# SecurCube

#### What we do

### **SecurCube®**

### Investigative tools

- CDR (Call Detail records)
  - Standalone
  - client/server
  - -Cell forensics (BTS)
- SecurCube Downloader
  - SecurCube Forensics Report

### Security devices

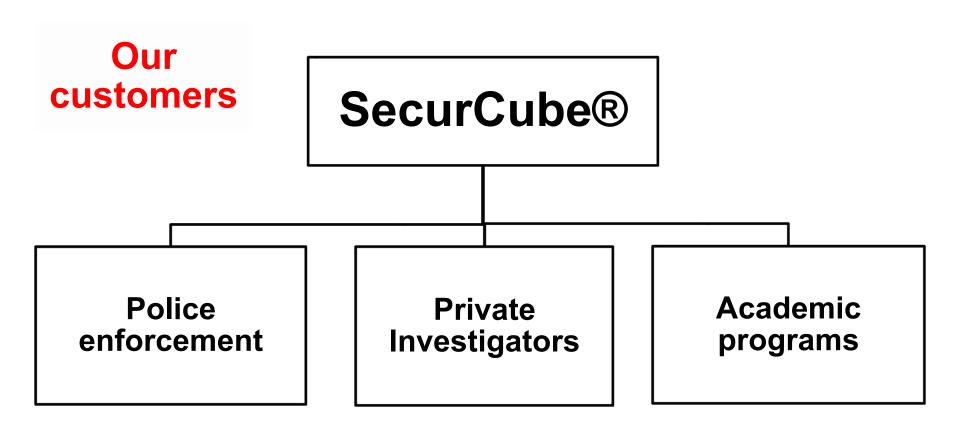
- IMSI Catchers detector

#### **Services**

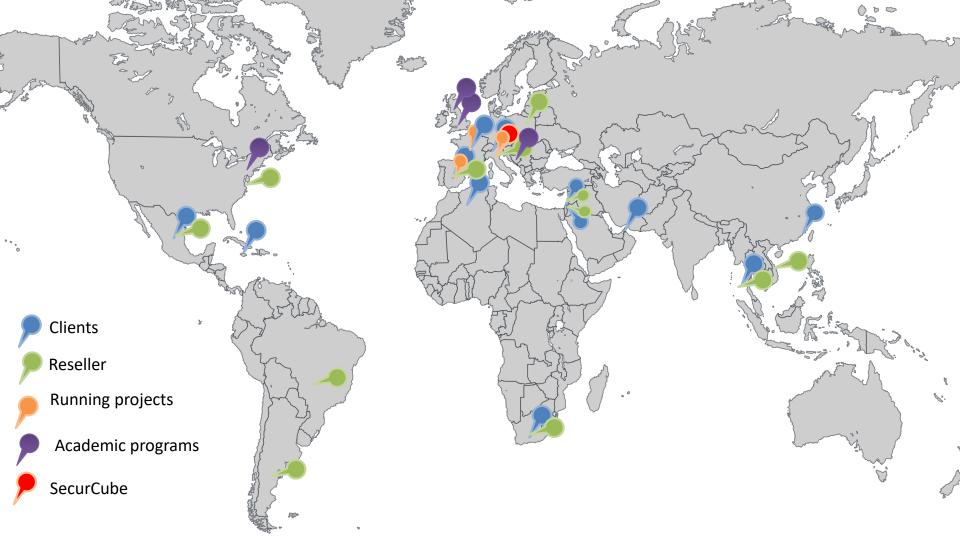
-Training

Digital forensics examinations (EnCE – CCME - ...)









# SecurCube Forensics Report

Automate the final reports creation, following the international best pratices of the computer forensics







#### SECURCUBE FORENSICS REPORT

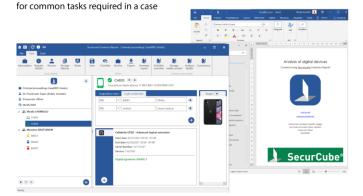
CCUSTOMIZABLE AUTOMATED REPORT CREATION

BEST PRATICES COMPLIANT

# REDUCE THE TIME IT TAKES TO FILE FORENSICS REPORTS

Drag and drop
your acquisition logs
and let the software
create well written
word document,
compliant with international
best practices for
digital forensics.
Case management and automations

Easy to use error free Highly customizable Case Management Automated tasks Device status

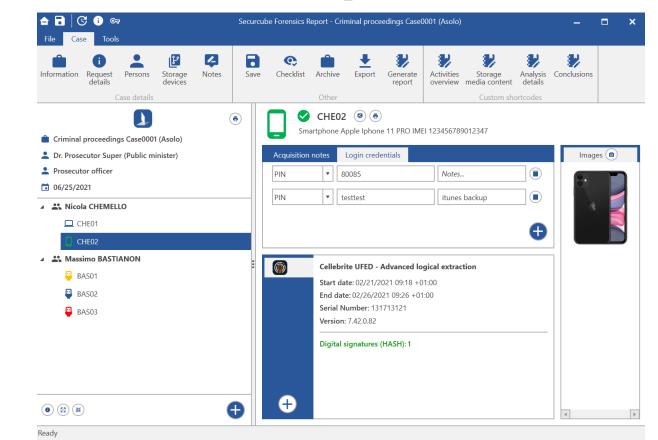


Download your free 30 days trial: www.securcube.net



# **Forensics Report**

Automate the acquisition's final report creation
Drag&Drop to create a editable word document

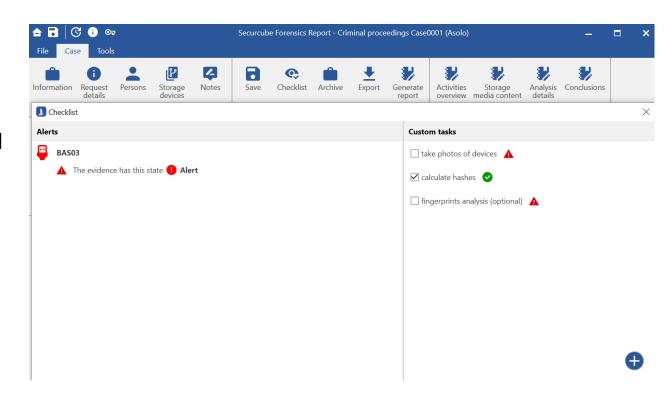




### Checklist - ToDo list

Double check if you Filled all the Information required In your case

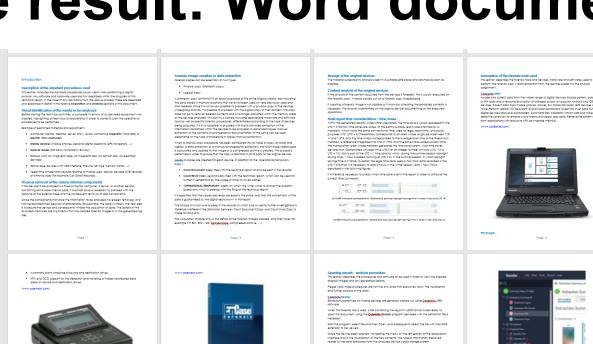
Alerts if you missed anything





### The result: Word document

#### Result: Word document





A new state on that the territory, contenting and reasonation electric terrangle availables. As A one step source for many, constring and preserving again treatile evidence. As fechnology evolves, so do the challenges of again frenzis investigation, investigation must cover all devices and appending systems, reach all data and work discreenly and globally, while ensuring a test, efficient, repeatable and forensionly sound investigative process. CoenText\*\*\* EnCase\*\*\* Forensic, a court-proven digital investigation tool is built with the Investigator in mind. Reduce backing with a full lifecycle digital forereics tool. FoCosa?\*\* Paragina compositiva dictire forance science conceptitas complement desp

Named The Best Computer Forensic Solution' several years running by SC Magazine.



coass and collect data from the videst mone of data; devices flungs notion, notice on or FN locks and overcome encryption challenges quickly on popular Android and IOS services. Collect data from mobile phones, drames, SM Cards, ID cards, GPS devices and

more. Performing call, full file system and physical extractions to get the most data out of the digital devices, Exclusive boottoades, automatic EDL capability. Short ADS and mare, Net selective collection to retrieve cloud tokens and select app data. Retrieve file system data



The Tableau TD2 is a forensic 1:2 duplicator. If has many of the functions traditionally found in negetal number. (I-priented hard also duplicators and provides features and functions that serve the specialized needs of torenda gractice, holizologi:

- MDS and SHA-1 hash values, also known as fingerprints.

extriance to recommise if further annoys, with a foreign tool is unwented. FTC immor non as create nertect conies florensic impaes) of computer data without making changes to the

- Notive support for SATA and IDE hard disks from the source interface.
- Paralei duplication, or twinning, to two destination interfaces for SATA hard disk

Dataled log generation for case documentation.

When using Access Bata FTK Imager free software, browsing the content of forensic copies is

. File browsing with FIX Imager software: Select Add Evidence Item... from the program's Re manu, simply click image Rie, and then select the file to be opened with the 801 exhaust. Riese note, there is ONLY ONE 501 exhausto the for each onalyzed device; all the other files (\$02, \$03, etc.) are outcomplically loaded by the application. Once the file is selected, a file folder free is displayed. By accessing the ROOT folder, all the folders' contents can be browsed. From this mode it is also possible to select files and export them using the context menu that appears when a fight click of the mouse is

 Moenting the images and browsing them from Windows: with this mode, provise the
files as if they were inside a USB flow drive connected to the computer. The selection
of the file is corried out in the image Mounting window, which is always greent in the file menu. Once the window has been opened and the £01 file is selected, click on Mount. The mounted disk is now viewable using the computers file Explanar. Not clasing the impass Mounting window until all potrities have been completed is supposted: this allows disconnecting the forends image in the same window when the analysis is finished by cricking on the unmount buffer



All Content Sin Extraction Summ

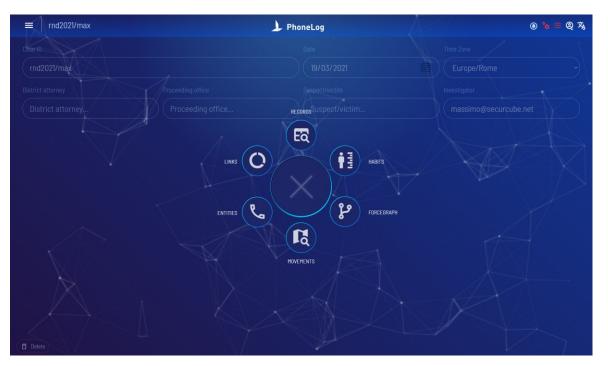


### **PHONELOG**

CDR analyzer, data correlation & data validation



# One interface – multiple sources





### SECURCUBE PHONELOG

Software for phone records investigation and digital evidence correlation

Discover the modern forensics solution for communication records analytics, validated with smartphone generated evidence.

Designed by forensic experts and based on international law enforcement experience, court cases, and global best practices.

The all-in-one easy to use platform: Import, analyze, and cross reference multilevel evidence including phone records, GPS logs, CCTV camera feeds, cell site real coverage, and much more.

#### **Data validation**

PhoneLog provides specific data analytics and mapping functions of your digital evidence.

Line up, confront, and map all your sources together by importing different types of mobile data to one system.

Pictures extracted from a device have metadata indicating when and where they were taken.

Call Detail Records log information on the cell towers to which the device connected to, which further validates and strengthens the specific mobile extraction.



Import CCTV camera feeds or vehicle GPS files: show them in parallel with CDR and mobile extractions creating a solid visualization of multiple-source evidence. A picture extracted from a device with a spoofed position in conflict with CDR data is automatically discovered and shown with precise cross referencing analytics. PhoneLog correlates multiple streams and delivers the 360° data validation every digital investigation requires.



#### **Professional courtroom presentations**

PhoneLog focuses on forensic international best practices: evidence integrity is warranted and protected by the built in Hash Code System: data is never modified or corrupted. Users can:

- Integrate the results with other solutions such as i2 Analyst's Notebook, for a smooth harmonization of multiple forensic applications
- Export every step of the analysis in easy to understand and customizable diagrams, charts, images, and voice-over video animations for the clearest display of the results.

Our experience in the courtrooms guarantees the best possible criminal case presentation.

#### Case scenarios

PhoneLog is designed to investigate criminal activity. In **kidnapping** cases, importing and mining mobile evidence is extremely useful. Start with:

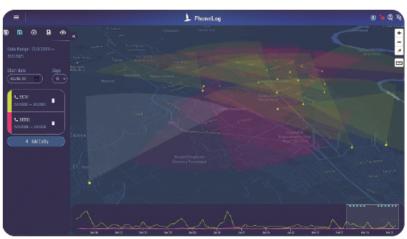
- The complete cell tower traffic in the last seen area
- The victim's user CDR and last connected cell tower traffic

Cross reference a number of possible suspects to the missing person's last mobile activity and connected cell towers. Statistically analyzing the victim's mobile footprint and discovering deviations from the norm can lead to breakthrough insights.

When investigating drug trafficking, highlight potential meeting points or patterns among many persons of interest as single entities and as a group.

With just a few clicks define: users habits, most used locations, interactions, meeting points.

Continue to import evidence and open multiple pathways and to solve crime with PhoneLog.



#### The digital environment

Everyone uses their smartphones to call, text, browse the web, and e-mail. The mobile networks that surround us run in parallel with the real world, turning people into traceable mobile identities.

Information is automatically stored in phone records and in a device's memory, an invaluable source of evidence for criminal court cases. The goal of digital forensics is to collect, define, and analyze this data to solve crimes, following digital footprints and reconstructing past events.

**SecurCube PhoneLog** is designed to empower investigators and maximize the potential of evidence generated by smartphones, validating it through third party and unalterable CDR data.

Achieve the most complete analysis results in the least amount of time.





#### Mobile forensics evidence

Smartphones produce key evidence that translates into opportunities for investigators to exploit.

#### **Call Detail Records**

The most impartial and reliable evidence source today.

Carriers automatically collect and store mobile data for billing purposes:

- Users, date, duration, and type of event: calls, SMS and data connections
- ID and location of every cell tower connecting to the SIM card
- All traffic generated by the network

#### **Mobile Extractions**

Technology that enables collecting a device's memory: pictures, e-mails, texts, internet navigation history, and more.

#### **Cell Site Analysis**

A careful survey of where cell towers spread their signal is the basis of a smartphone's past geo-localization.

Dig deeper with additional evidence: CCTV camera feeds, GPS data, wiretaps, license plates, and much more.

The user-friendly environment where all these types of data are analyzed, cross referenced, and maximized.

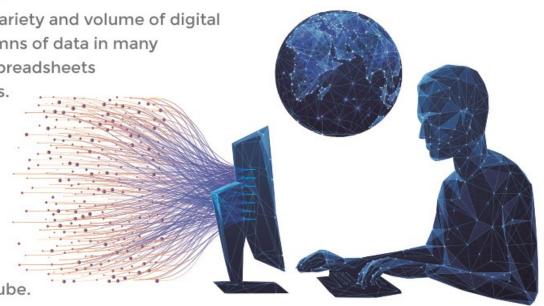
#### PhoneLog advanced importing

Analysts are usually overwhelmed by the variety and volume of digital evidence in a criminal case: rows and columns of data in many different formats. Stop wasting hours on spreadsheets and tools not designed for mobile forensics.

PhoneLog Artificial Intelligence imports and organizes data quickly and efficiently, uncovering hidden stored information.

Save time, manpower, and resources by automatically and forensically creating evidence databases.

More cases solved in less time regardless - of carrier, format, or structure with Securcube.



#### **Investigation management**

Phonelog is a flexible platform with custom solutions for every organization and each unique criminal case. The new browser-based solution does not require any software installations.

It can be used both online and offline.

Analysts can work on the same case and database, or on multiple ones on the shared platform, depending on the specific tasks and rights assigned to them.

An administrator account easily manages user roles, work groups, progress, and results in real time.



Our support system will train, certify, specialize, and assist PhoneLog users in their own language.

#### Statistical data mining: unlock digital footprints with your evidence

Once digital evidence is imported to PhoneLog, perform modern, in-depth analytical investigation. Functions developed in partnership with global law enforcement designed to optimize criminal research.



- Follow intuitions, and insights with precise queries specifically custom built for digital forensics like meeting points and movements
- Search records and entities
- Extract multiple user habits, connections, and patterns
- Understand digital footprints and the links to other users
- Analyze devices, cell tower environments, mobile extractions, social media accounts

PhoneLog develops a solid and logical method for the in-depth reconstruction of mobile profiles and alibis.

#### **Mapping and movements**

Every call, text, or internet connection is made by communicating with a cell tower. Phone records store specific location information relative to each cell in their networks.

Mobile forensics geo-locating technology relies on processing this information accurately.

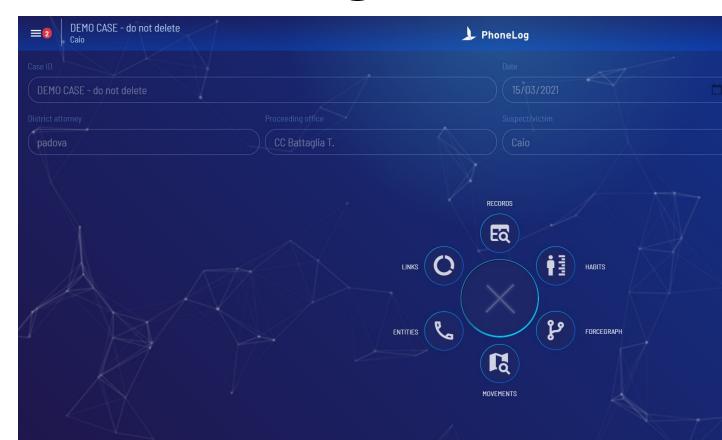
Phonelog offers a state of the art 3D map that can be populated with points of interest, pictures, and additional data traced by digital footprints created by smartphones connecting to cell towers.

#### Users can:

- Animate user paths, behaviors, and meeting points with others through Phonelog's state of the art mapping technology
- Integrate CDR theoretical coverage with statistical BTS Tracker real coverage data: the most complete mobile forensics map on the market



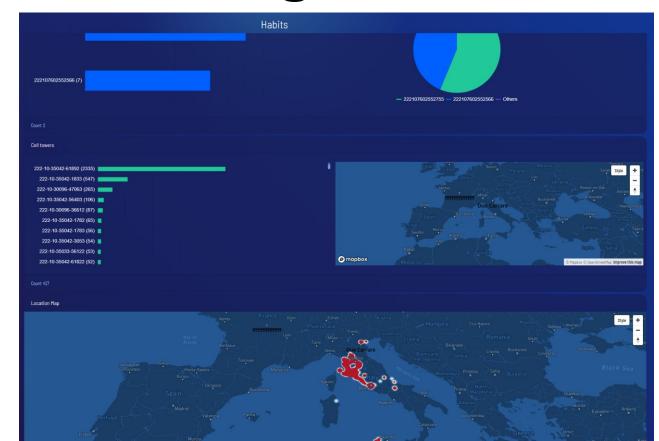
Main window



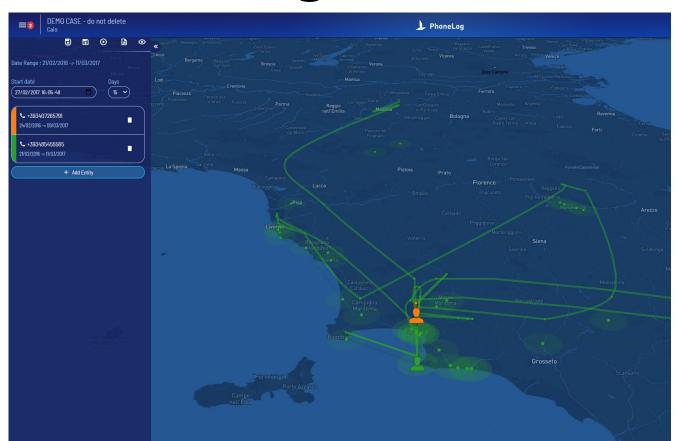
# Habits: Display statistics regarding one or two phone numbers, including the use of AI to highlight anomalies



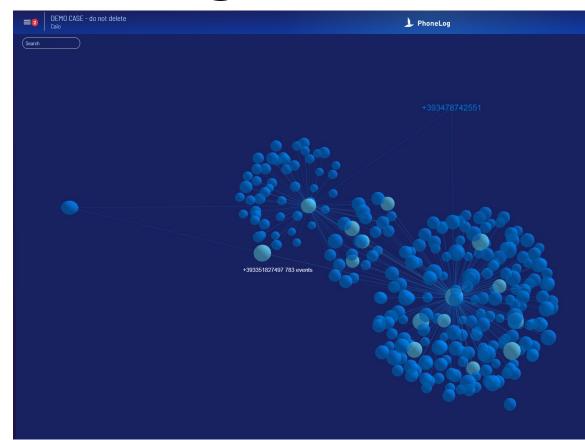
#### Habits: Most contacted numbers, heatmap, map of movements, ...



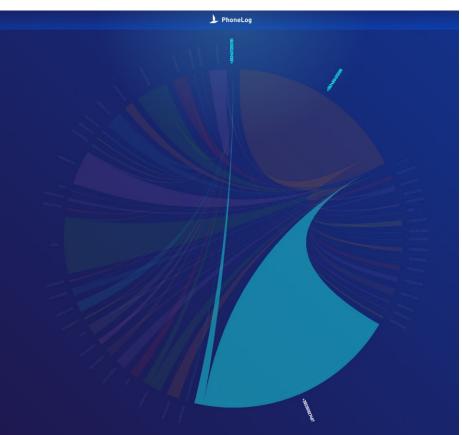
State of the art 3D map showing paths, timeline, meeting points, ...



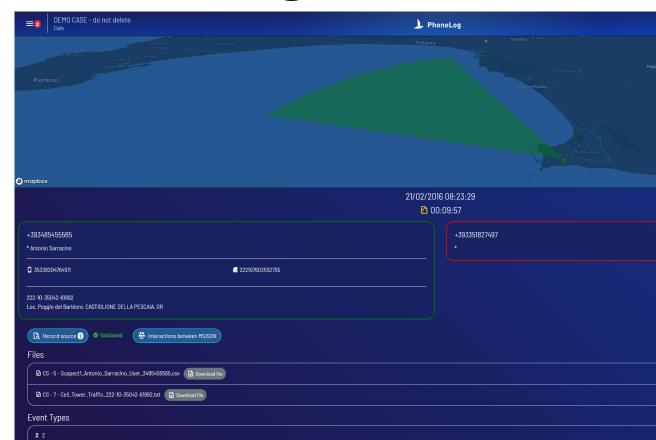
ForceGraph:
3D link maps between users inside the case



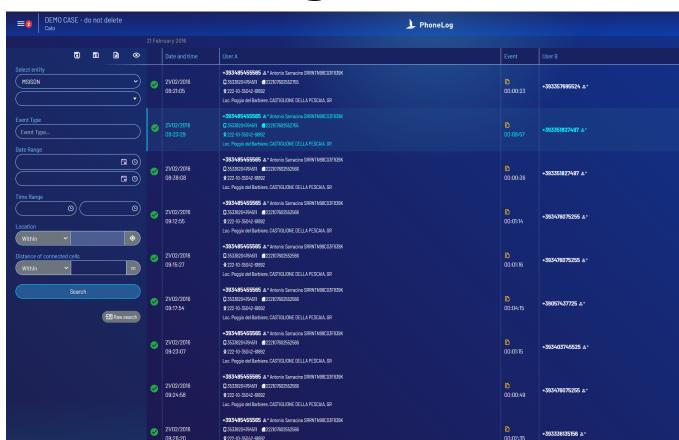
Links: Visual highlights of connections between users



Data validation and correlation: mobile extractions, CDR, GPS paths all together



Comprehensive rearch on records



# Figure out who is using stolen phones (carrier request)

Filter for the stolen IMEIs to check the «new» simcards that were used in these devices

Create list (TAG) of users/IMEI for blacklisted phone number, IMEI, IMSI, ... and use them as a filter



### **BTS TRACKER**

Survey the cell towers coverage (HARDWARE)



Base Transceiver Stations, the cell towers that surround us all, spread their signal everywhere, but not in a straight, fixed line.

Cell coverage twists and shifts, it is reflected and reversed. Like all environments, the digital one is subject to change.

#### This is BTS Tracker

Hold the device able to survey and absorb how every cell tower connects to a smartphone.

rdware module collects and charts where and how every cell tower spreads its see software organizes and maps your cell site surveys in an easy to understand walso looks out for daily signal changes creating a statistical real coverage scenarings, power, and location. The reality of BTS networks. **Bring your evidence to lig**Locate a smartphone more accurately: know where the coverage area really is.

Make your case map **real.** 

From a realistic outlook – **not a theoretical one** – locate your suspects and validate your criminal case.

The system that collects and analyzes the signal strength and coverage of cell towers where the scan is performed, **not intercepting communication**, but **defining the mobile environment**.

Go 360°: correlate real BTS cell site coverage analysis with your CDR phone record analytics. Locate a call in the area where its cell tower signal is really being spread – make your case map real.

Join your results with additional digital evidence and validate your criminal case.

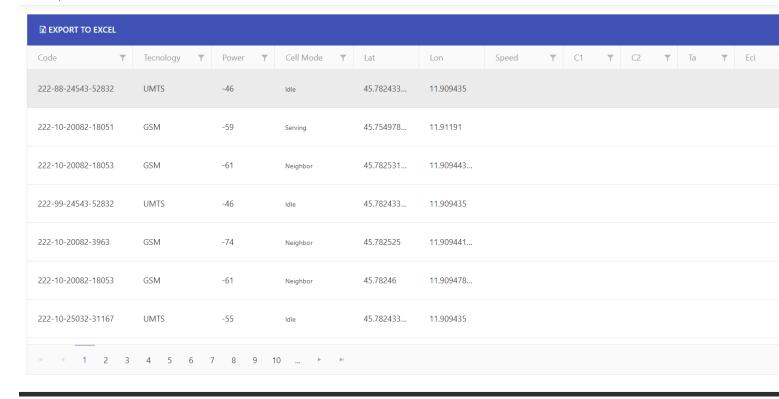
This is BTS Tracker and PhoneLog – This is SecurCube – This is your success.

=

Strada per andare a Lugano 1/27/2021



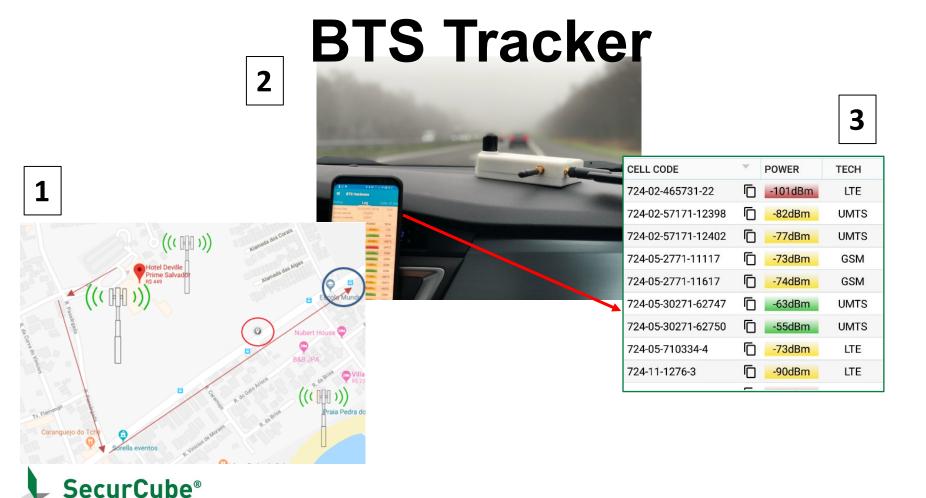
#### Cell tower list



≡ 2019-12-01 Beirut 12/2/2019 BTS Tracker

3D map of coverage for cell towers





### **CELL SERVICE**

Historical Cell tower informations



### **Cell Service**

The only Historical Cell Site Location Information data management and mapping engine



### **Cell Service**

- Information extracted from phone records is the starting point of every professional mobile forensics investigation.
- The who, the when, and the type of communication, the network of people in contact with each other.
- Phone records also list each cell tower too.
- Carriers supply Cell Lists of all the mobile antennas working in their infrastructure.
- And every cell tower is given a specific ID number.
- Just like us, each cell ID number has a profile, location, and history of any change of address.
- This gives you the power to map every event in your phone records.



### **Cell Service**

SecurCube Cell Service is the one-stop cell site information management system.

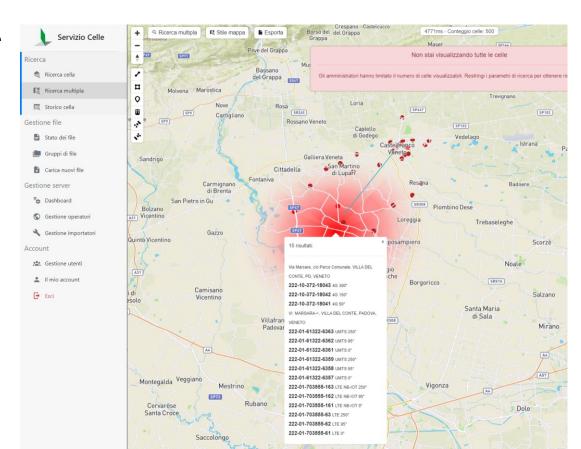
A fast, easy to use and complete interface that allows you to search for and map a case's mobile network infrastructure from carriers' data

#### Manage and visualize:

Installation

COVORDO

- Change of location or ID realignments
- Theoretical cell signal

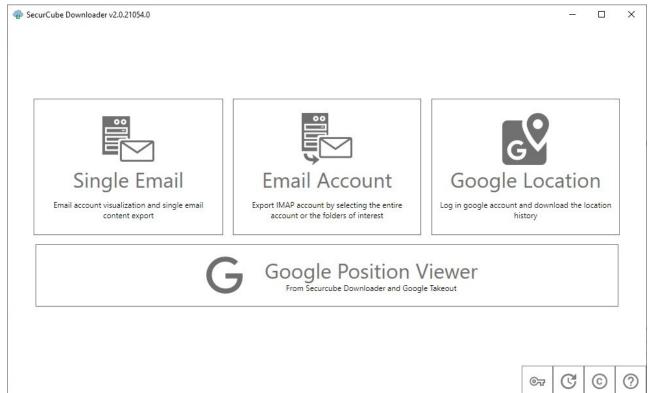


### SECURCUBE DOWNLOADER

Download emails & Google timeline in a forensically sound way



### Securcube Downloader



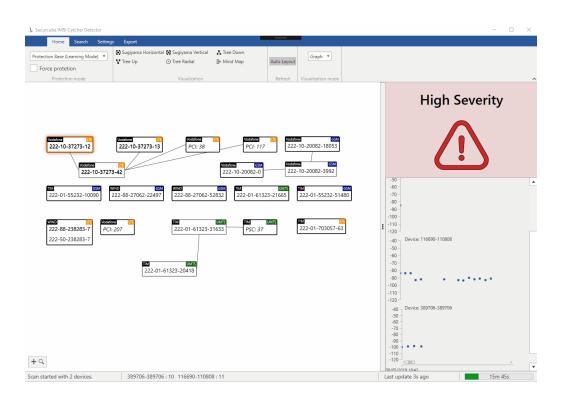


### **IMSI Catcher Detector**

Figure out if an IMSI Catcher is running in your area



### **IMSI Catcher Detector**





# Academic program

Colleges and Universities in EU/USA



### Thank you!

www.securcube.net

