PoINT

software & systems

Case Study

PoINT Storage Manager
e.solutions GmbH

e.solutions

Das Joint Venture von Elektrobit und Audi

The German company e.solutions GmbH had introduced a three tiered storage infrastructure including archiving functionality based on PoINT Storage Manager. The existing expensive primary storage had been extended by cost-efficient secondary storage systems for purging and archiving inactive data. By this storage architecture, implemented by PoINT Storage Manager, e.solutions GmbH could reduce their investments in primary storage extensions and at the same time fulfill the requirements of long-term data archiving.

Challenge

- Purging of inactive data from primary storage systems (SAN / FC) to capacity-oriented iSCSI cluster based on SATA
- Archiving of project data to disk-based archive storage (WORM)
- Transparent file system access to purged or archived data via primary storage file system

Solution - PoINT Storage Manager

- Implementation of a three tiered storage concept based on PoINT Storage Manager
- Automated purging of inactive data to iSCSI Cluster (SATA) within Tier 2 while retaining access through primary storage
- Archiving including Retention Management to a disk-based archive storage (WORM) by separate "Archive Policies"
- Protection against modification of archived data on file system level
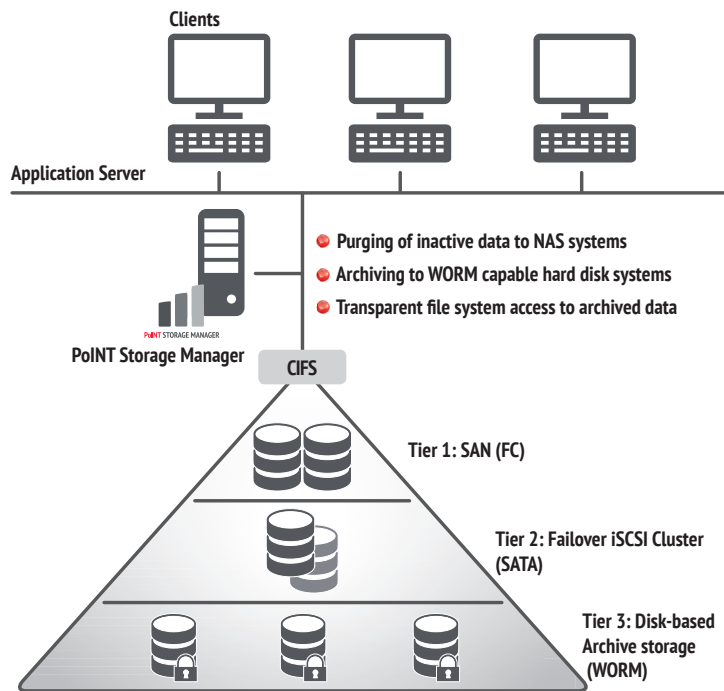- Automated authentication of archived data by "digital fingerprint"

Advantages

- Efficient usage of primary storage by purging and archiving of inactive data
- All data permanently available by file system access to primary storage
- Decreased backup-volume by offloaded primary storage
- High level of investment protection by storing archived data in standard format
- Future-proof concept by integrated migration functions

About e.solutions GmbH

As a joint venture of Audi and Elektrobit employing about 400 persons e.solutions develops highly complex infotainment solutions for Audi and other Volkswagen Group brands. The software has already caused a sensation by MMI® Navigation plus, which was integrated in the new Audi A3, the new VW Golf and the new Skoda Octavia.
Over the next few years, further innovati ons, such as the Audi TT Virtual Cockpit or the Smart Display, are going to find their way into the additional production series and brands of the Volkswagen Group world-wide.

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Clients

Application Server

- Purging of inactive data to NAS systems
- Archiving to WORM capable hard disk systems
- Transparent file system access to archived data

PoINT Storage Manager

CIFS

Tier 1: SAN (FC)

Tier 2: Failover iSCSI Cluster (SATA)
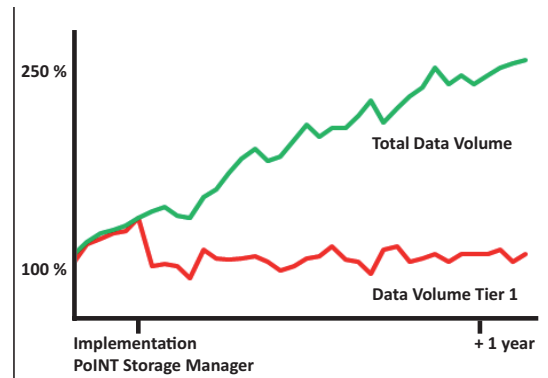
Tier 3: Disk-based Archive storage (WORM)

e.solutions GmbH was looking for a solution to off-load primary storage and purge inactive data to cost-efficient and capacity-oriented iSCSI Cluster based on SATA. In addition they intended to archive the existing project data to disk-based archive storage (WORM). It was important

> Head of IT Thomas Weber: "We were convinced by the concept of the PoINT solution. By implementing PoINT Storage Manager we could not only reduce our costs for storage extensions considerably but also fulfill our archiving obligations. Especially the easy and homogeneous integration of secondary storage systems into our existing infrastructure without any changes for users nor applications was crucial."

to retain transparent file system access to the purged and archived files and to have an automated tiering based on flexible policies. During the daily business operations a huge amount of project data, stored on primary storage, is produced at e.solutions GmbH. By PoINT Storage Manager a three tier storage architecture was implemented by which inactive data is purged in an automated manner to the iSCSI Cluster (SATA) building Tier 2.

This purging process is carried out in step 1 based on time criteria. When the project is completed the project data is migrated in step 2 to the archive system and then deleted from Tier 2.

250 %

100 %

Total Data Volume

Data Volume Tier 1

Implementation
PoINT Storage Manager

+ 1 year

Archiving including retention management is executed according to user defined "Archive Policies". The adherence to compliance requirements is ensured on file system level by data protection and data security functions integrated in PoINT Storage Manager. Write-Once properties ensure protection against modification and manipulation, in addition a digital finger print assures data authentication. Tiering and archiving of data from different sources is controlled by

different policy-based storage vault configurations each mapped to a specific source.

By purging and archiving of inactive data e.solutions GmbH is able to use their existing primary storage more efficiently and to avoid expensive primary storage extensions. Furthermore the backup volume is reduced by purging inactive data which leads to time and cost reductions. In addition a tremendous investment protection can be gained by consequently using format standards for archiving. The transparent availability of all data through the primary storage system is also a significant advantage for the company. By the integrated migration functionality PoINT Storage Manager is future-proof.

About PoINT

PoINT Software & Systems GmbH is specialized in the development of software products and system solutions for storage and management of data using all available mass storage technologies like hard disk, magnetic tape, optical media, object store and cloud storage. PoINT works jointly together with leading hardware manufacturers. Thus PoINT can offer an early support of innovative storage technologies. Besides these complete solutions PoINT also offers its know-how as toolkits, which can be easily integrated in other applications by the programming interface.

High flexibility, observance of the workflow and policy-based data management allow an efficient usage of hardware and thus help to reduce costs and problems caused by data growth.

Additional information and a trial version of the software are available at www.point.de.