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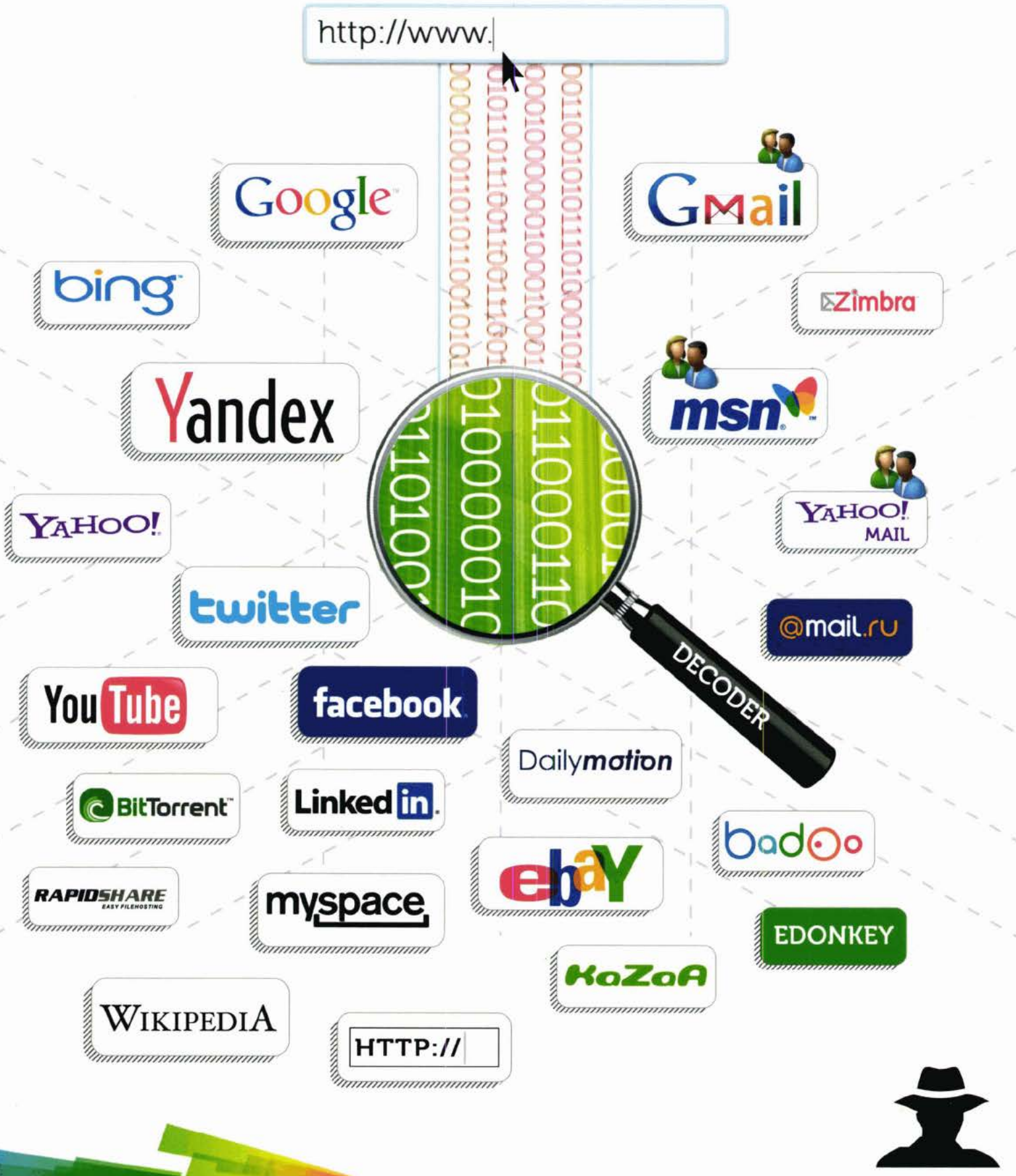
NetRASAT® LI Decoding And Mediation Solution



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NetRASAT® LI Decoding And Mediation Solution

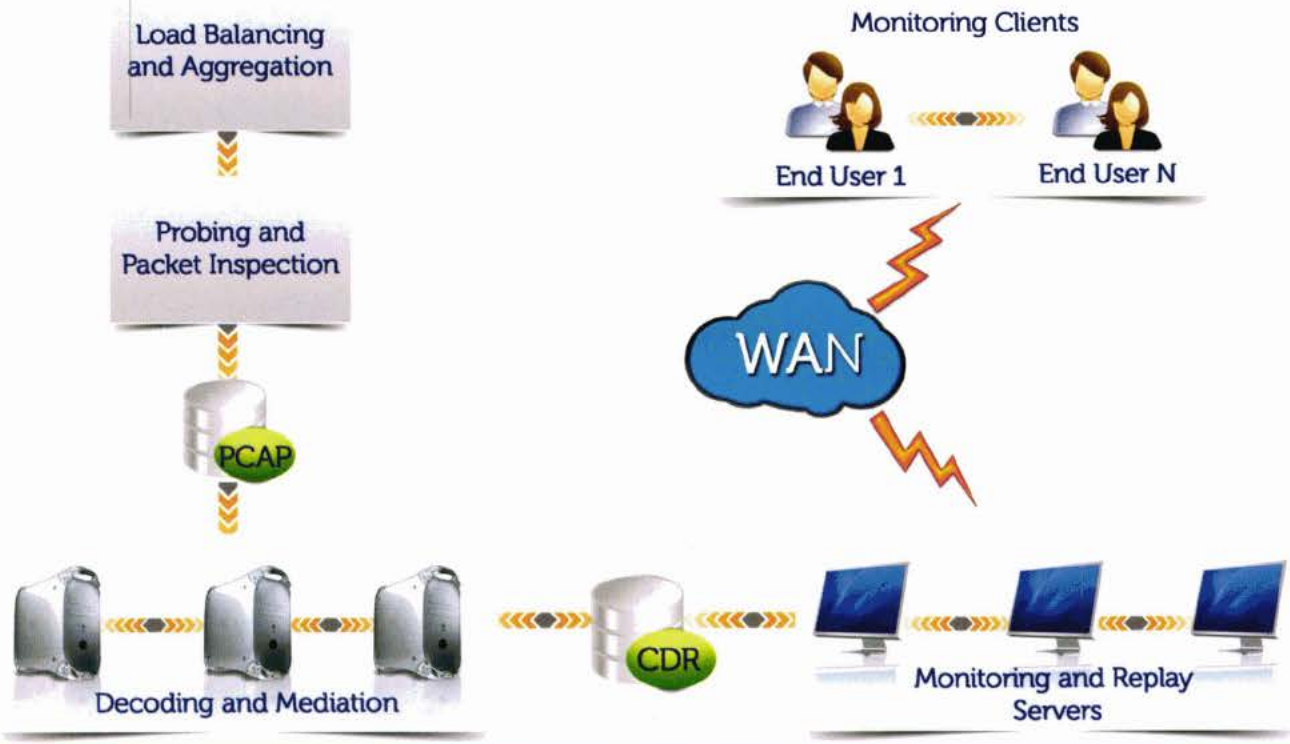
OVERVIEW

Decoding and Mediation of IP data flows enable extraction of metadata which is a critical processing stage of LI. NetRASAT® Decoding and Mediation solution can be either integrated to Probing and Packet Inspection solutions or works standalone to enable decoding of pre-captured/intercepted traffic.

Decoding and Mediation solution supports scalability for high traffic with its distributed architecture. Based on the traffic volume that needs to be decoded, new decoder servers can be added to the system.

The decoder and mediation engine works in an integrated structure. The decoded traffic (IRI and CC) will be stored in a database/file system.

The decoder and mediation engine runs on Linux OS (preferably Debian flavours distribution).



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HIGHLIGHT

- Accepts PCAP files which includes intercepted data and transferred to law enforcement office.
- Has plug-in architecture enabling developers to easily build additional, custom protocol plugins
- Easy installation and setup
- Extraction of VoIP traffic
- Session correlation of multiple sessions (e.g. RTP and SIP) relating to an application (e.g. VoIP)
- Extraction of traffic metadata (caller, type of file downloaded, IMSI, etc.) and content (e.g. email text or VoIP stream based on RTP data)
- Session reconstruction/management and packet reordering
- Fully documented APIs and tutorials for easy development of custom modules
- Supported Protocols (If there is no encryption):
- POP3 / SMTP / IMAP
- Web Mails
  - Yahoo / Hotmail / Gmail / Mail.Ru / Zimbra...
- Web Mails Groups
  - Google Groups / Yahoo Groups / MSN Groups...
- Web Mapping
  - Google Maps / Google Eart / Yandex Map...
- Web Search
  - Google / Yandex / Youtube / Dailymotion / eBay / Wikipedia / RapidShare / myspace...
- Instant Messengers (Include File Transfer and RTP)
  - MSN / ICQ / AIM / IRC...
  - Google Talk / Facebook Chat / Yahoo Messenger...
- Social Networks
  - Twitter / Facebook / Badoo...
- Peer To Peer
  - Bittorrent / eDonkey / Kazaa / Ares
- GPRS Traffic (IP Tunneling, WAP, MMS)
- HTTP / FTP

  etc.

MEDIATION

- Processes CDR files and stores results in a database
- Can work alone or can be tied up with the Decoder (optional)
- Multithreaded (optimized system sources and processing power increases depending on the number of invoked threads)
- Each CDR file is processed at once (Optimized DB resources)
- Enhanced logging mechanism
- Able to reconstruct http pages as/while producing cdr records (Working alone or tied up with the decoder - cdr process)

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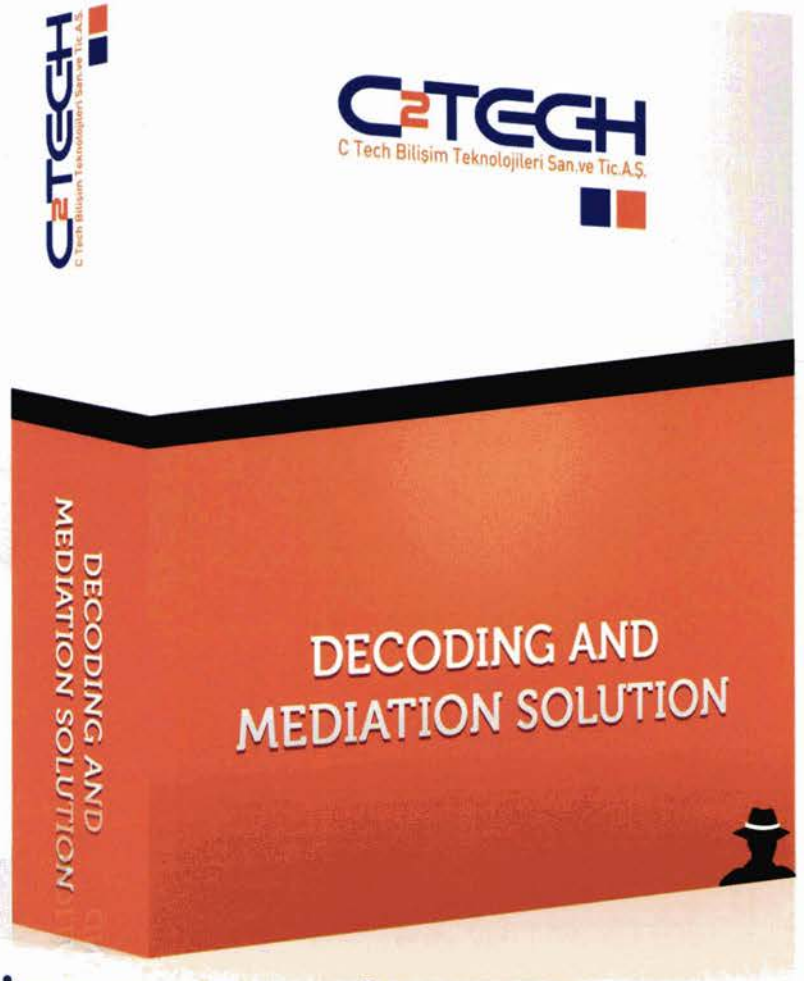

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