

Case Study

PoINT Storage Manager DRK Krankenhaus Chemnitz-Rabenstein



The hospital "DRK Krankenhaus Chemnitz-Rabenstein" had implemented a two tiered HSM architecture by PoINT Storage Manager. Within this architecture data can be archived in an automated manner to cost-effective secondary storage and thus expensive primary storage can be off-loaded. Furthermore the backup-volume is decreased significantly

by the archiving process whereby cost can be saved and backup-windows can be met. By the built-in migration functionality of PoINT Storage Manager the migration of the remaining data to the new SAS storage system was carried out transparently and without any business interruption.

Challenges

- Archiving of PACS data from the iSCSI hard disk system to 48-slot tape library
- Chronological data gradually stored on tape
- Transparent and uninterrupted migration to the the new primary storage

Solution - PoINT Storage Manager

Archiving

- Implementation of a two tiered HSM architecture based on PoINT Storage Manager
- Automated archiving from an iSCSI based hard disk system to a 48-slot tape library
- Data archived gradually on tape

Migration

- Data of the primary storage is being migrated to the new SAS storage by built-in migration functionality of PoINT Storage Manager
- Archived data can be accessed via the primary storage system by „stubs“ and selective re-storing on demand

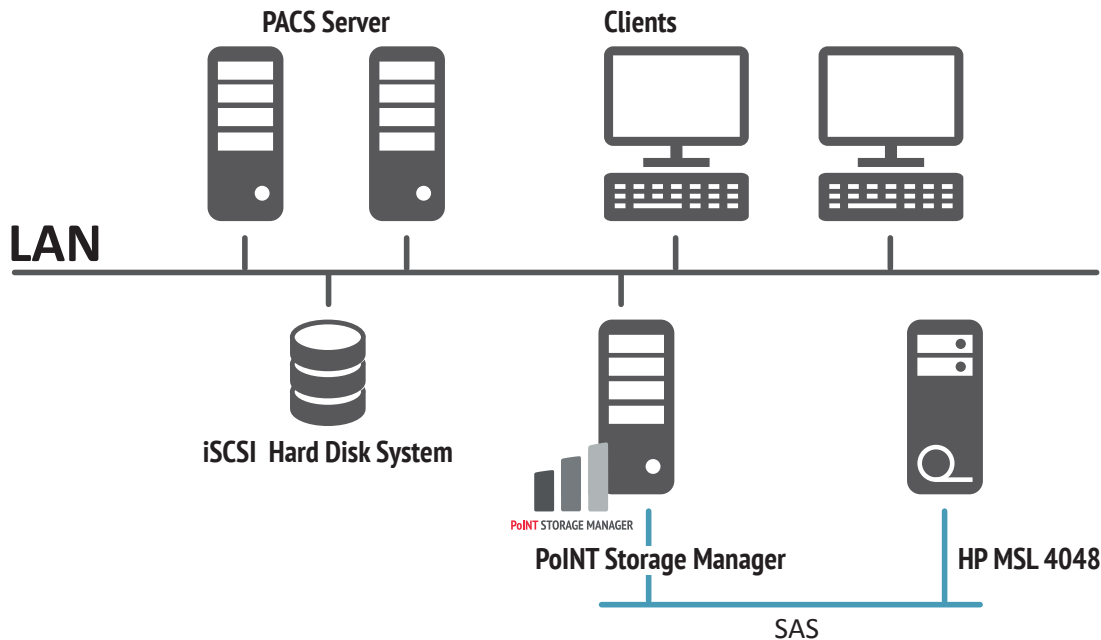
Advantages

- Efficient usage of primary storage by archiving inactive data
- Permanent availability of all data
- Cost- and time savings by reduced backup data volume of the primary storage
- Fullfillment of compliance requirements by the Archive Tier
- Transparent Migration without significant downtime

About DRK Krankenhaus Chemnitz-Rabenstein

The hospital „DRK Krankenhaus Chemnitz-Rabenstein“ is in an organization institution of „DRK Gemeinnützige Krankenhaus GmbH Sachsen“ and thus is an institution of Red Cross (“Wohlfahrtsverband Rotes Kreuz”). The work of its employees is geared on the principles of the Red Cross, like impartiality, independency and humanity. The hospital medicated in the last year 14,400 stationary, 1,250 partial-sta-

tionary and 9,600 emergencies, 1,360 ambulant operations as well as about 3,000 pre-stationary cases. With 215 beds Chemnitz-Rabenstein is a hospital of standard care focused on dermis. An efficient IT department takes care of approx. 500 PCs and about 70 virtualized server, running on a redundand IBM-storage.



The hospital "DRK Krankenhaus Chemnitz-Rabenstein" was looking for a solution to archive old PACS data. Archiving should be carried out gradually on tape. In Tier 1 a hard disk system (iSCSI) was used for data to be archived and frequently accessed PACS data.



„We were looking for a solution being able to cope with this complex archiving scenario. It was important for us that data was in permanent access and our colleagues were not affected within the daily work even not within the archiving nor migration process. All requirements were perfectly fulfilled by PoINT Storage Manager“ said Ulrich Wieland, IT- Manager at the hospital „DRK Krankenhaus Chemnitz-Rabenstein

It was important for the company that data is permanently in transparent access. After successful archiving a new primary storage system should be integrated. Therefore a data migration was necessary.

By PoINT Storage Manager a two tiered HSM architecture could be implemented where data is archived on to a 48-slot tape library as part of the Archive Tier.

The aim was to write data chronologically to tapes mounted in the library.

Archiving was carried out gradually:

Step 1

Archiving of all data older than one year to tape

Step 2

Additional data from the PACS archive was copied by PACS software to the primary storage system

Step 3 to Step x

Within the third and all further steps new archiving jobs were started for data younger than one year in steps of 30 days up to the present for storing the corresponding data on tape

By archiving inactive PACS data to tape capacity could be achieved at the new storage system and the primary storage could be used more efficiently. This leads i.a. to a reduced backup-volume at the primary storage resulting in time and cost savings. In addition the data was still in

transparent access via the primary storage system.

After successful archiving of the PACS archive data on the tape library data should be migrated from the old primary storage to the new SAS storage system. The migration process should be carried out by re-building data at the new primary storage from stubs and later on restoring the data selectively (i.e. data younger than one year).

For the migration process the method „Migrate after Stubbing“ was used where the directory structure of the old primary storage was re-built at the new primary storage. Data migration was carried out in background and both users and application could access the new SAS storage even during the migration process.

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.