SIMPLE AND AUTOMATED OT CLIENT BACKUPS WITH ONDESO SR

A semiconductor manufacturer was looking for a backup solution to protect the data of its heterogeneous OT clients from cyber attacks while complying with internal security policies. Faced with a complex system landscape, the company decided to use our client management software ondeso SR.

The team for digital workplaces of a semiconductor manufacturer was faced with the challenge of backing up the data of all OT clients during operation. On the one hand, this served to protect against cyber attacks and ransomware; on the other hand, internal security guidelines required that new OT clients be backed up and scanned for viruses before going live. The industrial IT infrastructure was complex: some OT clients were already connected to the network, while others were operated offline. In addition, there was a heterogeneous system landscape with various Microsoft Windows and Linux operating systems. Conventional backup approaches proved impractical, error-prone and time-consuming. For these reasons, the semiconductor manufacturer decided to use our client management software ondeso SR. The basis for the automated backup process was a bootable Microsoft Windows Preinstallation Environment (PE), which was started via USB stick and performed the backup.

EFFICIENT BACKUP SOLUTION WITH ONDESO SR

Working closely with the team for digital workplaces, our ondeso consultants from the Professional Services team developed a customized process. One requirement was that the backup process could be started and executed without an IT professional, for example, if the opportunity arose during an unplanned maintenance window. All of this was made possible by ondeso SR using a bootable Windows PE USB stick. The minimized Windows operating system provided the ideal environment for securely performing the backups.

The execution was extremely simple. After inserting the USB stick, the system was started via the bootable Windows PE. Then, predefined workflows ensured easy selection of backup options that performed either a local backup to the USB stick or a backup to a network share. All backups created were first placed in quarantine storage and checked for viruses before being copied to the final share. After the automated backup process was successfully tested, it was implemented in various plants of the semiconductor company worldwide. As a result, more than 1,000 OT clients have already been successfully backed up.

AT A GLANCE

SECTOR

Semiconductor manufacturing

REQUIREMENTS

Backup solution for OT clients within complex system landscape

SOLUTION

Automated backups via bootable Windows PE USB stick

100 %
AUTOMATED
BACKUP PROCESS

WITHOUT
SYSTEM
INTERVENTION

NO
PRIOR TECHNICAL
KNOWLEDGE
REQUIRED

WORLDWIDE EXPANSION IN PLANNING

The implementation of ondeso SR brought numerous benefits to the semiconductor group. The software makes it possible to secure both online and offline OT clients with different operating systems in a standardized manner. The planned expansion to a further 10,000 of the group's clients worldwide demonstrates the power of ondeso SR. „Our customer can now create backups of its OT clients without affecting the system," says Andreas Decker, OT consultant at ondeso. „The simple implementation with defined workflows enables every employee to perform the backup process without IT expertise." Thanks to this successful collaboration and the use of ondeso SR, the semiconductor group can now protect OT clients in production easily and efficiently.

Andreas Decker
OT consultant at ondeso

„The simple implementation with defined workflows enables every employee to perform the backup process without IT expertise."

ondeso develops software products especially in the field of operational technology and Industry 4.0 and supports the automation of OT client management in production. For years, plant operators as well as machine and plant manufacturers have trusted in ondeso products, which are are suited for all industries and can be used across the entire range of production systems and processes. Whether management systems, HMIs or controls – ondeso manages the lifecycle of industry PCs and offers custom fitted products on the highest technological and conceptual level – 100% made in Germany.

Do you want to make the client management of your industrial PCs more efficient?

Contact us now and arrange a free software demo to get an idea of ondeso SR.

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