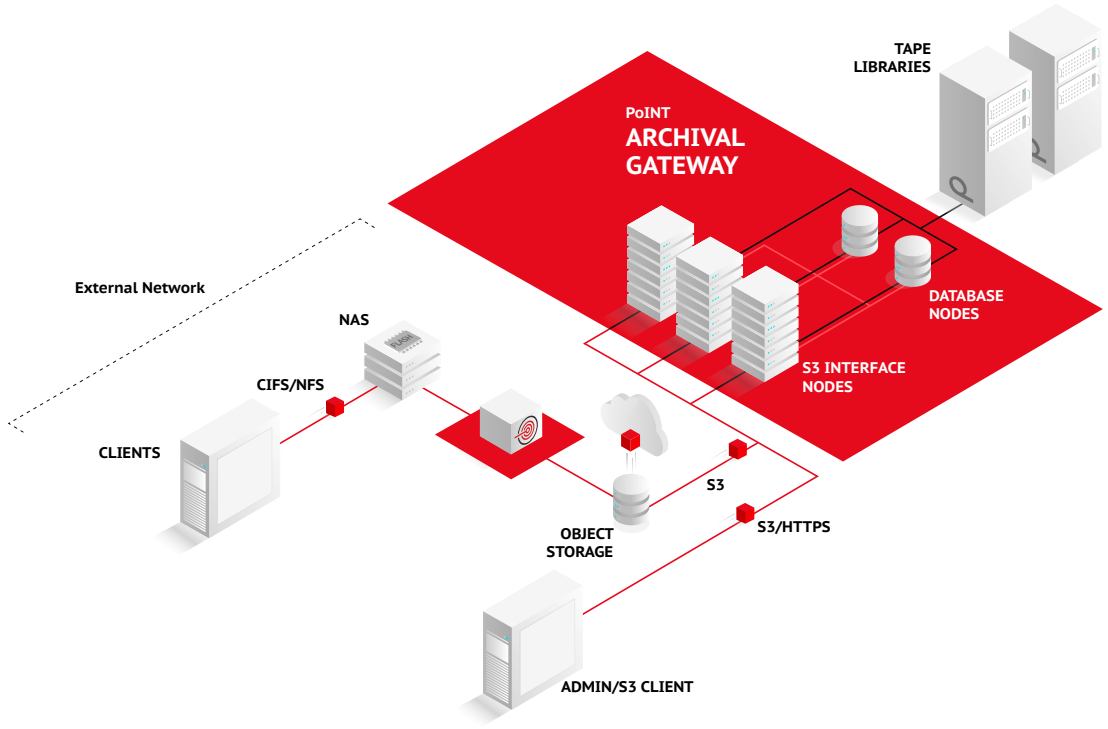
PoINT Archival Gateway
Tape-based S3 Object Storage

Most disk and flash based storage systems are overloaded with inactive data. This applies to NAS systems and increasingly also to Object Storage Systems. Utilizing these storage systems for data which is not accessed for months or even years is an inefficient use of enterprise resources. Because of this situation many NAS and Object Storage Systems provide a S3 based interface for archiving purposes. This allows archiving and off-loading of inactive data to S3 capable systems. PoINT Archival Gateway provides a S3 interface for data ingest for these storage systems and for S3 capable clients and applications.

S3 ARCHIVING TO TAPE

Tape technology is well suited for long term archiving as it provides the benefits of low environmental footprint, a high level of data integrity over a long period of time, and a much lower cost per TB of storage than all other storage technologies. Additionally, compared to all the storage media available, tape technology has the potential for essential capacity improvements. PoINT Archival Gateway integrates tape systems into the existing storage infrastructure without the need for costly changes and disruptions.



The most important protocol for object storage is AWS S3 which can be seen as the de facto standard. Therefore, PoINT Archival Gateway provides a S3 compatible interface. Storage systems which support S3 can integrate PoINT Archival Gateway to send and off-load unused data (e.g. for archiving purposes) transparently to tape library systems. This way, PoINT Archival Gateway is acting as a middleware for S3 capable storage systems for homogeneous integration of tape systems as archive devices. In addition, PoINT Archival Gateway can be used to create a backup copy of your data to tape media. PoINT Archival Gateway can also directly be used by S3 clients and S3 capable applications.

Benefits

- Efficient use of flash and disk storage (NAS and Object Storage)
- Fulfillment of archiving and compliance requirements
- Realization of 3-2-1 backup strategy
- No vendor lock-in
- Reduced capital expenses

Features

- S3 compatible REST API
- Data and management security
- Data at rest encryption
- Native support for tape libraries
- Off-line media support

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S3 REST API
The S3 API module of PoINT Archival Gateway enables S3 capable storage systems and applications to store and read objects by means of the standardized S3 REST API.

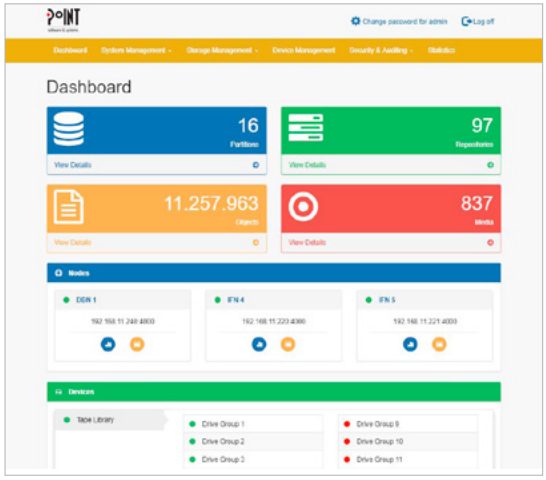
High Scalability and High Availability
PoINT Archival Gateway is highly scalable and provides redundancy on system and on data level. The internal interface nodes cooperate with each other (e.g. for load balancing). The database nodes provide synchronous replication and failover.

Compliant Archiving
Enterprises which must comply with government laws and regulations can leverage PoINT Archival Gateway to provide tape technology as storage layer for long-term archiving. Alternation or deletion of data is prevented while retention policies protect content for a period determined by business, legal or government requirements.

Backup Copy for Off-line Storage
PoINT Archival Gateway can also be used by NAS and Object Storage Systems to make backup copies to tape for off-line storage. Also, multiple copies can be created to realize a 3-2-1 backup strategy. This means having at least 3 copies of your data, 2 of which are on-line but on different media (flash/disk and on-line tape) and at least 1 copy offsite (off-line tape).

Data Retention Management
PoINT Archival Gateway provides persistent data management for meeting legal and business data archival requirements. Appropriate retention rules can be enabled and specified on object repository level. The rules define how and when existing objects in the object repository may be modified or deleted. The functionality supports companies in enforcing their data retention policies.

Data and Management Security
The web-based admin GUI and a command line interface provide the management interfaces of PoINT Archival Gateway. Whereas the S3 API provide the data access interface. Access to these interfaces is controlled and



restricted by defining security principals and by assigning access rights to those principals. For this purpose, the management interfaces offer functions for creating local security principals of type user and group. Optionally, also external security principals can be adopted from an Active Directory domain.

Tape Support
PoINT Archival Gateway supports multiple vendors of tape systems and a wide range of tape library products. This prevents a proprietary hardware solution with long term dependency and unforeseeable support costs. The replacement of a tape system is – as an option – supported by PoINT Archival Gateway and is possible at any time without interruption of operation. Tape support also includes versioning and offline media management.

Additional Information
Additional information and a trial version of the software are available at www.point.de. Information and trial versions of additional PoINT products are available there also.

Technical Information

Supported Tape Systems
- ADIC
- Fujitsu
- HP/HPE
- IBM
- Overland
- Quantum
- Spectra Logic

Note: This list is extended on a regular basis. Please contact PoINT Software & Systems for an up-to-date list supported storage systems.

System Requirements
- Windows Server 2012 or 2016 (VMware supported)