

KSL's Interception Range Overview



Komcept Solutions' recorders give you full fidelity audio reproduction of voice, fax and data transmitted over the telecommunications network.

Graphical interfaces and optional processing tools provide you with a complete armoury for telephone interception using individual modules to scale your system for your needs and price, and allowing it to be built upon over time.

Analogue Telephone Interception

The *Analogue Recorder* provides Law Enforcement with a comprehensive facility for the un intrusive interception of analogue telephone circuits. High impedance parallel connections to target lines can be routed to the interface which will detect activity on the line and record both sides of the conversation. All call related data (Caller ID, DTMF, MF, Pulse Dial) is decoded by the recorder and stored for presentation upon playback.

Analogue Interception with Call Routing

The Analogue Recorder is best used where the targets' telephone lines have been routed to the recording centre. If this is not possible but access to the switch is available then the Analogue Recorder may be customised to route all calls from the telephone switch to the recording centre over another analogue line (*RemoteTap*) or a DSL-line (*VPN Recorder*).

Switch/LI Software Dial-up Receiving

The *Dial-up Recorder* is designed for situations where interception is provided through switch software and the intercepted product is routed

from the switch on a digital (ISDN) dial-up connection. The Dial-up Recorder is capable of receiving this intercepted product on one or more ISDN trunks, as well as data channels for CALEA J-STD-025A or ETSI ES201 671 compatible signalling. The dial-up recorder takes a primary rate ISDN Q931 connection and can be configured to all national standards.

Digital Trunk Interception

The *E1 Activity Recorder* may receive up to 120 simultaneous telephone channels on four E1 trunks, recording calls in either voice operated or c-tone triggered mode, or by a digital signalling method. All standard signalling systems can be accepted including GISH, SS7, DASS and DPNSS.

GSM Interception

Komcept Solutions' own *A-Interface Interception System* allows the capture and analysis of the data on the A-interface (between the MSC and BSC) of a GSM network. It keeps a live database to provide translations between TMSIs and target IMSIs to which they relate. This can be scaled for a small system right up to a multi-sited GSM network.



Interception Systems offered by Komcept Solutions for :

Analogue telephone interception.

Analogue interception with call routing.

Switch/LI software dial-up receiving.

Digital trunk interception.

GSM interception.

PBX monitoring.

Available to enhance Komcept Solutions' interception systems :

Fax, modem (dial-up internet) and broadband internet.

Location mapping.

v1.0

PBX Monitoring

The **PBX Monitor** offers the unintrusive interception of a majority of digital PBX telephone circuits. High impedance parallel connections to target lines can be routed to the monitor which will detect, analyse and decode the activity on the line and record the resulting audio and call related data. Up to 96 digital lines can be monitored and recorded by each monitor. All call related data (Caller ID, DTMF, MF) is recorded and can be displayed when replaying the calls.

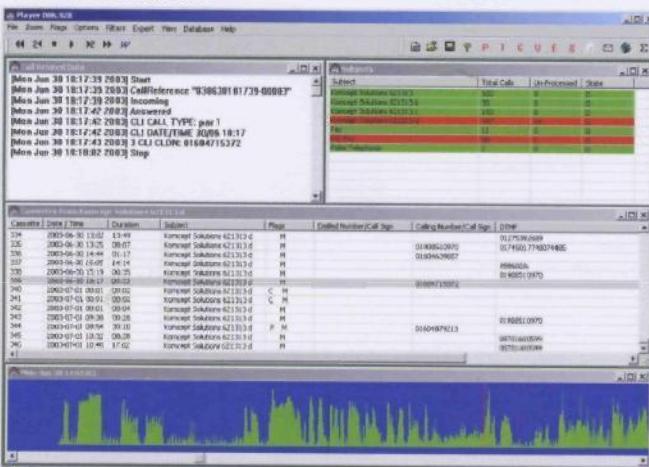
The range of digital PBX switches and handsets which can be monitored is constantly growing.

Call Playback

The **Komcept Solutions Digital Player** is a software application for a call replay machine based on a Windows PC. When used in conjunction with Komcept's Lawful Interception suite it provides a versatile playback facility packed with features for the displaying and decoding of called/calling numbers, flexible filtering and sorting, looping and flagging, amongst a host of other tools. The population of a Word Processor transcription document can be controlled from within the Player, saving much of the operator's time.

For mobile targets SMS messages and location information can be displayed instantly.

This product is normally supplied free of charge with Komcept Solutions recorders.



Fax Processing

Fax calls recorded on any of the Lawful Interception suite's recorders can be processed and decoded, producing an image of the transmitted fax. This process is automatic when connected to the Lawful Interception network, yet can also be used standalone with fax calls fed into it as .wav files.

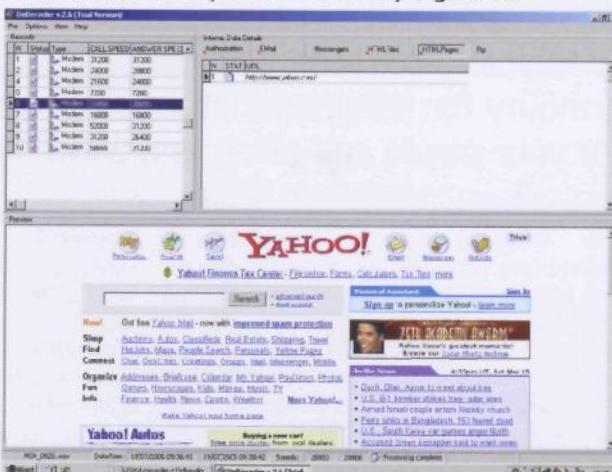


Modem Decoding - Dial-up Internet

Modem Decoding requires a four-wire tap to record both directions of the call; differences between Fax and Modem are substantial in the way data is intercepted - fax being possible from a 2-wire tap. The recorded .wav file from the 4-wire tap is stored, and processed through the Modem decoding server.

Broadband Internet

Depending upon the architecture of the operator's network, there are various ways a **Komcept Solutions' Broadband Interception System** can monitor a target's broadband line. With the high data rates of modern broadband connections the product can be filtered to only store relevant material, for example between certain times, just email, particular web sites etc. The Delta SeePro application presents the whole session neatly and conveniently organised.



Mapping

Geradus, Komcept Solutions' own mapping application, displays the likely location of a target based upon their location messages from a GSM interception system, and cell locations from the CSP (Cellular Service Provider). Geradus displays a navigable history of a target's whereabouts, allows time-filtering, and alarms when they move. It is based upon best-guess geography of cell usage.

