ELCOMSOFT
DESKTOP, MOBILE & CLOUD FORENSICS

RELEASE NOTES
August 2020

Elcomsoft iOS Forensic Toolkit
Version 6.40

Elcomsoft iOS Forensic Toolkit helps forensic experts perform physical and logical acquisition of iOS devices, by imaging device file system, extracting device secrets (passwords, encryption keys and protected data) and decrypting the file system image.

Summary

In this release, Elcomsoft iOS Forensic Toolkit 6.40 adds major functionality, enabling passcode unlock for iPhone 5 and iPhone 5c devices protected with an unknown screen lock passcode. The unlock method is decidedly software-only, no soldering, disassembly or extra hardware required. All you need is iOS Forensic Toolkit, a Mac computer, and a USB-A to Lightning cable. In this guide, we demonstrate how to unlock and image the iPhone 5 and 5c devices.

Essential updates

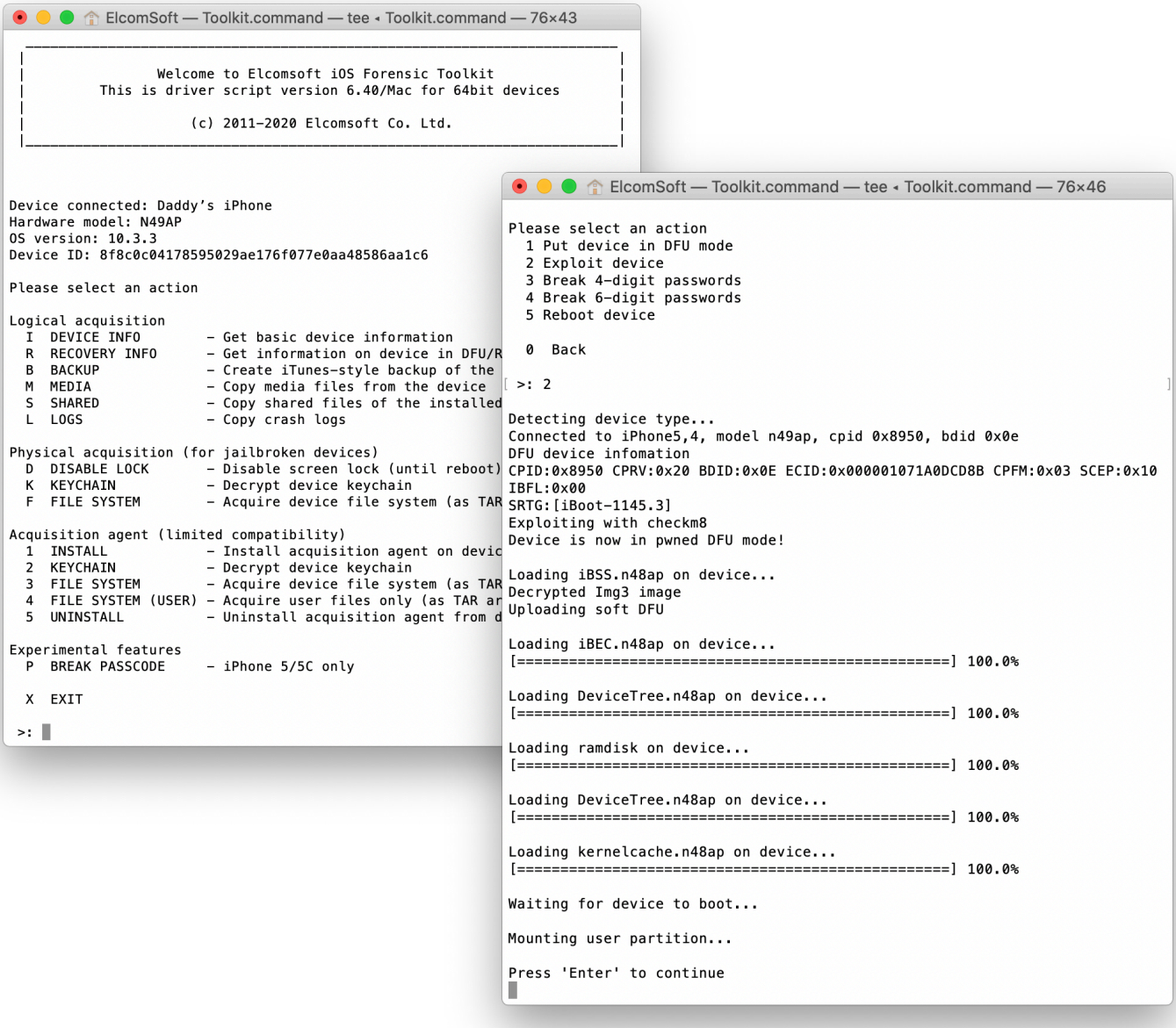
Unlocking the iPhone 5 and iPhone 5c at maximum speed

Apple's protection for the 32-bit devices such as the iPhone 5 and 5c is implemented in software by iOS. It includes both the escalating time delays after the entry of an invalid passcode at the Lock screen and the optional setting to wipe the device after 10 unsuccessful attempts. Our solution disables both of these mechanisms, removes the risk of losing the data, and turns off the escalating time delay, enabling the attack to work at a full speed of exactly 13.6 passcodes per second, which is the maximum speed on these devices.

Elcomsoft iOS Forensic Toolkit 6.40 can try all possible 4-digit combinations in less than 12 minutes, while 6-digit PIN codes take up to 21 hours to complete. For this reason, we've developed a smart attack on 6-digit passcodes, trying the list of the most common passwords first. There are only 2910 entries in this list, and it only takes about 4 minutes to test them all. Examples on this list include the world hit 123456, repeated digits, as well as the digital passcodes representing certain combinations (e.g. 131313 or 287287). Following this list are the 6-digit PINs based on the user's date of birth. After trying all of those combinations, which takes about 1.5 hours, the tool starts the full brute-force attack.

Version 6.40 change log

- Breaking iPhone 5/5c passcode (macOS version only; experimental)
- Improved Agent installation with Apple IDs that are connected to multiple developer accounts
- Minor improvements and bug fixes



Steps to renew

1. All active users of Elcomsoft iOS Forensic Toolkit are invited to obtain the new version 6.40 by entering product registration key in the online form: https://www.elcomsoft.com/key.html
2. Users having an expired license of Elcomsoft iOS Forensic Toolkit are welcome to renew their license at corresponding cost that is available by entering registration key in the online form: https://www.elcomsoft.com/key.html.

Contact us at sales@elcomsoft.com for any further questions on updating and license renewing.