CASE STUDY

ZKW SLOVAKIA

MANUFACTURING

CISCO
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SOITRON*

Soitron Security Sensor allowed ZKW Slovakia to see their IT security situation

„The new solutions have provided us with advanced threat detection that helps us protect users and workstations from even the most sophisticated malware."

Stanislav Smolár
Soitron, Security Manager

1. REQUIREMENTS

- Get a **continuous overview of the network security** and corporate ICT resources.
- **Demonstrate cyber threat resilience and data protection capabilities** to key contractors.
- **Enhance security of the technology infrastructure.**

2. SOLUTION

- **Penetration testing and deployment of the Soitron Security Sensor solution** integrating multiple security technologies from various vendors such as Flowmon, Cisco and Fortinet.
- **An audit based on customer network monitoring** and the gathered data.
- **Final report on the current state of IT security** and recommendations for improvement.

3. OUTCOMES

- **Identification of deficiencies** that the customer would not have been able to uncover without deploying the advanced technologies.
- **Ability to test multiple high-end security technologies** from various vendors in a single package.
- **Strengthening of the IT security** of ZKW Slovakia s.r.o.
- **Enhanced overview of the status and performance of their enterprise network**, including alerts of any anomalies, which allows the company to identify potential threats and performance issues in a timely manner.

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Background

Industrial enterprises are usually not pioneers in deploying cyber security technologies, because their technology refresh cycles are multiple times slower and more costly than those in the IT sector.

However, ZKW Slovakia s.r.o., a leading supplier of lighting systems and electronics for the automotive industry, is one of the bright exceptions.

The company has eight production plants in seven countries including Slovakia, from which they supply one of their strategic partners - the car manufacturer Volkswagen. Even though the Slovak plant of ZKW Slovakia has never been a target of any unexpected cyber-attacks, the company's management and IT experts are well aware of the risks hidden in the network. One of the reasons is that ZKW Slovakia Invests heavily in their own technology development in the field of lighting systems. On top of that, their customers are also pushing for ever higher security.

At the time ZKW Slovakia needed to have penetration tests done to prove their cyber threat resilience to their customers, Soitron just completed the development of its new Soitron Security Sensor system. It is a solution designed to analyze both the network traffic and the transferred content and ba-sed on that recommend actions to be taken to improve the system security.

ZKW Slovakia found the offer attractive. In the past, their IT experts struggled with identifying and remedying problems with the corporate network, as it was too time consuming and too complex. At the same time, they were aware that today's cutting-edge technologies provide a better overview of the network state and performance compared to what they had available and also bring IT security to a higher level.

Solution

After initial discussion of the audit details and signing of the non-disclosure agreement, Soitron set up virtual machines and lent a hardware sensor to ZKW Slovakia for a month. The sensor is actually a server combining multiple security technologies. For example, Flowmon's behavioral network analysis, Cisco's new generation of firewalls and Fortinet's two-tier sandbox, complemented by a cutting-edge malware protection solution.

After its deployment, which took less than two weeks, the Soitron Security Sensor gathered data from ZKW Slovakia's internal infrastructure for the remainder of the month, with Soitron experts continually fine-tuning the settings and identifying security weaknesses and potential threats. In the end, they analyzed everything and submitted a final report to the customer, including recommendations based on the gathered data.

„We had a chance to test whether or not the security technologies meet our requirements and how we can benefit from using it. Based on our practical experience, we decided to purchase the Flowmon and Cisco products which Soitron subsequently implemented."

Ľuboš Čulák
ZKW Slovakia, System Administrator

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„When the customer approached us with a request for a penetration test, we immediately offered them the opportunity to test our new system that allows organizations to get an overview of the weaknesses of their IT security while simultaneously testing multiple security technologies from different vendors."

Stanislav Smolár
Soitron, Security Manager

Step two

Although the test proved that the customer's computer network protection was not downright "full of holes" and their IT infrastructure was not under any unusual cyber-attack, the analyses of the gathered data identified things that the company would probably have never identified without the audit. There were, for example, a number of computers outside the domain, without the IT department being aware of it, which contained malicious code. Not only that it provided an overview of their

corporate IT system security, the Soitron Security Sensor also allowed ZKW Slovakia's admins to experience working with the cutting-edge security technologies. Thanks to that the company could choose the ones they found to be the most beneficial to enhance the security and reliability of their technology infrastructure.

The benefit is that, after a month's experience, the company IT staff are familiar with the new technology and are able to immediately make full use of it.
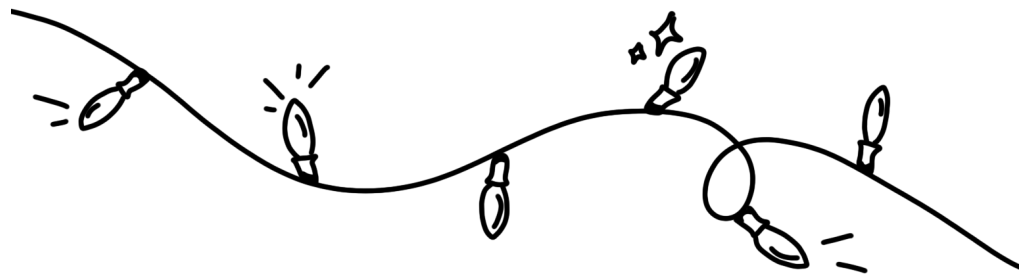
ZKW SLOVAKIA

Benefits

Today, the **Flowmon** solution provides ZKW Slovakia with a detailed overview of their network operation and traffic, which reduces the time needed for any troubleshooting. Admins get automated alerts about any potential network performance issues or security threats. However, Flowmon also performs other tasks. When the comany's IT staff needed to put several servers and workstations on a remote site, the system helped them

calculate and predict the minimum bandwidth needed to connect to the site.

The second tool ZKW Slovakia decided to purchase based on the one month testing of the Soitron Security Sensor is **Cisco Stealthwatch**. This is actually one of the very first deployments of this system in Slovakia. The system makes it possible to identify various types of new and unknown threats, thus enhancing the corporate IT security.

ZKW Slovakia s.r.o.

ZKW Slovakia s.r.o., a member of ZKW Group, is the specialist for innovative, premium lighting systems and electronics. As systems supplier, the company is one of the world's leading strategic partners to the automotive industry. They develop

and produce premium lighting systems and electronics modules for the automotive industry. By doing so, they shape the appearance and character of vehicles around the world.

www.zkw-group.sk

SOITRON, s.r.o., member of the SOITRON Group

Soitron is a Central European integrator operating in the IT market since 1991. The company's philosophy is to constantly move forward, and that is why it is a leader in implementing unique technologies and innovative solutions. It offers its clients products and services in the field of robotization and process automation, artificial intelligence, the Internet of Things (IoT), IT infrastructure, communication and cloud solutions, IT security, IT services and outsourcing, IT advisory and applications, and IT department digitalization. Its product portfolio includes smart police car solutions – Mosy and cyber security services – Void Security Operations Center. Soitron, s.r.o. is a part of the Soitron Group and employs more than 800 international experts. The group brings together professional teams in Slovakia, the Czech Republic, Romania, Turkey, Bulgaria, Poland, and the UK.