



Archive One : Archive Storage Management

Storage Management: *balancing cost, security, longevity, data age, retrieval timescales and performance profiles.*

Storage neutral: *Interfaces to wide variety of storage, direct or via storage management software. Security levels enhanced.*

Repositories: *Indexed, encrypted, compressed, scaleable, portable, back-up and resource efficient.*

Administration: *common back-up interfaces & rate controls.*

Storage Management is one of the single most influential factors on the success of your archiving project. Users want to access current data quickly but may want access to older data too. Achieving cost-efficient use of storage resources, which are appropriate to your internal policies, retention period and regulatory requirements but which meet access and retrieval timeframes for users and supervisors, is a challenging balance to achieve.

The architecture of Archive One allows the optimal balance between these factors to be achieved in any organization.

- Cost of storage.
- Security / longevity of storage device.
- Retention requirements.
- Age of data.
- Performance profiles of media.

Archive One can archive to a variety of near-line or offline storage media as appropriate, either directly or for a wider range of devices, through storage management software such as CA BrightStor ARCserve Backup, HP OpenView Storage Data Protector or QStar HSM. Security of tamper-proof access to data is ensured by interfaces to these storage managers.

Archive One data is stored in 'repositories'. These comprise multiple blocks of grouped email messages and the index of all data in the repository. The email data, in addition to being indexed for fast retrieval is encrypted for security and compressed for efficient use of storage media. These repositories can be stored on any network share or drive letter selected by the administrator or managed via third party Storage Manager software. Repositories can be migrated across different devices over time to reflect security, value of the data / probability of retrieval and retrieval access time.

This approach means:

- Minimal incremental back-up requirements of archived email.
- Efficient use of storage.
- Portability: migrate repositories across storage media.
- Scalability: any number of repositories can be established simultaneously.
- Retention and deletion periods can be set at repository level.
- Repositories have no size limit beyond the capabilities of their current media or backup SLA.
- Index is held within the repository: no extra requirements for SQL licences, storage resources or support.
- 'Closure' or deletion of repositories is very simple. Closed repositories do not need daily back-ups.

Back-up of repositories is supported by all leading backup vendors. No special backup agents are required. NT backup supports repositories for a zero cost option. Administrative rate controls allow archiving runs to be 'throttled' to reduce negative impact on the storage devices or email systems.

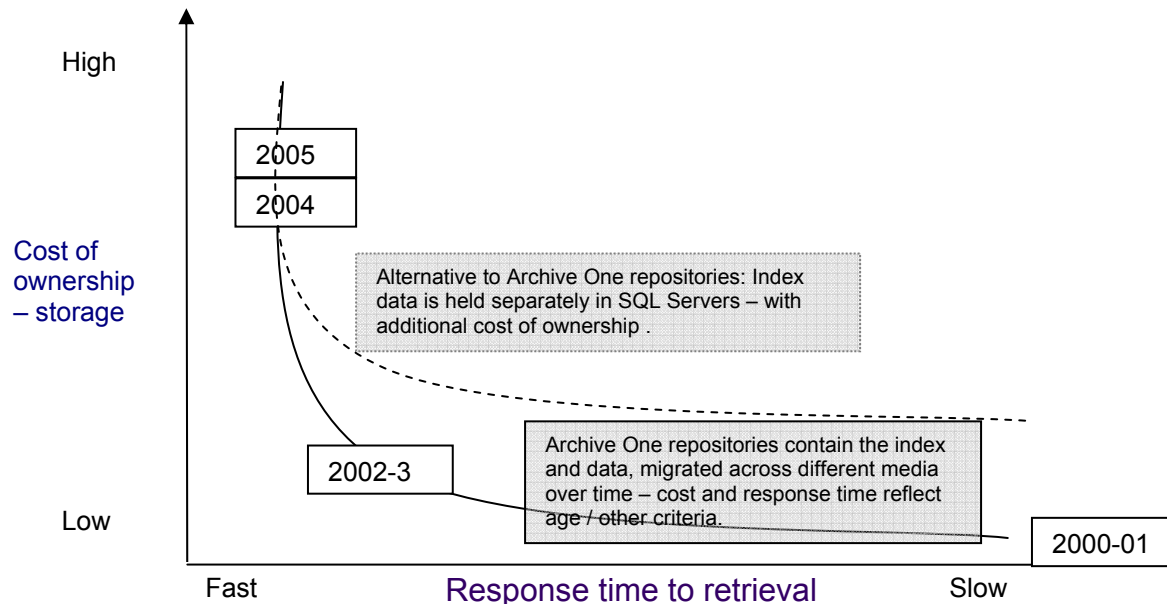
Archive One Repositories: low TCO archiving model

A simple approach to use of archive repositories is illustrated here. Repositories are established by year and stored on media appropriate to the probable access requirements of users and the relative storage costs of those media.

For example, Year 2000-2001 data is on old, slow, and low-cost media. 2002-2003 is on medium cost and response media, while 2004 and the new 2005 repositories are on fast, high performance media which is more expensive but supports the users' access requirements.

At the end of 2005, a 2006 repository will be established and previous years' repositories will be migrated back by one profile of media – so 2004 will go to medium response storage and 2002 will be moved to slower, cheaper media.

Note that Archive One repositories contain the associated index data; alternative SQL based models have directly attributed additional cost of ownership with separate databases for indexes.



Summary

1. Repositories provide for a scalable, flexible, cost and resource-efficient approach to email archiving.
2. Management of archives over time provides optimal benefits from the system.
3. Security and device compatibility is enhanced with use of specific storage management software.

Archive One

Archive One modules are available for organizations that need to archive email for internal e-policy reasons, regulatory compliance and capacity management. C2C's philosophy is to provide solutions for the management of Microsoft Exchange that are easy to install and manage, use industry-standard, non-proprietary applications and hardware and that are scalable to suit organizations of thousands of users.

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