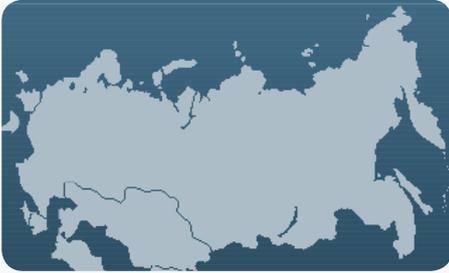


# Eurasian Patent Organization Shrinks Backup Window and Protects Critical Data with StarWind Hyper-V Backup Plug-in



*"We were absolutely delighted with this solution as soon as we deployed it... StarWind Backup turned out to be truly fast and efficient."*

Vladimir Oplachko,  
Chief Technical Engineer at Eurasian Patent Organization

## INDUSTRY:

Licensing and Patenting

## ORGANIZATION:

Eurasian Patent Organization



EAPO is an intergovernmental organization and a legal entity.

The main function of the Eurasian Patent Organization is to receive applications and to grant Eurasian patents that are valid in the Member States of the Eurasian Patent Convention.

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## ENVIRONMENT:

Microsoft Hyper-V

## CHALLENGE:

To deploy affordable and reliable backup software for Hyper-V VMs.

## The Business Challenge

EAPO decided to roll out virtualization for a number of reasons: they desperately lacked physical disk space, had a tight cooling and heating budget, and experienced constant problems with hardware upgrades. Instead of buying the next batch of new hardware, they chose to invest in virtualization, and deployed Microsoft Hyper-V.

At the moment, the company has three server clusters, one comprising 2 hosts, and another – 4 hosts. The total number of virtual machines has exceeded 30, most of which are running Windows Server 2008 R2.

The IT department oversees the entire infrastructure and ensures the access of multiple users to the specialized databases, internal services, and applications, such as mail Exchange Server, document management, accounting, and scheduling systems.

However, together with its powerful advantages, virtualization brought a number of challenges. "Before we deployed Hyper-V, we used backup software that satisfied most of our needs. However, it didn't provide incremental backups and, frankly, was rather slow. Moreover, being designed for the physical world, it in no way suited our "virtual" needs... We were forced to find another reliable solution with a simple and concise interface, and great technical support. All we wanted were fast backup operations and clear VM restore", said Vladimir Oplachko, Chief Technical Engineer at EAPO. "The market offered several options that we couldn't adopt mainly because of their high price and complex management," Vladimir said.

The Organization finally decided in favour of a solution designed specifically for virtualized infrastructure of small and medium-sized businesses. That was StarWind Hyper-V Backup Plug-in.

## The StarWind Solution

"We were absolutely delighted with the solution as soon as we deployed it. Its agentless architecture saves us a lot of time and effort: the software installs agents only on Hyper-V hosts, not VMs", continues Vladimir.

"StarWind Backup is truly fast and efficient". According to the organization's policy, they need to backup all VMs once a day. "Before we deployed StarWind, we didn't fit into the existing backup window. Often backups were so slow that they simply degraded system performance. StarWind, on the contrary, performs backups on time without any negative impact on performance."

"StarWind is incredibly helpful when it comes to VM restore! It's very useful that it saves VM archives

## SOLUTION:

### **Hyper-V Backup Plug-in**

## RESULTS:

- Fast and reliable backups and instant VM recovery
- Complete integration with Hyper-V
- Substantial disk space savings
- No VM downtime for backup operation

## ABOUT STARWIND SOFTWARE:

StarWind Software, a member of VMware Ready and Citrix Ready programs, provides innovative software for creating and managing virtualized storage infrastructures. The company provides an extensive suite of advanced technologies for storage management and VM backup & restore in its leading products - StarWind iSCSI SAN, StarWind Native SAN for Hyper-V, and Hyper-V/VMware Backup.

StarWind has more than 30,000 satisfied customers globally including SMBs, enterprises, governments, educational institutions, and Fortune 1000 companies.

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## VIRTUALIZATION PLATFORM:



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in VHD. Now we can use them as ready VMs, which makes restore child's play. Moreover, we can use these VM archives with the software from other vendors."

The IT staff members of EAPO feel really confident with StarWind and they find some of its features to be simply perfect. Vladimir says, "...it provides Sandbox, which we use to make sure our VMs can be recovered from the created archives."

"Global Deduplication is another marvellous thing that we obtained with StarWind. It saves us approx. 70% of disk space because we store only unique data. We get rid of the duplicates before they come to storage. Thus, dedupe partially offloads our network and accelerates backups."

## **The Results**

### FAST BACKUPS AND INSTANT VM RECOVERY

StarWind Hyper-V Backup provides fast and effective data protection. Accelerated operations shrink the backup window and ensure backups are made overnight. This eliminates heavy workloads on the production servers during business hours.

### COMPLETE INTEGRATION WITH HYPER-V

By means of StarWind Backup, EAPO ensured the consistency of data within an individual VM and among all VMs running on a Hyper-V host. Now VMs are stored in VHD and are transparent for third-party solutions.

### TREMENDOUS DISK SPACE SAVINGS

With Global Deduplication, EAPO saves up to 70% of space by writing only unique instances of backup data to the storage disk. Backups require less space and put a lower load on the network.

### NO VM DOWNTIME FOR BACKUP OPERATIONS

Since StarWind installs a backup agent on Hyper-V host, there is no need to shut down VMs for backup. Backups are scheduled once a day and are carried out automatically at night and do not have any impact on system performance or data accessibility.