



# JABLOTRON SECURITY Reduces Operating Costs and Environmental Footprint

JABLOTRON SECURITY, a member of the Czech JABLOTRON holding, provides comprehensive security services to companies and households. The state-of-the-art security center in the Czech Republic helps protect over 100,000 Czech locations.

## Industry

Other

## Partner

GAPP System is a highly qualified, experienced and proven supplier of advanced technological solutions focused on designing, implementing and supporting comprehensive traditional IT and cloud environments.

## VMware footprint

VMware vSphere®  
VMware vSAN™

The demands placed on IT systems during the pandemic showed that the critical infrastructure of JABLOTRON SECURITY was no longer able to respond to the new requirements. The existing over-complicated solution did not allow efficient operations, and modernization also represented an opportunity to more reduce the company's environmental impact. The new hyperconverged infrastructure solution using VMware vSAN has enabled not only a 40 percent reduction in operating costs but also significant savings in the energy needed to operate the data center. This will save up to 55 tons of CO<sub>2</sub> emissions over a five-year cycle as well as significant improvements in performance, capacity and availability.

## Real security for companies and families

JABLOTRON SECURITY has been providing security services and property security since 1991. The company has the most modern security center in the Czech Republic and provides comprehensive security services to companies and households, helping them to protect more than 100,000 buildings and vehicles.

The success of JABLOTRON SECURITY is directly dependent on the functionality of the IT technologies and systems it uses, as both provide basic services within the company and, above all, help ensure customer safety. This is a truly crucial infrastructure that must be able to deal with existing requirements while remaining sufficiently flexible and ready for dynamic development. In addition, the entire JABLOTRON Group places great emphasis on environmental friendliness and social responsibility, something directly reflected in all its activities.

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“The new hyperconverged solution has helped us significantly reduce both our environmental impact and operating costs.”

Jan Vrbovec, IT Director, JABLOTRON SECURITY

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## An over-complicated solution did not allow efficient operation

The existing infrastructure used by JABLOTRON SECURITY was no longer able to respond effectively to the new requirements associated with advancing digitalization. This was also reflected in the demands placed on IT systems during the pandemic when the company was forced to respond flexibly to new challenges. In addition, the virtualization infrastructure solution used by the company proved to be too complicated to manage and to maintain its availability in the continuous operation of the Jablotron Security Center.

The original IT infrastructure was built on an external software-defined platform that virtualized disk capacity via two disk systems. The solution was designed to provide maximum redundancy and availability but, unfortunately, its complexity reduced its flexibility. The numerous external storage components included virtualization server controllers, two virtualized disk systems, and expansion disk boxes for disk extension which complicated the administration and maintenance of the solution and generated significant operating costs.

This imposed an excessive burden on the company's IT team, which did not have time to work on developing the infrastructure further to ensure it would be prepared for the growing needs of customers. The inefficiency of the solution was also reflected in the energy needed to power and cool the data center. All these issues made JABLOTRON SECURITY think about changing the technology and simplifying the entire solution.

## Modernization not only as a replacement but as an opportunity

In 2021, JABLOTRON SECURITY decided to modernize the inefficient infrastructure and replace it with a solution that would be architecturally simpler, cheaper to operate, and less harmful to the environment. The new infrastructure must maintain at least the same availability and redundancy parameters while allowing infrastructure capacity to increase as the volume of services the company provided grew.

“By modernizing the infrastructure and replacing the original solution, we wanted to enable the further development of our services, make things easier for the IT staff, and reduce our operating costs and negative environmental impact,” says Jan Vrbovec, IT director at JABLOTRON SECURITY.

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“The use of VMware vSAN is a key step in ensuring infrastructure modernization, reducing administration requirements and improving availability.”

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JABLOTRON SECURITY therefore approached GAPP System, a VMware partner and an expert in data center consolidation and modernization, to help find the right technologies to address these challenges. The task was not only to design the entire solution but also to implement it properly.

“Our many years of positive experience with GAPP System have shown it is a competent and trustworthy partner. This is why we approached Gapp System. We wanted the partner to help us design and subsequently implement the modernization,” says Jan Vrbovec.

## Professional services provided by a VMware partner

GAPP System experts have designed a solution based on a hyperconverged infrastructure using local physical server storage. In this architecture, shared disk space and its security are ensured by VMware vSAN Software-Defined Storage. The Dell EMC VxRail solution was used as the hardware platform. It was the use of the vSAN technology that made it possible to significantly simplify the administration of the entire solution during its life cycle.

“We chose VMware because of our many years of positive experience with their solutions. The use of VMware vSAN is a key step in ensuring infrastructure modernization, reducing administration requirements and improving availability,” says Jan Vrbovec.

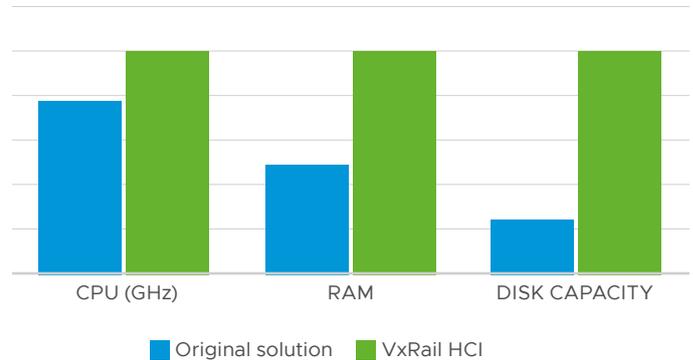
The partner has ensured the integration of the new hyperconverged infrastructure into the existing systems and carefully reviewed the proposed concept before the actual migration to the new solution by testing possible failures at hardware component and network communication levels. GAPP System provides nonstop technical support for the entire solution. The IT staff at JABLOTRON SECURITY thus have their hands-free to further develop company projects.

## Higher performance, lower emissions

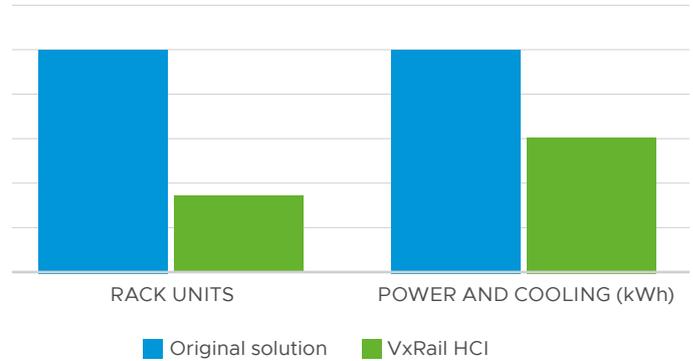
The new solution has fully met the need for significant administration simplification and improved stability.

At the same time, it has significantly reduced the demands on the operating environment: Using three times less space in the data center, it consumes over a third less electricity for power and cooling. This generates significant savings from both the financial and environmental points of view. Operating costs have been reduced by 40 percent and the solution based on VMware technologies will generate up to 55 tonnes less CO<sub>2</sub> over a five-year cycle compared to the original solution, all despite significant improvements in performance and capacity.

## Solution comparison – performance and capacity



## Solution comparison – operating costs



“The new hyperconverged solution has helped us significantly reduce both our environmental impact and operating costs,” says Jan Vrbovec.

## Further development with VMware

In the future, JABLOTRON SECURITY plans to further develop the newly created platform. The security service provider is considering the implementation of VMware Horizon® virtual desktops and possibly a solution for end-device administration via VMware Workspace ONE®. Another topic related to longer-term development is the implementation of a platform to operate containerized applications within the VMware infrastructure and to effectively integrate them into the administration of the entire solution.



The new #HCI solution using @VMware #vSAN has enabled JABLOTRON SECURITY to lower its operating costs while significantly reducing the energy needed to operate the data center.  
#GappSystem #JablotronSecurity