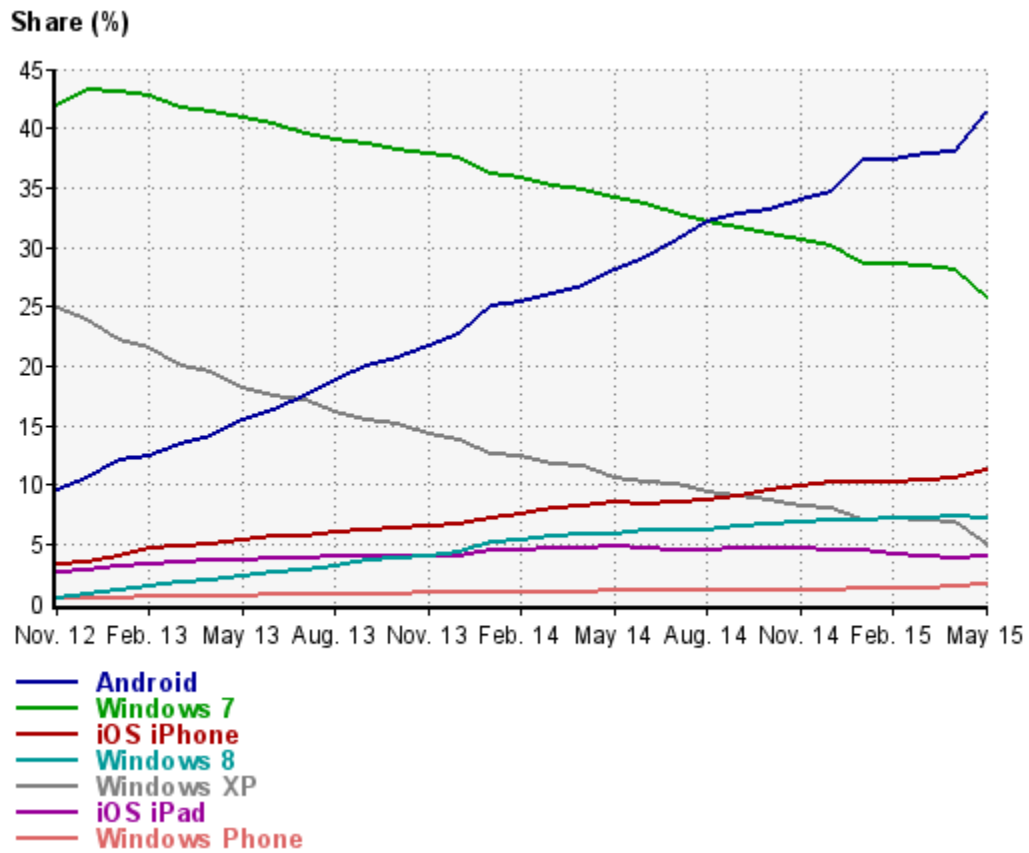


Chapter 1: Introducing Mobile Forensics



Time Spent on Mobile Devices and TV

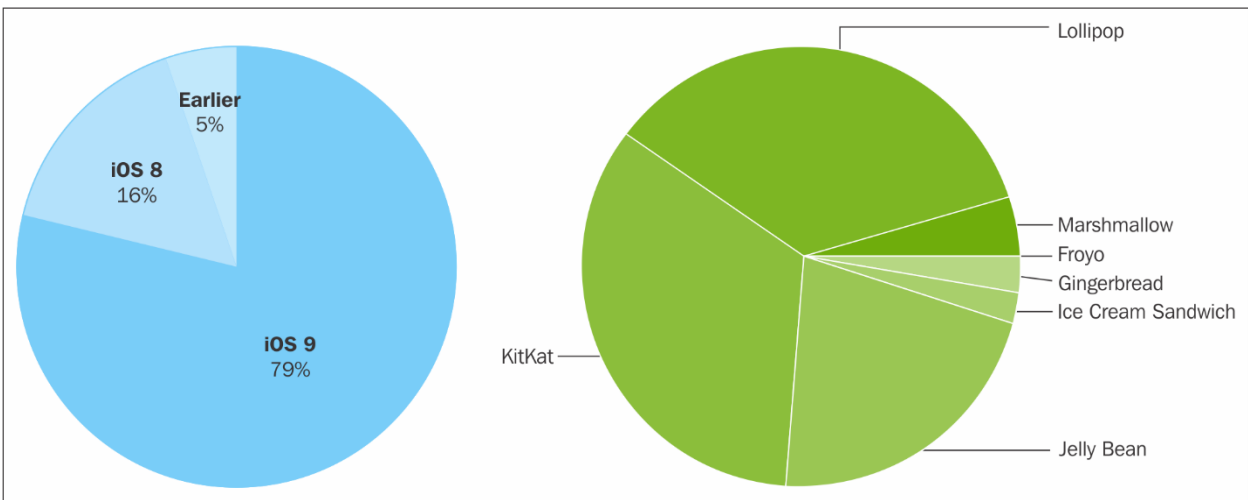
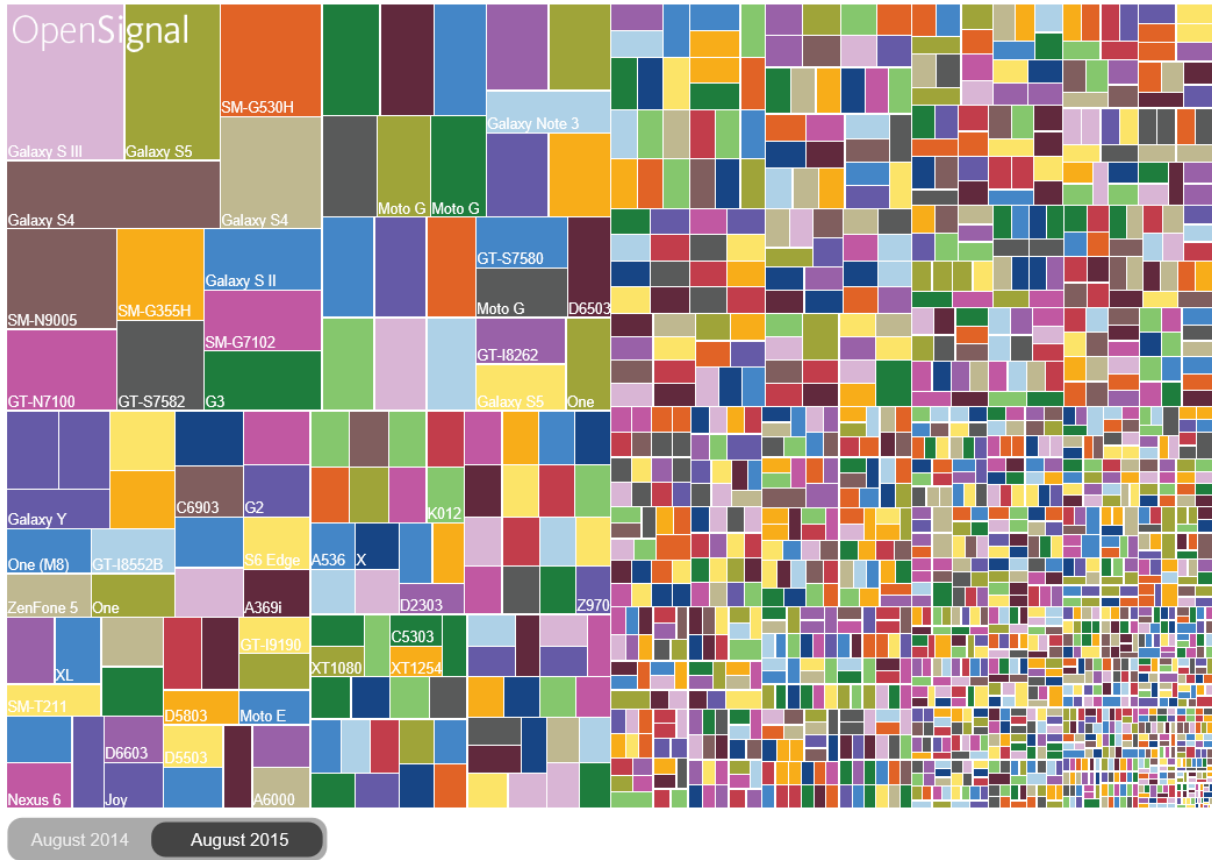
US Daily Average (Min)





Chapter 3: Acquisition – Approaching Android Devices

DEVICE FRAGMENTATION



Developer options

On



Enable Bluetooth HCI snoop log

Capture all bluetooth HCI packets in a file



OEM unlocking

Allow the bootloader to be unlocked



Running services

View and control currently running services

Debugging

USB debugging

Debug mode when USB is connected



Revoke USB debugging authorizations

Bug report shortcut

Show a button in the power menu for taking a bug report



Select mock location app

No mock location app set

Enable view attribute inspection





Use USB for

- Charging
Just charge this device
- File transfers
Transfer files to Windows or Mac (MTP)
- Photo transfer (PTP)
Transfer photos or files if MTP is not supported (PTP)
- MIDI
Use device for MIDI input

CANCEL

World Chef
socialpoint

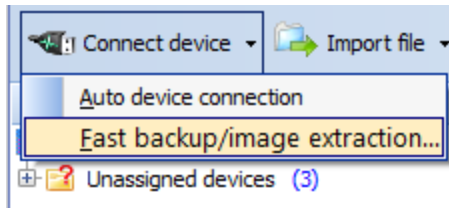
4.3 ★

Genies & Gems
SGN

4.4 ★

Traffic Rid
Soner Kara

4.8 ★








Oxygen Forensic® Extractor v.8.0.3.199




Oxygen Forensic® Extractor

Select a type of device backup or physical image



-  **iTunes backup**
Acquire iTunes backup from iOS device
-  **Android physical image** Need root access
Acquire physical image from Android OS device
-  **Android backup** Android OS v.4.0 and higher
Acquire backup from Android OS device
-  **MTK Android physical image**
Acquire physical image from MTK Android OS device
-  **LG Android physical image**
Acquire physical image from LG Android OS devices using Devices Firmware Update mode

 Help

< Back

Next >

Cancel

Oxygen Forensic® Extractor

Detection of devices connected via cable



Connecting Android device...

Searching for devices via USB cable. It may take some time...





Warning! The data is being extracted from the device right now. Do not disconnect it or make any changes to the device.

 Help

Finish

← Developer options

On 

Capture all bluetooth HCI packets in a file 


OEM unlocking 
Allow the bootloader to be unlocked

Allow USB debugging?

The computer's RSA key fingerprint is:
B4:34:F0:92:FC:FD:89:48:1C:9C:11:8E:
2D:D8:29:66

Always allow from this computer

CANCEL OK

Bug report shortcut 
Show a button in the power menu for taking a bug report

Select mock location app
No mock location app set

Enable view attribute inspection 



No phone / tablet connected

[How to connect](#)
[Update phone / tablet](#)

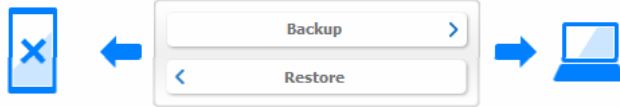
Quick launch area: Drag and drop applications to this area to add a shortcut.

[Back](#)



Backup and restore

[Settings](#)





































No phone / tablet connected

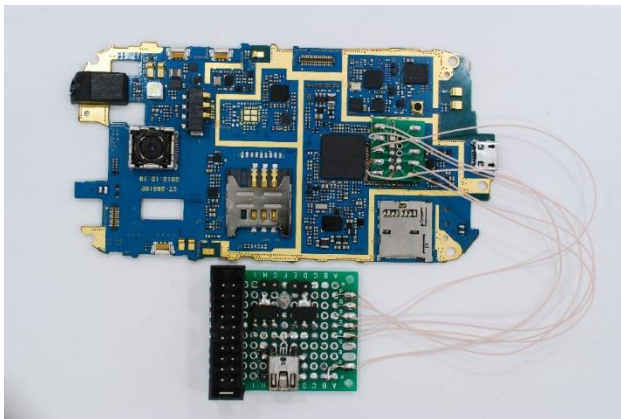
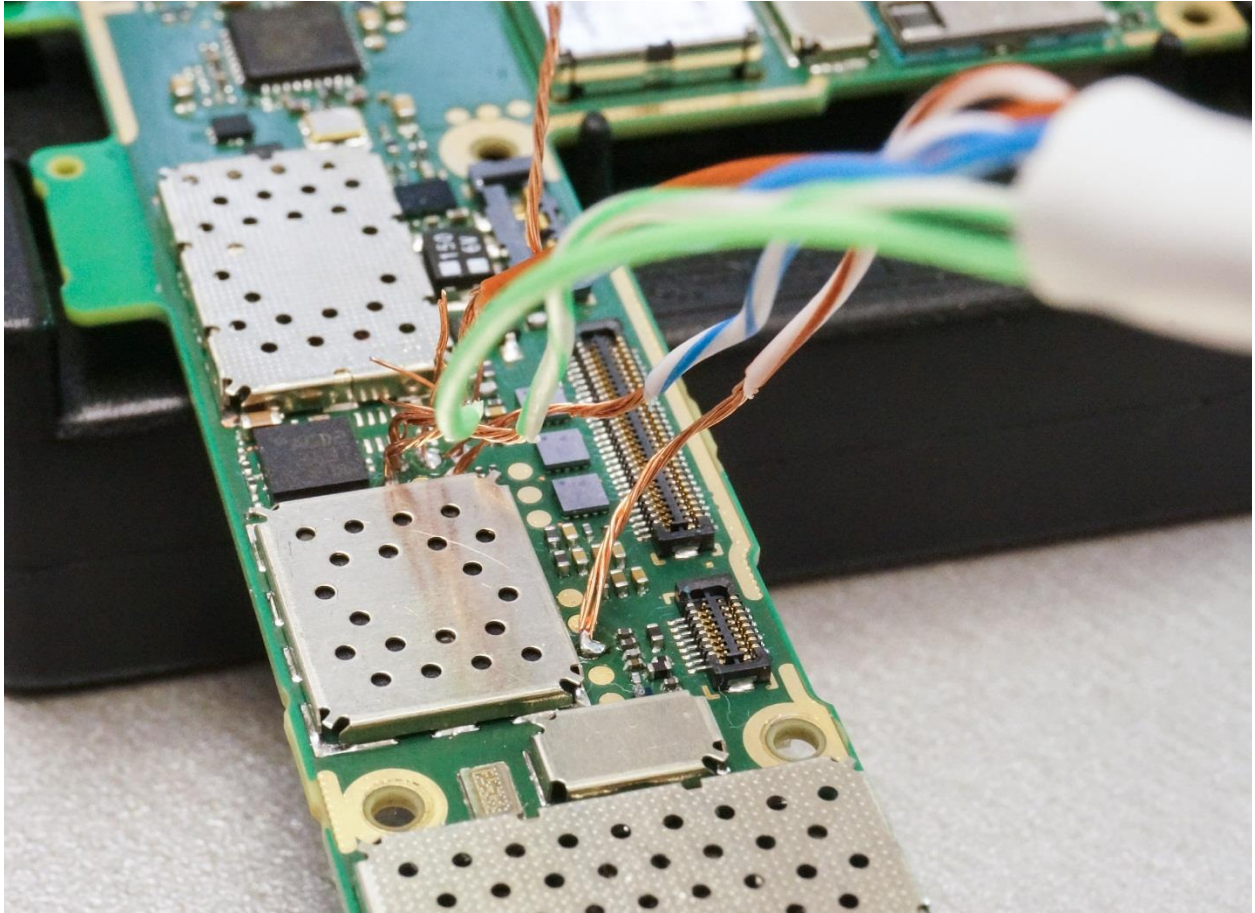
Phone / tablet backups (25.7 KB)

T715 (18-Jul-11 - 25.7 KB)

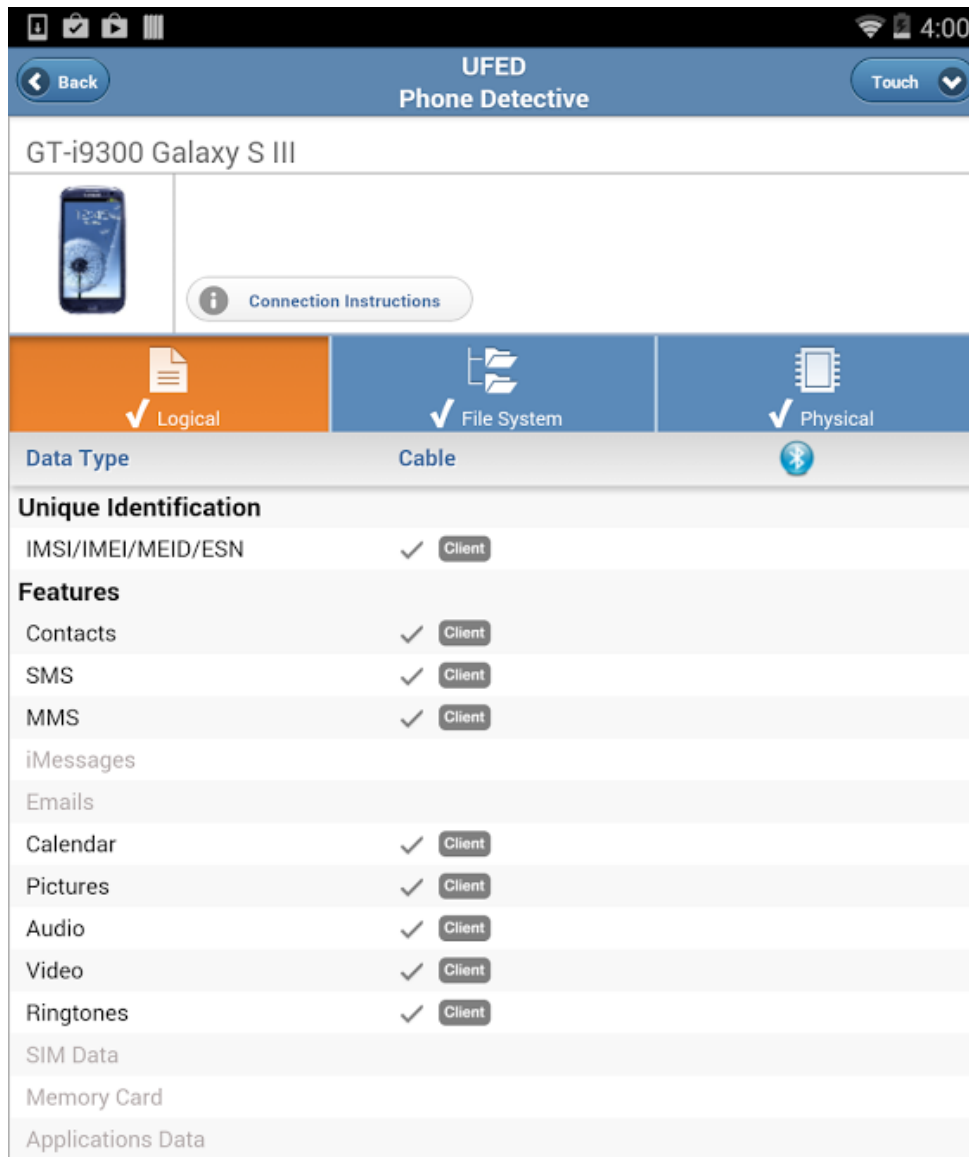
+ ✎ ✕

Rules (found in settings)
Remind me to backup my phone / tablet every 2 weeks.

Name	Date modified	Type	Size
 com.ironhidegames.android.kingdomrus...	02-Dec-15 23:44	ABU1 File	27,878 KB
 com.jackthakar.sflauncher.abu1	03-Dec-15 3:20	ABU1 File	8,358 KB
 com.jm.android.frequencygenerator.abu1	03-Dec-15 5:23	ABU1 File	985 KB
 com.levelup.beautifulwidgets.abu1	03-Dec-15 5:19	ABU1 File	13,895 KB
 com.m4rk3t.libcopy2.abu1	03-Dec-15 4:46	ABU1 File	14,773 KB
 com.microsoft.amp.apps.bingnews.abu1	03-Dec-15 3:26	ABU1 File	10,384 KB
 com.microsoft.msa.authenticator.abu1	02-Dec-15 23:53	ABU1 File	5,002 KB
 com.microsoft.office.officelens.abu1	03-Dec-15 3:34	ABU1 File	38,308 KB
 com.microsoft.office.onenote.abu1	03-Dec-15 2:26	ABU1 File	34,449 KB
 com.microsoft.office.outlook.abu1	03-Dec-15 3:18	ABU1 File	14,378 KB
 com.microsoft.skydrive.abu1	03-Dec-15 4:28	ABU1 File	28,122 KB
 com.momocode.shortcuts.abu1	02-Dec-15 23:44	ABU1 File	598 KB
 com.mxtech.videoplayer.pro.abu1	03-Dec-15 1:47	ABU1 File	13,890 KB
 com.noinnion.android.greader.readerpro...	03-Dec-15 4:09	ABU1 File	112,978 KB
 com.nomotorola.MotGallery2.abu1	02-Dec-15 23:08	ABU1 File	22,463 KB
 com.nuance.swype.dtc.abu1	03-Dec-15 5:28	ABU1 File	26,405 KB
 com.opera.browser.abu1	03-Dec-15 3:12	ABU1 File	54,008 KB
 com.painless.pc.abu1	02-Dec-15 23:44	ABU1 File	535 KB
 com.paragon.tcplugins_ntfs_ro.abu1	02-Dec-15 22:29	ABU1 File	3,542 KB
 com.pzolee.android.localwifispeedtester....	02-Dec-15 23:06	ABU1 File	4,281 KB
 com.quoord.tapatalkpro.activity.abu1	03-Dec-15 2:44	ABU1 File	18,281 KB
 com.rarlab.rar.abu1	03-Dec-15 2:39	ABU1 File	3,900 KB
 com.rovio.angrybirdsspaceHD.ads.ultima...	03-Dec-15 0:32	ABU1 File	48,816 KB
 com.sgg.archipelago.abu1	03-Dec-15 3:20	ABU1 File	2,292 KB
 com.sika524.android.quickshortcut.abu1	03-Dec-15 5:28	ABU1 File	1,330 KB
 com.sikebo.materialistik.material.icons.ab...	02-Dec-15 23:28	ABU1 File	18,522 KB
 com.simosphere.robotic.abu1	03-Dec-15 5:28	ABU1 File	9,657 KB
 com.skype.raider.abu1	03-Dec-15 5:30	ABU1 File	33,991 KB
 com.smophix.phix.abu1	02-Dec-15 23:34	ABU1 File	16,393 KB
 com.tippingcanoe.mydealz.abu1	03-Dec-15 4:17	ABU1 File	6,506 KB
 com.touchtype.swiftkey.beta.abu1	02-Dec-15 22:35	ABU1 File	40,879 KB
 com.tung91.meeuihd.abu1	03-Dec-15 3:16	ABU1 File	38,095 KB
 com.ubisoft.adventure.valiant_hearts_ggt...	02-Dec-15 22:30	ABU1 File	46,545 KB
 com.vectorunit.red.lunar.abu1	03-Dec-15 2:30	ABU1 File	55,104 KB
 com.vertumus.rewun.abu1	03-Dec-15 5:35	ABU1 File	24,655 KB



Chapter 4: Practical Steps to Android Acquisition



Firmware Update



Do not unplug the USB connection
until the process is complete.

0%

```
USER 50.0 A50.0 B48 UHS  
S U LG-H955 05.1.1 Hrev_10  
H95515m
```





Oxygen Forensics

Oxygen Forensic® Analyst Educational

File View Tools Service Help

All devices Filtering criteria ...


Connect device Import file Open case Save to archive Analytical tasks Export Print Help

Devices and Cases	Device	Extraction	Owner	Notes
-------------------	--------	------------	-------	-------

Oxygen Forensic® Extractor v.8.0.3.199

Oxygen Forensic® Extractor

Oxygen Forensic® Extractor helps to connect and extract data from device.



Connection Mode

Please select one of connection modes:

- Auto device connection**
Auto mode connects the first device detected on PC.
- Manual device selection**
Manual selection mode allows to choose connection type and device model from the list.
- Physical data acquisition**
[MTK Android dump](#) [LG Android dump](#)
No rooting is required. Lock screen is bypassed.
The method may take a bit more time than physical dump via rooting.

Educational version:

Help Cancel

View Downloads - Internet Explorer

View and track your downloads

Name	Location	Actions
LGMobileDrive....exe 18d5a.wpc.azureedge.net	12.3 MB	Do you want to run or save this program? Run Save

- Save
- Save as
- Save and run

SmartScreen Filter is turned off. [Turn on](#)

Options

Oxygen Forensic® Extractor

Connection instructions for LG Android devices



How to switch LG device to Device Firmware Update mode:

1. Make sure you have standard [LG Android driver](#) (comes with our driver pack) installed
2. Connect USB cable to the PC. Do not attach it to the device.
3. Switch off the device. Hold VolUp button on the device and attach USB cable to the device.
4. Release VolUp button when Download message or LG logo appears on the screen (depends on the device model).
5. Wait several seconds until the device is in a Firmware Update mode. If it is still not in the required mode please repeat the procedure from Step 2.

Yes, I've followed the instructions.

 Help

< Back

Next >

Cancel



Device Setup

Installing device...



Please wait while Setup installs necessary files on your system. This may take several minutes.



Close

Oxygen Forensic® Extractor

Detection of devices connected via cable



Connect device via cable

Searching for devices via USB cable. It may take some time...



Searching for a device... Please wait.



 Help

< Back

Next >

Cancel

Oxygen Forensic® Extractor

Detection of devices connected via cable



Connect device via cable

Device is connected successfully!

Press **Next** to create LG Android physical image. Press **Cancel** to abort the operation.

Device information:



Model:	LG-H955
IMEI:	358379060080021
Hardware Revision:	LGH955AT-00-V 15c-EUR-XX-SEP-28-2015+0
Software Revision:	N/A

Choose a folder to save LG Android physical image

Destination folder:

D:\Temp\LG dumps\2016-01-20 12-55-31 358379060080021\

Help

Next >

Cancel



Oxygen Forensics

Oxygen Forensic® Extractor v.8.0.3.199

Oxygen Forensic® Extractor
Wait while the data is being extracted from the device



Processing physical dump
Physical dump is being created...

732.07 MB of 14.56 GB
14.54 MB/sec

Estimated time: **00:16:15**

Warning! The data is being extracted from the device right now. Do not disconnect it or make any changes to the device.

Help Cancel

Oxygen Forensic® Extractor

Select a type of device backup or physical image



iTunes backup

Acquire iTunes backup from iOS device



Android physical image

Need root access

Acquire physical image from Android OS device



Android backup

Android OS v.4.0 and higher

Acquire backup from Android OS device



MTK Android physical image

Acquire physical image from MTK Android OS device



LG Android physical image

Acquire physical image from LG Android OS devices using Devices Firmware Update mode

Help

< Back

Next >

Cancel

Oxygen Forensic® Extractor

Connection instructions for MTK Android devices



How to connect MTK Android device:

1. Check if the device battery is fully charged.
2. **Switch off the device.**
3. **Make sure that the device is not connected via USB cable to PC.**

Yes, I've followed the instructions.

 Help


< Back

Next >


Cancel



Oxygen Forensic® Extractor v.8.0.3.199

Oxygen Forensic® Extractor
Detection of devices connected via cable


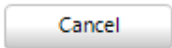


Connecting MTK Android device...

 Now connect USB cable to device.



Warning! The data is being extracted from the device right now. Do not disconnect it or make any changes to the device.

 Help  Cancel



EXCLUSIVE
CELLEBRITE ENHANCES UNIQUE BOOTLOADER METHOD
LOCK BYPASS SOLUTION FOR THE MOBILE DEVICES YOU NEED THE MOST!

eMMC RAW Tool v1.4.0.0

<input checked="" type="checkbox"/>	#	Name	Start Address	End Address	Length (bytes)

Drive: Refresh

Read: Read Full Image, Read Partition Structure, Show Partition Gaps, Read Selected Partitions

Write: Write Full Image, Load Partition Structure, Show Partition Gaps, Write Selected Partitions


Start Address: 0x 0000000000000000, Length: 0x 0000000000000000

Presets: Read

JAKET / HOODIE UNBRICKANDROID.COM

BAHAN FLEECE - SABLON RUBBER - DESIGN ANDROID - KEREN & STYLISH

087714774048 - 081322382107



Status: Drives refreshed | Address: 0x0000000000000000 | Partition: - | Speed: 0 MB/s | Progress: 0 %

<input checked="" type="checkbox"/>	#	Name	Start Address	End Address	Length (bytes)
<input checked="" type="checkbox"/>	1	MBR-GPT-OTHER	0x0000000000000000	0x0000000000004200	0x0000000000004400
<input checked="" type="checkbox"/>	2	MISC	0x0000000000004400	0x0000000000004A00	0x0000000000000800
<input checked="" type="checkbox"/>	3	FSC	0x0000000000004C00	0x0000000000004E00	0x0000000000000400
<input checked="" type="checkbox"/>	4	SSD	0x0000000000005000	0x0000000000006E00	0x0000000000002000
<input checked="" type="checkbox"/>	5	DBI	0x0000000000007000	0x000000000000EE00	0x0000000000008000
<input checked="" type="checkbox"/>	6	DDR	0x0000000004000000	0x0000000004007E00	0x0000000000008000
<input checked="" type="checkbox"/>	7	MODEM	0x0000000004008000	0x0000000008007E00	0x0000000004000000
<input checked="" type="checkbox"/>	8	RPM	0x000000000C000000	0x000000000C07FE00	0x0000000000080000
<input checked="" type="checkbox"/>	9	TZ	0x000000000C080000	0x000000000C0FFE00	0x0000000000080000
<input checked="" type="checkbox"/>	10	SBL1	0x000000000C100000	0x000000000C17FE00	0x0000000000080000
<input checked="" type="checkbox"/>	11	MODEMST1	0x000000000C180000	0x000000000C2FFE00	0x0000000000180000
<input checked="" type="checkbox"/>	12	MODEMST2	0x000000000C300000	0x000000000C47FE00	0x0000000000180000
<input checked="" type="checkbox"/>	13	FSG	0x0000000010000000	0x000000001017FE00	0x0000000000180000
<input checked="" type="checkbox"/>	14	PERSIST	0x0000000010180000	0x000000001217FE00	0x0000000002000000
<input checked="" type="checkbox"/>	15	ABOOT	0x0000000014000000	0x00000000141FFE00	0x0000000002000000
<input checked="" type="checkbox"/>	16	BOOT	0x0000000018000000	0x00000000189FFE00	0x000000000A000000
<input checked="" type="checkbox"/>	17	RECOVERY	0x0000000018A00000	0x00000000193FFE00	0x000000000A000000
<input checked="" type="checkbox"/>	18	SYSTEM	0x0000000019400000	0x00000000993FFE00	0x0000000080000000
<input checked="" type="checkbox"/>	19	CACHE	0x0000000099400000	0x00000000FFA66200	0x0000000066666400
<input checked="" type="checkbox"/>	20	USERDATA	0x00000000FFA66400	0x00000000747BFBC00	0x00000000648195A00

Drive: PHYSICALDRIVE1 Refresh

Description =
Manufacturer =
Media Type = External hard disk media
Model = Qualcomm MMC Storage USB Device
Size = 31268536320 Bytes

Read: Read Full Image, Read Partition Structure, Show Partition Gaps, Read Selected Partitions

Write: Write Full Image, Load Partition Structure, Show Partition Gaps, Write Selected Partitions

Start Address: 0x 0000000000000000, Length: 0x 0000000000000000

Presets: Read

2015-12-17--03-05-06_MPE24.49-18

File Home Share View

TA99301LQ3 > 2015-12-17--03-05-06_MPE24.49-18 Search 2015-12-17--03-05...

Name	Date modified	Type	Size
boot.emmc.win	17-Dec-15 9:05	WIN File	10,200 ...
boot.emmc.win.md5	17-Dec-15 9:05	MD5 File	1 KB
data.f2fs.win000	17-Dec-15 9:12	WIN000 File	1,592,0...
data.f2fs.win000.md5	17-Dec-15 9:17	MD5 File	1 KB
data.f2fs.win001	17-Dec-15 9:14	WIN001 File	1,565,8...
data.f2fs.win001.md5	17-Dec-15 9:18	MD5 File	1 KB
data.f2fs.win002	17-Dec-15 9:17	WIN002 File	1,419,1...
data.f2fs.win002.md5	17-Dec-15 9:19	MD5 File	1 KB
data.info	17-Dec-15 9:17	INFO File	1 KB
efs1.emmc.win	17-Dec-15 9:19	WIN File	1,536 KB
efs2.emmc.win	17-Dec-15 9:19	WIN File	1,536 KB
system.ext4.win000	17-Dec-15 9:07	WIN000 File	1,567,5...
system.ext4.win000.md5	17-Dec-15 9:09	MD5 File	1 KB
system.ext4.win001	17-Dec-15 9:08	WIN001 File	810,697...
system.ext4.win001.md5	17-Dec-15 9:09	MD5 File	1 KB
system.info	17-Dec-15 9:08	INFO File	1 KB

16 items

Name	Size	Packed Size	Modified	Mode	User	Group	Folders	Files
app	819 484 3...	819 610 1...	2015-12-1...	drwxrwx--x	system	system	130	340
app-asec	0	0	1970-01-0...	drwx-----	root	root	0	0
app-lib	0	0	1970-01-0...	drwxrwx--x	system	system	0	0
app-private	0	0	1970-01-0...	drwxrwx--x	system	system	0	0
bootchart	0	0	1970-01-0...	drwxr-xr-x	shell	shell	0	0
data	773 055 2...	782 831 1...	2015-12-1...	drwxrwx--x	system	system	2 120	26 419
dontpanic	65 809	66 560	1970-01-0...	drwxr-x--	root	log	0	2
local	217	2 048	1970-01-0...	drwxr-x--x	root	root	4	4
misc	1 391 708	1 424 896	2015-12-1...	drwxrwx--t	system	misc	32	80
app	52	512	2015-12-1...	drwxrwx--x	system	system		
app-asec	54	512	1970-01-0...	drwx-----	root	root		
app-lib	55	512	1970-01-0...	drwxrwx--x	system	system		
app-private	60	512	1970-01-0...	drwxrwx--x	system	system		
bootchart	58	512	1970-01-0...	drwxr-xr-x	shell	shell		
data	55	512	2015-12-1...	drwxrwx--x	system	system		
dontpanic	54	512	1970-01-0...	drwxr-x--	root	log		
local	55	512	1970-01-0...	drwxr-x--x	root	root		
misc	55	512	2015-12-1...	drwxrwx--t	system	misc		

0 object(s) selected

Oxygen Forensic® Extractor

Choose device data extraction or backup import



Live device acquisition

Connect device and extract data



Fast backup/image extraction

Create device backup or image



iTunes backup

iTunes backups made from any Apple devices



Apple backup/image

Apple iOS physical image/logical backup



iCloud backup

Apple device backup from the cloud



Oxygen Cloud backup

Oxygen Forensic® Cloud Extractor backup file



Windows Phone backup

Windows Phone backup from the cloud



Oxygen backup

Oxygen Forensic® Analyst backup files



Android backup/image

Android OS physical image/logical backup



BlackBerry 10 backup

BlackBerry 10 backup file



BlackBerry 10 chip-off image

BlackBerry 10 chip-off image



BlackBerry backup

BlackBerry backup file



Nokia backup

Nokia backup file



Windows Phone 8 JTAG image

Windows Phone 8 JTAG image

 Help

Next >

Cancel

Oxygen Forensic® Extractor

Choose Android image type you want to import



Android backup

Import Android backup



Android physical image

Import Android physical/JTAG image



UFED physical image

Import UFED physical image



UFED file system backup

Import UFED file system backup



File system tarball/zip

Import file system tarball/zip



File system image folder

Import file system image folder



Nandroid backup (CWM)

Import Nandroid backup (CWM)



Nandroid backup (TWRP)

Import Nandroid backup (TWRP)



Help

< Back

Next >

Cancel

Oxygen Forensic® Extractor

Browse for a folder which contains files for importing (Nandroid TWRP backup)



- Desktop
- Dropbox
- OneDrive
- Oleg Afonin
- This PC
- Libraries
- CORSAIR (G:)
 - Nexus 6
 - Nexus 9
 - TWRP
 - BACKUPS
 - TA99301LQ3
 - 2015-12-17--03-05-06_MPE24.49-18
 - BusyBox-Android_M.zip
 - SuperSU-v2.62-3-20151211162651.zip
- Removable Disk (J:)
- USB Drive (I:)
- USB Drive (K:)
- Network
- Homegroup
- Control Panel
- Recycle Bin
- All Control Panel Items
- Berlin Attractions

Enter path: G:\TWRP\BACKUPS\TA99301LQ3\2015-12-17--03-05-06_MPE24.49-18\

Help

< Back

Next >

Cancel

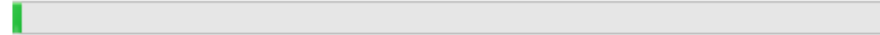
Oxygen Forensic® Extractor

Importing G:\TWRP\BACKUPS\TA99301LQ3\2015-12-17--03-05-06_MPE24.49-18\



Data extraction from Android backup

Extracting data from G:\TWRP\BACKUPS\TA99301LQ3\2015-12-17--03-... \system.ext4.win000



/system/system/app/Books/oat/arm/Books.odex

 Help

Cancel

Oxygen Forensic® Analyst Educational

File View Tools Service Help


← → All devices > Unassigned devices > Nandroid TWRP (2015-12-17--03-05-06_MPE24.49-18) - 22-Jan-16 11:14:37 [Unknown]

Connect device Import file Open case Save to archive Analytical tasks Export Print View mode Help

Devices and Cases

- All devices
 - Unassigned devices (2)
 - Android Backup (backup)
 - Nandroid TWRP (2015-12-17--03-05-06_MPE24.49-18)**
 - Device Information
 - Aggregated Contacts (720) (13)
 - Phonebook (614) (13)
 - Event Log (1)
 - Messages
 - Timeline (597)
 - File Browser (14881)
 - Organizer
 - Dictionaries (5)
 - Links and Stats
 - Social Graph
 - Search
 - Watch lists
 - Key Evidence
 - Reports
 - Applications (38)

Nandroid TWRP (2015-12-17--03-05-06_MPE24...

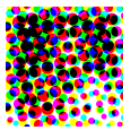


Add photo

Alias: Nandroid T...
Retail name: Android Na...
Internal name: Nandroid T...
Platform: Android OS
Acquisition type: Nandroid b...
Extracted by version: 8.0.3.199
Extraction started: 22-Jan-16...
Extraction finished: 22-Jan-16...




Enter note here

Oleg Afonin



Add photo

Full profile

Inspector: Oleg Afonin
Case: [Add case](#)...
Evidence number: [Add evidence](#)...
Owner: 
Mobile phone: 
Email: 

Enter owner note here

Common sections (15)

Device Information

Aggregated Contacts (720) (13)

Dictionaries (5)

Event Log (1)

File Browser (14881)

Key Evidence

Links and Stats

Messages

Organizer

Phonebook (614) (13)

Reports

Calendar (258)

Social Graph

Timeline (597)

Search

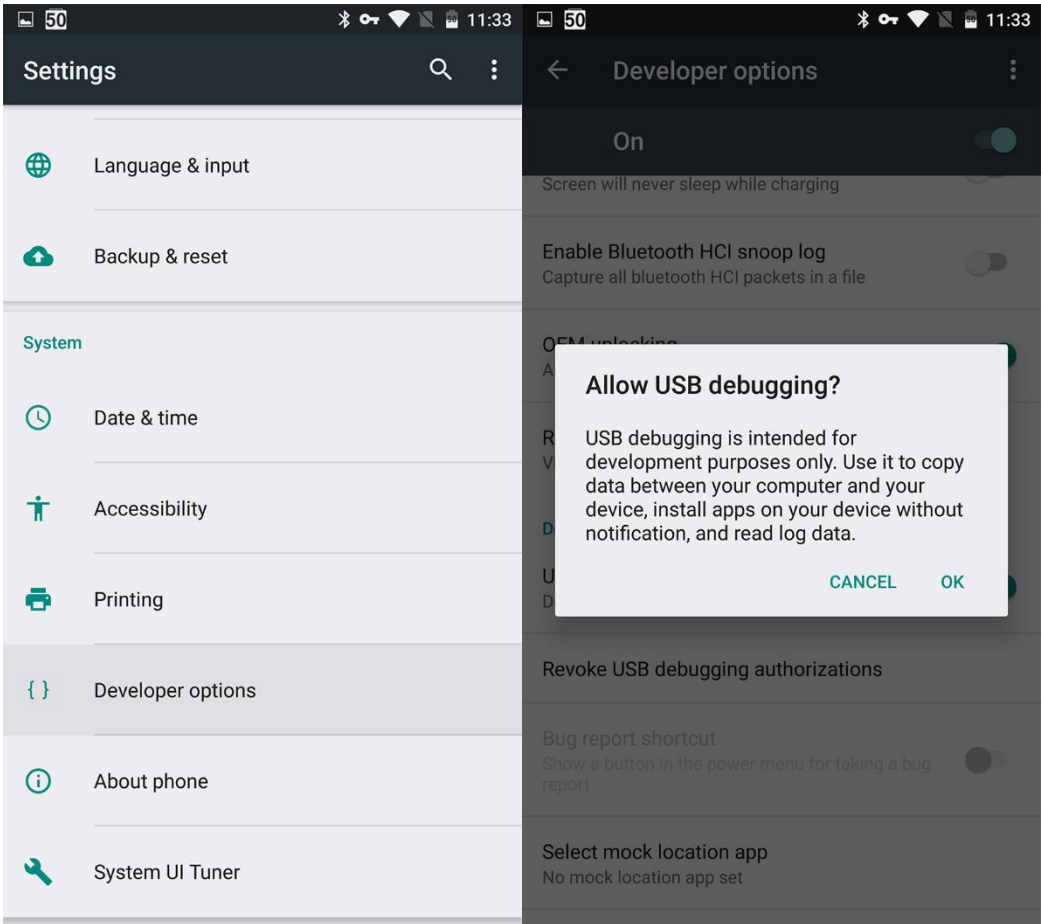
Watch lists

Applications (2)

Applications (38)

Messengers
[Skype](#) (451)

Educational version: 8.0.3.199 Expires in 191 days Case: None, Nandroid TWRP (2015-12-17--03-05-06_MPE24.49-18) [Unknown]



Developer options

On



Enable Bluetooth HCI snoop log

Capture all bluetooth HCI packets in a file



OEM unlocking

Allow the bootloader to be unlocked



Running services

View and control currently running services

Debugging

USB debugging

Debug mode when USB is connected



Revoke USB debugging authorizations

Bug report shortcut

Show a button in the power menu for taking a bug report



Select mock location app

No mock location app set

Enable view attribute inspection



```
C:\Windows\System32\cmd.exe
updated.
- If it is "system" or "data", only the corresponding partition
  is updated.
environmental variables:
  ADB_TRACE - Print debug information. A comma separated list
of the following values 1 or all, adb, sockets, packets, rwx, usb, sync
, sysdeps, transport, jdwp
  ANDROID_SERIAL - The serial number to connect to. -s takes prior
ity over this if given.
  ANDROID_LOG_TAGS - When used with the logcat option, only these de
bug tags are printed.
C:\Download\adb\ADB Drivers_Updated>adb devices
List of devices attached
C:\Download\adb\ADB Drivers_Updated>adb devices
List of devices attached
ZX1G5248PW device
C:\Download\adb\ADB Drivers_Updated>
```


Full backup

A full backup of all data to a connected desktop computer has been requested. Do you want to allow this to happen?

If you did not request the backup yourself, do not allow the operation to proceed.

If you wish to encrypt the full backup data, enter a password below:

DO NOT BACK UP

BACK UP MY DATA

Oxygen Forensic® Extractor

Select a type of device backup or physical image



iTunes backup

Acquire iTunes backup from iOS device



Android physical image

Need root access

Acquire physical image from Android OS device



Android backup

Android OS v.4.0 and higher

Acquire backup from Android OS device



MTK Android physical image

Acquire physical image from MTK Android OS device



LG Android physical image

Acquire physical image from LG Android OS devices using Devices Firmware Update mode

Help

< Back

Next >

Cancel



Oxygen Forensics

English

Oxygen Forensic® Analyst Educational

File View Tools Service Help

All devices Filtering criteria ...

Connect device Import file Open case Save to archive Analytical tasks Export Print Help

Devices and Cases	Device	Extraction	Owner	Notes
	There are no acquired devices			

- Import via Oxygen Forensic® Extractor...
- Import OFB backup...
- Import OCB backup...
- Import Apple backup/image
- Import Android backup/image**
 - Import Android backup...
 - Import Android physical/JTAG image...
- Import BlackBerry backup
- Import Nokia backup
- Import Windows Phone cloud backup...
- Import Windows Phone JTAG image...
- Import Apple iCloud backup...

Import file system tarball/zip...
Import file system image folder...
Import UFED file system backup...
Import UFED physical image...
Import android backup CWM...
Import android backup TWRP...

Educational version: 8.0.3.199 Expires in 193 days Total cases: 0, Total devices: 0

Oxygen Forensic® Analyst Educational

File View Tools Service Help


All devices > Unassigned devices > Android Backup (backup) - 22-Jan-16 11:49:11 [Unknown]

Connect device Import file Open case Save to archive Analytical tasks Export Print View mode Help

Devices and Cases

- All devices
 - Unassigned devices (2)
 - Android Backup (backup)
 - Device Information
 - Aggregated Contacts
 - Phonebook
 - Event Log
 - Messages
 - Timeline
 - File Browser (554)
 - Passwords (2)
 - Organizer
 - Dictionaries (5)
 - Links and Stats
 - Social Graph
 - Search
 - Watch lists
 - Key Evidence
 - Reports
 - Applications (57)
 - Nandroid TWRP (2015-12-17--03-05-06_MPE24.49-18)

Android Backup (backup)




[Add photo](#)

Alias	Android B...
Retail name	Android A...
Internal name	Android b...
Platform	Android OS
Acquisition type	Android b...
Extracted by version	8.0.3.199
Extraction started	22-Jan-1...
Extraction finished	22-Jan-1...

Enter note here

Unknown owner



[Add photo](#)

[Full profile](#)

Inspector: [Oleg Afonin](#)

Case: [Add case](#)

Evidence number: [Add evidenc...](#)

Owner: [Add owner](#)

Mobile phone: [Add mobile n...](#)

Email: [Add email](#)

Enter owner note here

Common sections (16)

- Device Information
- Event Log
- Links and Stats
- Passwords (2)
- Search
- Watch lists
- Aggregated Contacts
- File Browser (554)
- Messages
- Phonebook
- Social Graph
- Dictionaries (5)
- Key Evidence
- Organizer
- Reports
- Timeline

Applications (1)

- Applications (57)

Educational version: 8.0.3.199 Expires in 191 days Case: None, Android Backup (backup) [Unknown]

Oxygen Forensic® Extractor

Select a type of device backup or physical image



iTunes backup

Acquire iTunes backup from iOS device



Android physical image

Need root access

Acquire physical image from Android OS device



Android backup

Android OS v.4.0 and higher

Acquire backup from Android OS device



MTK Android physical image

Acquire physical image from MTK Android OS device



LG Android physical image

Acquire physical image from LG Android OS devices using Devices Firmware Update mode

 Help

< Back

Next >

Cancel

Developer options

On



Enable Bluetooth HCI snoop log

Capture all bluetooth HCI packets in a file



OEM unlocking

Allow the bootloader to be unlocked



Running services

View and control currently running services

Debugging

USB debugging

Debug mode when USB is connected



Revoke USB debugging authorizations

Bug report shortcut

Show a button in the power menu for taking a bug report



Select mock location app

No mock location app set

Enable view attribute inspection



Developer options

On

Screen will never sleep while charging

Enable Bluetooth HCI snoop log

Capture all bluetooth HCI packets in a file

OEM unlocking

Allow USB debugging?

USB debugging is intended for development purposes only. Use it to copy data between your computer and your device, install apps on your device without notification, and read log data.

CANCEL

OK

Revoke USB debugging authorizations

Bug report shortcut

Show a button in the power menu for taking a bug report

Select mock location app

No mock location app set

Oxygen Forensic® Extractor

Detection of devices connected via cable



Connect device via cable

Device is connected successfully!

Press **Next** to create Android physical image. Press **Cancel** to abort the operation.

Device information:



Model:	Google Nexus 6
IMEI:	355470061833618
Hardware Revision:	N/A
Software Revision:	6.0.1

- Allow rooting
Root access is required to create a physical dump or extract data via logical

Choose a folder to save Android physical image

Destination folder:

D:\Temp\Android images\2016-01-22 11-00-51 355470061833618\

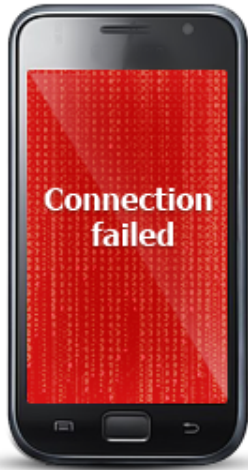
Help

Next >

Finish

Oxygen Forensic® Extractor

Connection failed.





No device was detected on cable.
Click **Finish** to close Oxygen Forensic® Extractor.


Contact [Oxygen Forensics support](#) to solve connectivity issues.
We'll be glad to help you.


Connection tips for **Android** devices:

- Re-attach the cable to the device and use "Manual device selection" mode to connect.
- Check if device is not used by other software. ([See help](#))
- Check if the device drivers are correctly installed. ([Download Driver Pack](#))
- Check if the device is connected to PC and detected there.

 Reconnect

 Open Device Manager

 Contact support

 Help

Finish



Use USB for

- Charging
Just charge this device
- File transfers
Transfer files to Windows or Mac (MTP)
- Photo transfer (PTP)
Transfer photos or files if MTP is not supported (PTP)
- MIDI
Use device for MIDI input

CANCEL

World Chef
socialpoint

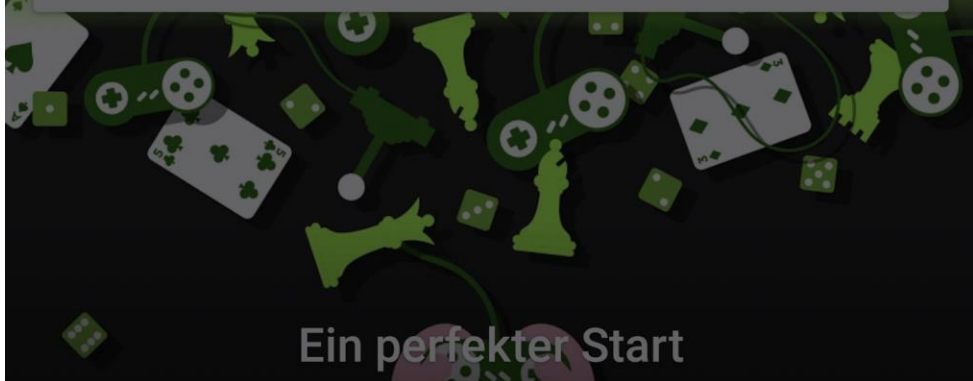
4.3 ★

Genies & Gems
SGN

4.4 ★

Traffic Rid
Soner Kara

4.8 ★



Ein perfekter Start



Superuser request: 6

ADB shell (2000)

Grants full access to all device features and storage, potentially dangerous

Ask again: 15 min..

DENY

GRANT

World Chef
socialpoint
4.3 ★

Genies & Gems
SGN
4.4 ★

Traffic Rider
Soner Kara
4.8 ★

Oxygen Forensic® Extractor

Rooting Google Nexus 6 device




Creating physical image from Android device

Exynos-based Samsung exploit - 0%



Restarting rooting utility ...

Warning! The data is being extracted from the device right now. Do not disconnect it or make any changes to the device.

 Help

Finish

Oxygen Forensic® Extractor

Wait while the data is being extracted from the device



Creating physical image from Android device

Physical dump is being created...



Size: 44.42 MB of 58.24 GB

Speed: 5.36 MB/sec

Estimated time: **03:05:19**

Warning! The data is being extracted from the device right now. Do not disconnect it or make any changes to the device.

 Help

Cancel

Oxygen Forensic® Extractor

Select a type of device backup or physical image



iTunes backup

Acquire iTunes backup from iOS device



Android physical image

Need root access

Acquire physical image from Android OS device



Android backup

Android OS v.4.0 and higher

Acquire backup from Android OS device



MTK Android physical image

Acquire physical image from MTK Android OS device



LG Android physical image

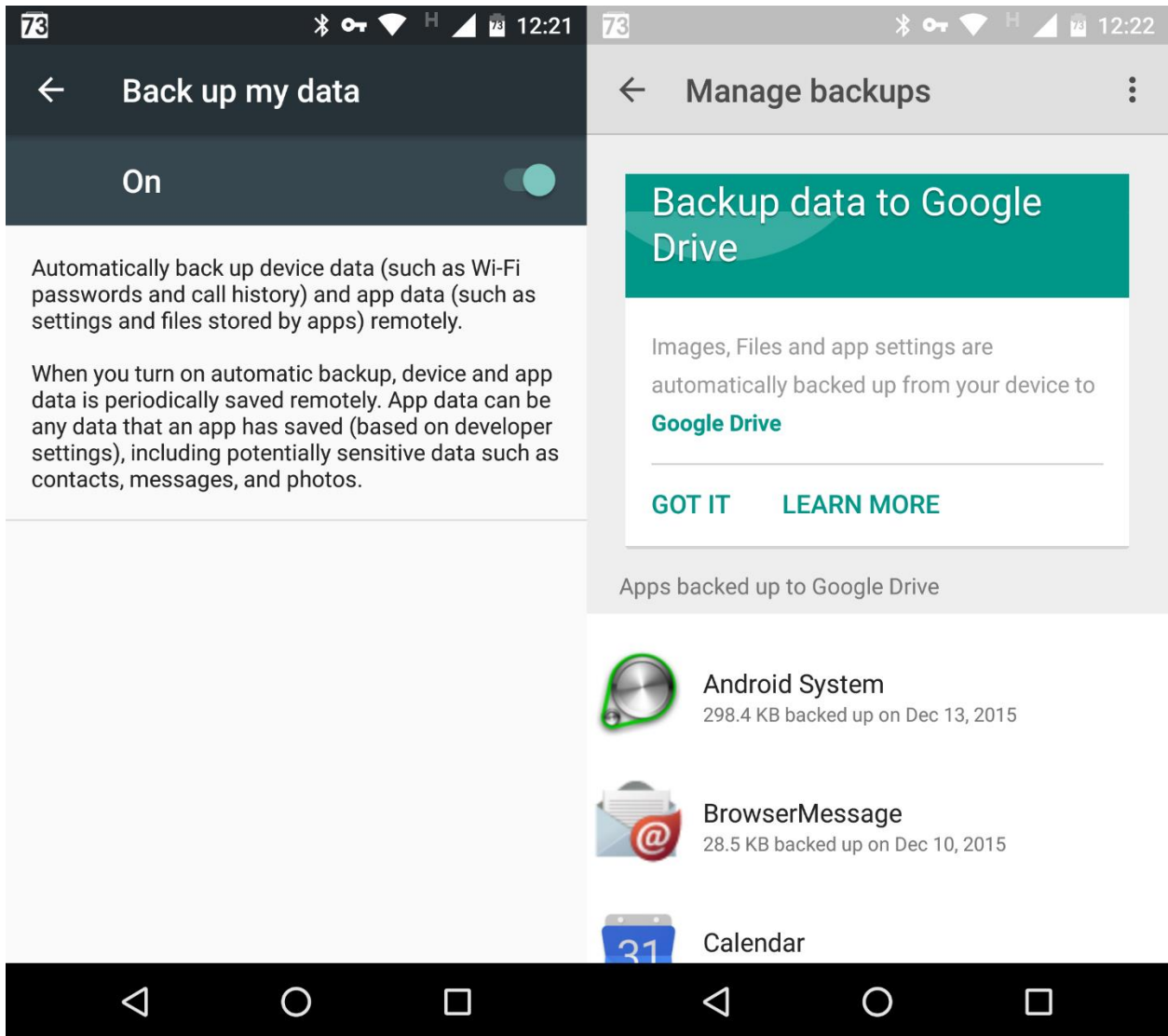
Acquire physical image from LG Android OS devices using Devices Firmware Update mode

Help

< Back

Next >

Cancel



Your account, your data.
Download a copy.

Create an archive with your data from Google products.

[Manage archives](#)

Select data to include

Choose the Google products to include in your archive and configure the settings for each product. This archive will only be accessible to you. [Learn more](#)

Product	Details	Select none
+1s		<input checked="" type="checkbox"/>
Blogger	All blogs	<input checked="" type="checkbox"/>
Bookmarks		<input checked="" type="checkbox"/>
Calendar	All calendars	<input checked="" type="checkbox"/>
Contacts	vCard format	<input checked="" type="checkbox"/>
Drive	All files PDF and 3 other formats	<input checked="" type="checkbox"/>
Google Photos	All photo albums	<input checked="" type="checkbox"/>
Google Play Books	All books HTML format	<input checked="" type="checkbox"/>
Google+ Circles	vCard format	<input checked="" type="checkbox"/>
Google+ Pages	All pages HTML format	<input checked="" type="checkbox"/>

Google+ Stream	HTML format	<input checked="" type="checkbox"/>
Groups		<input checked="" type="checkbox"/>
Hangouts		<input checked="" type="checkbox"/>
Keep		<input checked="" type="checkbox"/>
Location History	JSON format	<input checked="" type="checkbox"/>
Mail	All mail	<input checked="" type="checkbox"/>
Maps (your places)		<input checked="" type="checkbox"/>
My Maps		<input checked="" type="checkbox"/>
Profile		<input checked="" type="checkbox"/>
Tasks		<input checked="" type="checkbox"/>
Voice		<input checked="" type="checkbox"/>
Wallet		<input checked="" type="checkbox"/>
YouTube	All data types OPML (RSS) format	<input checked="" type="checkbox"/>

[Next](#)

Customize download format

2015-11-25 18:48:44	ios 9 cydia disable upgrade notification Remove OTA update Badge in settings. Top 10 Free Cydia Tweaks for iOS 9 - i... [Discussion] Disable Automatic Softwar..	https://www.google.com/search?q=ios+9+cydia+d...
2015-11-25 18:23:56	ipad news settings Enable Apple News App In iOS 9 Outsi..	https://www.google.com/search?q=ipad+news+s...

Download snapshot

Select data categories to download


- User Info
- History
- Dashboard
- Messages
- Chrome
- Location
- Contacts
- Media (95 files, 1 MB)
- Android
- Notes
- Calendars

Check All Uncheck All

Download





URL	User name	Password	Times used
ood.com/login.html	[Redacted]	*****	0
n.de/kundenkonto/login	[Redacted]	*****	3
n/auth	[Redacted]	*****	0
endyhandy.de/shop/addb2b.html	[Redacted]	*****	0
le/user/login	[Redacted]	*****	1
oogle.com/ServiceLoginAuth	[Redacted]	*****	0
ad.com/de/j_spring_security_check;jses...	[Redacted]	*****	0
gi-bin/luci/web	[Redacted]	*****	0
rareversand.de/profilreqis.jsp	[Redacted]	*****	0
sbilliger.de/e/	[Redacted]	*****	0
u/blog/req/	[Redacted]	*****	0
nline.com/websec/loqon.html;jsessionid...	[Redacted]	****	9
-banking.lbb.de/Amazon/cas/dispatch...	[Redacted]	*****	0
e.html	[Redacted]	*****	0
n.fr/ap/signin	[Redacted]	*****	3






Google accounts  vkatalov@gmail.com





26.11.2015 14:31:45

30.11.2015 17:20:40



 vkatalov@gmail.com
1028805767846453652

 Chrome

Date created (UTC)	Title	URL	Folder
2015-04-25 18:01:29	Y. Vladimir Katalov Flight diary	http://flightdiary.net/v_katalov	Other Bookmarks
2015-04-22 09:55:35	Ralf	https://user2.0.cj.cloudflare.com/02img/0unkal.html	Bookmark Bar
2015-03-18 12:55:33	Windows Live Mail	http://go.microsoft.com/fwlink/?LinkId=72681	Other Bookmarks/Win...
2015-03-18 12:55:33	GobemotUSA.gov	http://go.microsoft.com/fwlink/?LinkId=72779	Other Bookmarks/Webs...
2015-03-18 12:55:33	Windows Live Gallery	http://go.microsoft.com/fwlink/?LinkId=72742	Other Bookmarks/Win...
2015-03-18 12:55:33	confluence	http://ru.confluence.com/atlboard/actop	Bookmark Bar
2015-03-18 12:55:33	Dashboard - Confluence	http://ru.confluence.com/atlboard/actop	Bookmark Bar/jira
2015-03-18 12:55:33	System Dashboard - Apront JIRA	http://ru.confluence.com/atlboard/actop	Other Bookmarks
2015-03-18 12:55:33	Ресурсыремие ystiu	http://online.microsoft.com/realize	Bookmark Bar
2015-03-18 12:55:33	Sydney, New South Wales, Australia	http://www.australia.com/eng/loc/other/other.aspx?	Bookmark Bar
2015-03-18 12:55:33	Addon M8r Naked Pics & Videos	http://new.gp.gov.mobi/oboi/show/c/6d8aen_m8r	Bookmark Bar
2015-03-18 12:55:33	MSN Энциклопедия	http://go.microsoft.com/fwlink/?LinkId=68924	Other Bookmarks/Бее...
2015-03-18 12:55:33	Учебные материалы для Internet Exp...	http://go.microsoft.com/fwlink/?LinkId=50893	Other Bookmarks/Бее...
2015-03-18 12:55:33	System Dashboard - Apront JIRA	http://ru.confluence.com/atlboard/actop	Bookmark Bar/jira

Chapter 5: iOS – Introduction and Physical Acquisition

Oxygen Forensic™ Suite 2013 Analyst

File View Tools Service Help

All devices ▾ Brooklyn maniac ▾ Patrick Payge's iPhone 3GS - 3/15/2012 10:40:33 AM [012156002672455] ▾ Web Connections and Location Services

Connect new device Export Print Set time zones Show map Export to Google Earth Geo data server Averaging mode Reset Filters Help

Tasks

- Get geo information by MAC addresses
- Get ip2location information
- Reread coordinates

Object information

Service ID:
6951B87F-FD05-4E6A-98C9-8C9138...

Router MAC address: 00:00:0c:07:ac:97
Device IP: 172.18.205.52
DNS address: 172.17.4.9
Router IP: 172.18.204.1
Time stamp: Device time: 2/17/2011 7:12:41 PM
UTC: 2/17/2011 3:12:41 PM

DNS name: westminster.org uk
MD5 Hash:
38bc3d782d86cfc4b90368eb19310483
Source file:
com.apple.network.identification.plist

Evidence note

Provider information

Country code: US
Country name: United States
Region name: California
City: Sacramento
Street: Cottage Way 3020-3098
Received timestamp: 5/11/2011 11:24:05 AM
Received by: Router MAC address
Geo coordinates: N 38.6033065 / W 121.393944
Accuracy (in meters): 150.0
Received timestamp: 5/11/2011 11:24:05 AM

Router MAC address	Device IP	DNS name	DNS address	Router IP	VPN address	Time stamp	Country	Region name
00:00:0c:07:ac:97	172.18.205.52	westminster.org...	172.17.4.9	172.18.204.1	N/A	Device time: 2/17/2011 7:12:41 PM UTC: 2/17/2011 3:12:41 PM	United States	California
00:24b2:0f:36:90	192.168.1.63	N/A	192.168.1.1	192.168.1.1	N/A	Device time: 1/29/2011 4:36:48 AM UTC: 1/29/2011 12:36:48 AM	United States	New York
00:24:37:d2:27:e0	192.168.1.102	N/A	192.168.1.254	192.168.1.254	N/A	Device time: 1/28/2011 2:06:33 AM UTC: 1/27/2011 10:06:33 PM	United States	Georgia
00:26:f2:15:9f:00	192.168.1.57	N/A	192.168.1.1	192.168.1.1	N/A	Device time: 1/28/2011 2:05:42 AM UTC: 1/27/2011 10:05:42 PM	United States	Georgia
00:10:db:ff:20:50							United States	New York
00:17:c5:2e:17:e8							United States	Georgia
00:17:c5:2e:17:e8							United States	Georgia
00:40:36:3b:c4:a9							United States	Pennsylvania
00:40:36:3b:c4:a9							United States	Pennsylvania
00:40:36:3b:c4:a9							United States	Pennsylvania
00:40:36:3b:c4:a9							United States	Pennsylvania
00:40:36:3b:c4:a9							United States	Pennsylvania
00:40:36:3b:c4:a9							United States	Pennsylvania

Google Earth

United States California Sacramento

This map in a Web Browser

Analyst version: 5.1.2.153 Patrick Payge's iPhone 3GS Total: 75 objects Selected: 6951B87F-FD05-4E6A-98C9-8C9138C4F749 (00:00:0c:07:ac:97) MD5 Hash: 38bc3d782d86cfc4b90368eb19310483

Oxygen Forensic™ Suite 2013 Analyst

File View Tools Service Help

All devices > Human trafficking > Simon Payge's iPhone 4S - 2/6/2013 10:51:49 AM [013043005068452] > Web Connections and Location Services

Connect new device Export Print Set time zones Show map Export to Google Earth Geo data server Averaging mode Reset Filters Help

Tasks

- Reread checked maps and addresses
- Reread checked maps
- Reread checked addresses
- Read all maps and addresses

Object information

Point kind: Original point
 Point type: Cell point
 Source table: Cell Location
 MAC address/Cell info:
 250.99.37004.103376255
 MCC: 250
 MNC: 99
 LAC: 37004
 CI: 103376255
 Time stamp: Device time: 2/2/2013 1:48:15 PM
 UTC: 2/2/2013 9:48:15 AM
 Time stamp (Europe/Moscow): 2/2/2013 1:48:15 PM
 Geo coordinates: N 55.74411617, E 37.61313891
 Horizontal accuracy: 1414
 Altitude: 0
 Confidence: 70
 Source file: cache_encryptedA.db
 Table: CellLocation
 MDS Hash:
 6229b52be3391efbe1948361be986339

WiFi connections IP connections Locations

Point kind	Point type	Time stamp	Geo coordinates	Address
Averaging ...	WiFi point	Device time: 2/2/2013 3:48:28 PM UTC: 2/2/2013 11:48:28 AM	N 55.706412, E 37.623461	Russia, Moscow
Averaging ...	Cell point	Device time: 2/2/2013 3:48:21 PM UTC: 2/2/2013 11:48:21 AM	N 55.703322, E 37.620081	Russia, Moscow
Original point	Cell point	Device time: 2/2/2013 1:48:20 PM UTC: 2/2/2013 9:48:20 AM	N/A	N/A
Averaging ...	WiFi point	Device time: 2/2/2013 1:48:16 PM UTC: 2/2/2013 9:48:16 AM	N 55.74057, E 37.617268	Russia, Moscow
Original point	Cell point	Device time: 2/2/2013 1:48:15 PM UTC: 2/2/2013 9:48:15 AM	N 55.74411617, E 37.61313891	Russia, Moscow
Averaging ...	WiFi point	Device time: 2/2/2013 1:43:47 PM UTC: 2/2/2013 9:43:47 AM	N 55.731845, E 37.606814	Russia, Moscow
Original point	Cell point	Device time: 2/2/2013 1:43:46 PM UTC: 2/2/2013 9:43:46 AM	N/A	N/A
Averaging ...	WiFi point	Device time: 2/2/2013 1:43:45 PM UTC: 2/2/2013 9:43:45 AM	N 55.738955, E 37.60813	Russia, Moscow
Original point	Cell point	Device time: 2/2/2013 1:31:44 PM UTC: 2/2/2013 9:31:44 AM	N/A	N/A
Original point	Cell point	Device time: 2/2/2013 1:31:30 PM UTC: 2/2/2013 9:31:30 AM	N/A	N/A
Averaging ...	Cell point	Device time: 2/2/2013 1:31:25 PM UTC: 2/2/2013 9:31:25 AM	N 55.740358, E 37.604249	Russia, Moscow

Filters: >>

Date filter:

After date: 2/ 1/2013

Before date: 2/ 6/2013

Accuracy filter:

Horizontal accuracy filter: Enter accuracy in meters ...

Source filter:

- Cell Location (776 points)
- WiFi Location (10400 points)
- Cell Location Harvest (1 poin...
- WiFi Location Harvest (29 p...
- Cell Location Local (13 points)

Russia, Moscow (N 55.74411617, E 37.61313891)

This map in a Web Browser Read map Zoom in Zoom out

Analyst version: 5.1.2.153 Simon Payge's iPhone 4S Total: 11243 objects Selected: Cell Location (N 55.74411617, E 37.61313891) MDS Hash: 6229b52be3391efbe1948361be986339



```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

Please select an action
1 ENTER DFU - Help putting device into DFU mode
2 LOAD RAMDISK - Load tools onto the device
3 GET PASSCODE - Recover device passcode
4 GET KEYS - Extract device keys and keychain data
5 DECRYPT KEYCHAIN
6 IMAGE DISK - Acquire physical image of the device filesystem
7 DECRYPT DISK
8 TAR FILES - Acquire user's files from the device as a tarball
9 REBOOT - Reboot the device

0 EXIT

>: █
```

```
vkatalov — Toolkit-JB.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac for A5+

(c) 2011-2015 Elcomsoft Co. Ltd.

Please select an action
1 N/A
2 N/A
3 GET PASSCODE - Recover device passcode
4 GET KEYS - Extract device keys and keychain data
5 DECRYPT KEYCHAIN
6 IMAGE DISK - Acquire physical image of the device filesystem
7 DECRYPT DISK
8 TAR FILES - Acquire user's files from the device as a tarball
9 REBOOT - Reboot the device

0 EXIT

>: █
```

```
vkatalov — Toolkit.command — tee — 80x24

To put iOS device into DFU you will need to:
1. Push and hold Sleep (corner) and Home (center) buttons for
   10 seconds.
2. Release Sleep button but continue to hold Home button for
   another 10 seconds.

This script will help you with the timings.

When you are ready press 'Enter' and be prepared to press
Sleep and Home buttons in 3 seconds.
█
```

```
vkatalov — Toolkit.command — tee — 80x24

Prepare to push and hold Sleep and Home buttons in
...3...2...1...0

Push and hold Sleep and Home buttons for
...9...8...7...6...5...4...3

Prepare to release Sleep button while holding Home button
...2...1...0

Release Sleep button but continue to hold Home button for
...9...8...7...6...5...4...3...2...1...0

Release Home button.

Your iOS Device should be in DFU mode now.

Device screen should be blank, device should look like it is off. If
screen shows Apple or iTunes logo then device is not in DFU mode. In
this case reboot the device and try again.

Would you like to load Toolkit Ramdisk now? (Y/n): █
```



```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

Please select an action
1 ENTER DFU          - Help putting device into DFU mode
2 LOAD RAMDISK      - Load tools onto the device
3 GET PASSCODE      - Recover device passcode
4 GET KEYS          - Extract device keys and keychain data
5 DECRYPT KEYCHAIN
6 IMAGE DISK        - Acquire physical image of the device filesystem
7 DECRYPT DISK
8 TAR FILES         - Acquire user's files from the device as a tarball
9 REBOOT           - Reboot the device

0 EXIT

>: █
```




```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

Please note that to recover passcode for iOS 4/5/6/7 device you need
to load ramdisk on the iOS device first. If you haven't done
this yet, please return to previous step and use corresponding menu
item.

Please choose the operation mode of passcode recovery:
 1 Only show passcode type
 2 Check 4-digit PINs
 3 Perform a wordlist attack
 4 Set custom passcode recovery parameters

 0 Back

>: █
```

```
vkatalov — Toolkit.command — tee — 80x24

[INFO] Device connected
[INFO] USBMuxConnectByPort OK
mount_hfs: Resource busy

Starting passcode recovery...
[INFO] Info: New connection...
[INFO] Device connected
[INFO] USBMuxConnectByPort OK

This is iOS Passcode Recovery
Part of Elcomsoft iOS Forensic Toolkit
Version 1.26 built on Dec 17 2014

(c) 2011-2014 Elcomsoft Co. Ltd.

[INFO] Device Serial Number: JF13478EE00
[INFO] Probable passcode type: 0 - simple passcode (4 digits).
[INFO] Simple passcode, using length=4
[INFO] Passcode is all-digit, filtering out non-digits from charset.
[INFO] Passcode recovery: KB version: 4; KB type: 0x00000000
[INFO] Passcode recovery: checking common PINs...

CUR PASS: [ 0110 ] | AVG SPD: 2.5 p/s | ELAPSED TIME: 2.0 s█
```

```
vkatalov — Toolkit.command — tee — 80x24

Starting passcode recovery...
[INFO] Info: New connection...
[INFO] Device connected
[INFO] USBMuxConnectByPort OK

-----
                This is iOS Passcode Recovery
                Part of Elcomsoft iOS Forensic Toolkit
                Version 1.26 built on Dec 17 2014

                (c) 2011-2014 Elcomsoft Co. Ltd.
-----

[INFO] Device Serial Number: JF13478EE00
[INFO] Probable passcode type: 0 - simple passcode (4 digits).
[INFO] Simple passcode, using length=4
[INFO] Passcode is all-digit, filtering out non-digits from charset.
[INFO] Passcode recovery: KB version: 4; KB type: 0x00000000
[INFO] Passcode recovery: checking common PINs...

CUR PASS: [ 1212 ] | AVG SPD: 3.6 p/s | ELAPSED TIME: 8.0 s
[INFO] Passcode found: 1234
Press 'Enter' to continue
█
```

```
vkatalov — Toolkit.command — tee — 80x24

-----
                Welcome to Elcomsoft iOS Forensic Toolkit
                This is driver script version 1.27/Mac

                (c) 2011-2015 Elcomsoft Co. Ltd.
-----

Please select an action
1  ENTER DFU          - Help putting device into DFU mode
2  LOAD RAMDISK      - Load tools onto the device
3  GET PASSCODE      - Recover device passcode
4  GET KEYS          - Extract device keys and keychain data
5  DECRYPT KEYCHAIN
6  IMAGE DISK        - Acquire physical image of the device filesystem
7  DECRYPT DISK
8  TAR FILES         - Acquire user's files from the device as a tarball
9  REBOOT            - Reboot the device

0  EXIT

>: █
```

```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

Please note that to extract iOS device secrets you need to load ramdisk
on the iOS device first. If you haven't done this yet, please return
to previous step and use corresponding menu item.

Continue? (Y/n): y
Device passcode (optional) <1234>:
Escrow file (optional):
Save data to file (relative to home directory) <keys.plist>: █
```

```
vkatalov — Toolkit.command — tee — 80x24

[INFO] USBMuxConnectByPort OK
mount_hfs: Resource busy

Extracting device secrets...
[INFO] Info: New connection...
[INFO] Device connected
[INFO] USBMuxConnectByPort OK

This is iOS Encryption Keys and Keychain Data Dumper
Part of Elcomsoft iOS Forensic Toolkit
Version 1.26 built on Feb 5 2015

(c) 2011-2014 Elcomsoft Co. Ltd.

[INFO] Device Serial Number: JF13478EE00
[INFO] Passcode for the device is "1234".
[INFO] Keychain version: 6
[INFO] Backup password for the device is "JohnDoe".
[INFO] AppleID login for the device is "apple@elcomsoft.com".
[INFO] AppleID password for the device is "John ██████".

Press 'Enter' to continue
█
```

```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

Please select an action
1 ENTER DFU      - Help putting device into DFU mode
2 LOAD RAMDISK  - Load tools onto the device
3 GET PASSCODE  - Recover device passcode
4 GET KEYS      - Extract device keys and keychain data
5 DECRYPT KEYCHAIN
6 IMAGE DISK    - Acquire physical image of the device filesystem
7 DECRYPT DISK
8 TAR FILES     - Acquire user's files from the device as a tarball
9 REBOOT       - Reboot the device

0 EXIT

>: █
```

```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

Please note that to obtain device disk image you need to load ramdisk
on the iOS device first. If you haven't done this yet, please return
to previous menu and use corresponding item.

Please select partition to image:
1 System (rdisk0s1s1) <- this one is NOT ENCRYPTED
2 User (rdisk0s1s2) <- this one is ENCRYPTED

0 Back

>: █
```

```
vkatalov — Toolkit.command — tee — 80x24
28642176+0 records in
28642176+0 records out
14664794112 bytes transferred in 1668.571089 secs (8788834 bytes/sec)
```

```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

Please select an action
1  ENTER DFU           - Help putting device into DFU mode
2  LOAD RAMDISK        - Load tools onto the device
3  GET PASSCODE        - Recover device passcode
4  GET KEYS             - Extract device keys and keychain data
5  DECRYPT KEYCHAIN
6  IMAGE DISK          - Acquire physical image of the device filesystem
7  DECRYPT DISK
8  TAR FILES           - Acquire user's files from the device as a tarball
9  REBOOT              - Reboot the device

0  EXIT

>: █
```

```
vkatalov — Toolkit.command — tee — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 1.27/Mac

(c) 2011-2015 Elcomsoft Co. Ltd.

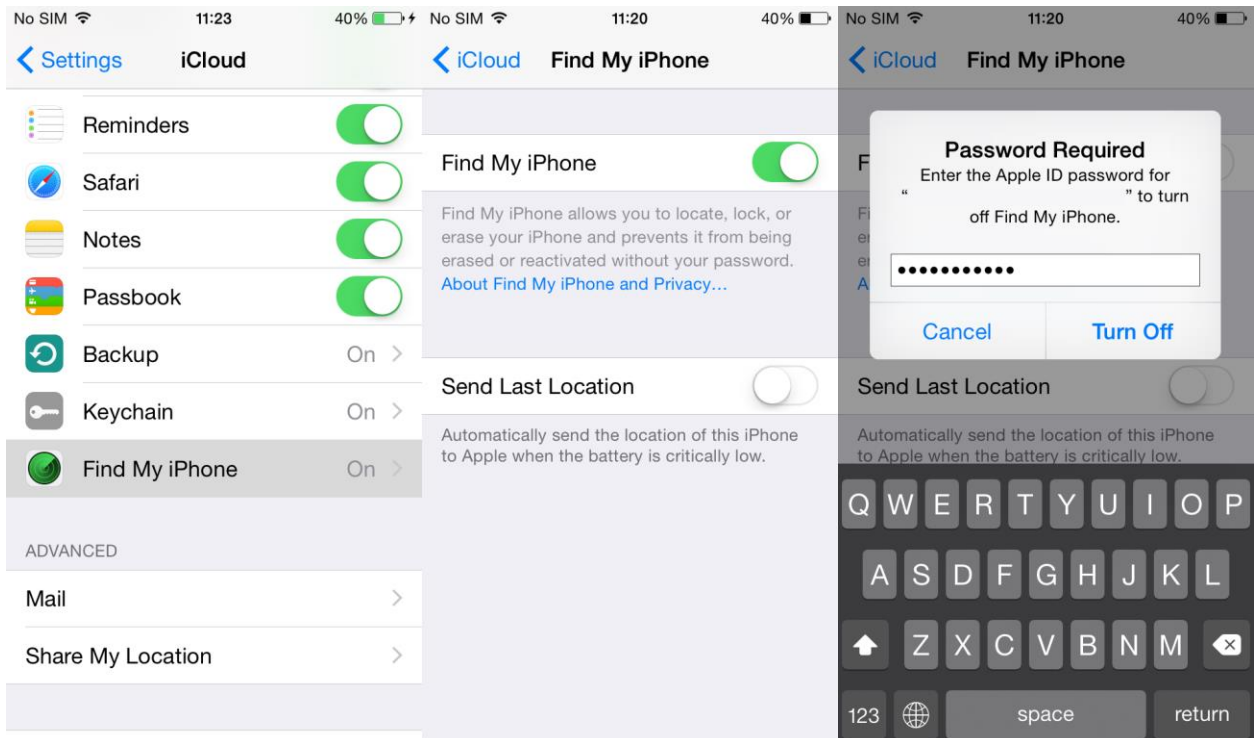
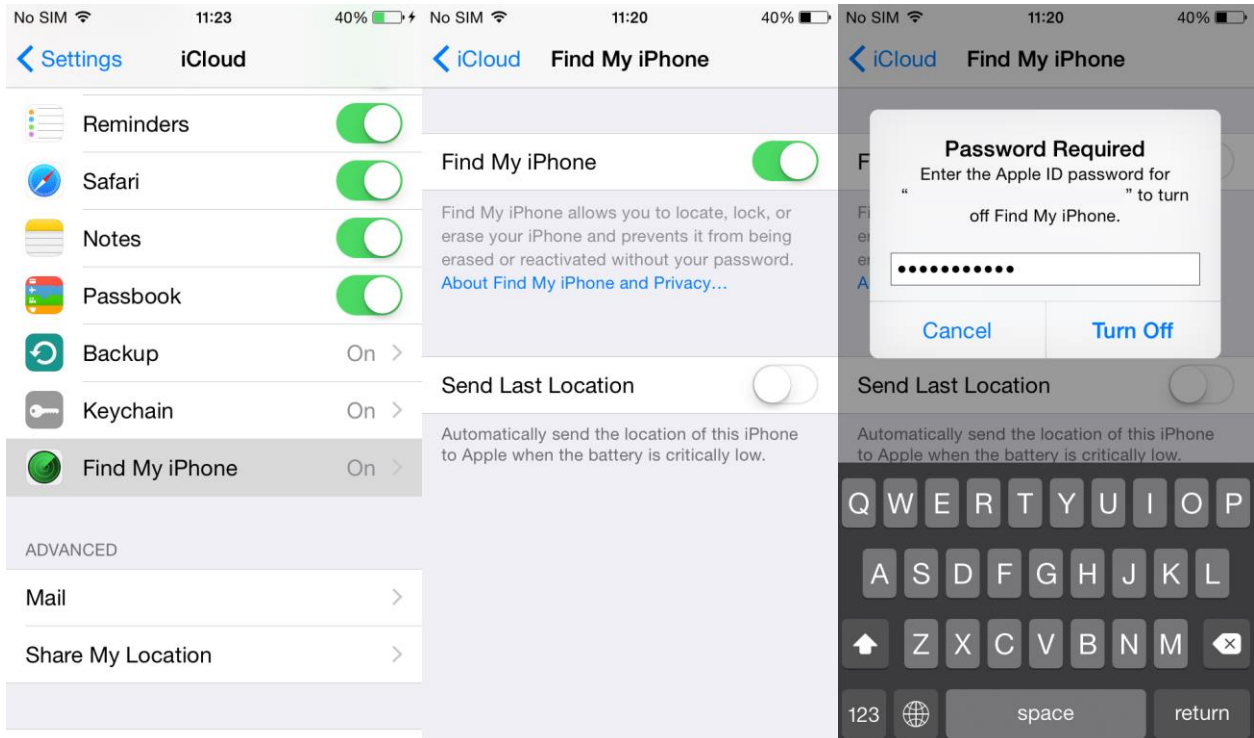
Encrypted image file <user.dmg>:
Device keys file <keys.plist>:
Write decrypted image to file <user-decrypted.dmg>: █
```

```
vkatalov — Toolkit.command — tee — 80x24

This is iOS User Partition Decryption Tool
Part of Elcomsoft iOS Forensic Toolkit
Version 1.26 built on Jan 23 2015

(c) 2011-2014 Elcomsoft Co. Ltd.

[INFO] Key "EscrowKeyBag" not found
[INFO] Complete key set is loaded, everything should be decryptable.
[INFO] Image encryption statistics:
[INFO] 9516 files total: 8835 encrypted + 681 not encrypted.
[INFO] 8835 files can be decrypted (out of 8835 encrypted files).
[INFO] Input image contains 3706673 blocks of 8192 bytes.
[ 3%] 0.95 of 28.28 Gb decrypted █
```



Settings < Settings Passcode Lock Turn off Passcode Cancel

Notifications >
Control Center > Turn Passcode Off
Do Not Disturb > Change Passcode

General > Require Passcode After 15 min. >
Display & Brightness > Simple Passcode
Wallpaper > A simple passcode is a 4 digit number.
Sounds > Voice Dial
Passcode > Music Voice Control is always enabled.
Privacy > ALLOW ACCESS WHEN LOCKED:
Today
iCloud > Notifications View

Enter your passcode
- - - -

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
	0	⌫

EIFT

Search

Favorites
iCloud Drive
AirDrop
Applications
Desktop
Documents
Downloads
Movies
Music
Pictures
elcomsoft

Devices
BOOTCAMP

common EULA.pdf iOS Forensic Toolkit.pdf macosx
Toolkit-JB.command Toolkit.command tools

Macintosh HD > Users > elcomsoft > Desktop > EIFT > Toolkit-JB.command


```
Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 2.0/Mac for A5+
```

```
(c) 2011-2015 Elcomsoft Co. Ltd.
```

Please select an action

- 1 N/A
- 2 N/A
- 3 GET PASSCODE - Recover device passcode
- 4 GET KEYS - Extract device keys and keychain data
- 5 DECRYPT KEYCHAIN
- 6 IMAGE DISK - Acquire physical image of the device filesystem
- 7 DECRYPT DISK
- 8 TAR FILES - Acquire user's files from the device as a tarball
- 9 REBOOT - Reboot the device

- 0 EXIT

>: █

```
establishing ssh trust between the device and the computer...
setting permissions...
checking ssh directory...
[INFO] Info: New connection...
[INFO] Device connected
[INFO] USBMuxConnectByPort OK
root@localhost's password: ?
```

```
elcomsoft — Toolkit-JB.command — tee ◀ Toolkit-JB.command — 80x24
establishing ssh trust between the device and the computer...
setting permissions...
checking ssh directory...
[INFO] Info: New connection...
[INFO] Device connected
[INFO] USBMuxConnectByPort OK
[root@localhost's password: ]
copying public key on device...
[INFO] Info: New connection...
[INFO] Device connected
[INFO] USBMuxConnectByPort OK
Warning: Permanently added '[localhost]:3022' (RSA) to the list of known hosts.
root@localhost's password: ?
```

```
elcomsoft — Toolkit-JB.command — tee ◀ Toolkit-JB.command — 80x24

Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 2.0/Mac for A5+

(c) 2011-2015 Elcomsoft Co. Ltd.
```

Store files to archive (relative to home directory) <user.tar>: █

elcomsoft — Toolkit-JB.command — tee ◀ Toolkit-JB.command — 80×24

```
2026400+0 records in  
2026400+0 records out  
1037516800 bytes transferred in 40.062288 secs (25897592 bytes/sec)
```

elcomsoft — Toolkit-JB.command — tee ◀ Toolkit-JB.command — 80×24

Done.

Press 'Enter' to continue

elcomsoft

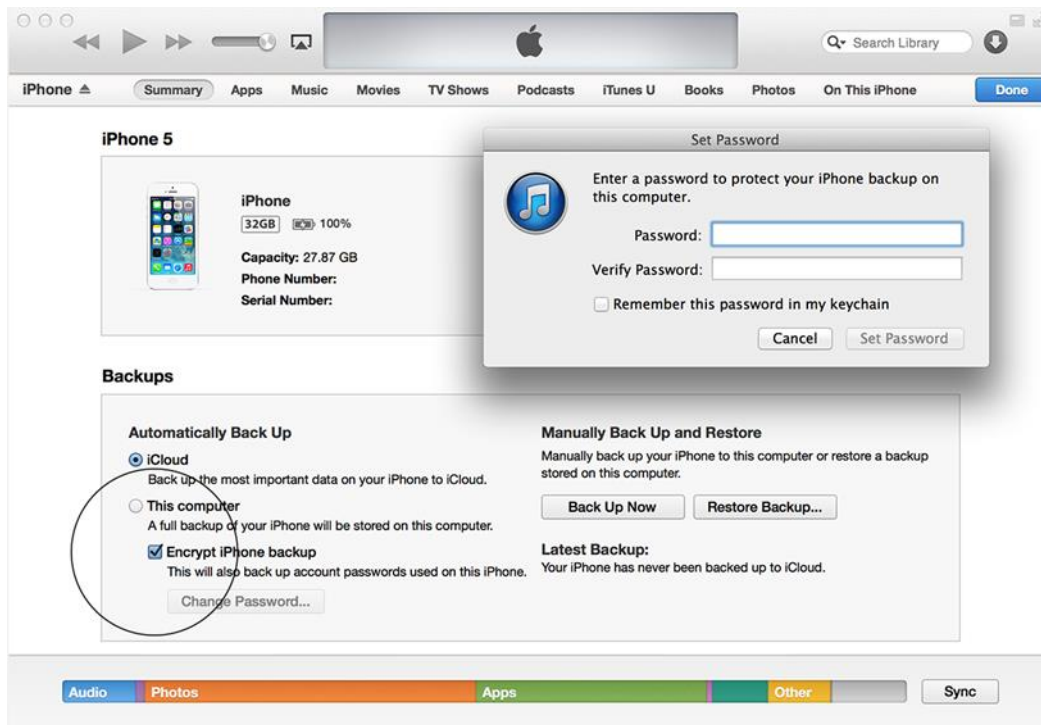
Search

Favorites
 iCloud Drive
 AirDrop
 Applications
 Desktop
 Documents
 Downloads
 Movies
 Music
 Pictures
elcomsoft
 Devices
 BOOTCAMP

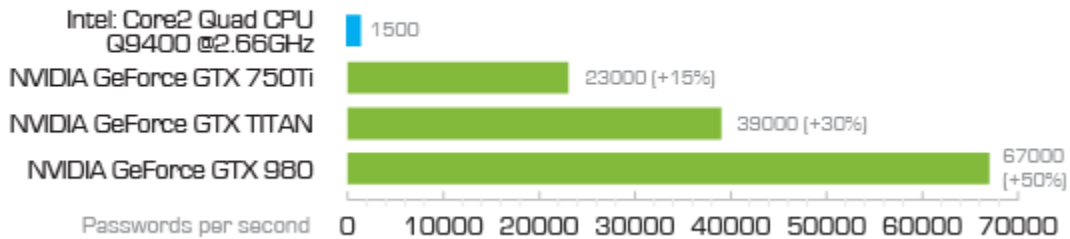
Name	Date Modified	Size	Kind
20151119_122342Z.log	Today 15:35	19 KB	Log File
▶ Applications	24 Oct 2012 16:15	--	Folder
▶ Desktop	Today 15:35	--	Folder
▶ Documents	31 Oct 2012 16:54	--	Folder
▶ Downloads	06 Nov 2014 13:33	--	Folder
▶ Movies	27 Oct 2012 20:59	--	Folder
▶ Music	31 Oct 2012 17:37	--	Folder
passcode.txt	26 Aug 2014 14:14	5 bytes	Plain Text
▶ Pictures	29 Jun 2015 13:08	--	Folder
▶ Public	22 Oct 2012 17:09	--	Folder
user.tar	Today 15:34	7,55 GB	tar archive

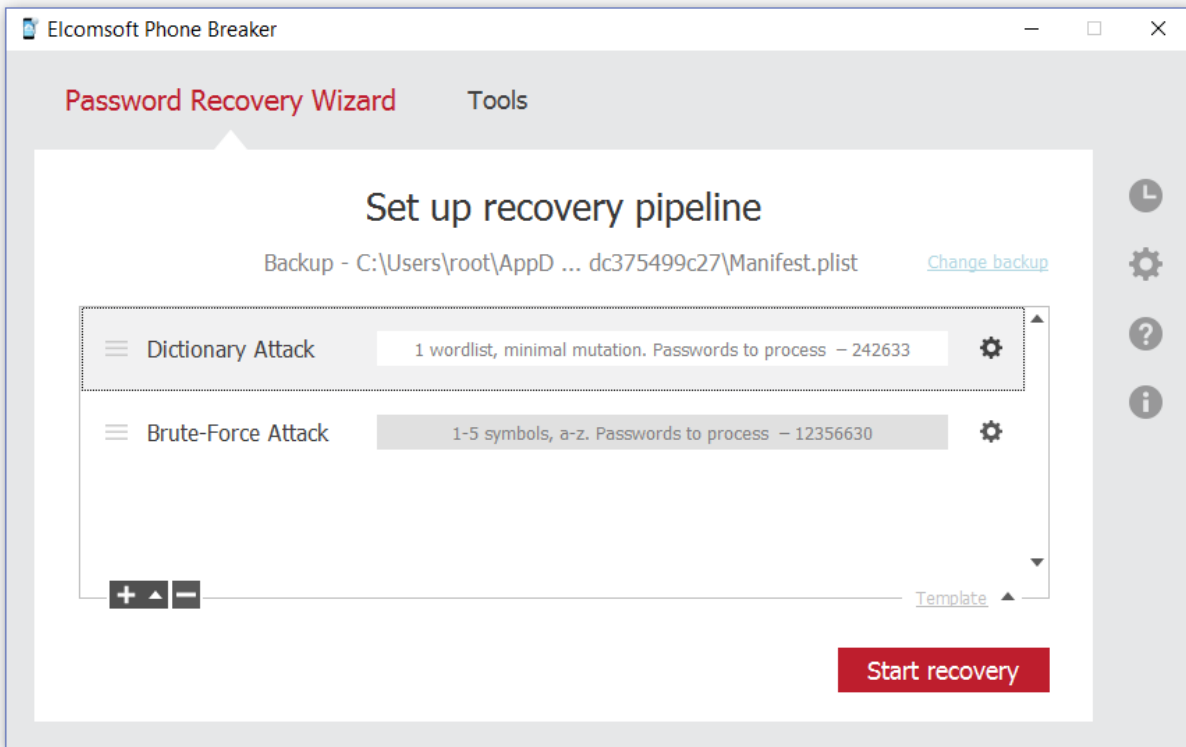
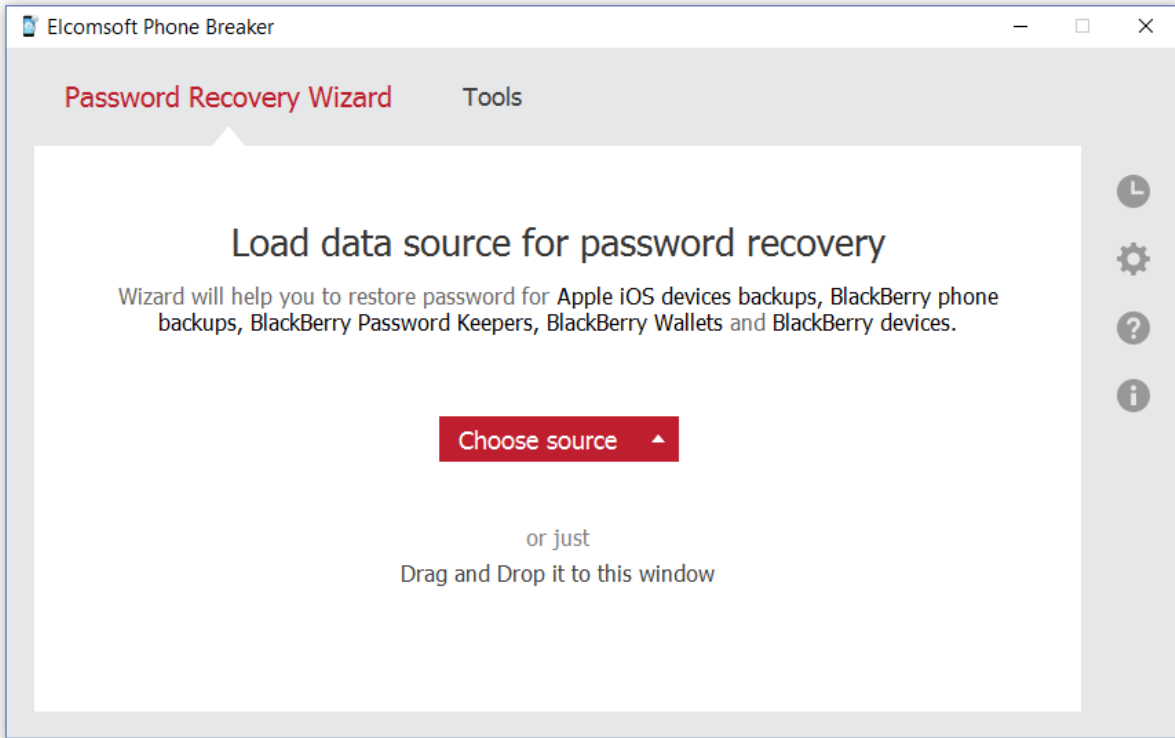
Macintosh HD > Users > elcomsoft

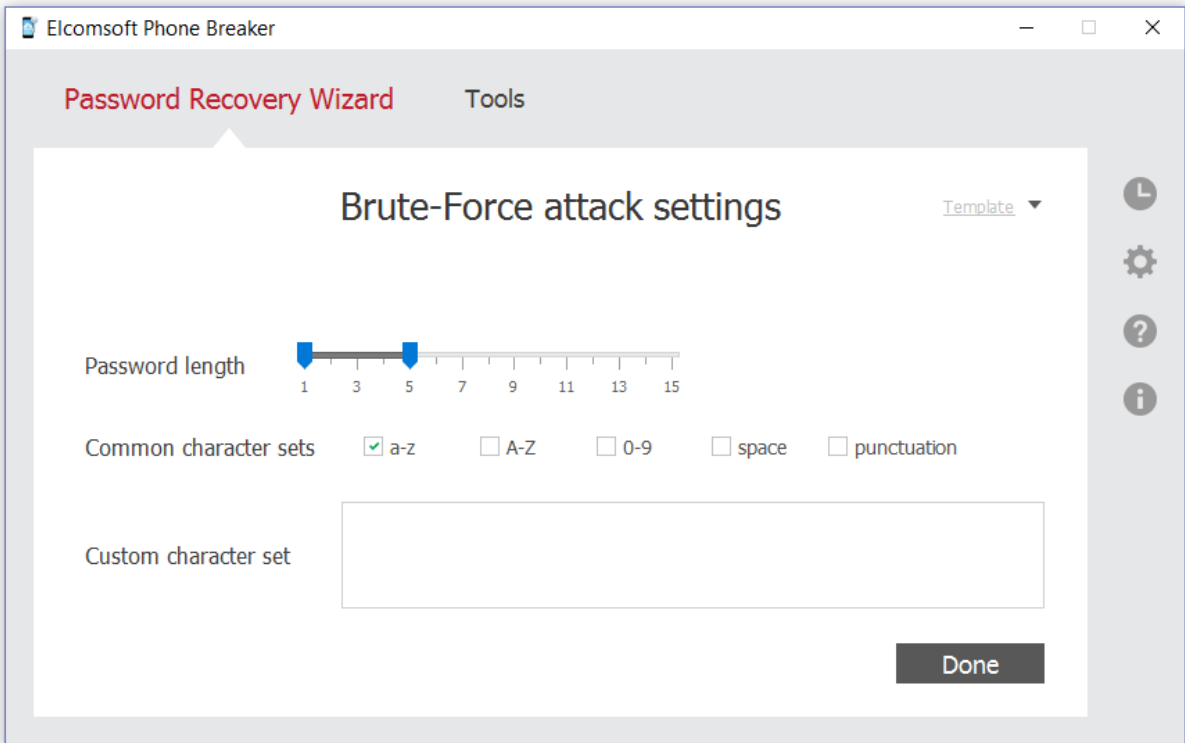
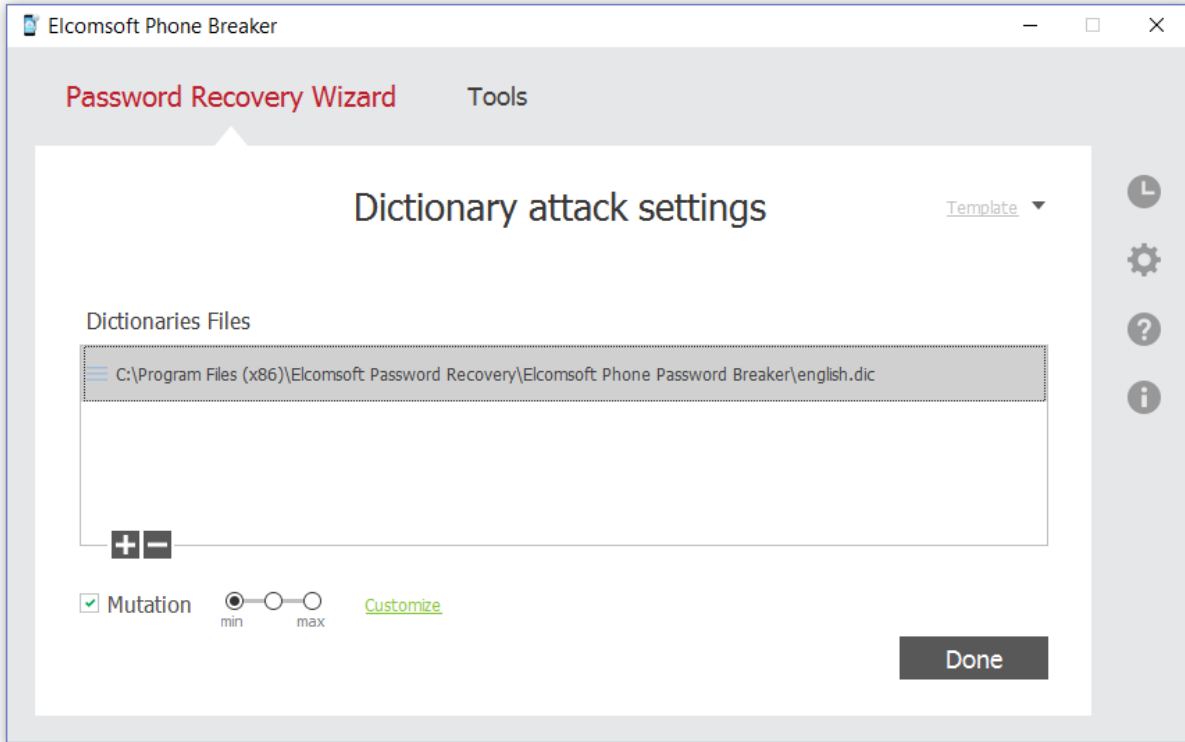
Chapter 6: iOS Logical and Cloud Acquisition

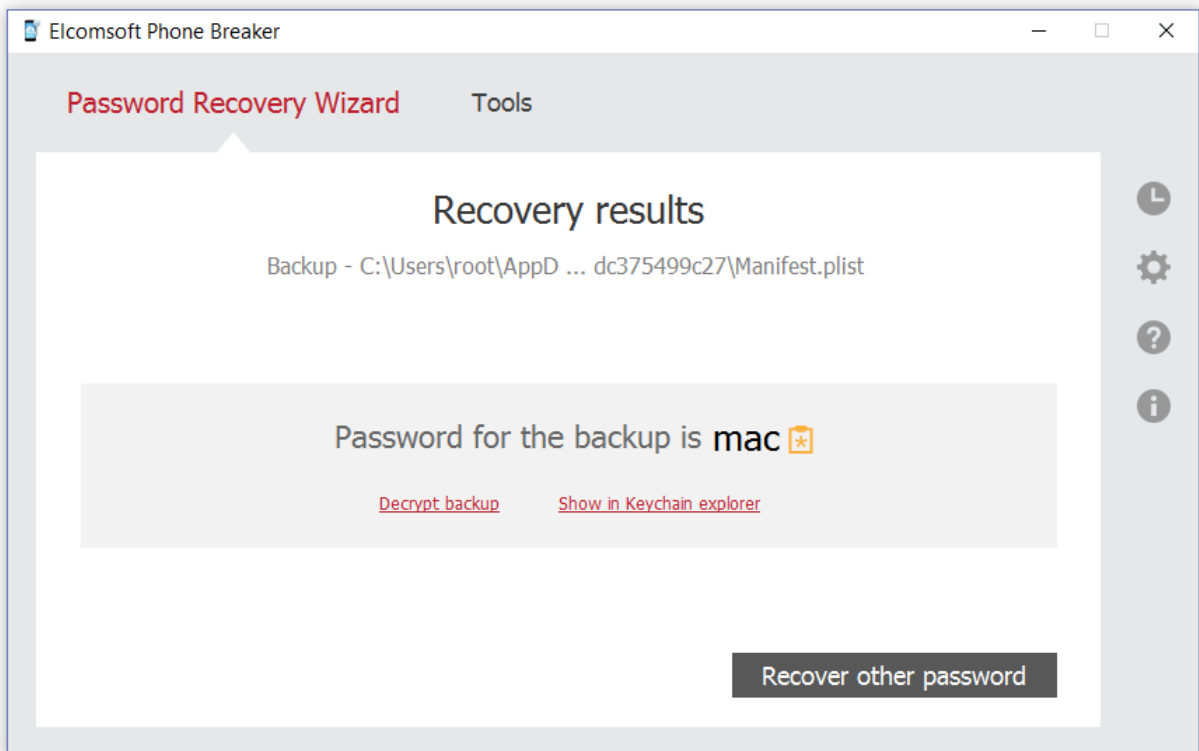
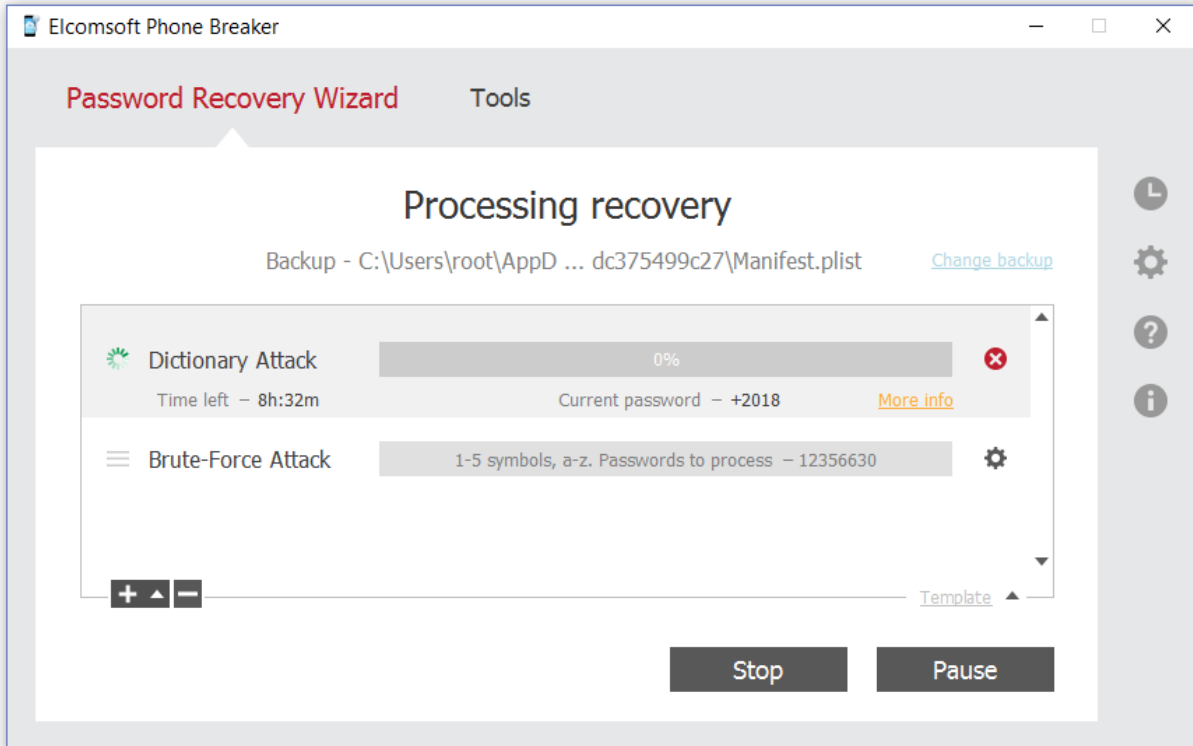


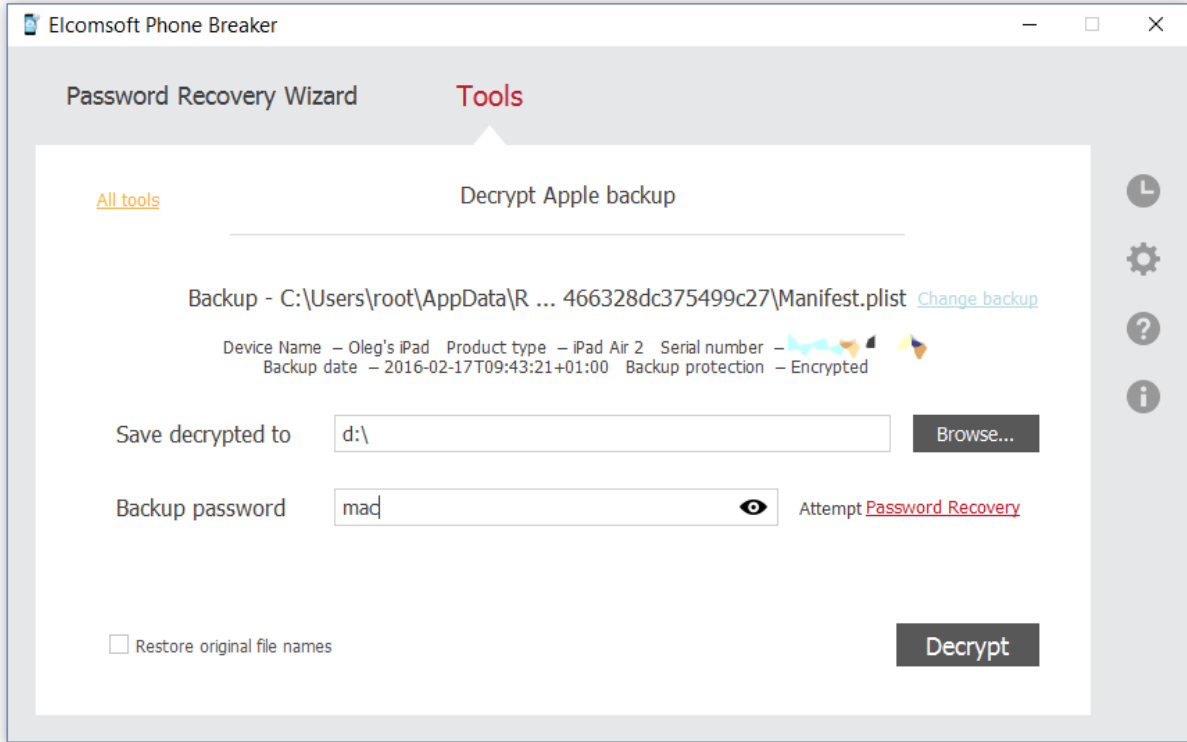
EPB v. 4.10. iTunes Backups

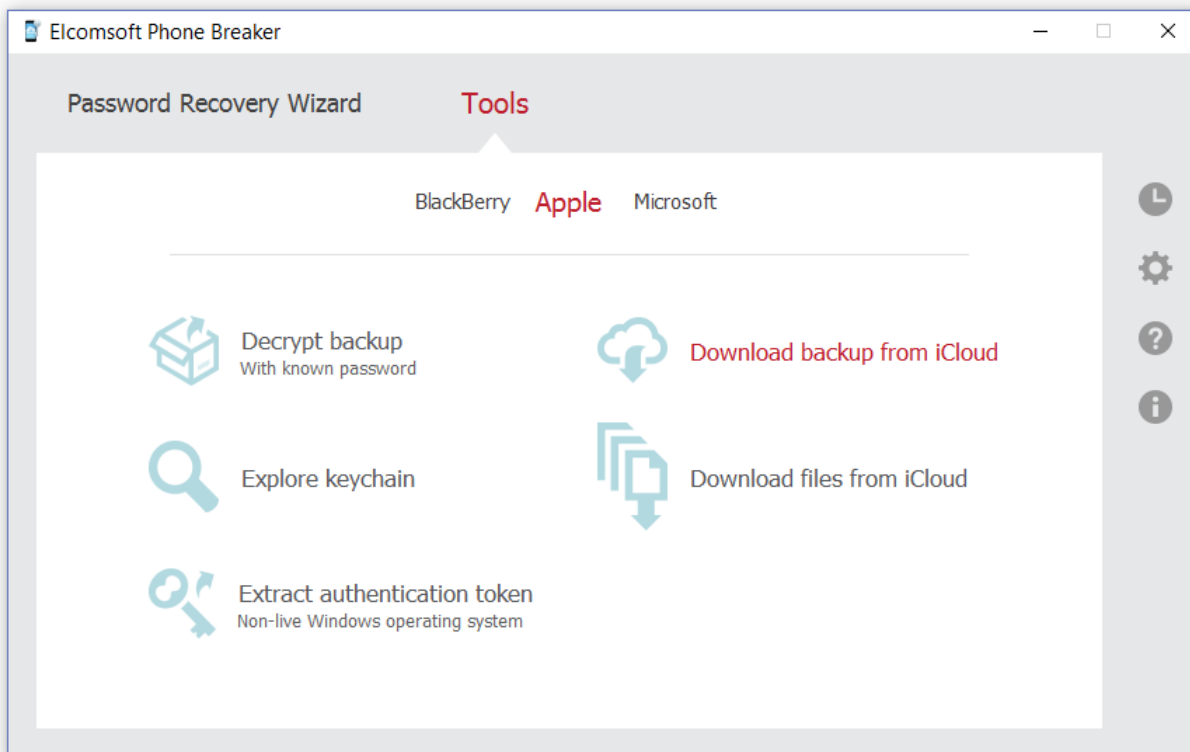
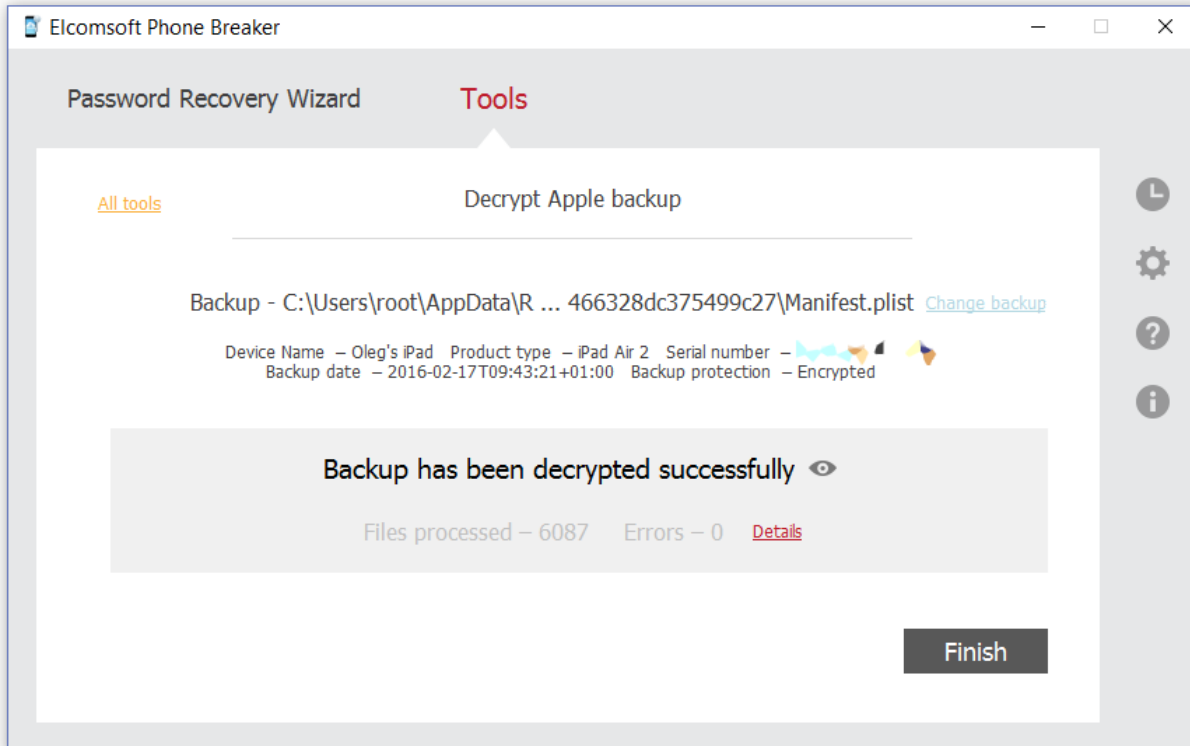


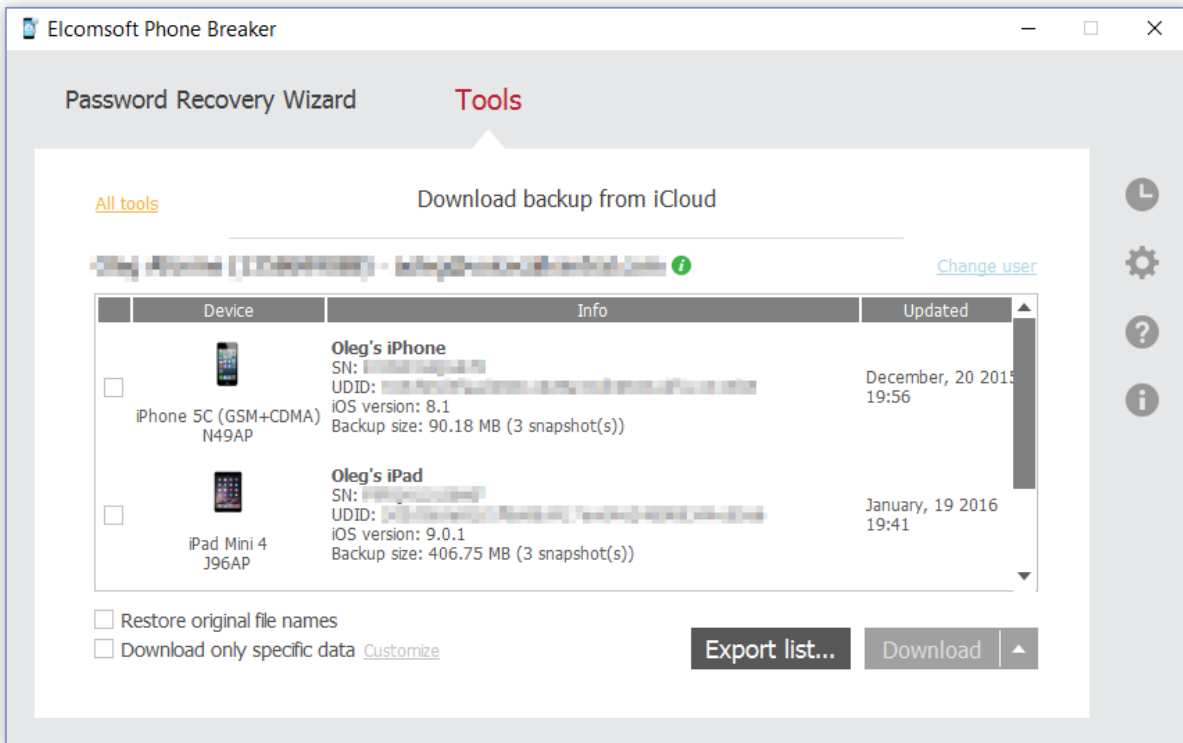
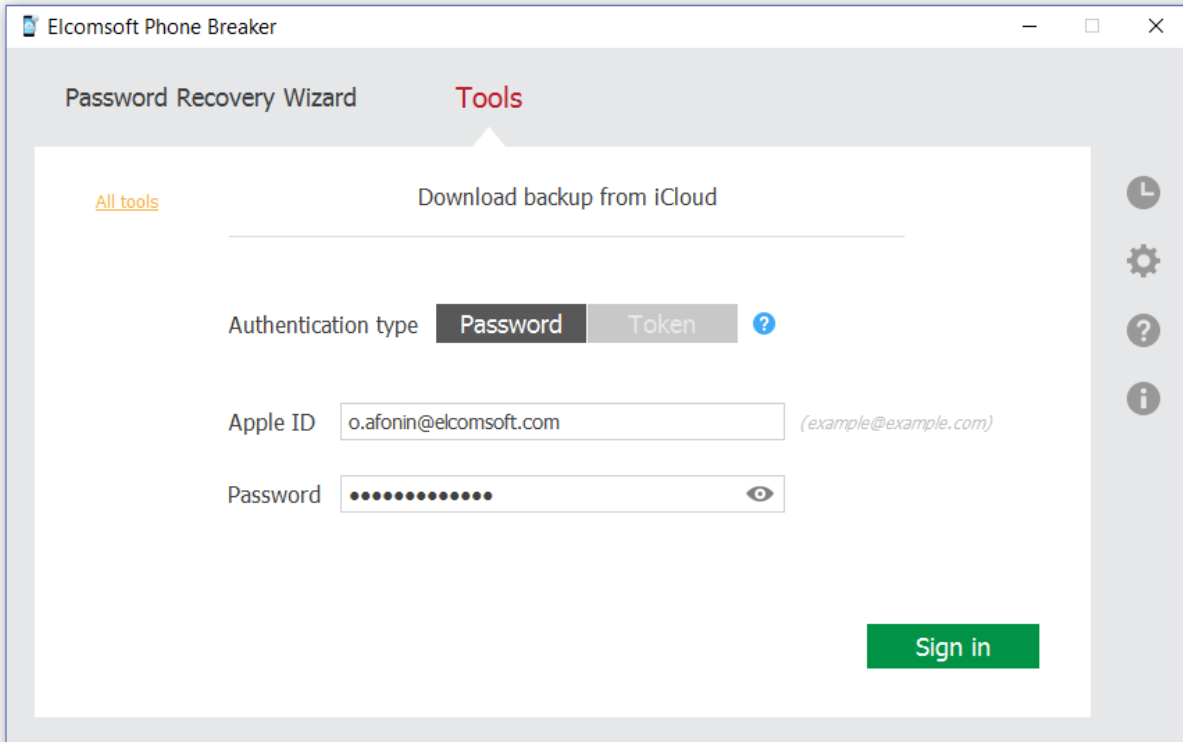




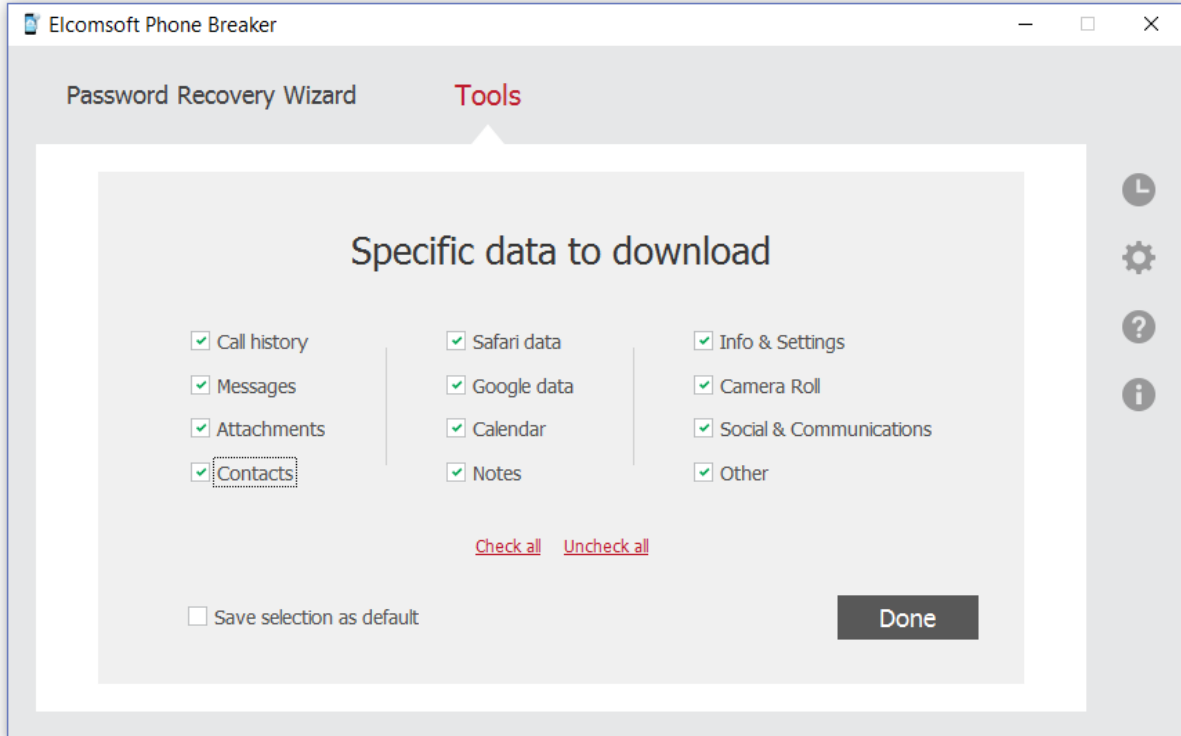




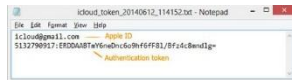
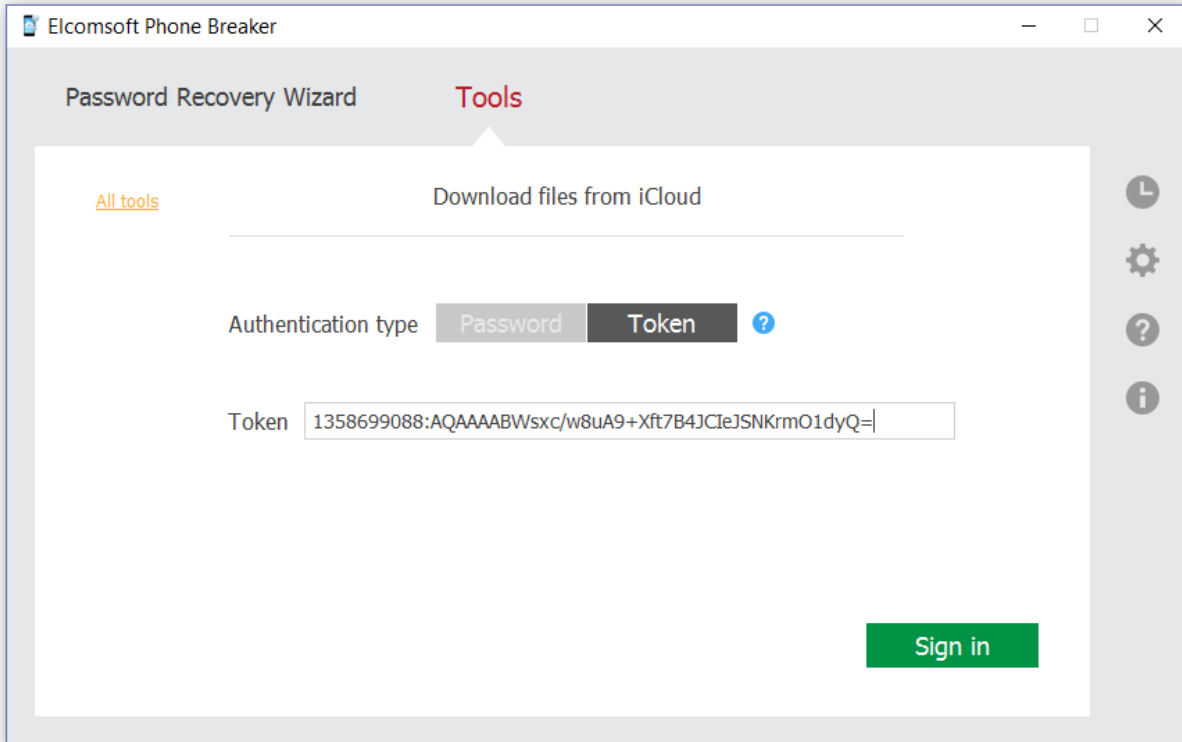




- Restore original file names
- Download only specific data** [Customize](#)



```
icloud_token_20140612_114152.txt - Notepad
File Edit Format View Help
icloud@ms11.com Apple ID
5132798917:ER0DA8TAY6mDnc69Hf6FF81/BFdc8endfg=
Authentication token
```



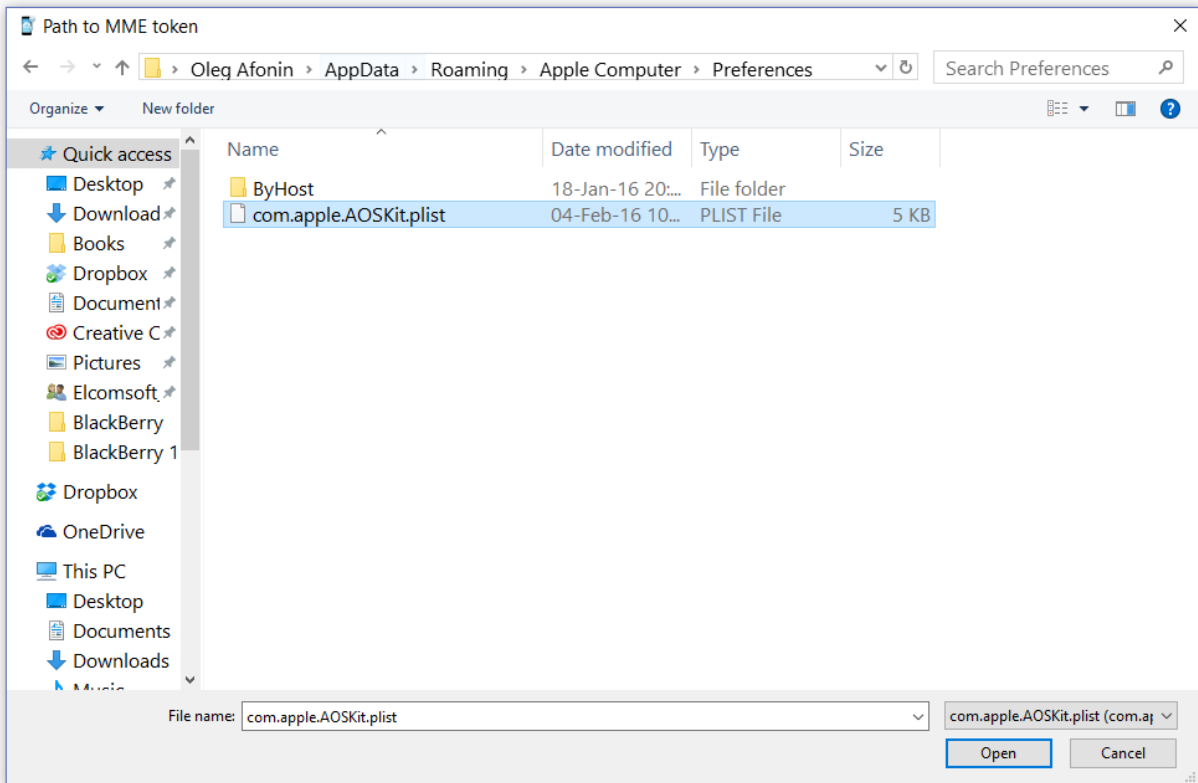
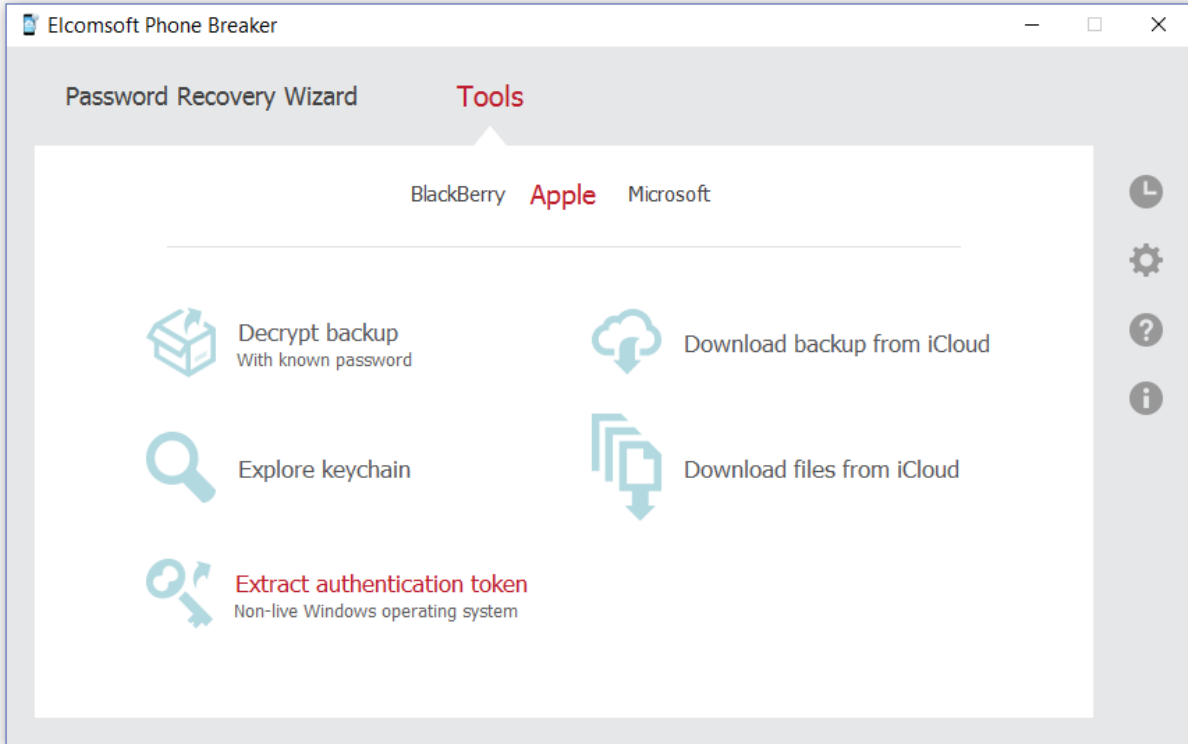
```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.10586]
(c) 2015 Microsoft Corporation. All rights reserved.

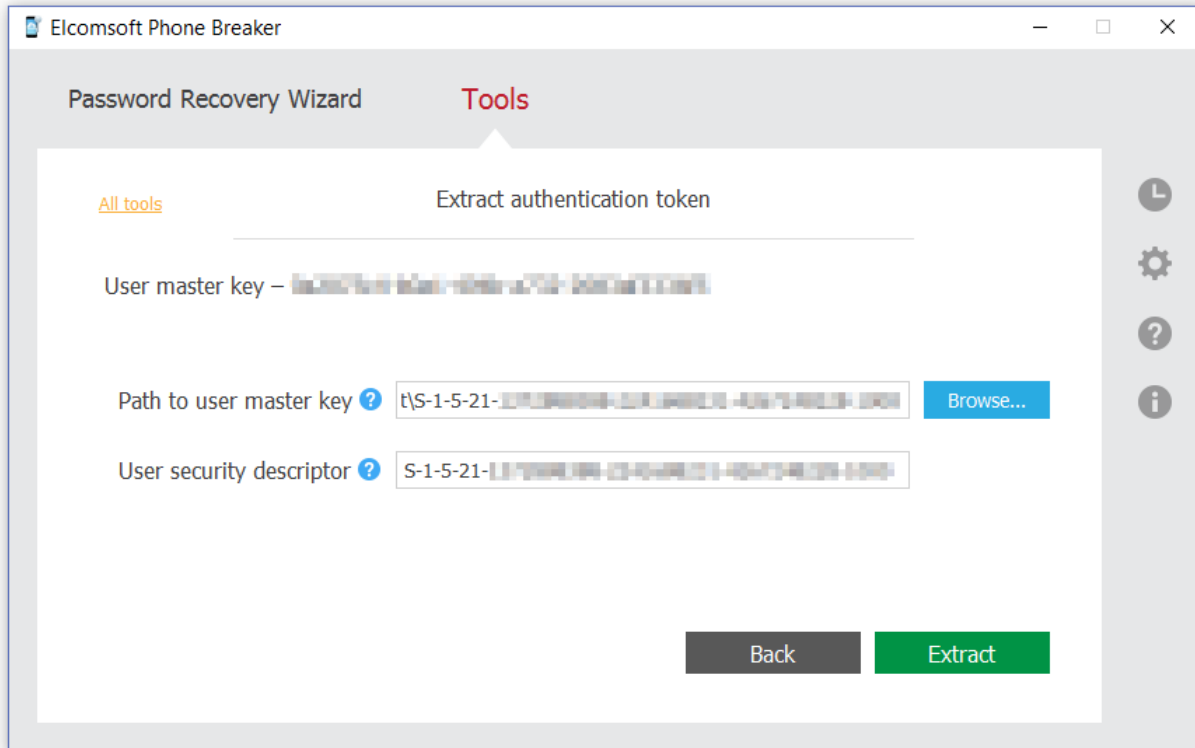
C:\Program Files (x86)\Elcomsoft Password Recovery\Elcomsoft Phone Password Breaker>atex
Can't create file "\\?\C:\Program Files (x86)\Elcomsoft Password Recovery\Elcomsoft Phone
Password Breaker\icloud_token_20160204_104949.txt". Access is denied.

Authentication Token is successfully saved to C:\temp\icloud_token_20160204_104949.txt
Press any key to exit...

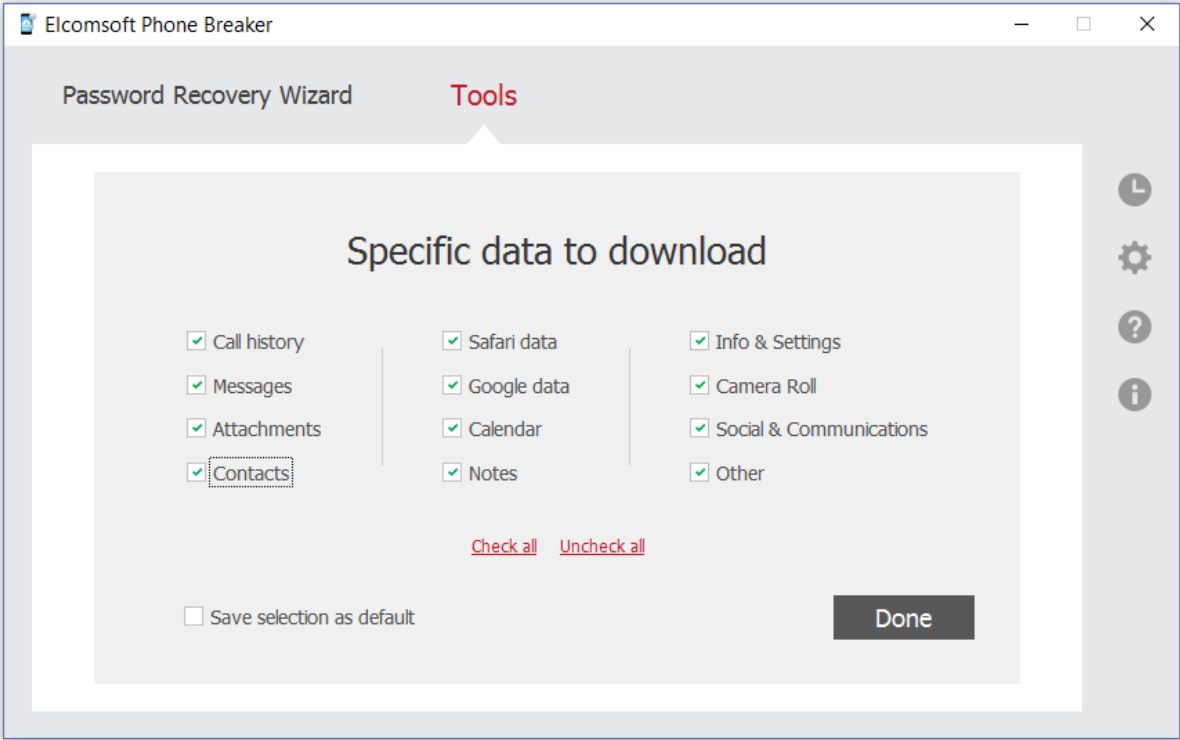
C:\Program Files (x86)\Elcomsoft Password Recovery\Elcomsoft Phone Password Breaker>
```

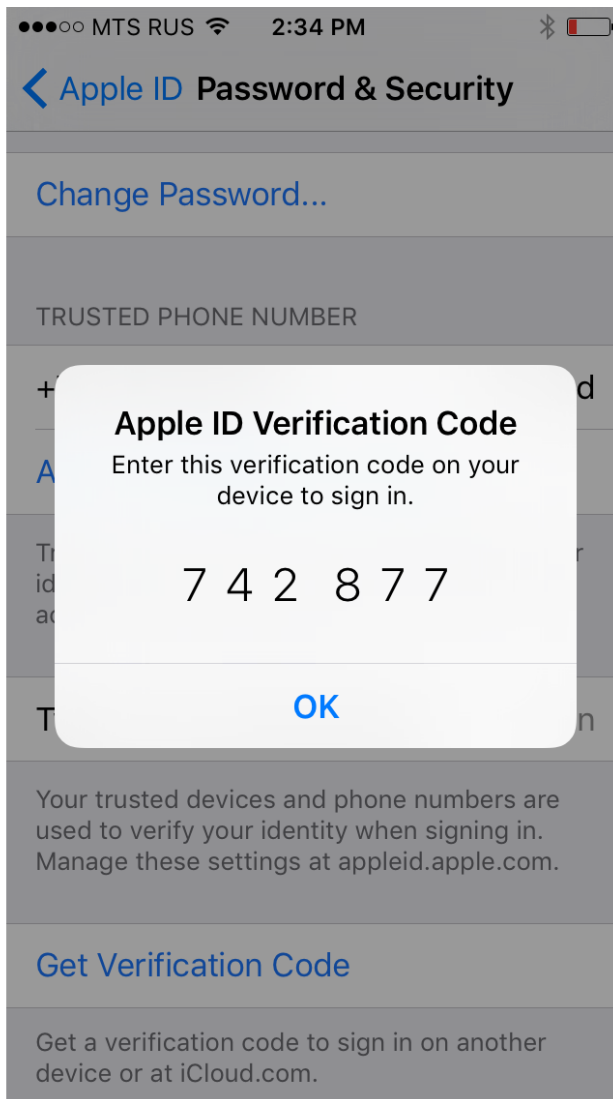
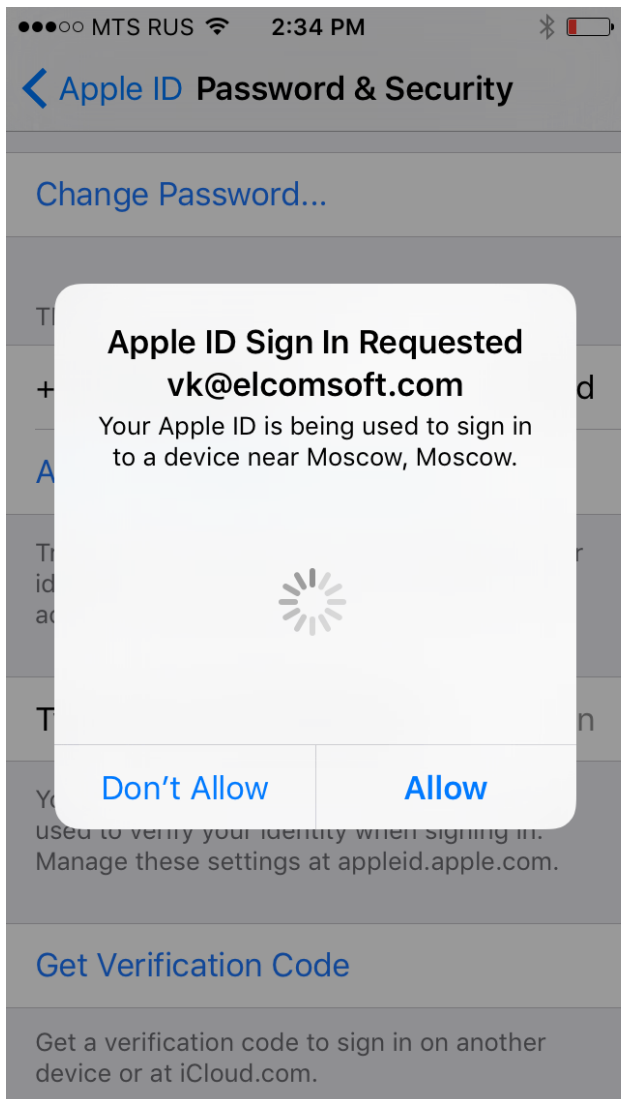
```
icloud_token_20140612_114152.txt - Notepad
File Edit Format View Help
icloud@gmail.com Apple ID
5132790917:EE0DA87aYfmeDnc6o9Hf6F81/BfAd.ben4lg
Authentication token
```





- Restore original file names
- Download only specific data [Customize](#)





Apple ID

Two-Factor Authentication



Resend Code

Get a new verification code.



Text Me

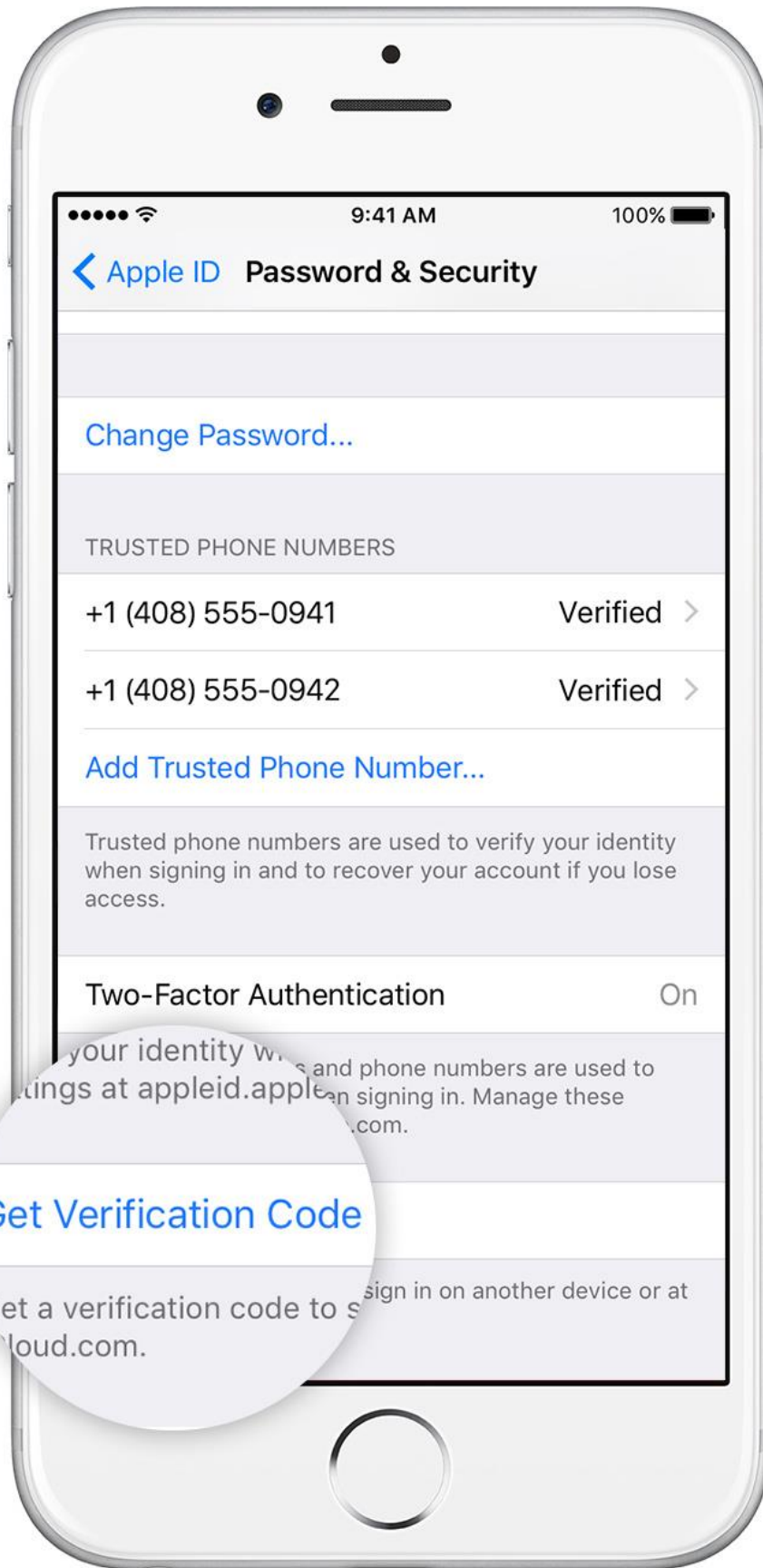
Get a text message with a code.



Need Help?

Other verification options and support.

Did not get a verification code?



9:41 AM 100%

Apple ID Password & Security

Change Password...

TRUSTED PHONE NUMBERS

- +1 (408) 555-0941 Verified >
- +1 (408) 555-0942 Verified >

Add Trusted Phone Number...

Trusted phone numbers are used to verify your identity when signing in and to recover your account if you lose access.

Two-Factor Authentication On

your identity with trusted phone numbers and phone numbers are used to verify your identity when signing in. Manage these settings at appleid.apple.com.

Get Verification Code

Get a verification code to sign in on another device or at appleid.apple.com.



Two-Factor Authentication

A valid credit card on file is recommended for two-factor authentication.

Credit card information may be used to verify your identity if you forget your password. Update your payment information in iCloud Settings.

[Turn On Anyway](#)

[Cancel](#)

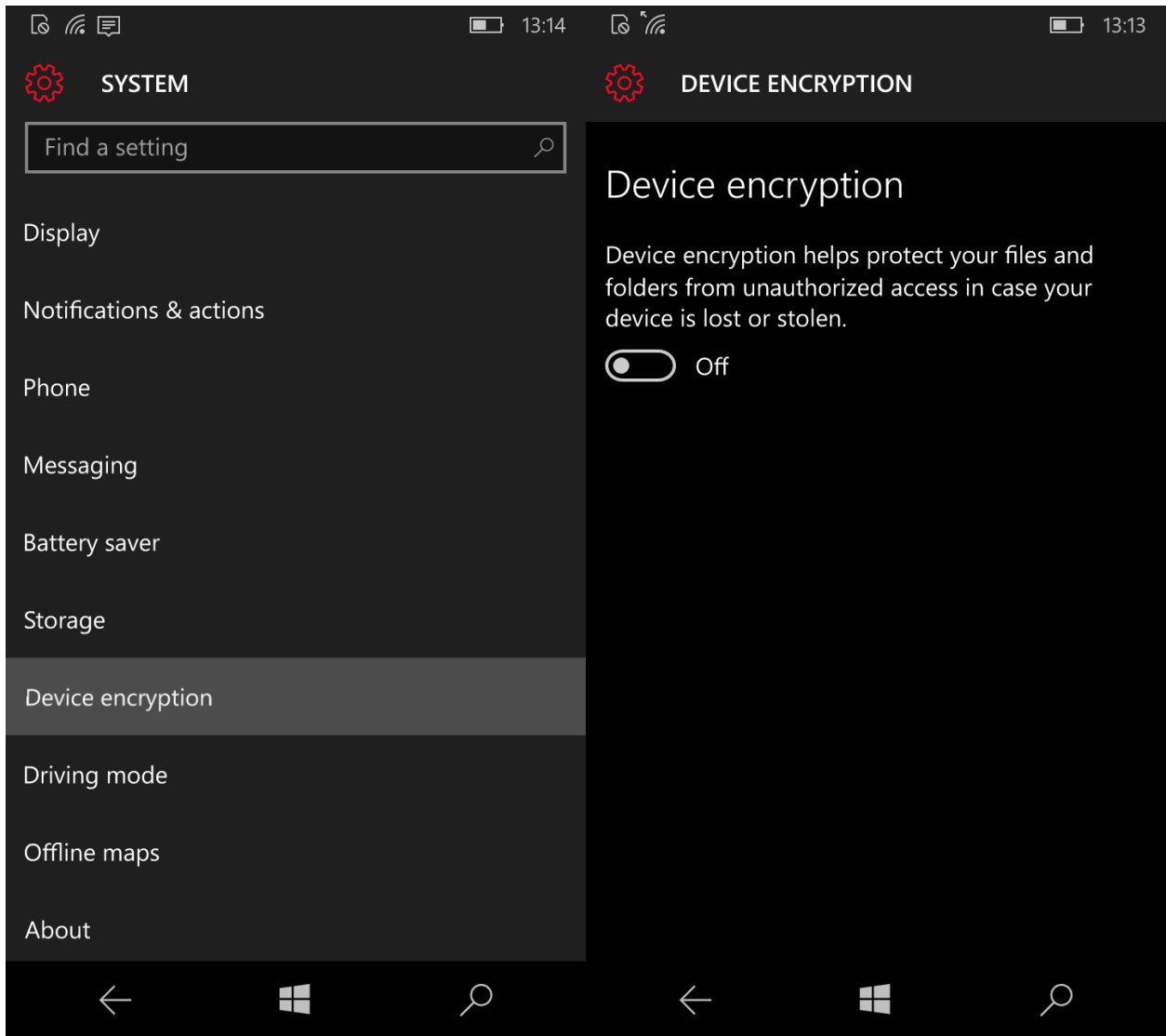
[Learn More...](#)

[Continue](#)

Chapter 7: Acquisition – Approaching Windows Phone and Windows 10 Mobile

Smartphone OS Sales Share (%)

Germany	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	77.9	79.2	1.3
iOS	10.7	11.8	1.1
Windows	8.5	7.1	-1.4
Other	2.9	1.8	-1.1
GB	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	55.5	58.2	2.7
iOS	29.3	31.0	1.7
Windows	10.0	9.6	-0.4
Other	5.2	1.2	-4.0
France	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	68.2	72.7	4.5
iOS	15.0	15.4	0.4
Windows	10.7	10.6	-0.1
Other	6.1	1.2	-4.9
Italy	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	71.6	71.8	0.2
iOS	10.2	10.4	0.2
Windows	13.7	15.2	1.5
Other	4.6	2.6	-2.0
Spain	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	89.5	90.4	0.9
iOS	4.8	6.3	1.5
Windows	3.8	3.0	-0.8
Other	1.9	0.3	-1.6
USA	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	57.3	61.8	4.5
iOS	35.9	32.6	-3.3
Windows	4.6	4.3	-0.3
Other	2.1	1.2	-0.9
China	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	80.4	83.4	3.0
iOS	13.8	15.2	1.4
Windows	3.2	0.4	-2.8
Other	2.6	1.0	-1.6
Australia	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	55.6	58.1	2.5
iOS	32.6	34.7	2.1
Windows	9.3	6.2	-3.1
Other	2.5	1.0	-1.5
Japan	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	50.0	64.5	14.5
iOS	47.2	31.3	-15.9
Windows	0.7	0.9	0.2
Other	2.1	3.2	1.1
EU5	3 m/e Sep 2013	3 m/e Sep 2014	% pt. Change
Android	72.5	73.9	1.4
iOS	13.9	15.4	1.5
Windows	9.4	9.2	-0.3
Other	4.2	1.5	-2.7



Password Recovery Wizard

Tools

BlackBerry Apple **Microsoft**



Download Windows Phone data
Messages, Contacts and Notes



Password Recovery Wizard

Tools

[All tools](#)

Download Windows Phone data

User name (example@example.com)

Password

Sign in



Password Recovery Wizard

Tools

[All tools](#)

Download Windows Phone data

User name - [blurred]

[Change user](#)

Save data to

Browse...

Download



Password Recovery Wizard

Tools

[All tools](#)

Download Windows Phone data

User name - [blurred]

Downloading notes



Files downloaded – 2 Errors – 0

Stop



Password Recovery Wizard

Tools

[All tools](#)

Download Windows Phone data

User name – [blurred]

Downloading is finished

Files processed – 2

Finish



OneDrive

Options

Storage

Office file formats





Tagging

Notifications


Device backups

Search

Backed-up device settings

	NOKIA (Windows Phone) Last backup 03/01/2016	Delete
	Microsoft (Windows Phone) Last backup 24/11/2015	Delete
	Dell Inc. (XPS-M1330) Last backup 19/05/2015	Delete
	Nokia (NOKIALUMIA) Last backup 25/01/2016	Delete

Backup Date: 2016-01-27 14:06:04Z



Windows Phone
Microsoft Lumia 640 LTE



Contacts (608)




Messages (2)



Notes (0)



Backup Date: 2016-01-27 14:06:04Z



DESKTOP-14TGR50
20BN003AGE



Contacts (608)



Messages (2)



Notes (0)



Windows Phone

[Device Info](#)

Messages



+491760001050 (2)

21 October 2014

Sms 14:16:36 (UTC +2)

Lieber o2 Kunde, Ihre o2 Multicard Anrufweiterleitungspriorität wurde wunschgemäß geändert. Ihr o2 Team

Sms 14:16:25 (UTC +2)

Lieber o2 Kunde, Ihre o2 Multicard Gerätebezeichnung wurde wunschgemäß geändert. Ihr o2 Team



Windows Phone

[Device Info](#)

Contacts



- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]
- [blurred]



First Name 夜知
 Groups Skype-Enabled

夜知

虹铭李



Options

Storage

Office file formats





Tagging

Notifications

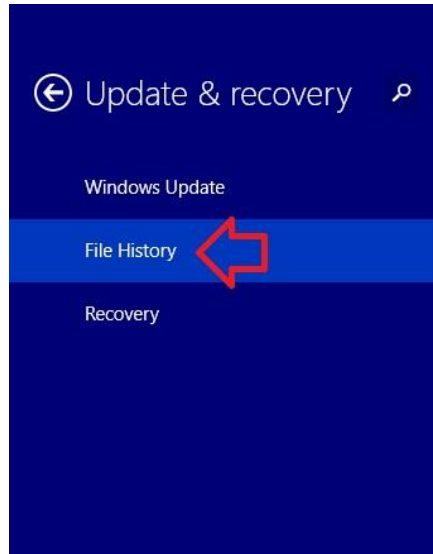
Device backups

Search

Backed-up device settings

	NOKIA (Windows Phone) Last backup 03/01/2016	Delete
	Microsoft (Windows Phone) Last backup 24/11/2015	Delete
	Dell Inc. (XPS-M1330) Last backup 19/05/2015	Delete
	Nokia (NOKIALUMIA) Last backup 25/01/2016	Delete

Chapter 8: Acquisition - Approaching Windows 8, 8.1, 10, and RT Tablets



EightForums.com

File History

Automatically back up copies of your personal files on this PC in Documents, Music, Pictures, Videos, and desktop to a drive so you can get them back if they're lost or damaged.

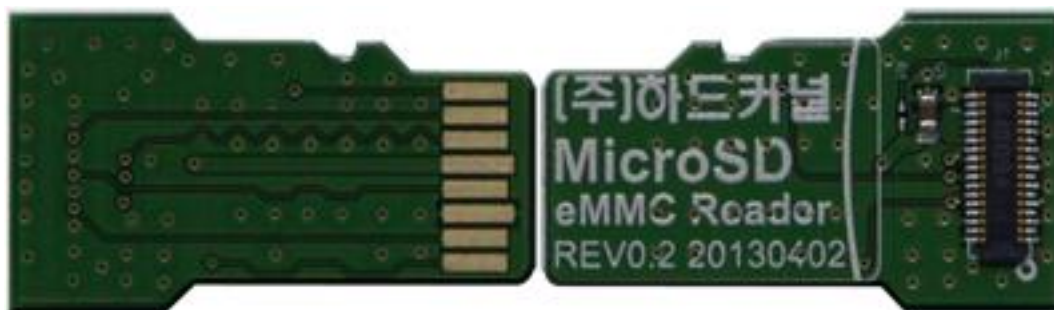
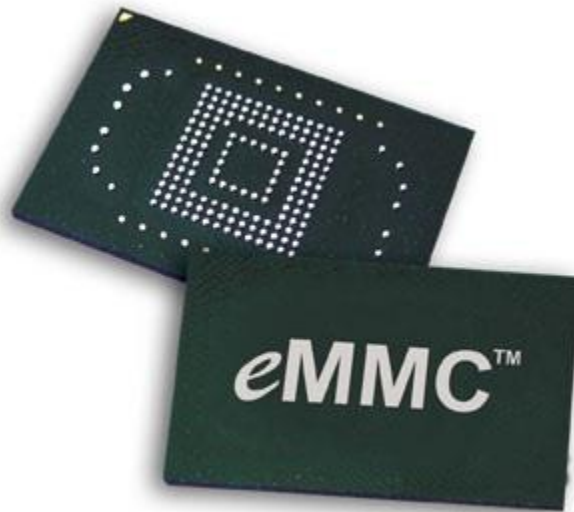
File History
Off

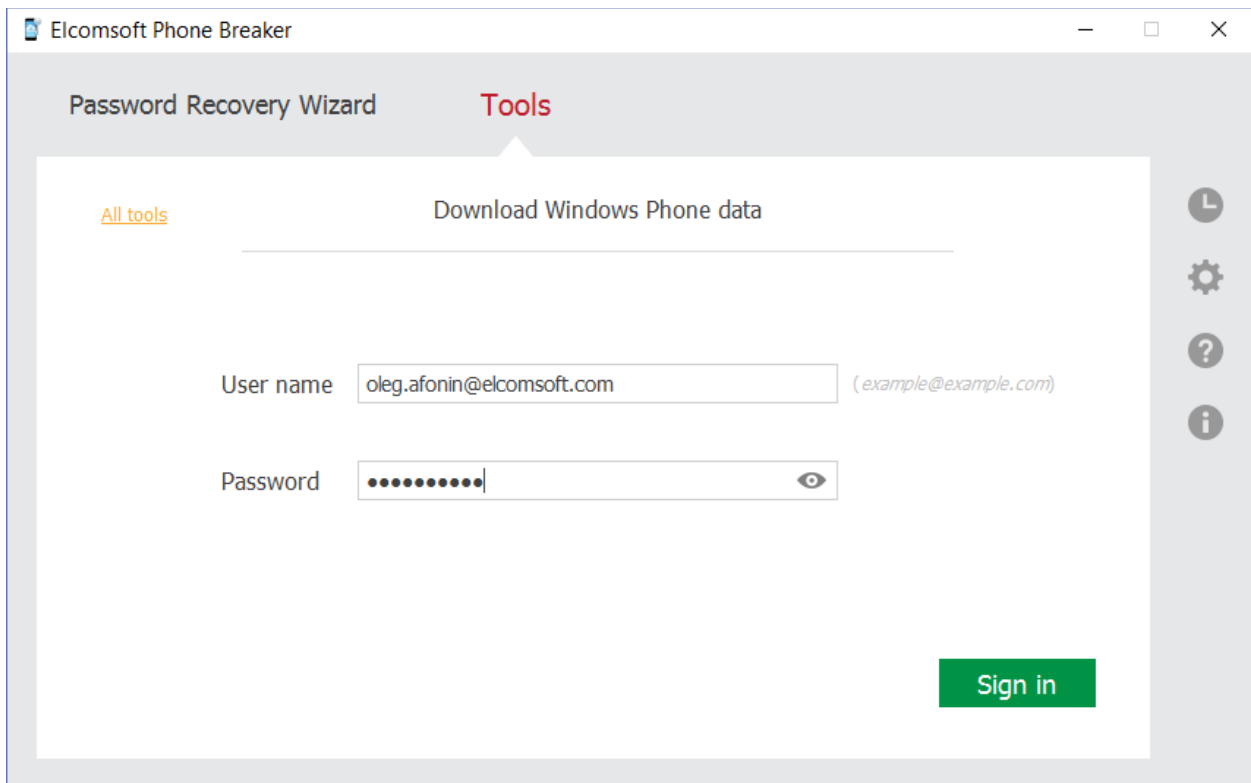
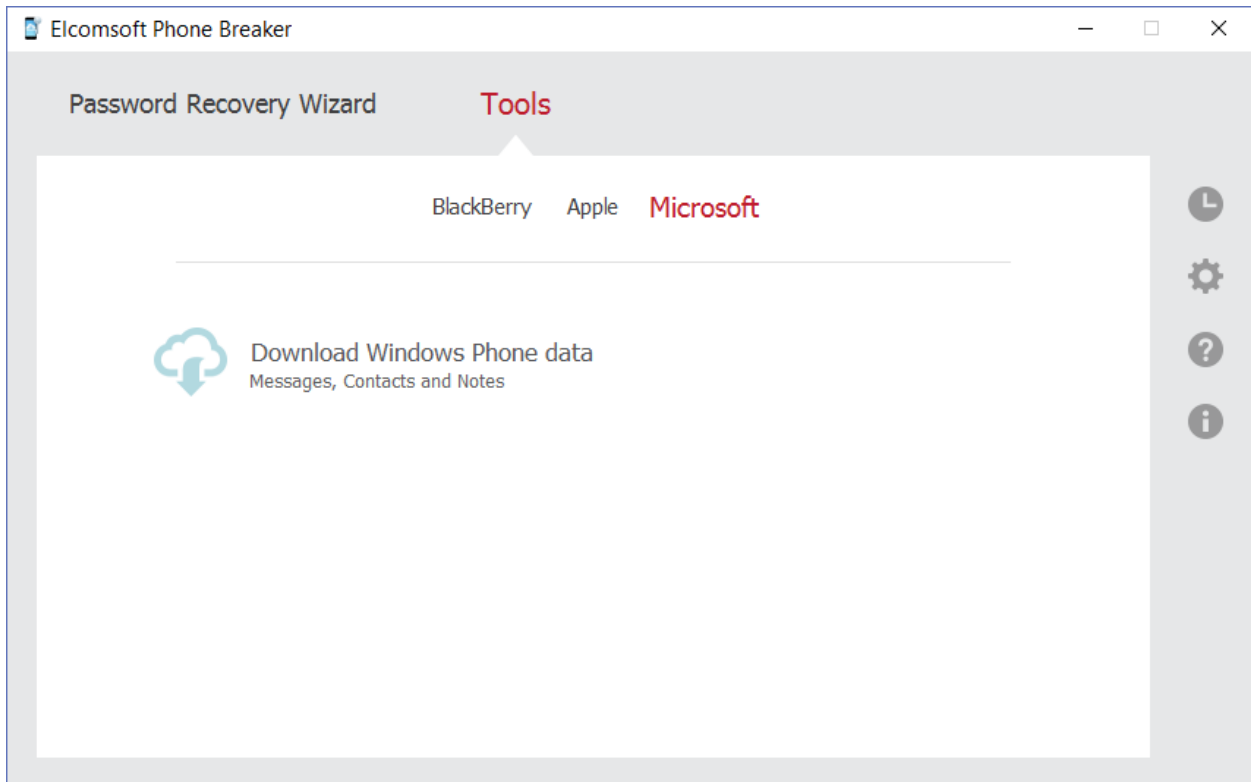
Back up your personal files on this PC to Backups (D:), 1.32 TB free of 1.36 TB


[Select a different drive](#)

Your files haven't been backed up.

[Back up now](#)





 OneDrive

Options

Storage

Office file formats





Tagging

Notifications

Device backups

Search

Backed-up device settings

	NOKIA (Windows Phone) Last backup 03/01/2016	Delete
	Microsoft (Windows Phone) Last backup 24/11/2015	Delete
	Dell Inc. (XPS-M1330) Last backup 19/05/2015	Delete
	Nokia (NOKIALUMIA) Last backup 25/01/2016	Delete


Elcomsoft Phone Breaker

Password Recovery Wizard **Tools**

[All tools](#)





Download Windows Phone data

User name -


Downloading notes 

Files downloaded - 2 Errors - 0

[Stop](#)

Backup Date: 2016-01-27 14:06:04Z



DESKTOP-14TGR50
20BN003AGE



Contacts (608)



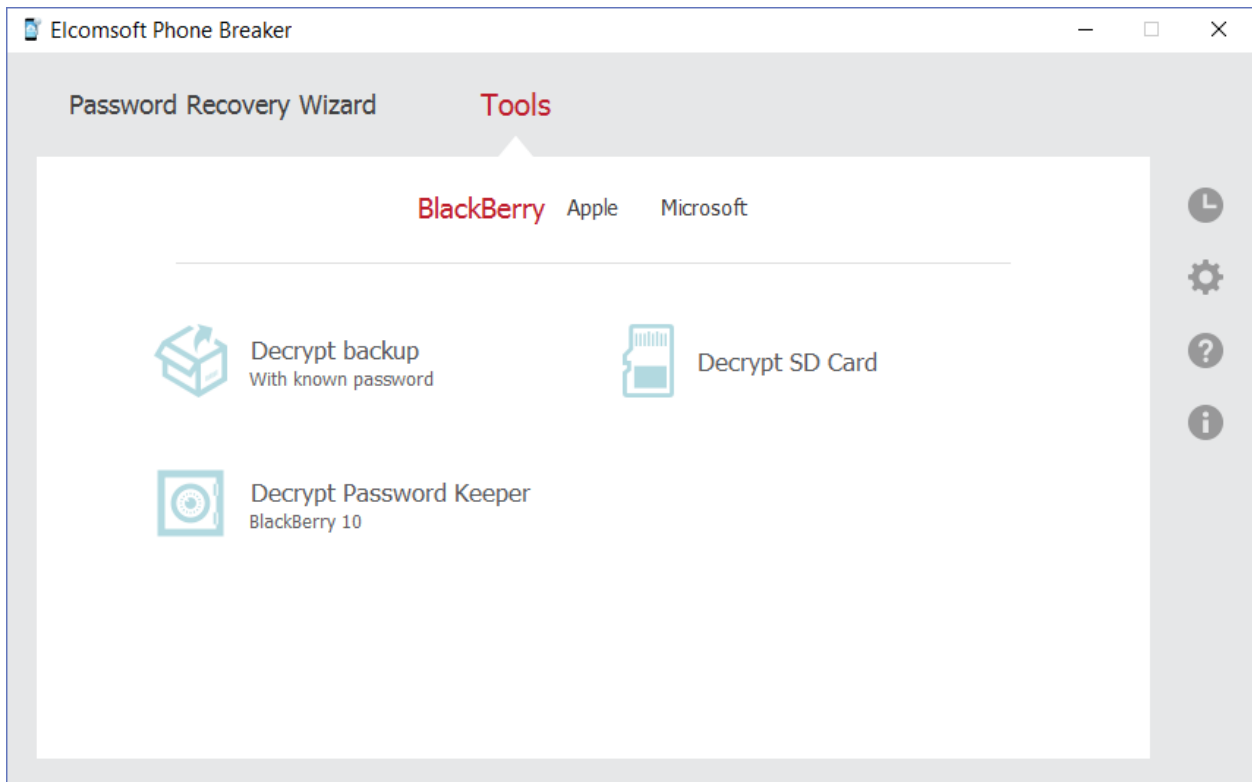
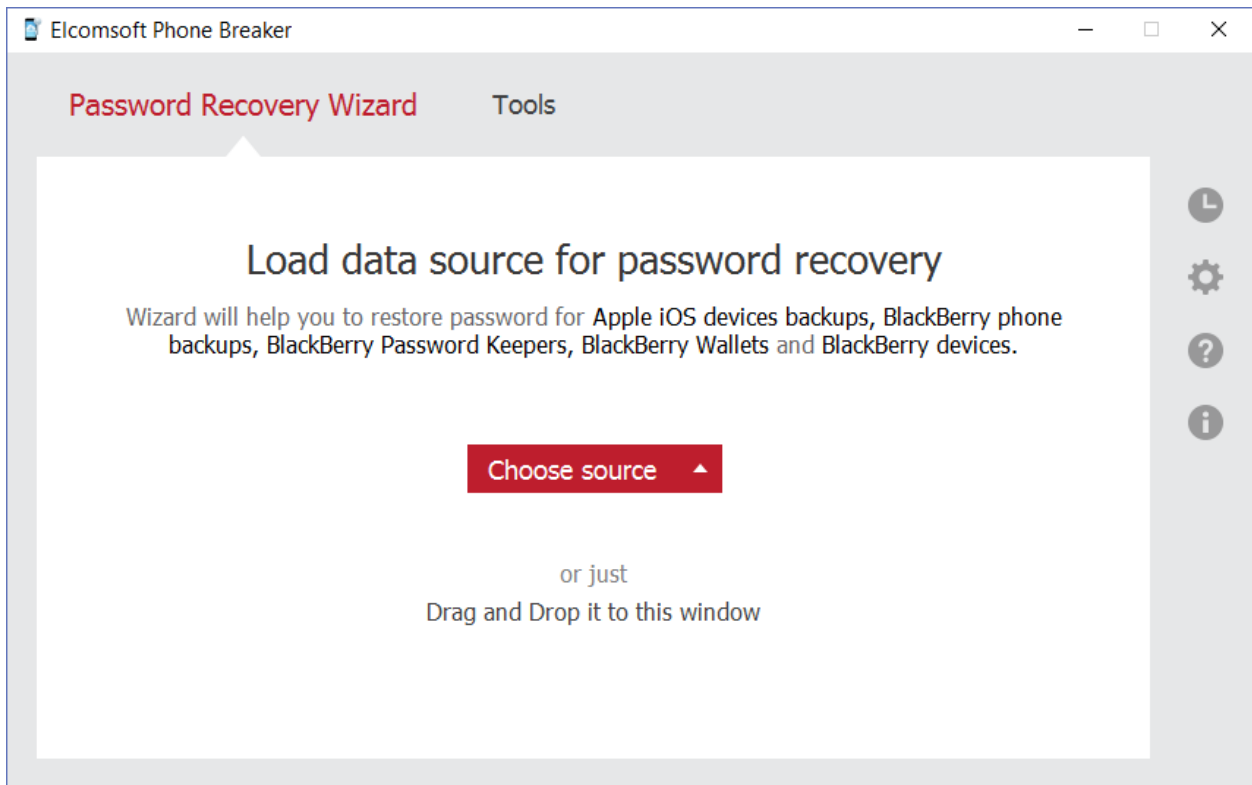
Messages (2)

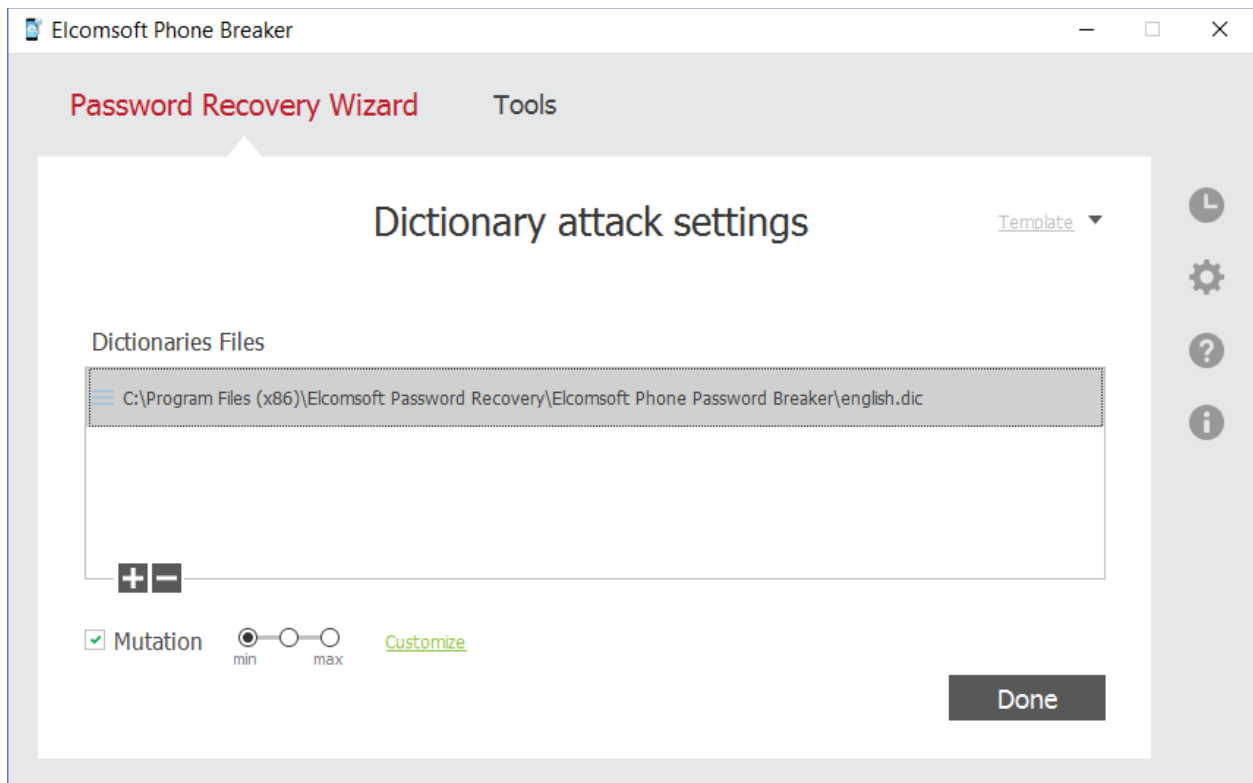
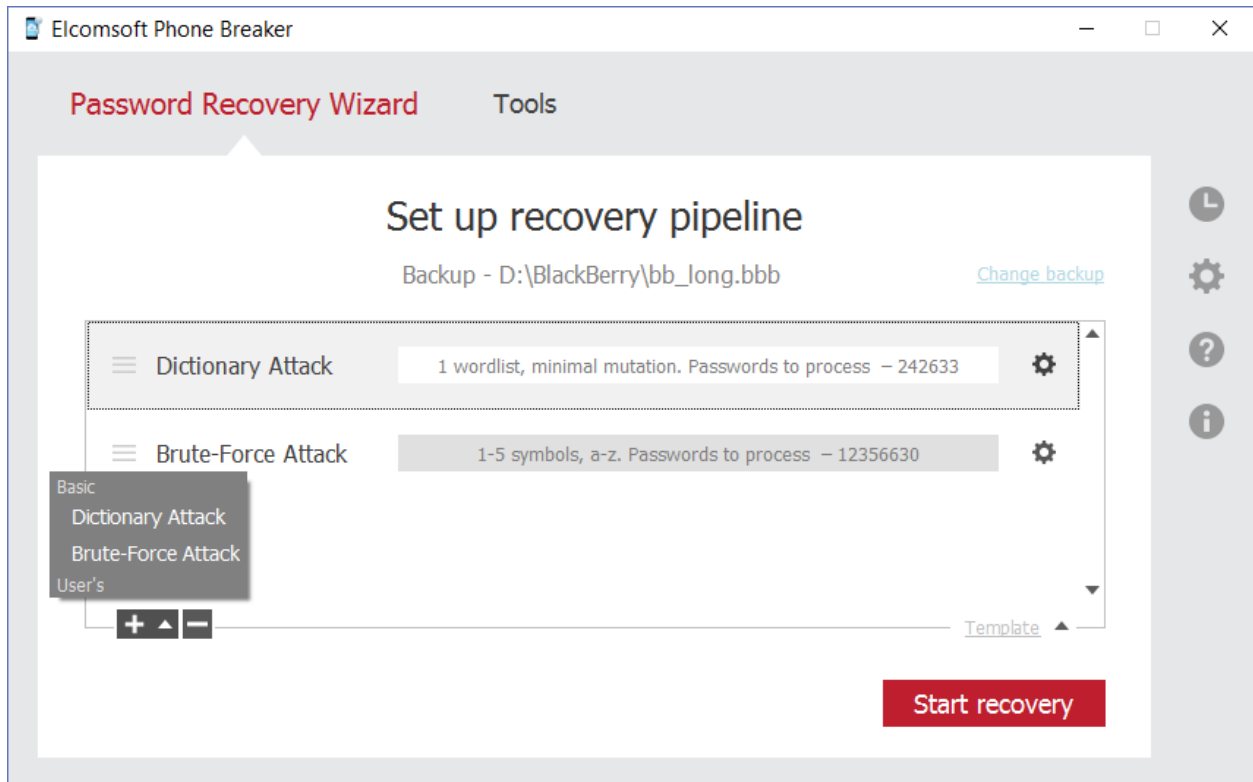


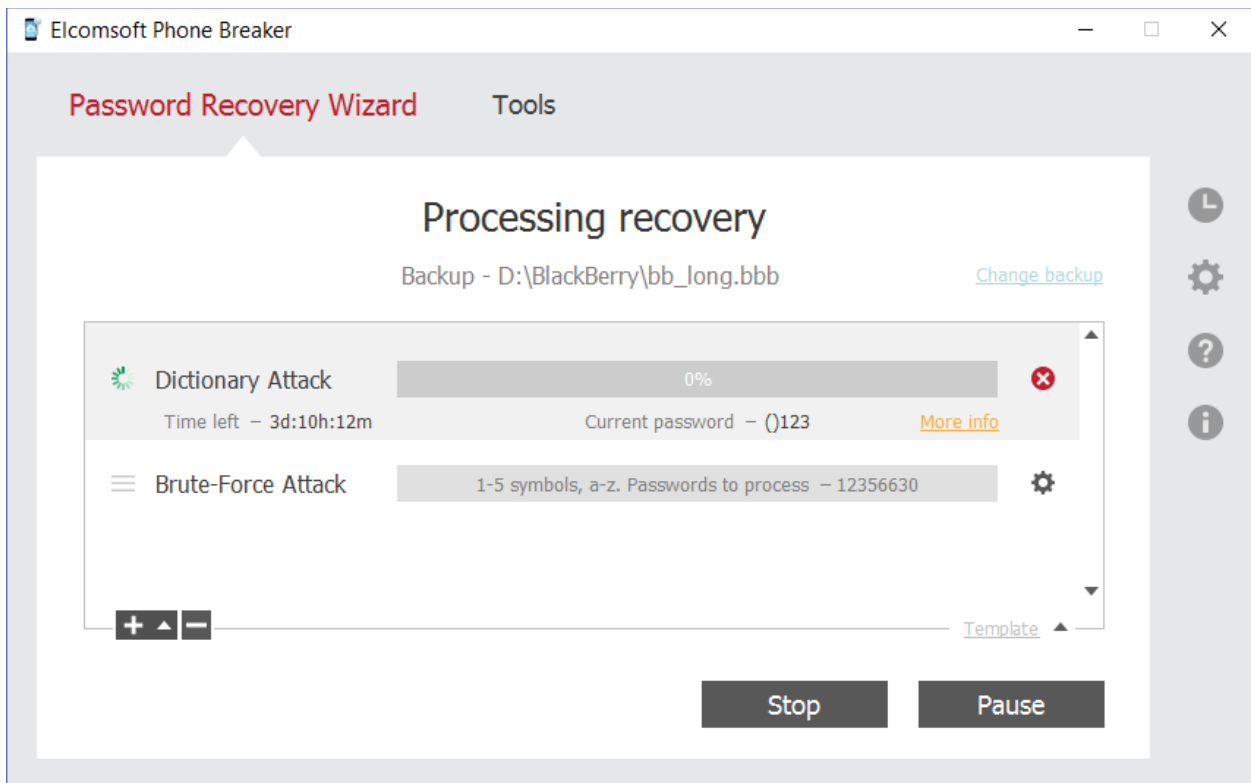
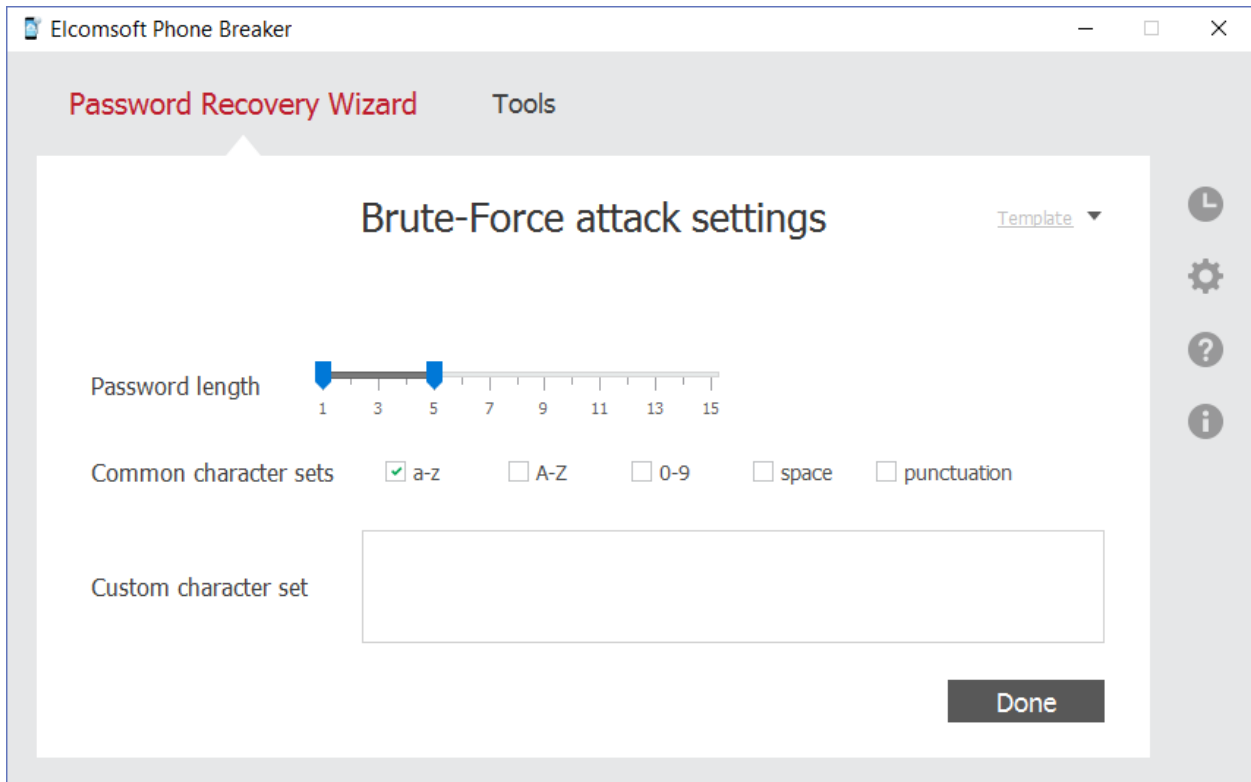
Notes (0)

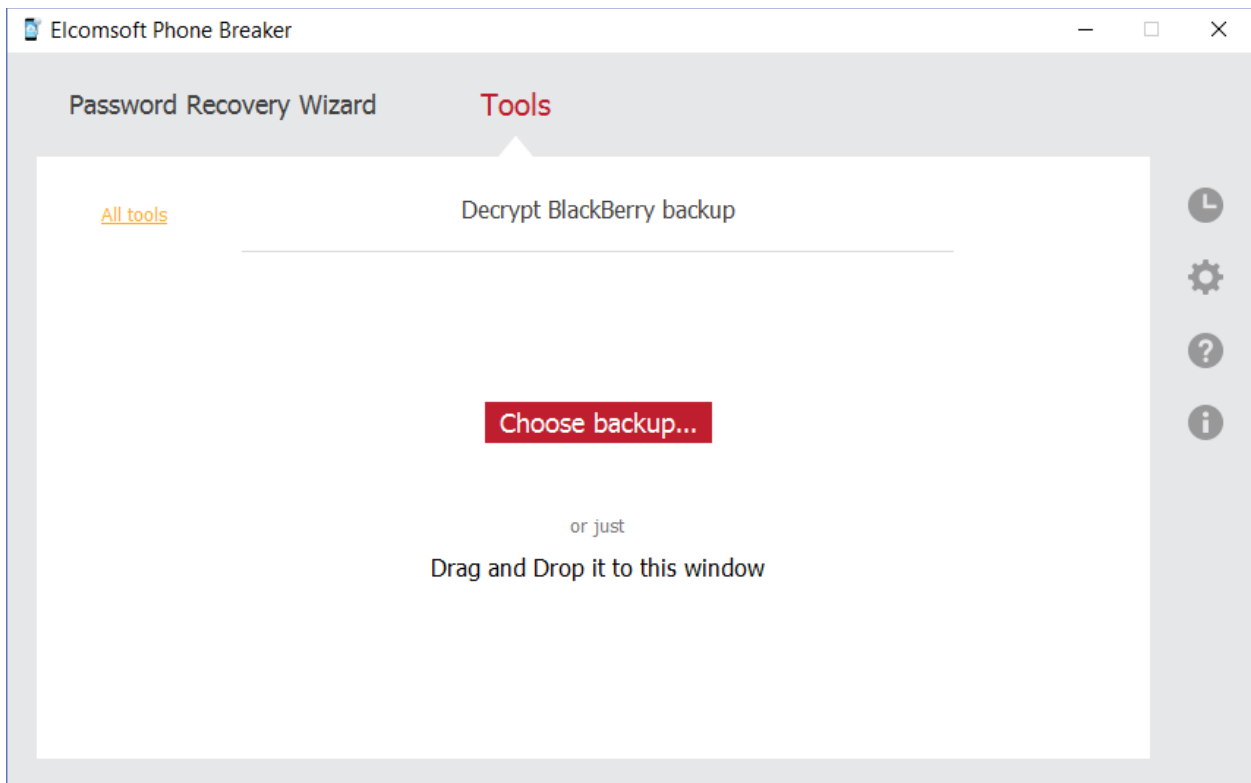
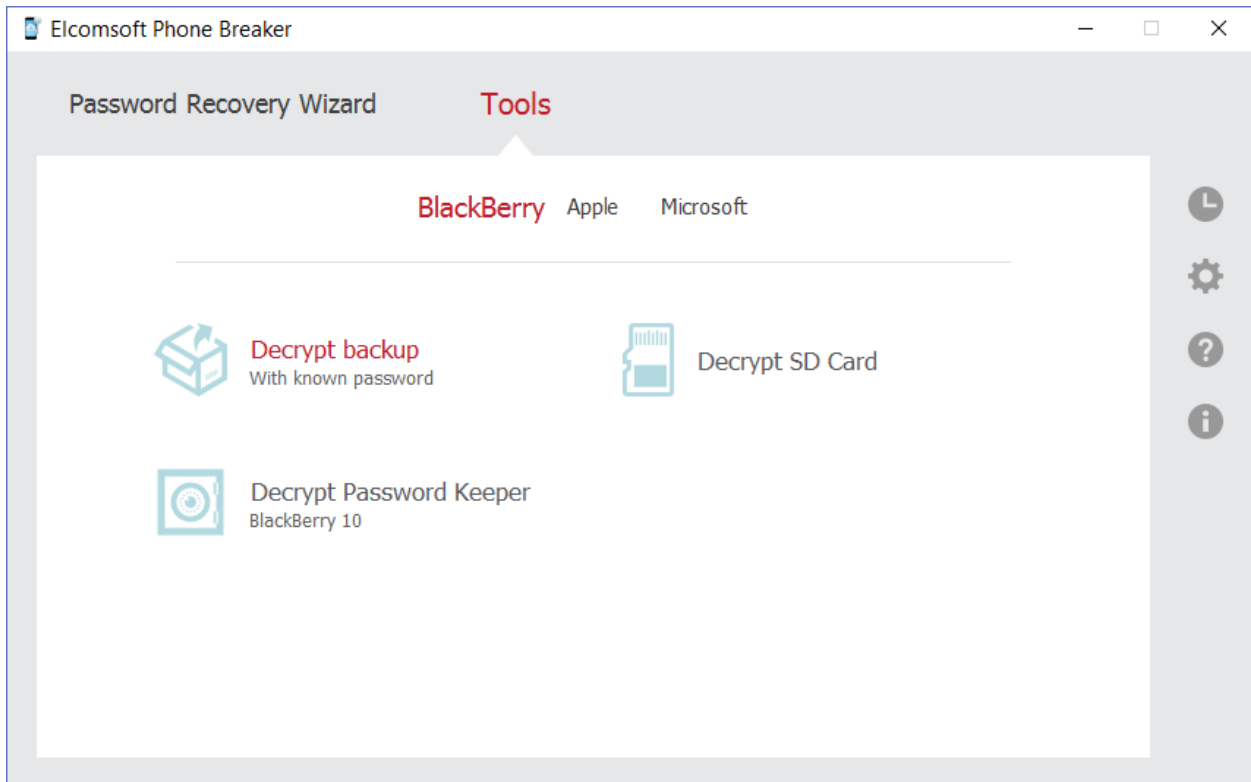


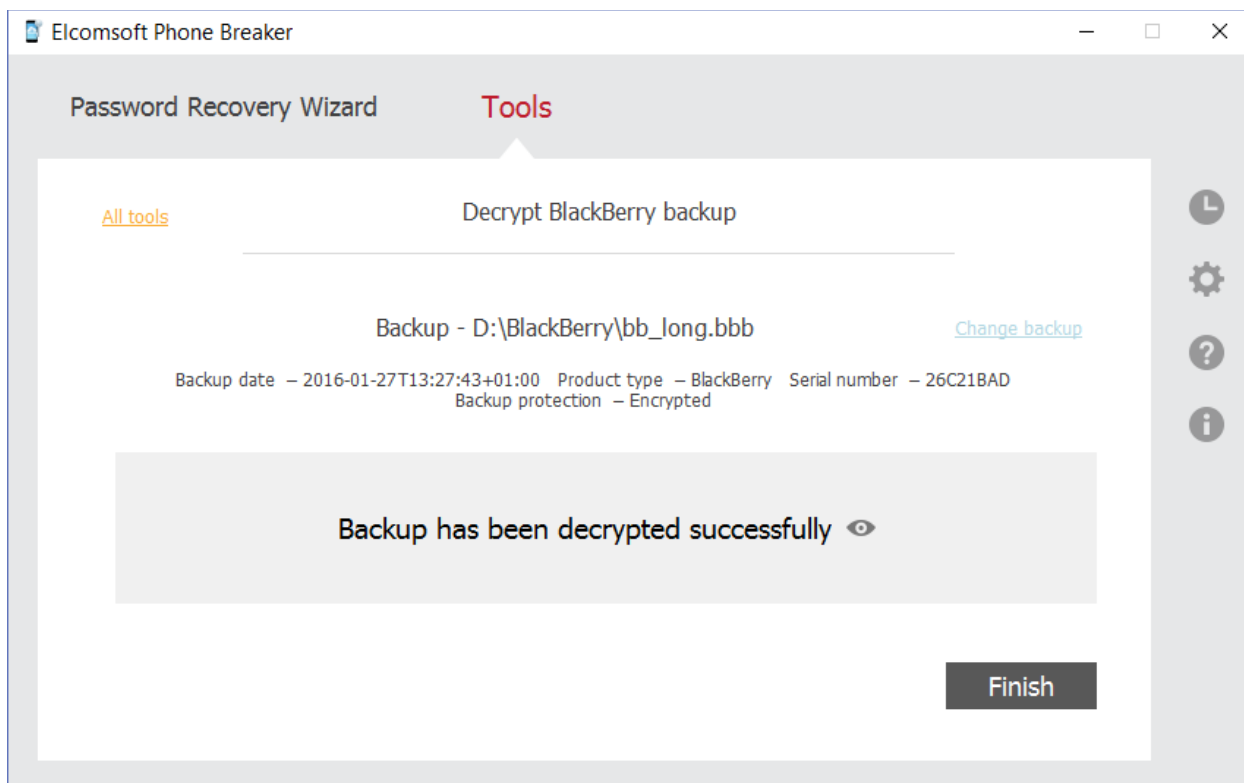
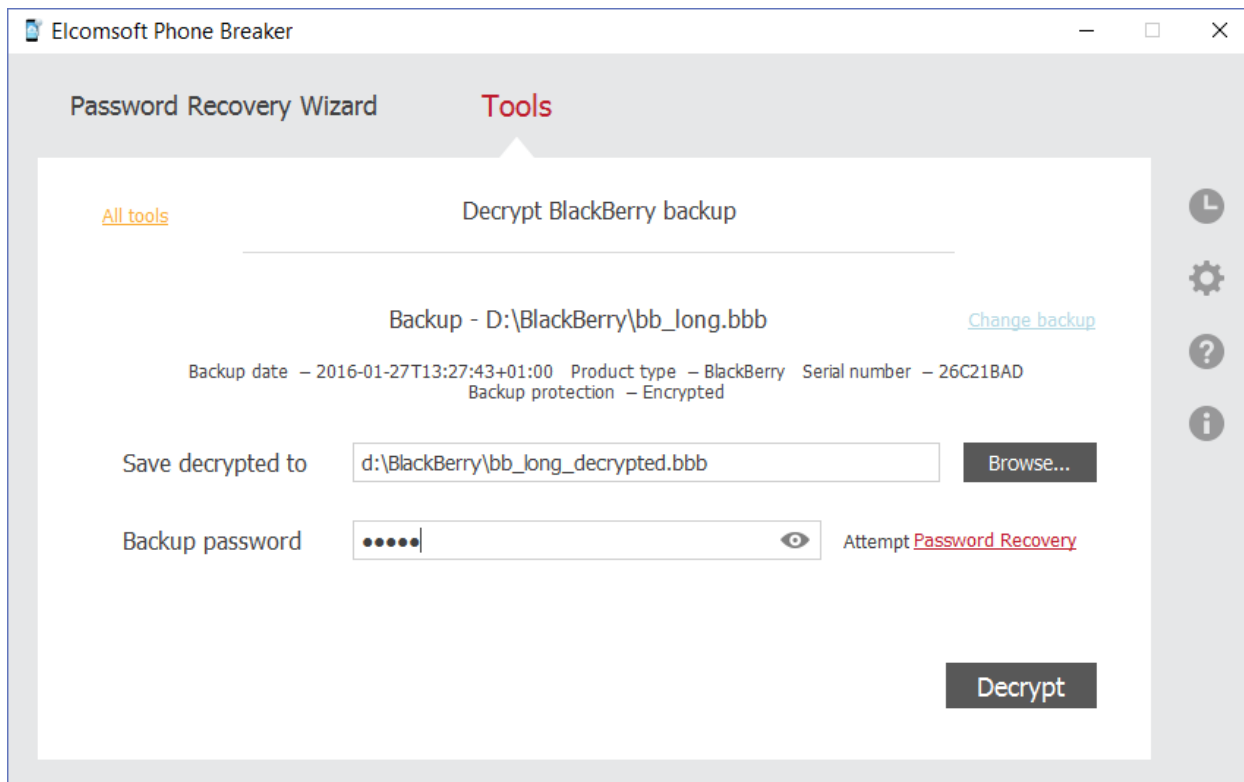
Chapter 9: Acquisition - Approaching BlackBerry











This Computer - ROOT-PC

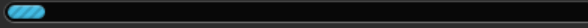
Devices

BLACKBERRY-BLCK
Connected

BLACKBERRY-BFFF
Disconnected

Copying Data From Your Device











Backing up "BlackBerry Runtime" data - 6%












Cancel

[Show Recent Activity](#)

System Settings

-  **Device Connections**
Connect to devices and share files
-  **BlackBerry ID**
Set up username, password, name
-  **BlackBerry Protect**
Secure and locate device
-  **Security and Privacy**
Permissions, passwords, screen lock, wipe
-  **App Manager**
Device monitor and default apps
-  **Media Sharing**
Connect to a TV, computer, stereo
-  **Date and Time**
Time zones, display format
-  **Software Updates**
Check for new software
-  **Storage and Access**
Capacity, device data access, media card
-  **Location Services**
Detection, traffic data, my places

Security and Privacy

-  **Application Permissions**
Set security permissions for apps
-  **Device Password**
Control access to your device
-  **Lock Screen**
Set lock screen behavior and notifications
-  **SIM Card**
Manage security settings
-  **Smart Card**
Smart Card settings
-  **Encryption**
Encrypt your personal data and files
-  **Parental Controls**
Manage usage and access
-  **Diagnostics**
Control collection of data
-  **Security Wipe**



Encryption

You can encrypt all of your personal data and files for additional security.

Depending on the size of your files, encryption might take a while. You can continue to use your Device during this time.

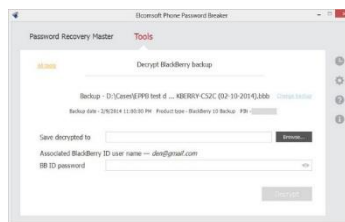
Device Encryption

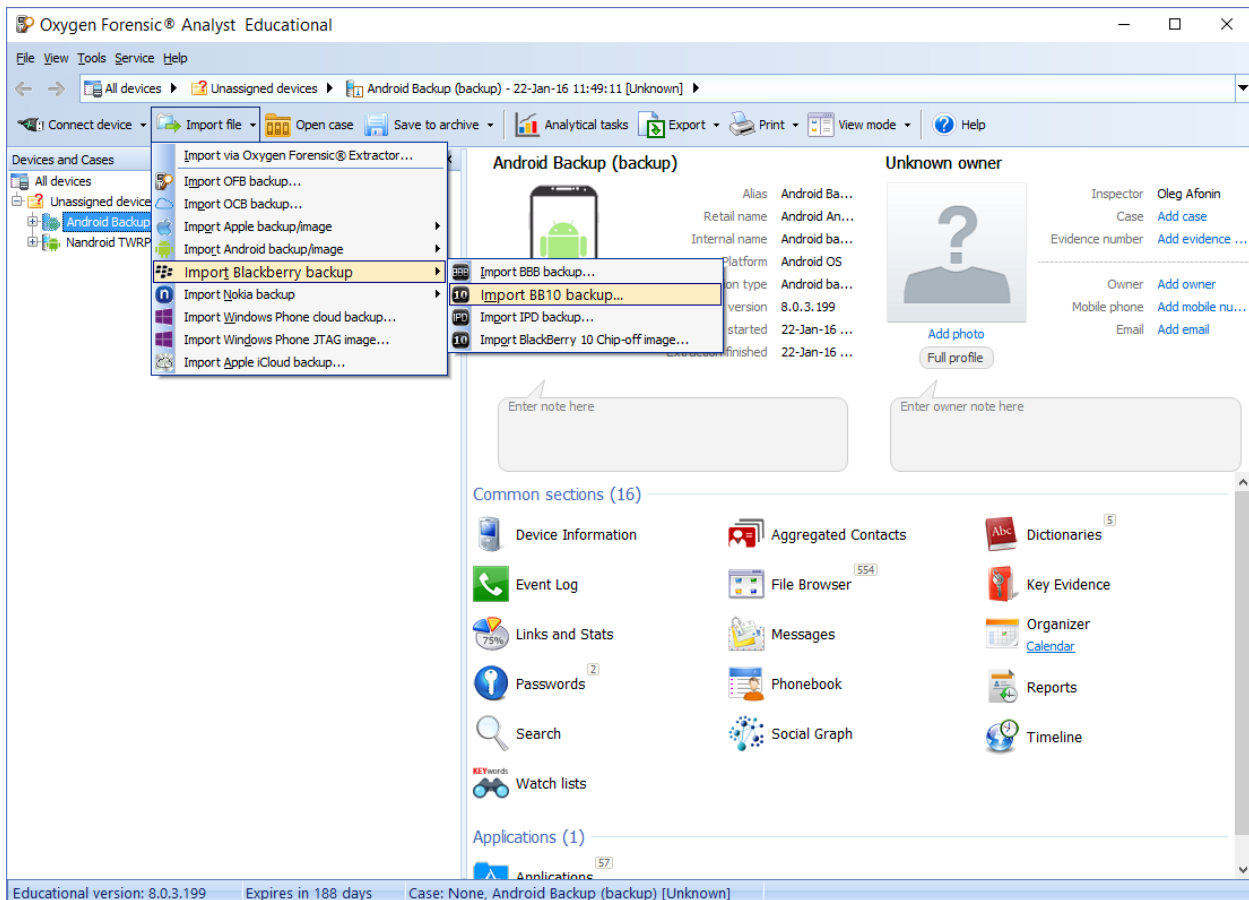
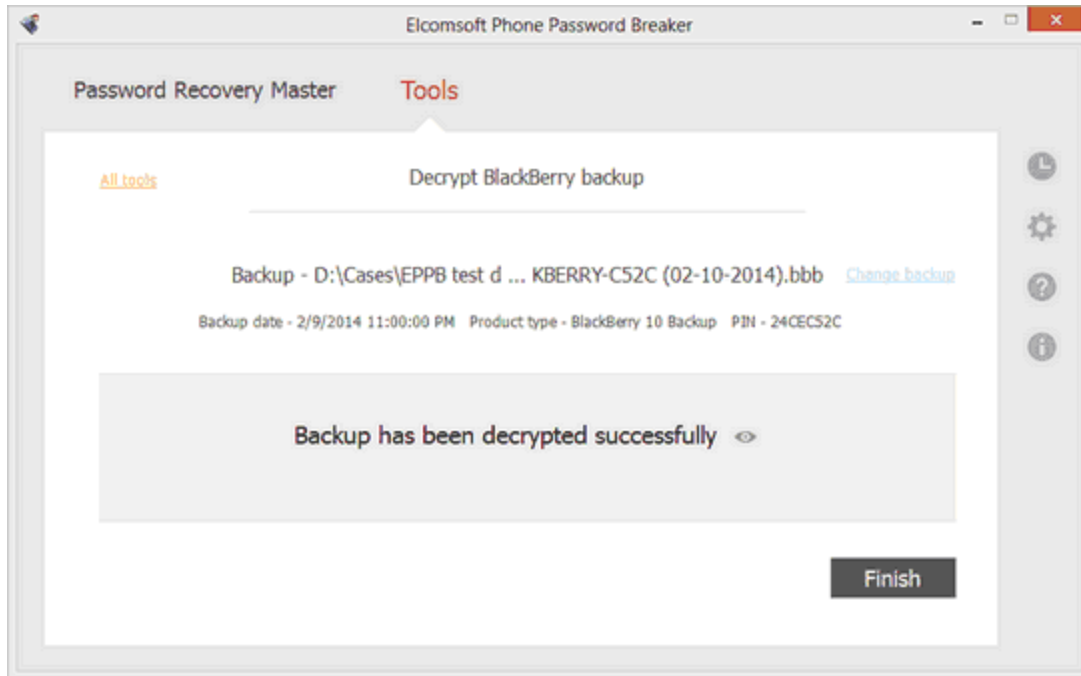


Media Card Encryption



Encrypted media cards will become inaccessible if the device is wiped. Please decrypt them before wiping your device.






Oxygen Forensic® Extractor

Enter the password



The backup file is password protected.

Enter the password to the  BlackBerry ID to get access to the BlackBerry 10 OS backup data.



Apply password

 Help

Cancel

Oxygen Forensic® Extractor

Please check settings before backup import.



Import backup type:

BlackBerry 10 backup

Import backup filename:

D:\BlackBerry\BLACKBERRY\ [icon] (01-18-2016).bbb

Backup file size:

7.57 GB

Backup file created:

18-Jan-16 12:01:48

Device information

Device alias:

Blackberry 10 (BLACKBERRY [icon] (01-18-2016))

Hash algorithm:

SHA-2

Inspector:

Oleg Afonin

 Help

< Back

Extract

Cancel

Oxygen Forensic® Extractor v.8.0.3.199



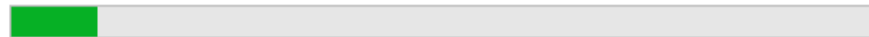
Oxygen Forensic® Extractor

Importing D:\BlackBerry\BLACKBERRY-[REDACTED](01-18-2016).bbb



BlackBerry backup extraction

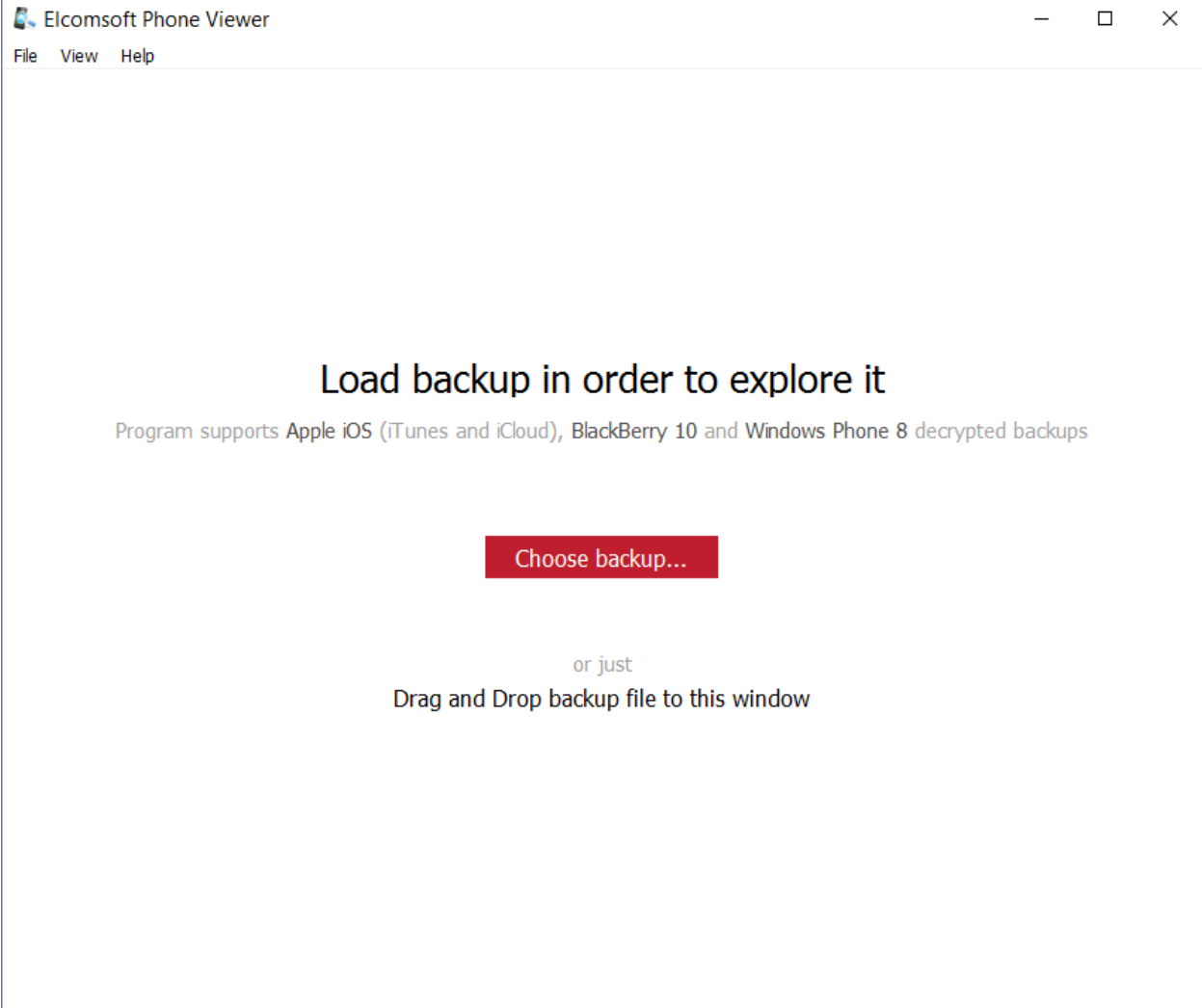
Decrypting BlackBerry 10 OS backup with QBK key



Please wait while data is being decrypted

 Help

Cancel



Elcomsoft Phone Viewer



File View Help

Load backup in order to explore it

Program supports Apple iOS (iTunes and iCloud), BlackBerry 10 and Windows Phone 8 decrypted backups

Choose backup...

or just

Drag and Drop backup file to this window

Choose backup



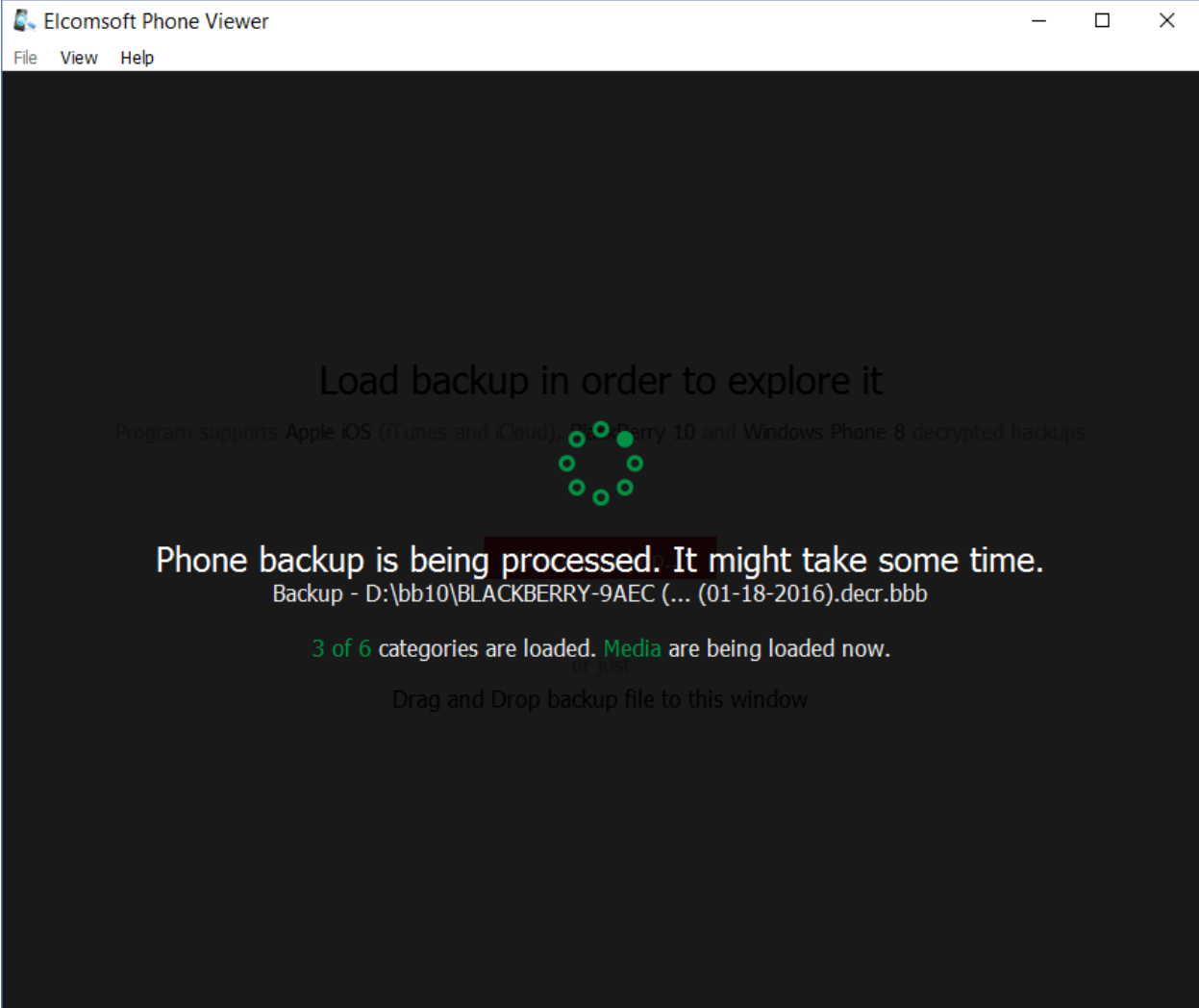
	Device	Device name	Date
<input type="checkbox"/>	Unknown	Oleg's iPad	2015-11-25 17:59:38
<input type="checkbox"/>	iPad Air 2 (5,3)	Oleg's iPad	2016-01-18 19:54:15

Choose backup...

or just
Drag and Drop backup file

Choose another...

Choose



Load backup in order to explore it

Program supports Apple iOS (iTunes and iCloud), BlackBerry 10 and Windows Phone 8 decrypted backups



Phone backup is being processed. It might take some time.

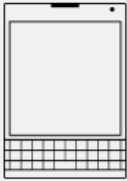
Backup - D:\bb10\BLACKBERRY-9AEC (... (01-18-2016).decr.bbb

3 of 6 categories are loaded. Media are being loaded now.

Drag and Drop backup file to this window

Elcomsoft Phone Viewer

File View Help



BlackBerry Passport
SQW100-1







OS Version: BlackBerry 10.3.2.2876
PIN: [REDACTED]
User ID: [REDACTED]
Backup Date: 2016-01-18 12:01:33Z
Device Name: BLACKBERRY-BLCK
Country code: DE
Phone Number: [REDACTED]

Calendars (0) Calls (8) Contacts (1) Media (90572) Messages (0) Notes (3)

Elcomsoft Phone Viewer

File View Help

BlackBerry Passport
[Device Info](#)









 **Calls**     

Filter OFF [Hide](#)

Date Direction
 2016 Incoming
 Outgoing
 Status
 Answered
 Not answered
 Missed

Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

Q |

Type	Date	Contact	Status/Duration
	17.01.2016 14:36:32 (UTC +1)	+49 179 [redacted]	00:00:08
	17.01.2016 12:15:52 (UTC +1)	+49 176 [redacted]	00:01:13
	16.01.2016 19:38:54 (UTC +1)	+49 179 [redacted]	Not answered
	16.01.2016 18:45:41 (UTC +1)	+49 179 [redacted]	00:00:31
	16.01.2016 18:42:20 (UTC +1)	+49 179 [redacted]	00:00:01
	16.01.2016 17:41:19 (UTC +1)	+49 309 [redacted]	Missed
	16.01.2016 17:15:07 (UTC +1)	+49 176 [redacted]	00:01:14
	16.01.2016 17:11:38 (UTC +1)	+49 179 [redacted]	Not answered

Oxygen Forensic® Analyst Educational

File View Tools Service Help

← → All devices Unassigned devices BlackBerry 10 (BLACKBERRY- -25-Jan-16 14:22:26 [Unknown] Search Filtering criteria ...

1 Connect device Export Print Delete Keyword lists Hide duplicates Columns Highlight text View mode Help Autotize columns

Search history
 Today - Wednesday, Wednesday, 27 ...
 Ab 10:50 katalov (285)

Select sections to search
 Text: katalov Find Now
 Search for any word Text Search in file content

Type	Source	Value	Description	Details:
File content				
<input checked="" type="checkbox"/>	main.db-journal	katalov	Found text: katalov Found entries: 10	unified.db-wal Source file: /app/sys.pim.messages.gYABgJ8jn8... Found text: katalov File offset: 00440D99 Found entries: 10
<input checked="" type="checkbox"/>	app_network_logs.txt	katalov	Found text: katalov Found entries: 4	
<input checked="" type="checkbox"/>	main.db-journal	katalov	Found text: katalov Found entries: 10	
<input checked="" type="checkbox"/>	news_feed_100007484837380.json	katalov	Found text: katalov Found entries: 2	
<input checked="" type="checkbox"/>	unified.db-wal	katalov	Found text: katalov Found entries: 10	
<input checked="" type="checkbox"/>	main.db	katalov	skypename: v.katalov	
<input checked="" type="checkbox"/>	main.db	Katalov	fullname: Vladimir Katalov	
<input checked="" type="checkbox"/>	main.db	Katalov	displayname: Vladimir Katalov	
<input checked="" type="checkbox"/>	main.db	katalov	external_id: v.katalov	
<input checked="" type="checkbox"/>	main.db	katalov	skypename: vkatalov	
<input checked="" type="checkbox"/>	main.db	Katalov	fullname: Vladimir Katalov	
<input checked="" type="checkbox"/>	main.db	Katalov	displayname: Vladimir Katalov	
<input checked="" type="checkbox"/>	main.db	katalov	external_id: vkatalov	
<input checked="" type="checkbox"/>	main.db	katalov	identity: v.katalov	
<input checked="" type="checkbox"/>	main.db	Katalov	displayname: Vladimir Katalov	
<input checked="" type="checkbox"/>	main.db	katalov	identity: vkatalov	
<input checked="" type="checkbox"/>	main.db	Katalov	displayname: Vladimir Katalov	
<input checked="" type="checkbox"/>	main.db	katalov	key: om CentralStorage u/v.katalov	
<input checked="" type="checkbox"/>	main.db	katalov	key: om CentralStorage u/vkatalov	
<input checked="" type="checkbox"/>	main.db	katalov	identity: v.katalov	
<input checked="" type="checkbox"/>	main.db	katalov	identity: vkatalov	
<input checked="" type="checkbox"/>	easache.db	katalov	oid: v.katalov	
<input checked="" type="checkbox"/>	easache.db	katalov	oid: vkatalov	
<input checked="" type="checkbox"/>	easache.db	Katalov	LastName: Katalov	
<input checked="" type="checkbox"/>	easache.db	Katalov	FileAs: Katalov, Vladimir	
<input checked="" type="checkbox"/>	easache.db	katalov	SkypeId: vkatalov	

Evidence note
Enter a note for the evidence


Educational version: 8.0.3.199 BlackBerry 10 (BLACKBERRY- Total: 285 Filtered: 285 Selected: 1

Chapter 10: Dealing with Issues, Obstacles, and Special Cases

Home Features Help


Stronger security for your Google Account

With 2-Step Verification, you'll protect your account with both your password and your phone



Why you need it **How it works** How it protects you

Signing in to your account will work a little differently




- 1 You'll enter your password**
Whenever you sign in to Google, you'll enter your password as usual.
- 2 You'll be asked for something else**
Then, a code will be sent to your phone via text, voice call, or our mobile app. Or, if you have a Security Key, you can insert it into your computer's USB port.







Keep sign-in simple

During sign-in, you can choose not to use 2-Step Verification again on *that particular computer*. From then on, that computer will only ask for your password when you sign in.

You'll still be covered, because when you or anyone else tries to sign in to your account from *another computer*, 2-Step Verification will be required.



2-Step Verification

Verification codes	App-specific passwords	Registered computers	Security Keys
PRIMARY WAY YOU RECEIVE CODES			
	Google Authenticator app		
	Android	Move to a different phone	
<p>▸ Don't want to use the app anymore? Switch to SMS/voice</p>			
BACKUP OPTIONS FOR WHEN YOUR PRIMARY IS UNAVAILABLE			
	Backup numbers ⓘ		
	▸ 	Edit Remove	
	▸ 	Edit Remove	
	▸ 	Edit Remove	
Add a phone number			
	Backup codes ⓘ		
	You have 2 unused codes		
	Generated on:	Feb 21, 2015	
Show backup codes			
Send feedback			

2-Step Verification is: ON
Protecting your account since Feb 21, 2015.

[Turn off](#)

Download snapshot

Google ID (*example@example.com*)

Password 

Save credentials for future use [?](#)

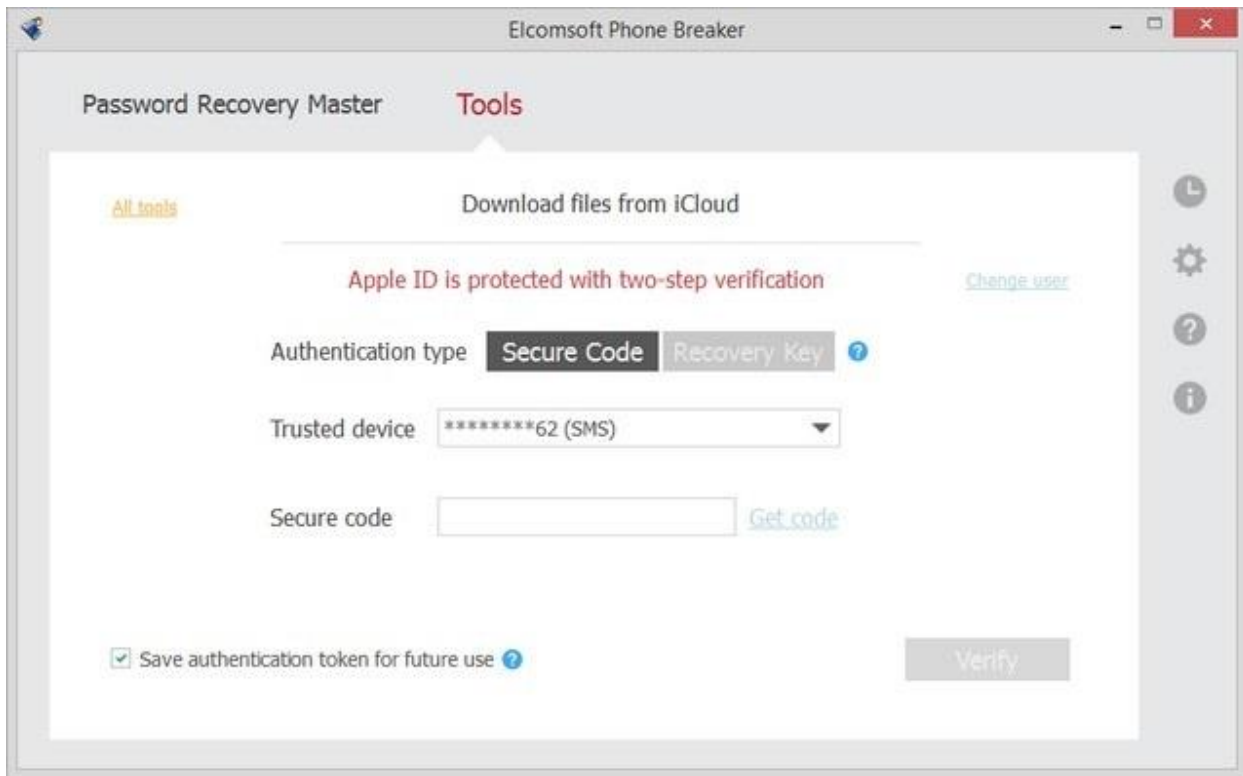
Sign in

Download snapshot

Google ID is protected with two-step verification

Secure code [Get code](#)

Verify



Two-step verification

Two-step verification is an advanced security feature that makes it harder for someone to break in to your account with just a stolen password. [Learn more about whether this is right for you.](#)

[Set up two-step verification](#)

Identity verification apps

You've set up the Microsoft account app and an authenticator app. [Learn more about identity verification apps.](#)

[Set up identity verification app](#)

[Turn off existing apps](#)

Recovery code

You can use your recovery code if you lose access to your security info. You need to print out your recovery code and keep it in a safe place.

[Replace recovery code](#)

Trusted devices

On your trusted devices, you don't have to enter a security code to access sensitive info (such as your credit card details). [Learn more about trusted devices.](#)

[Remove all the trusted devices associated with my account](#)

