Crypton Lock Trusted Platform Module by Kaspersky Lab and ANCUD

KASPERSKY lab

www.kaspersky.com
os.kaspersky.com

www.ancud.ru

Kaspersky Lab and ANCUD: Innovative Technologies, High-Level Cyber Security

"Corporate espionage, state-sponsored malicious threats, the disclosure of information stolen in cyberattacks – all this is now the everyday reality, unfortunately. Naturally, companies that work with highly confidential data are the ones facing the greatest risk. For these companies, building protection against cyber threats has to start with completely trusted software and hardware resources. By combining our efforts and expertise with ANCUD, we can, without doubt, offer these users the most effective and easy-to-use IT security solutions."

Andrey Doukhvalov,
Head of Future Technologies, Kaspersky Lab

ANCUD develops integrated hardware and software solutions that differentiate access rights and user access control on computers that are part of the corporate network. The main features of ANCUD products include:

- User identification prior to BIOS startup;
- Differentiation of access rights and control of user access to workstations;
- Differentiation of access rights to hardware resources on workstations;
- Event logging;
- Management of encryption units;
- Blocking of the computer in the event of unauthorized access attempts;
- Software integrity control.

Challenge

Integrated hardware and software solutions need to be secured not only against the damaging actions of ordinary users, whether intentional or not, but also against attacks by threat actors attempting to undermine the stability of the corporate network, gain access to data (to steal, destroy or modify it) or even take control of the whole system. This requires additional built-in protection that would guarantee the cyber security of the entire integrated hardware and software solution provided by ANCUD.

The Kaspersky Lab solution

Kaspersky Lab and ANCUD agreed to cooperate on a technological project to create a trusted integrated software and hardware security solution for corporate networks. It was decided to use the Crypton Lock trusted boot module developed by ANCUD as the hardware component of the solution. The Kaspersky Security System platform is the software component of the jointly developed solution. It controls the interaction between software components in the information system based on predefined security properties and interaction rules, as well as detecting and blocking abnormalities caused by internal errors or attempts at unauthorized access.

Result

The main operating principle of the Kaspersky Security System is "block anything that is not explicitly allowed". This approach rules out malware penetration and the resulting negative impact.

Kaspersky Security System is a flexible platform and all its security settings, including the choice of forbidden processes and operations, are configured based on the requirements of Crypton Lock.

As a result, Crypton Lock not only helps protect user workstations and data but is itself protected from possible cyberattacks.

About Kaspersky Lab

Kaspersky Lab is a global cybersecurity company celebrating its 20 year anniversary in 2017. The company's deep threat intelligence and security expertise is constantly transforming into security solutions and services to protect businesses, critical infrastructure, governments and consumers around the globe. Kaspersky Lab's comprehensive security portfolio includes leading endpoint protection and a number of specialized security solutions and services to fight sophisticated and evolving digital threats. Over 400 million users are protected by Kaspersky Lab technologies and we help 270,000 corporate clients protect what matters most to them. Learn more at www.kaspersky.com.

About ANCUD

ANCUD is a leading developer of data security solutions with a track record of 26 years. The company's areas of expertise include developing, manufacturing and supplying hardware and software solutions that provide cryptographic protection of data, electronic digital signature capabilities, protection from unauthorized access to computer resources and differentiation of access rights, tools for building secure data networks and wireless telecommunication channels, as well as protection of personal data. ANCUD products, marketed under the Crypton trademark, have earned a strong reputation with customers, including federal security agencies, and government and commercial organizations both in Russia and abroad. The company's data security solutions are produced in Russia and are based on Russian cryptographic algorithms.

Kaspersky®
Security System

Find out more at **os.kaspersky.com**