

MD-RED

MD-RED is an AI-powered data analysis software for Recovery, Decryption, Visualization, Analytics, and Reporting of evidence data from mobile and digital devices



Apps and Data Analysis

Analysis of 2,600+ apps

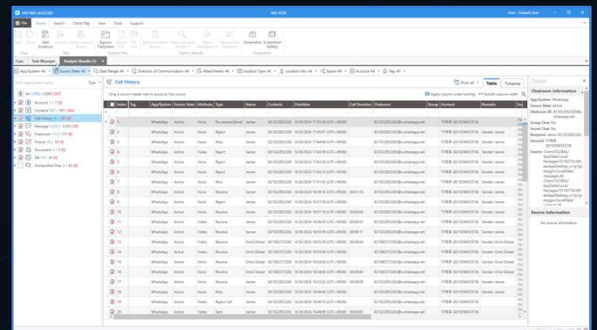
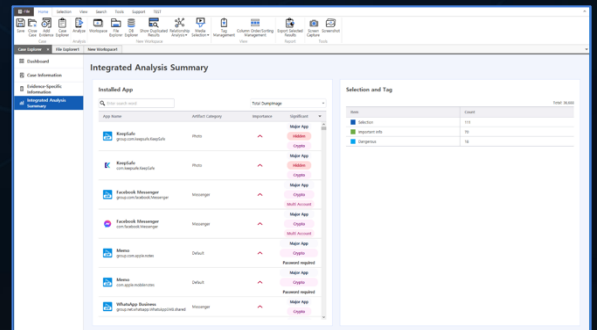
- Analysis of 2,600+ popular mobile apps
- Multi-Account & Space Analysis
- Decoding, Deserialization and Decryption of app data
- Detection of Anti-forensic apps

Malware Scanning

- Malware detection on APK files by scan engine
- File-based Malware detection using YARA rules (*.yar)

File System and Image Analysis

- Recovery of file system: EXT2/3/4, HFS+, APFS, NTFS, FAT12/16/32, exFAT, F2FS, VDFS, RSFS, XFS, and YAFFS
- Support for 3rd party forensic tools' images from Encase, GrayKey, UFED, PC-3000 Mobile PRO
- Recovers deleted files and data from unallocated space

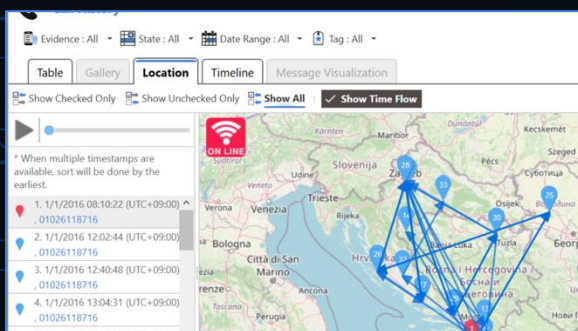
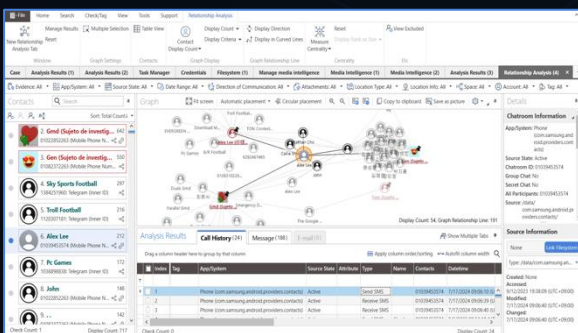


Visualized Analysis Result

- Map view for GPS data and cell tower location
 - Offline/Online map (Region/Country/City)
 - Tracking based on time flow
- Gallery view of multimedia files
- Timeline view of analyzed data
- Link view for social relationship
- Chat view for messages
- Web browser preview for internet history review
- Hex data, PList, Documents, Video, Audio viewers
- DB Hub for database files table view

Reporting and Export

- Tagging, filtering, keyword and hash set search
- Supported reports: Excel, PDF, HTML, XML, SQLite DB
- Exports reports form for Relativity and Nuix
- Wizard for configuring report and exports
- MD-Explorer: Distributable viewer for review and tag



Multimedia Intelligence

AI-Powered Deep Analysis

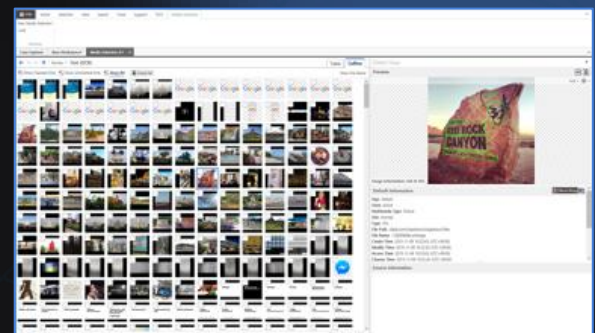
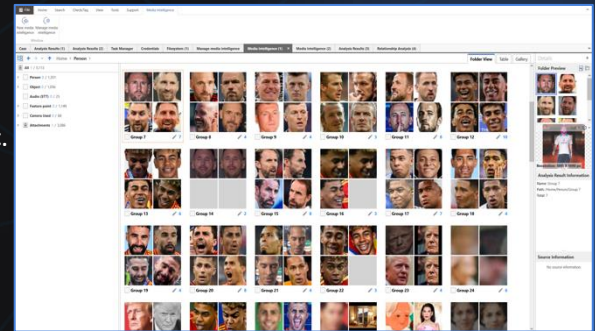
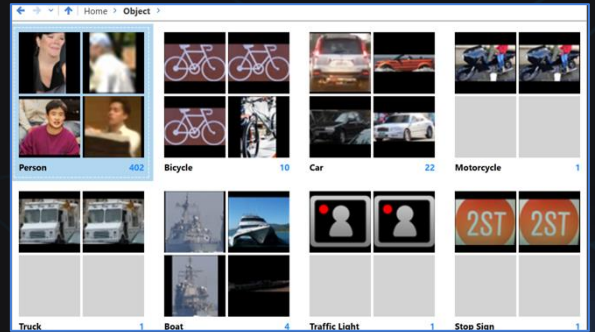
- GPU acceleration for AI processing (Nvidia GPU)
- AI inference engine of GMDSOFT proprietary

Image Analysis

- Facial Detection
 - Detects faces in images to group by same face
- Supports over 80 objects detection
 - Key objects: Car, Truck, Knife, Rifle, Pistol, Person, etc.
- Camera Analysis: Device type, photo metadata

Language Analysis

- OCR (Optical Character Recognition): Converts recognized letters and words from pictures
- Scanned images or taken pictures of documents are categorized as document images
- STT (Speech To Text): Converts recognized speech into text in the selected language
- AI Translation: Translates analysis results into chosen language



CDR Analysis

- Call Detail Record Analysis
- Create a template for analyzing CDR file supplied by mobile carrier
- Relationship analysis together with mobile communication data

Project VIC (VIC, CAID)

- Filter Child Sexual Abuse Material (CSAM) using hash and PhotoDNA from Project VIC
- A file having the same or similar perceptual hash values can be flagged as likely known CSAM based on VIC or CAID

PC Messenger Analysis

- Supports desktop versions of WhatsApp, WeChat, Facebook, Telegram, Steam, Viber, LINE, etc.
- Add-on license for MD-PCM is required for analysis

