| Feature | Standard | Analyst |
|---|---|---|
| Support for 7000+ mobile devices | Yes | Yes |
| Strong support for Android, Apple iOS, Blackberry, Symbian OS, Windows Mobile, Windows Phone 8, Bada and other smartphones | Yes | Yes |
| Cable/Bluetooth/IR connection | Yes | Yes |
| Oxygen Forensic (tm) Extractor running in background | Yes | Yes |
| Exports data to most popular formats | Yes | Yes |
| General data extraction (contacts, speed dials, caller groups, calendar, SMS, E-mail, calls, tasks, notes, Wi-Fi and 3G activity) | Yes | Yes |
| Geo event positioning – EXIF/XMP headers, Nokia LifeBlog | - | Yes |
| Deleted data | - | Yes |
| Web cache and bookmarks analyzer (various browsers supported) | - | Yes |
| User dictionaries | - | Yes |
| Web Connections and Location Services | - | Yes |
| Timeline & Geo Timeline for all phone events | - | Yes |
| Aggregated Contacts | - | Yes |
| Key Evidence | - | Yes |
| Passwords for applications | - | Yes |
| List of installed applications | - | Yes |
| Social Networks (Instagram, Facebook, Twitter, Foursquare, LinkedIn, VK etc) | - | Yes |
| Messengers (Skype, Touch, WhatsApp, Viber, Kik, Textie, Facebook, HeyTell etc) | - | Yes |
| Productivity (Dropbox, Evernote, Remember The Milk etc) | - | Yes |
| Multimedia (Hide it Pro, YouTube) | - | Yes |
| Travel (Booking.com, Tripit free, Skyscanner) | - | Yes |
| Advanced search in multiple devices running in background | - | Yes |
| Links & Stats for several devices – table and diagram | - | Yes |
| Physical analysis with Android Rooting add-on | - | Yes |
| Chinese Phones Support add-on | Yes | Yes |
| Apple DMG physical image parser and Apple iTunes backup reader (including password-protected backups) | - | Yes |
| Android physical image parser and backup reader | - | Yes |
| Apple Plist Viewer and SQLite databases Viewer with deleted data recovery options | - | Yes |
| Blackberry IPD backup Viewer (including password-protected backups) | - | Yes |
| Blackberry BBB backup reader (including password-protected backups) | - | Yes |
| Nokia PM Viewer | - | Yes |
| Price | FREE* | $2999 |

* Certification training is required during the first 6 months of use in order to receive a lifetime license

# Links and Stats in Oxygen Forensic Suite

Oxygen Forensic Suite introduces several statistical analysis tools offering forensic specialists the ability to quickly reveal social connections between users of mobile devices under investigation and their contacts. Links and Stats section provides a convenient tool to explore social connections between device owner and his contacts by analyzing calls, all kinds of messages and applications activities.
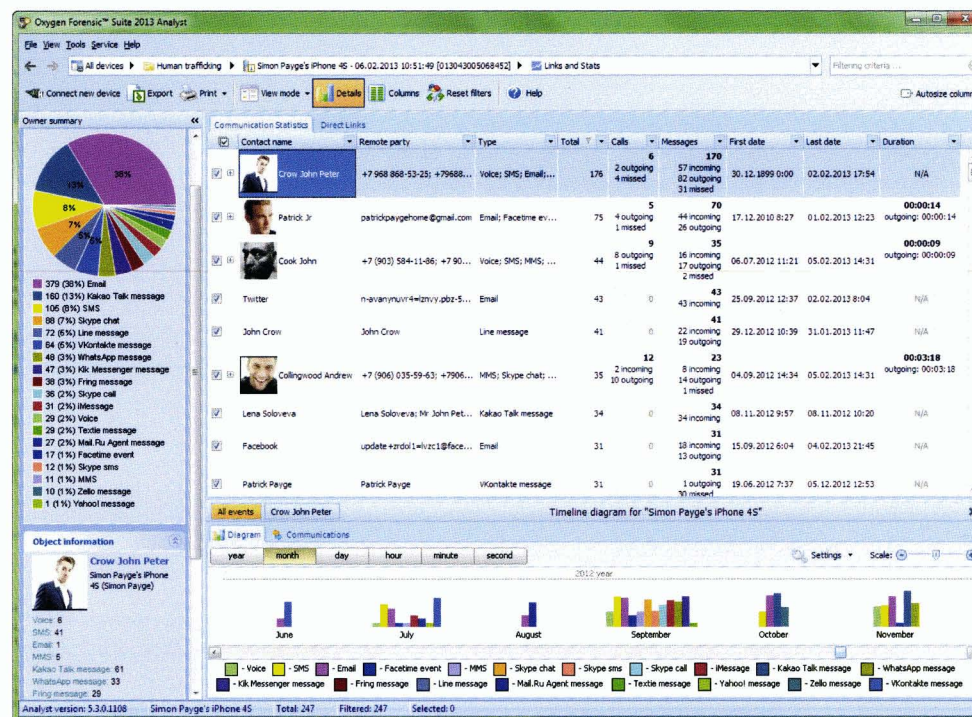


Table view presents in-depth analysis of communication including all contacts, phone numbers and remote parties along with communication duration and produces a concise summary of the forensically important data.

Switching to the diagram view with a graphical chart offers a quick overlook of communication circles, allowing forensic experts to determine and analyze the device user's communications with all details at a glance.
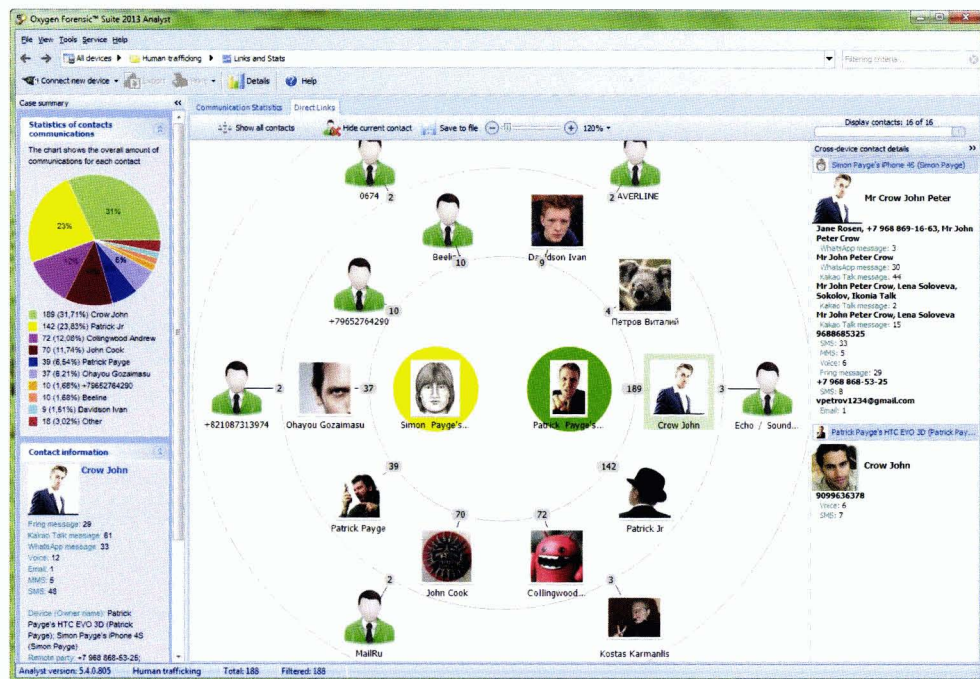
Oxygen Forensic Suite offers investigators the ability to analyze interactions among users of multiple seized mobile devices. The feature builds and displays a Direct Links diagram with a chart for multiple devices, clearly visualizing connections between the phones' users.



Central diagram matches records extracted from devices' phone and address books, applications contact lists building a visual chart and displaying contacts and remote parties with at least one shared entry. Right panel shows similar contacts with identical phone numbers, e-mail accounts or application contacts with the focused remote party, stored by users of multiple mobile devices and help clearly visualize communications and social connections among users of different mobile devices, allowing forensic specialists investigate criminal activities performed by groups.

Balloon near each entry indicates total number of communications between the device owners and this remote party.

By discovering and displaying matching records, Oxygen Forensic Suite provides investigators with at-a-glance view of various interactions, helping forensic specialists to discover connections between the users in just a few clicks.
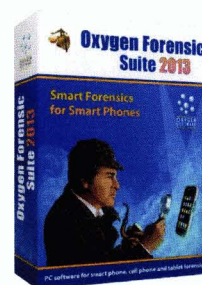
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## Oxygen Forensic Suite
## Smart Forensics for Smart Phones

PC software designed to extract the maximum information from smartphones, cell phones and other mobile devices for forensic purposes.

### Brief information:

- **Focus on smartphones.** Nowadays, the cell phone market has turned to smartphones. Oxygen Forensic Suite uses an innovative approach to extract more information from Android, Apple iOS, Blackberry, Symbian OS, Windows Mobile and other smartphones compared to competing tools.

- **Pioneer in geo-location data extraction.** Oxygen Forensic Suite was the first tool capable of extracting geo information from smartphones. Today, it remains a leader in this area.

- **First tool Android physical analysis.** The Android Rooting add-on for Oxygen Forensic Suite allows recovering the complete file system along with deleted data and full physical memory dump.

- **Extensive support for Chinese mobile phones.** The low end of the market is switching to inexpensive Chinese devices. We are constantly watching the market, adding support for a wide range of popular Chinese mobile phones.

- **More than 7000 device models supported.** We care about the quality, not quantity. There are tools touting a higher number, but you'll never find another tool offering comparable extraction, analysis, searching and reporting capabilities.

- **User data extraction from pre-installed and third-party smartphone applications.** A mobile phone is more than just a phone. Skype, Facebook, Twitter, Google services, Foursquare and other applications keep their own databases in a smartphone. Oxygen Forensic Suite extracts and parses this information, presenting the data in a convenient and well-organized way.

- **The Timeline section combines extracted events that having a timestamp into a single list.** Review all user activities at a glance in a single view. No need to switch between multiple windows to examine all of the suspect's activities during a specified time period.

- **Compatible with most popular mobile formats.** Oxygen Forensic Suite can load and parse data from Blackberry IPD, Blackberry BBB, Apple iTunes, Apple DMG, Nokia PM, SQLite databases, as well as Plist files.

- **Convenient analysis, exporting and reporting.** Oxygen Forensic Suite is designed specifically for forensic analysis, searching for evidence and reporting. The tool can either print reports or export them to one of the many popular file formats.

- **Deleted data extraction.** Oxygen Forensic Suite can recover deleted information from smartphones running popular systems such as Apple iOS, Android, Symbian etc.

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Physical acquisition is the most effective way for recovering deleted data from Android devices. It can be easily performed by Android Rooting Add-on that supports devices running Android OS 1.6 through 3.0.1. That covers more than 96% devices on the market.

Traces of deleted data can be found in SQLite databases stored in the mobile device and recovered with SQLite Database viewer.

## Symbian Series 60devices

Information on deleted SMS messages can be recovered from all Symbian OS smartphones except UIQ2 models with some restrictions:

- Messages must not be older than the number of days specified by the "Log duration" parameter in the System Log application (up to 30 days);
- Only part of message text can be read (up to 64 characters).

Deleted messages are shown in the "Messages" section, are highlighted with a different color and marked by the "recycle bin" icon.

## Windows Mobile devices

Traces of deleted SMS and MMS messages can be found in the cemail.vol file and viewed with a built-in HEX viewer in the File Browser section.

Information from deleted phonebooks and calendars is located in the pim.vol file and can be viewed with a built-in HEX viewer in the File Browser section.

## Series 40 devices (Series 40 Third Edition or higher)

Information on deleted SMS messages can be recovered from the phone log with some restrictions:

- Messages must not be older than the number of days specified by the "Log duration" parameter in the System Log (up to 30 days)
- Only recipient and time stamp information can be recovered; no text is available.

Parts of deleted messages can be also found in the MS_del.dat file and viewed with a built-in HEX viewer in the File Browser section.

## Series 30 and older Series 40 devices

Information on deleted messages can be stored (not guaranteed) in phone's EEPROM dump and analyzed with Nokia PM Viewer in Oxygen Forensic Suite 2013.
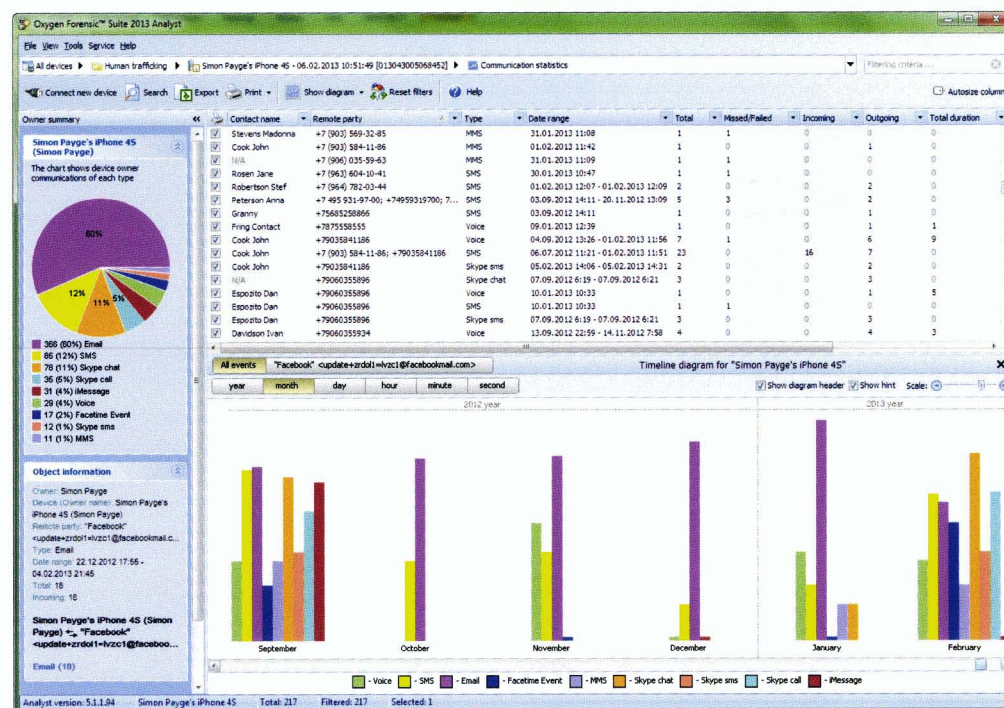
# It's all about the meaning

Oxygen Forensic Suite offers several statistical analysis tools giving forensic specialists the ability to quickly reveal activity of the devices owners as well as social connections between users of mobile devices under investigation and their contacts.



A graphical chart is available to display user activities for selected periods of time. The chart allows grouping all possible mobile device events over different time intervals (from one second to one year) and filtering them by various parameters.

The chart enables forensic experts to easily analyze detailed activities of a single contact or group of contacts at a glance.
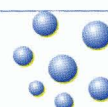
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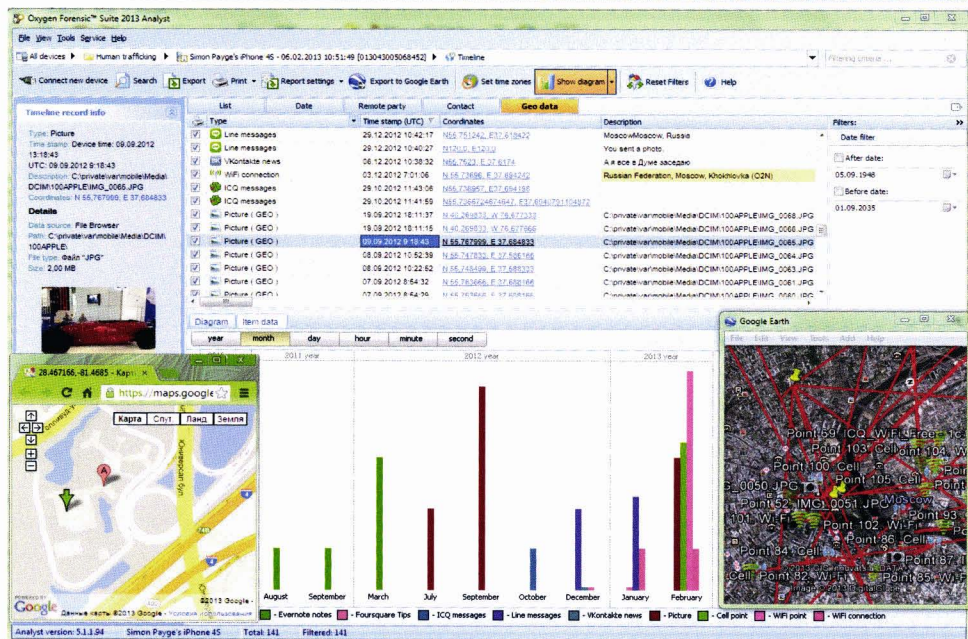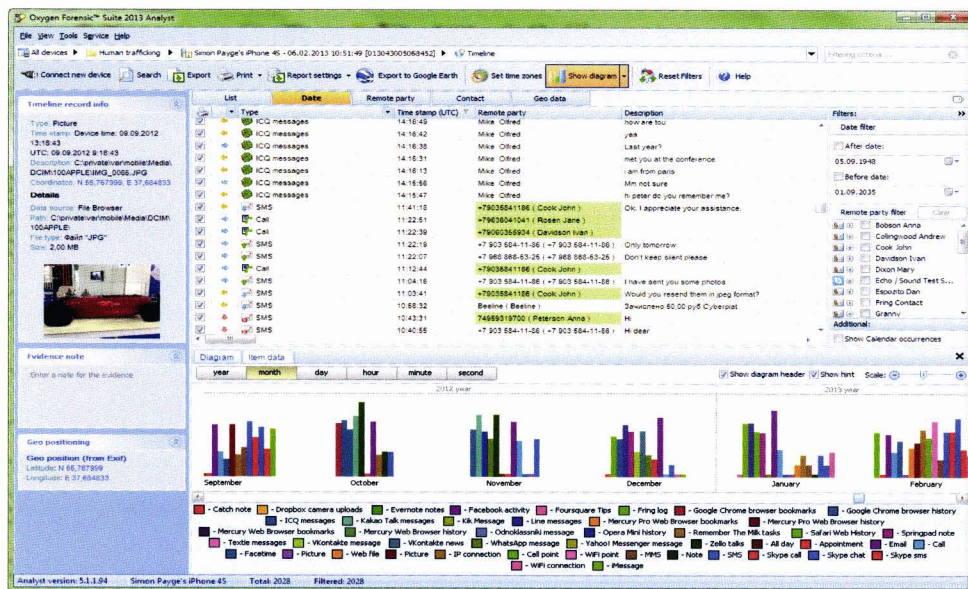901 N. Pitt St Suite 320
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# Deleted data retrieved by Oxygen Forensic Suite

Oxygen Forensic Suite 2013 is able to locate, extract and display information that was previously deleted by device users. The type and amount of available data depends on the particular platform of a mobile device.

## Apple iOS devices

Information on deleted SMS messages is stored in SMS.db or SMS.sqlite files that can be opened with SQLite Database viewer. Double-click on a file, click 'Recover deleted data', then click on 'All deleted data' and locate a cell that matches the 'Messages' row and 'Data' column. Deleted iMessages data is also stored in the same files.

Information on deleted calls is stored in the call_history.db file that can be opened with SQLite Database viewer in the File Browser section.

Deleted email messages can be viewed in the 'Envelope Index' file (the file has no extension). 'Envelope Index' is only accessible on jail broken devices.

Information on deleted email accounts is located in the /private/var/mobile/Library/Mail folder. Its subfolders are named with deleted accounts, and can be viewed in the File Browser section.

Information on deleted images is stored in *.ithmb databases for a certain period of time, and can be viewed under the Thumbnail tab in the File Browser section.

Deleted images of contacts are located in the AddressBookImages.sqlitedb file and can be opened with SQLite Database viewer in the File Browser section.

Traces of deleted data can be found in all SQLite databases stored in the mobile device and recovered with SQLite Database viewer.

## Android OS devices

Information on deleted SMS messages is stored in the mmssms.db file that can be found in the File Browser section and opened with SQLite Database viewer. This database is accessible on rooted devices only.

Deleted Android device logs containing traces of SMS, MMS and application messages with names and phone numbers are stored in the logs.db file that can be opened with SQLite Database viewer in the File Browser section.

...and it's not just about the data