TEC Eurolab Doubles Productivity with Data Management Solution from Cohesity and HPE

TEC·Eurolab

INDUSTRY
Technology

USE CASE
File Share and Target Storage
for Backups

COHESITY SOLUTIONS
Cohesity DataPlatform

HPE SOLUTIONS
HPE Apollo R2200 Gen 10
servers, HPE InfoSight

SOLUTION PARTNER
HPE, VMware

SOLUTION PARTNER
NETMIND

Key Benefits

- Zero data loss and improved security, compliance and data integrity
- 50% reduction in data retrieval time
- 100% increase in production output across the Tomographic Center

Founded in 1990, TEC Eurolab is a private corporation based in the province of Modena, Italy. TEC Eurolab is a center of technical expertise and laboratory testing with a mission to improve the reliability of chemical, mechanical, and structural properties of products for its customers, and to provide specialized support and knowledge of materials, processes and industry standards. TEC Eurolab customers span multiple industries, with emphasis on aerospace and defense, automotive and racing, manufacturing, and biomedical industries.

TEC Eurolab conducts additive manufacturing and materials testing in its Tomographic Center, using state-of-the-art Computed Tomography (CT) technology to virtualize 3D images of tested components for a variety of industries. The Tomographic Center works with an impressive list of customers, including leading additive manufacturing producers and some of the largest aeronautical manufacturers in the world.

> "With a joint Cohesity and HPE solution, TEC Eurolab maximized business efficiency using a single, web-scale data management platform for both file shares and target storage for backups. We have reduced staff operational time by 30 percent and significantly improved data resiliency with Cohesity. Best of all, we have doubled our production capacity and have met customer SLAs without compromising on security and compliance, which contributed in part to an increase in Tomographic Center revenues. We are now looking to further maximize these benefits across the organization by expanding Cohesity to other use cases such as integrated backup, recovery and analytics."
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> **- Marco Moscatti,** Member of the Board & Production Director, TEC Eurolab

Challenges

The Tomographic Center has annual data growth of 50 percent and they were facing significant challenges with managing this data. With industrial tomography scanners, the team deals with enormously large, high-resolution 3D images and the existing environment was unable to reliably and efficiently process the increasing data volumes.

The Tomographic Center had numerous workstations for file acquisition, 3D reconstruction and analysis that were processing many copies of the same data separately, causing slow and tedious operations. In some cases, work-in-progress data loss occurred, forcing rework operations, wasting precious time and resources. TEC Eurolab realized that they urgently needed a 'secure central data store'—a robust data management platform—to ensure data integrity and predictable recovery. Data loss was a serious business and legal risk for compliance-stringent customers and the company needed to put in place a state-of-the-art solution to consistently meet increasing client Service Level Agreements (SLAs).

- TEC Eurolab aimed for the following capabilities in their new data management solution:

- Quick and efficient file sharing across workstations and users for improved productivity

- Secure and reliable target storage for backup software to meet customer SLAs and regulatory requirements with an option to use it for integrated backup and recovery in the future

- Easy, nondisruptive scalability as data grows

- Single User Interface (UI) for centralized management

- Improved operational efficiency to free-up personnel time for more strategic initiatives

- Integration with existing HPE solutions for seamless environment

Solution

TEC Eurolab turned to NETMIND, a Systems Integrator (SI) with services and expertise in software-defined data centers to help identify the best solution to meet its requirements. The Tomographic Center narrowed its contenders to three solutions, and went forward with a Proof of Concept (PoC) from Cohesity. After outstanding test results, TEC Eurolab chose the jointly-certified Cohesity and HPE solution—Cohesity DataPlatform software on HPE Apollo r2200 Gen 10 servers—as their preferred file share and scale-out target storage for backups. The company needed to meet a tight installation deadline and the IT team was able to meet the target dates with smooth installation and support from the partner NETMIND.

With this new solution, data from the three different types of workstations is written to Cohesity cluster on HPE servers, which is used as a central file share and repository for acquisition, 3D reconstruction, and data analysis. After tomographic image data is copied to Cohesity DataPlatform by the acquisition workstation, the data is then made available to 3D reconstruction and analysis workstations via Cohesity SmartFiles—intelligent file services built into the Cohesity DataPlatform. All data required by and produced by 3D reconstruction and analysis workstations resides on Cohesity file shares and is protected by daily policy-based protection jobs on Cohesity cluster. Due to regulatory and governmental requirements, data cannot be stored in the cloud and must remain on-premises for at least five years, so data older than 30 days is archived to an external target.
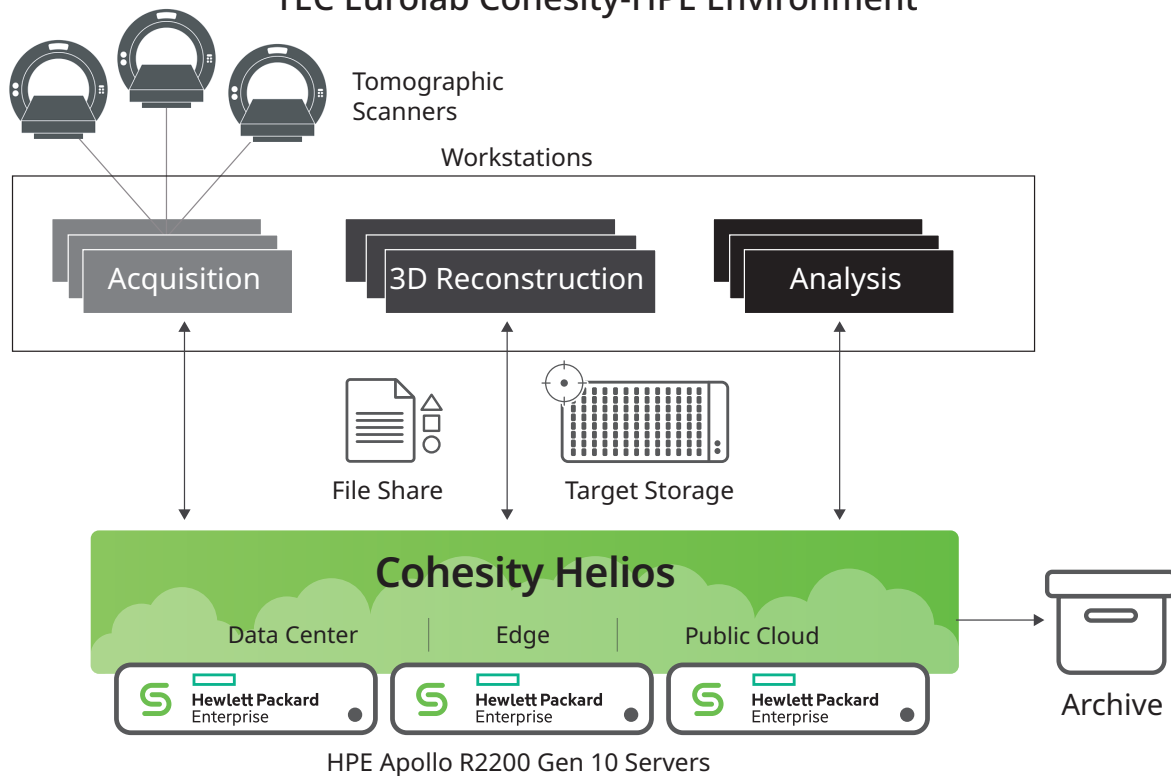
Results

Since deploying Cohesity on HPE servers, TEC Eurolab has seen impressive results across operations at the Tomographic Center. From the initial installation, the solution has been running smoothly and creating operational efficiency using Cohesity's web-scale, intuitive, data management platform. File data is stored with high

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"We see a lot of potential at TEC Eurolab for further expansion of the joint solution from Cohesity and HPE. TEC Eurolab has already realized tremendous efficiency in their operations by using Cohesity for file shares and as a scale-out backup target and will elevate it to the next level by using Cohesity for integrated backup and recovery. Future native integration of Cohesity with HPE primary storage portfolio including HPE Nimble Storage and HPE SimpliVity will help accelerate this and make Cohesity their data management platform of choice."

Giovanni Golinelli, Pre-Sales Manager, Systems and Storage Architect at NETMIND

TEC Eurolab Cohesity-HPE Environment

Tomographic Scanners

Workstations

Acquisition | 3D Reconstruction | Analysis

File Share | Target Storage

Cohesity Helios

Data Center | Edge | Public Cloud

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Archive

HPE Apollo R2200 Gen 10 Servers

deduplication efficiency, backed up and recovered much faster, and with a single UI. With Cohesity's robust security and data resiliency, data compromise or loss is prevented and compliance to regulatory requirements is ensured.

With data centralized on Cohesity, files are accessed by multiple workstations from a single, consistent, always-on platform, resulting in data being retrieved in half the time. One of the most visible results is that the Center is now able to double the number of analyses it performs each week, resulting in tremendous efficiency, improved customer satisfaction, and increased revenue. In the end, results are delivered faster to customers, and the team is no longer at the mercy of performance bottlenecks across workstations. Cohesity ensures that data is securely and safely stored for the entire duration of the production timeline.

TEC Eurolab is also able to adhere to the strict security and regulatory requirements of its global customers with an enterprise-grade solution combining the security-first approach of Cohesity software with built-in silicon-level firmware protection, encryption, and breach detection of HPE Apollo Gen 10 servers. This provides integrated security across the entire software and hardware solution.

With the Cohesity-HPE joint solution, TEC Eurolab realized many benefits including:

- Zero data loss and improved security, compliance and data integrity

- 50% reduction in data retrieval time

- 100% increase in production output across the Tomographic Center

- 30% OpEx savings in the form of reduced employee time dedicated to data management, allowing them to focus on more strategic initiatives, leading to greater efficiency and productivity

- 20% CapEx savings due to a better and faster data management solution that reduces burden on workstations

- Quick and easy file search and recovery across multiple workstations from a single UI

- Efficient operations through seamless integration with existing HPE infrastructure
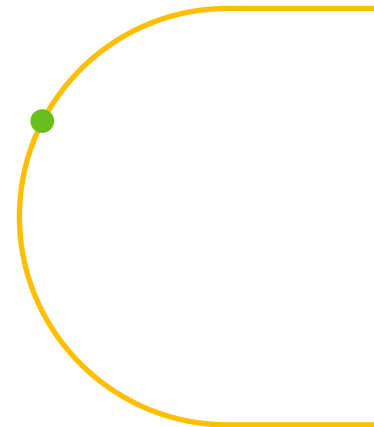
COHESITY

Next Steps

TEC Eurolab is already considering Cohesity for additional use cases across the organization. In the next phase of deployment, TEC Eurolab is considering Cohesity for integrated backup and recovery of all data across the organization as well as using Cohesity MarketPlace apps for anti-virus, in-place analytics, and vulnerability assessment. The combination of self-monitoring infrastructure with HPE InfoSight for servers and unified visibility from Cohesity Helios, global SaaS-based management for data and applications, will allow the company to gain predictive insights from their data and further optimize operations.

About Cohesity

Cohesity ushers in a new era in data management that solves a critical challenge facing businesses today: mass data fragmentation. The vast majority of enterprise data—backups, archives, file shares, object stores, and data used for test/dev and analytics—sits in fragmented infrastructure silos that makes it hard to protect, expensive to manage, and difficult to analyze. Cohesity consolidates silos onto one web-scale platform, spanning on-premises, cloud, and the edge, and uniquely empowers organizations to run apps on that platform—making it easier than ever to back up and extract insights from data.

About Hewlett Packard Enterprise

Hewlett Packard Enterprise is a global technology leader focused on developing intelligent solutions that allow customers to capture, analyze and act upon data seamlessly from edge to cloud. HPE enables customers to accelerate business outcomes by driving new business models, creating new customer and employee experiences, and increasing operational efficiency today and into the future.

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