



# Trusted Layer 3 Routing Switch by Kaspersky Lab and Kraftway



[www.kaspersky.com](http://www.kaspersky.com)  
[os.kaspersky.com](http://os.kaspersky.com)



[www.kraftway.ru](http://www.kraftway.ru)

# Two Leading Russian Companies Join Forces to Create a Secure Product

“Although targeted attacks on corporate and industrial targets are often carried out via vulnerabilities in system software, this is just the type of software that is not protected sufficiently well today”

**Andrey Doukhvalov,**

head of Future Technologies,  
Kaspersky Lab

The system verifies the legitimacy of all requests that administrators send to the device. And if an operation is forbidden by the security settings, the operating system will block it.

## Challenge

Today, the stable operation of almost any company largely depends on the stability of its IT infrastructure. In particular, this applies to the telecommunications equipment that connects an organization to the outside world. Modern telecommunications systems have extensive functionality, but these capabilities come hand in hand with cyber threats that jeopardize the stability of the equipment itself and the security of the data transferred or stored using these systems. One such risk is that of implants being surreptitiously embedded in system software that controls telecoms equipment. Implants enable attackers not only to control devices and put them out of operation remotely but also to intercept the data they handle. As a result, equipment manufacturers face a dilemma: on the one hand, their products need to be as feature-rich as possible, increasing the size of the codebase; on the other, device firmware should be sufficiently compact to make it easy to check for vulnerabilities, implants and backdoors and to reduce the attack surface. And what end users want is devices they can trust. There is only one option: to create a software package with built-in protection against cyber threats that includes an operating system, as well as system and application software, and to install that package on trusted hardware.

“The router is just the start of our collaboration with Kaspersky Lab in this area and I hope that, going forward, there will be new projects in store for us — and new unique solutions for our customers”.

**Maxim Shumilov,**

Vice Chief of Business

Development Department,

Kraftway

## The Kaspersky Lab solution

Kraftway and Kaspersky Lab decided to combine efforts to create a trusted solution that meets the cyber-security requirements defined by customers. The solution is based on KasperskyOS, a secure operating system developed from scratch by Kaspersky Lab experts. By design, KasperskyOS only allows those operations permitted by security policies to be performed. The main principle behind the operating system is “block anything that is not explicitly allowed”. As a result, no undocumented functions, including those by possible implants, malicious code or exploits, can be executed.

As a result, KasperskyOS protects the system’s software and data from malicious code activity and hacker attacks, including undeclared behavior by any part of the system, the loss, destruction or modification of confidential or private information, degradation of performance or denial of service.

## Result

Embedding KasperskyOS into a new routing switch developed by Kraftway has established the use of Kaspersky Lab’s new secure operating system in commercial products. Now, a fully trusted telecommunications appliance that reliably safeguards the confidentiality of traffic is available on the market.

## 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](http://www.kaspersky.com).

## About Kraftway

Kraftway Corporation is one of Russia's largest IT companies, established in 1993. Kraftway specializes in developing and manufacturing trusted platforms with integrated IT security capabilities, building computer appliances tailored to customers' needs based on these platforms and implementing infrastructure solutions. The corporation's strategic customers include major governmental and commercial organizations.

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