place within a defined time period or continuous recording blocks the channel
	<b>SNMP</b> <b>Email</b>	Notification of system errors via SNMP Email distribution of error messages from the recorder, administrator and workstation client
<b>Service Maintenance</b>	<b>System Diagnosis</b>	Directly via the service and help menu (BITE); Autotest during system start/boot; remote diagnosis, system update and configuration via LAN/WAN
<b>Options – Software</b>	<b>VoIP Recording</b>	VDS-II VoIP Decoding Software for SIP, RTP, RTSP, ED137 and other standardized protocols Proprietary solutions for AlcatelLucent DR LINK, Siemens SIFA & VAS-B, Unify Openscape Voice, and Motorola DIMETRA
	<b>Administrator Software</b>	For central control, supervision and configuration of several recorders
	<b>Last Call Repeat Software</b>	Individually configurable replay software client for fast and easy access
	<b>Workstation Software</b>	User-friendly replay and evaluation; multi-channel and scenario replay; evidence media creation
	<b>AudioCenter Software</b>	Centralised/automated audio archiving in LAN/WAN
	<b>User Management</b>	Centralized user management with optional AD support
	<b>Statistic Generator</b>	Statistic tool with different reports and output formats
	<b>LCRflex</b>	Last Call Repeat functionality based on Browser, especially designed for larger systems
	<b>Web Applications</b> <b>Data Interfaces</b>	Replay and system administration via Internet Explorer Recording control and/or transmission of Call Related Data by different types of protocols (e.g. CSTA, ARCP, VCP, ...)
<b>Options – Hardware</b>	<b>TDM Interfaces</b>	Acquisition boards for Analogue, ISDN BRI and PRI, and Up0 interfaces Full PCI boards Remote TDM Interfaces RIAB remote interface and media gateway for Analogue, ISDN BRI and PRI, and Up0
	<b>COTS Hardware</b>	19"/1 U rack mount carrier Different models based on performance & reliability available

Please see separate leaflets for detailed information on hardware options.

#### About VoiceCollect® GmbH:

- Headquarter in Bad Homburg / Germany
- Sales & Service offices in Switzerland, Germany & UAE
- IISO 9001 certified development, production, sales & service
- Various SLA and after sales support options offered

## VC-MDx Recording Software

### Powerful Voice Recording Software for today's and tomorrow's challenges.

The VC-MDx recording software, developed by VoiceCollect®, offers reliable and secure signal acquisition, storage and presentation for evaluation and playback with seamless integration into the communication infrastructure.

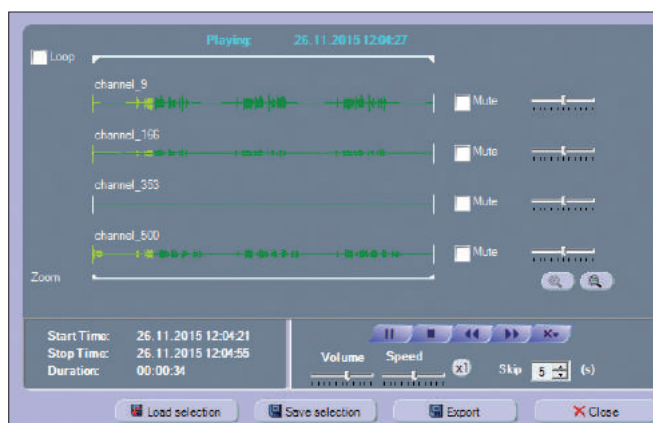
#### Selected key benefits:

- adjustable archiving periods and scenario replay functions
- marking & commentary features
- multi-channel playback
- selective creation of evidence media
- off-line evaluation
- integration with VCS systems, PABX networks and IT infrastructure
- integration into complex command and control centers
- connectivity to centralized, third party databases for the transfer of call data or unique transaction numbers
- CTI/CSTA interoperability with leading communication equipment vendors

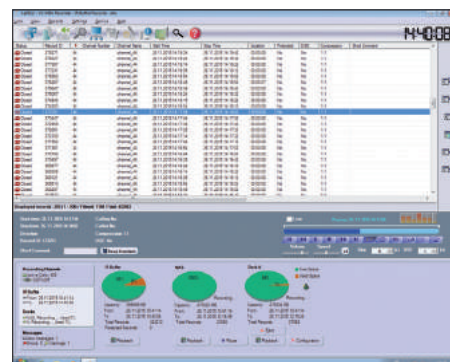
- Up to 512 simultaneous recordings
- Analogue, TDM and VoIP support
- Multi-Tenancy
- Easy to use with intuitive GUI
- Multichannel, Scenario and Synchronized playback

#### Applications:

- ATM, ATC, ANSP, Airports
- Public Safety
- Transportation
- Oil & Gas
- Finance, Forex, Stock Exchange
- Malicious / Threat Calls
- Military
- Border & Coast Guard
- Enterprise, Building & Compound Security



Multichannel parallel playback with graphical display of signal strength



Main VC-MDx Recorder Window with Record List and Storage overview

# VoiceCollect®

## Recording

Up to 512 recording channels are available on one CPU. Received communication is recorded on hard disk. Archiving via LAN is controlled via the MDx to a network-attached-storage (NAS) or other storage devices. For automatic or case-selective archiving RDX drives are used. Individual calls or a selection of multiple calls can be exported as WAV, MP3 or the proprietary VoiceCollect® format and stored on an external medium or a network-attached-storage. LAN archiving via AudioCenter is controlled by the AudioCenter software. The MDx platform can also be used to record threat calls, in this scenario only marked calls are archived.

## Security and Control

Hierarchical user and password management assures system security and access control. Access rights can be assigned down to channel level. A number of user roles are available in the standard system configuration and are assigned in accordance with individual users' position and authorisation level. If necessary, the "four-eyes" principle for the allocation of passwords is supported by the VC-MDx application, in which case selected user accounts can only be activated upon entry of two separate passwords.

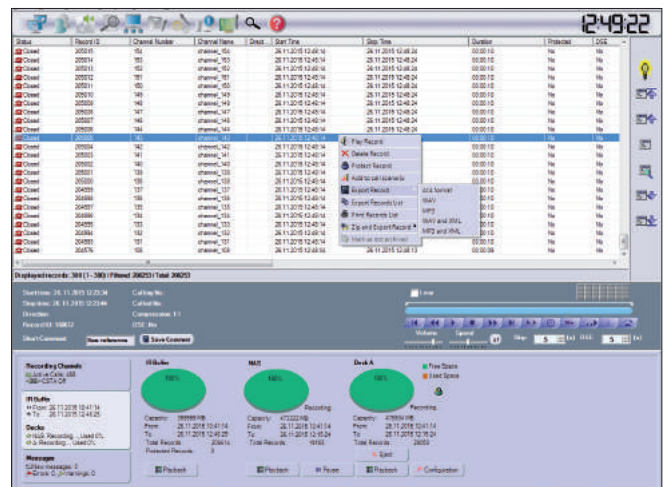
All system messages and user activities are saved in log files, which can be accessed by the system administrator. Error messages and warnings are displayed in clear text alternatively, they can be dispatched via SNMP, viewed using the Administrator application or signalled using potential free relays.

For query purposes there are various filter windows with more than 20 available search criteria. All search criteria can be aggregated and saved as a combined filter if required for frequently reoccurring searches.

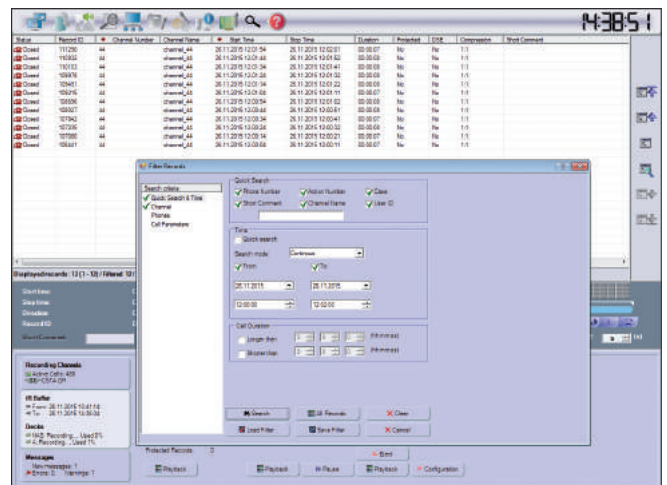
## Playback

Playback related features include:

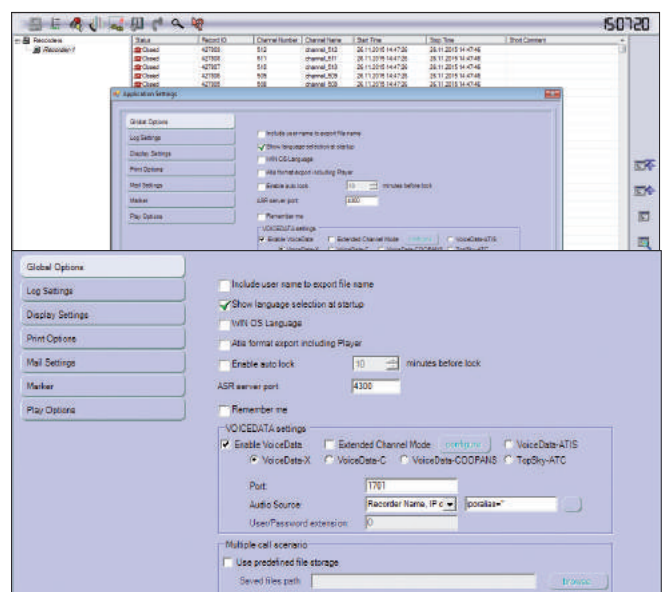
- Loop – continuous replay of selected segments
- Flexispeech – quarter up to quadruple-speed
- Zooming
- Text commentary
- DSE – digital silence encoding
- Playback AGC: Enhancement of signal strength during playback for better audibility
- Using the Multiplay function up to 16 recording channels can be selected for synchronised scenario replay (includes graphical display)



Main VC-MDx Recorder Window with "right-click" options for playback, export and protection of selected recordings



Database query windows with time & date related search criterias



Workstation with application settings for synchronized playback with ATM systems

**Operation**

The application of the VC-MDx is intuitive, user-friendly and easy to learn. A comprehensive online help and bubble-help fields are available and makes finding your way around the VC-MDx simple. Not only that, all of the software clients

available for LAN access have the same look and feel, thereby increasing the comfort factor and decreasing training cost for users of the VC-MDx.



<b>General</b>	<b>Operating System</b>	Microsoft Windows 10 64-bit VC-MDx application in various languages, including English, German, French, Spanish, Serbian and Arabic
	<b>Application Language</b>	English, German, French, Spanish, Serbian and Arabic Other languages on request
	<b>Channel Capacity</b>	1 to 512 channels
<b>Recording</b>	<b>Frequency Range</b>	300 – 3400 Hz (acc. CCITT/ITU)
	<b>Compression</b>	PCM 64 KBit/s (standard), ADPCM 2:1 and 4:1, up to 12:1, depending on the type of interface Digital Silence Encoding (DSE) can be activated for recording or replay VoiceCollect® proprietary recording and storage format
<b>Database &amp; Playback Functions</b>	<b>Database</b>	SQL-based database with unlimited number of entries
	<b>Search Function</b>	Quick Search Browser Search Menu-controlled search with over 20 different search criteria, including date, time, call length, channel number, channel name, text commentary, threat calls, protected calls, marked calls, call direction, call number and combinations there of
	<b>Uninterrupted Recording</b> <b>Export of Audio Files</b>	Independent replay without interruption of recording Online monitoring WAV, MP3 or proprietary VoiceCollect® format
<b>Storage</b>	<b>1st Level storage</b>	Internal buffer on Hard Disk Drive
	<b>2nd Level storage</b>	Optional automatic or manual storage on removable media
	<b>3rd Level storage</b>	Optional automatic archiving via network to NAS/SAN devices