

CUSTOMER SUCCESS STORY

Testo devices measure our world



NetApp flash systems, object storage, and cloud data services shape the future of measurement technology.

Testo high-precision measurement is everywhere. When food is safe, drugs meet quality standards, heating systems run correctly, or art is stored air-conditioned, Testo tools and solutions often help make it possible. The German company with 3,200 staff worldwide is a world leader in portable and in-place measurement solutions, measuring temperature, humidity, pressure, emissions and other metrics. More than 650,000 customers—from craft businesses to HVAC service providers to pharmaceutical corporations—rely on Testo's hardware, software, and services.

Testo specializes in digitization and smart measurement. Its IT team must be just as precise. They create and operate IT services on-premises and in the cloud easily and enjoy the confidence of specialty departments. The latest storage project shows where Testo is heading.



Lower costs, higher agility

“When you want to operate IT with a future like Testo, my advice is to take a close look at your needs and the possibilities of NetApp on-premises, hybrid, and in the cloud. It’s worth it.”

Klaus Hurst

Senior Expert Data Center, Testo

IT as the natural partner of development, innovation, and manufacturing? Quite natural at Testo. NetApp solutions help Testo’s IT master new tasks, for example: the digitization of measurement technology. High-tech sensors combined with smart devices and the cloud make test equipment users more mobile and measurement data easier to use.

Modern measurement technology combines hardware and software and networking. Testo customers use specialty devices smartphones and tablets and often send their data to the cloud. Testo’s in-house DevOps teams develop the applications for measurement and run Rancher as a flexible container management platform to organize it all.

Developing faster with persistent storage

NetApp storage integrates with the Trident storage orchestrator so that Testo can store the container data persistently. As data and container life cycle are decoupled, data can live also without its container. This impacts, for example, compiling, the translation of programming code into machine code. When the compilation process can be saved persistently, nothing is lost the event of a programming error that stops the procedure. Once corrected, compilation can continue at the point of interruption.

Persistent storage helps Testo developers save time and shortens development cycles. New applications or functions—such as creating measurement reports, adding photos and comments, and sending them by e-mail—are ready for use faster than ever.

Well-placed with flash and object storage

Testo has relied on NetApp solutions for over a decade. The latest tech refresh redefined the storage infrastructure: again a proven MetroCluster configuration, but much faster and more cost-efficient with NetApp flash and object storage:

- AFF storage for maximum performance and availability of SAP applications to file services
- AFF storage for backups and disaster recovery
- StorageGRID object storage for backups, cold data, and large data volumes



Testo, NetApp, and system integrator SVA developed the solution as one team.

“When it comes to new concepts, we get SVA’s expert knowledge early and talk to NetApp. That’s how we turn ideas into sustainable solutions,” said Klaus Hurst, senior expert data center at Testo.

In workshops, customer and partners regularly discuss future strategies, technologies, and what is important when using them.

“As an internal service provider, we want to offer our users various platforms and become even more agile using cloud scenarios. NetApp solutions make this possible and help us to optimize costs and requirements,” said Udo Mettmann, IT architect and team leader at Testo.

With StorageGRID, Testo added a versatile S3 object storage to its data center. The first step was to refine the backup strategy and add another storage level to data protection. As before, the backups are based on NetApp Snapshot technology and replication, controlled by NetApp SnapCenter and Veeam software. The next step was to relieve the production storage by applying NetApp FabricPool. The software recognizes data that is barely or not used, such as older snapshot copies or CIFS data, and automatically moves it to StorageGRID. Furthermore, Testo can move data from big data analytics and software development on StorageGRID cost-effectively.

Let technologies work and save costs

NetApp products are integrated with each other and with products from vendors such as Cisco, ProLion, SAP, Veeam, and VMware. This allows automated processes, for example backups and system copies integrated with SAP applications, and simplifies administration. Operating system upgrades happen without risk and downtime.

“Both the design and the flawless operation of the NetApp systems allows us 24/7 operations without an explicit on-call service and with low staff engagement. That’s important for a company of our size,” said Hurst.

The costs for storage, backup, disaster recovery, and administration speak for themselves: Data retention is way more cost-efficient than when using different products from different vendors and data management is efficient.

Since NetApp guarantees capacity savings of 3:1 when switching to all-flash systems, it was possible to size the new AFF systems precisely. The storage footprint was drastically reduced. Resources are used sparingly. SAP system copies, for example, take up little storage space as snapshots and almost none of clones. Overall, the tech refresh resulted in a 25 percent reduction in storage costs per year. Testo has also reduced CO2 emissions by 20 tons per year.

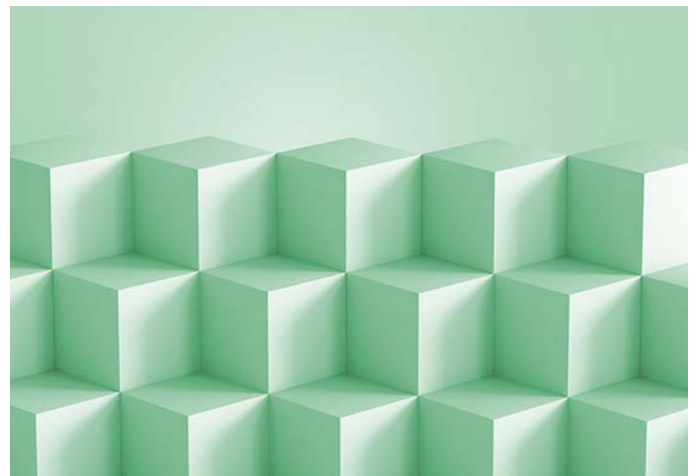
Fast and flexible with the NetApp data fabric

Providing storage wherever. Protecting data efficiently and archiving compliantly. Reducing costs through integration, automation, data tiering, and storage efficiency. Delivering top-level performance,

availability, and scalability. Testo IT can do all of this with NetApp technologies. The reason: The integration of the products and the data fabric concept, which mobilizes data and workloads.

“With the NetApp data fabric, we can deliver services quickly and move data between on-prem systems and SaaS or IaaS environments in no time,” said Hurst.

The IT team can implement short-term business needs quickly and with costs in mind. They can move large data sets and workloads from on-premises to a hyperscaler or between hyperscalers. And they can build a hybrid cloud using the ONTAP-based AFF systems and StorageGRID. Already today the IT team applies NetApp Cloud Volumes ONTAP for NAS services in the cloud.



Everything done right

“With our partners NetApp and SVA, the solutions, and the results, we did all right,” said Hurst. “Despite careful planning, there were surprises. But positive ones! Flash has a greater impact on our SAP operations than we expected.”

The team can address new topics calmly. The move to SAP HANA on-premises and database migrations in the cloud are pending as well as snapshot backups for SAP MaxDB. Digitization will continue and bring new projects with added value for customers.

“When you want to operate IT with a future like Testo, my advice is to take a close look at your needs and the possibilities of NetApp on-premises, hybrid, and in the cloud. It’s worth it,” said Klaus Hurst.

NetApp products

2 AFF A300 storage systems

1 AFF A220 storage system

StorageGRID appliance

MetroCluster business continuity

FabricPool

SnapCenter

Trident

Cloud Volumes ONTAP

Partner

SVA System Vertrieb Alexander GmbH



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About NetApp

In a world full of generalists, NetApp is a specialist. We're focused on one thing, helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds.

As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services and applications to the right people—anytime, anywhere. To learn more, visit www.netapp.com



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