

# Password Recovery, License to crack



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'After a few moments the password stand in corrects letters on the screen. I call it the WOW Effect. You did so a super job with this tool!'

'Success!!! Thank you very much. The last version did the trick. Now that my immediate problem is behind me, I would like to share a few observations and suggestions about the fine product you have...'

'That worked perfectly. I am very impressed with your customer service. I was initially hesitant to pay so much for unknown software but now I can easily say it was worth the money twice over'

'Then I click on the button apply. I answer 2 questions, and than I boot my notebook. I give in my new administrator password. And now a miracle, my notebook is running. I am very happy!!!!'

'Thank you very much, for your answer and for the program. You are a missile!!!'

'Thanks for following up. I can not express how excellent your products are! I am using your software to get my security business up and running. Again thank you!'





- *Privately held company, established in 1990*
- *100% in-house development*
- *Microsoft Gold Certified Partner, Intel Software Partner*
- *NVIDIA and AMD registered developer*



- *Over 300 partners/resellers on all continents*
- *Five US patents, more pending*
- *Corporate, government, military & forensic customers all over the world*
- *Over 200,000 installations worldwide*

*Governmental*



*Finance*



*High Tech*



*Retail*



*Consulting*



*Telecommunications*



*Pharmaceuticals*



*Manufacturing*





# Who and when need data decryption?



- *Law enforcement when investigating computer crime;*
- *Police when collecting digital evidence: peoples lives may depend on quick counter measures;*
- *Corporate IT security administrators to help workers manage their workflow: quick data access — stable business, risk management etc.;*
- *IT security auditors, consultants, penetration testers: the best way to check security is to try to break your protection;*
- *Average users who have forgotten their passwords.*

# Key targets that are most frequently wanted to be cracked

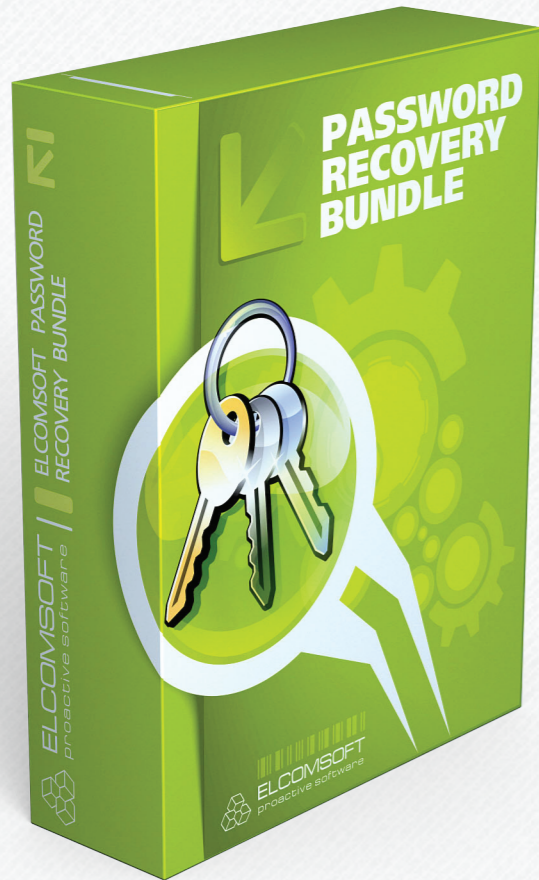


- *Password-protected system (logon passwords);*
- *Protected wireless networks;*
- *Password-protected/encrypted files (documents, databases etc.);*
- *Mail (incl. web-based), instant messaging, VoIP;*
- *Internet browsing history, autocomplete data;*
- *Encrypted data (Microsoft Encrypting File System);*
- *Data on mobile devices: smartphones, portable media players (e.g. iPod), tablets (e.g. iPad);*
- *Encrypted disks: PGP, TrueCrypt, BitLocker etc.*



# Our solution

## Elcomsoft Password Recovery Bundle



- *Individual technology for every type of encryption;*
- *All modern types of attacks;*
- *Hardware acceleration (patents #7,787,629 and #7,929,707);*
- *Distributed processing;*
- *Guaranteed decryption with help of Thunder Tables<sup>®</sup> (MS Word/Excel\*, Adobe PDF).*



# Our in-house developments



- **Hardware acceleration** (NVIDIA, AMD, Tableau, Pico) allows speed increase by many times compared to CPU-only mode;
- **Thunder Tables<sup>®</sup>** is another patented technology that defeats 40-bit encryption found in Adobe PDF and Microsoft Word/Excel. The tables take around ~ 4GB each, and fit easily onto a single DVD or USB flash drive;
- **Distributed processing** makes use of hundreds or thousands of computers to perform the most powerful brute-force and other attacks;
- **Advanced attacks** that include brute-force, dictionary, combined, hybrid attacks with mutations or by mask.



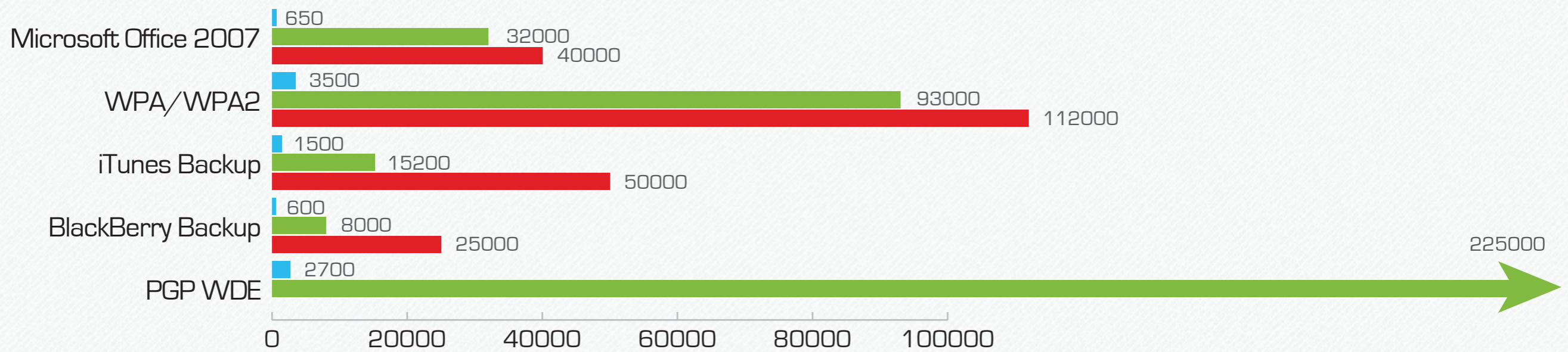
# Ways to improve password recovery performance






- *Special Hardware (Tableau TACC 1441, Pico);*
- *Common Hardware (NVIDIA, AMD video cards);*
- *Multi-core, multi-CPU;*
- *Distributed processing in local network or in cloud.*

*We support all possible variants!*

# Benchmarks



-  CPU: Intel Core2 Quad CPU Q9400 @ 2.66GHz
-  GPU NVIDIA: GTX Titan
-  GPU AMD: Radeon HD 7970



# ElcomSoft's U.S. patents



- 7,599,492 — *Fast cryptographic key recovery system and method;*
- 7,783,046 — *Probabilistic cryptographic key identification with deterministic result;*
- 7,787,629 — *Use of graphics processors as parallel math co-processors for password recovery;*
- 7,809,130 — *Password recovery system and method;*
- 7,929,707 — *Use of graphics processors as parallel math co-processors for password recovery.*





# Publications in specialized literature

*ElcomSoft is an acknowledged expert in the password/system recovery and forensics market. The company's technological achievements and opinion leadership is quoted in many authoritative publications. For example:*

*'Microsoft Encyclopedia of Security', 'The art of deception' (Kevin Mitnick), 'IT Auditing: Using Controls to Protect Information Assets' (Chris Davis), 'Hacking exposed' (Stuart McClure), 'Hacking For Dummies' (Kevin Beaver), 'Practical Intrusion Analysis: Prevention and Detection for the Twenty-First Century' (Ryan Trost), 'FISMA Certification & Accreditation Handbook' (L. Taylor), 'Computer Network Security: Theory and Practice' (Jie Wang), 'A+ Certification Study Guide, Sixth Edition' (Jane Holcombe, Charles Holcombe), 'Investigating Digital Crime' (Robin P. Bryant), 'Security Engineering: A Guide to Building Dependable Distributed Systems' (Ross J. Anderson), 'Network Know-How: An Essential Guide for the Accidental Admin' by John Ross, 'Hacking Exposed: Network Security Secrets and Solutions, Sixth Edition' (Stuart McClure, Joel Scambray, George Kurtz), 'Windows Server 2008 PKI and Certificate Security' (Brian Komar), etc.*



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*Thank you!*

*Olga Koksharova*

*Marketing Director of ElcomSoft Co Ltd.*



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