StorMagic

SOLUTION BRIEF

StorMagic ARQvault

GATHER, STORE, FIND. FOREVER

DATA KEEPS GROWING. HOW DO YOU KEEP UP?

There is no slowdown in data growth and more and more data is being created "at the edge," where the event or transaction occurs. There is tremendous opportunity and challenge to capture, store, and use all this data. In the end it is all 1s and 0s, but much of this new data is different: video, audio, images, text files, web content, and other unstructured data.

No matter what type of organization you are in, there is a good chance you are generating much more unstructured data than ever before. These are powerful digital assets that provide tremendous value but also require lots of expensive storage. To use these assets to your advantage and to maintain them with evolving retention, compliance, and legal requirements, you need a solution that can manage this data today, grow with your needs, make it easy to find and use, all at a reasonable cost.

THE FIRST ACTIVE INTELLIGENT REPOSITORY

StorMagic ARQvault lets you gather data anywhere, store it forever, and find it fast. It is the first Active Intelligent Repository and reduces storage costs by at least 50% versus other solutions. There are many unique and important features of ARQvault.

1. **ARQvault is a collection of vaults creating a federated repository**
   ARQvault software combines different and distributed storage resources into an integrated system shared across the network. Vaults consist of a server, storage, and ARQvault software.

2. **ARQvault is active**
   Secondary storage, such as LTO tape libraries and Sony optical systems, cloud storage, and even offline storage are all an active part of the repository. ARQvault knows where all the data is and can actively seek, find, and retrieve any data in real time.

3. **ARQvault is intelligent**
   ARQvault uses policies to automatically move data to different storage tiers and creates low-resolution proxies of high-resolution video, audio, and image files for fast search, playback, and viewing. The use of metadata and customizable fields and integration with analytics packages provides for rich data analysis and discovery of new relationships or business assets.

StorMagic. Copyright © 2021. All rights reserved.

GATHER ANYWHERE

Gather data from anywhere using any source, any server and any storage, and expand easily when needed.

Use any Source

ARQvault can use any digital asset from any source. Easily ingest video, images, audio, and other files and data, such as .pdf, .doc, .xls, .txt and more. ARQvault works with many existing data ingest systems, such as video management systems, and provides all the benefits of ARQvault while utilizing existing investments and familiar tools. And you can apply intelligence via metadata import on the front end as well as in ARQvault.

Use any Server and any Storage

There is no vendor lock in with ARQvault. It can run on x86 or ARM servers and works with any type of storage, from internal disk and flash to NAS and SAN to optical and tape. You can also use any public or private cloud.

Expand Easily

ARQvault provides complete architectural flexibility. Any site can have one or more vaults to store data. Its distributed client/server architecture allows you to have vaults anywhere and you can easily add more at any time. It is also very easy to scale when you need to – from one to thousands of sites in any location. Data migrates seamlessly to new vaults based on your policies and preferences. You can also add additional ingest points, such as cameras, at any time.

STORE FOREVER

Store forever (if you want to) with ARQvault's secure, easy to manage, automated tiering. This provides complete control over data lifecycle management and dramatically lowers data storage costs.

Automated Tiering

ARQvault's active intelligent automated tiering optimizes performance and reduces costs across your implementation. You decide, through policies, what data gets moved to lower cost storage tiers and when. You have complete control over where your data starts, how long it stays there, and when to move large files, such as high-res video, to slower, more cost-effective tiers.

ARQvault can automatically create a low-resolution version of all high-res/high-quality video, images, and audio that occupies less than 10% of the original file's space. All files and objects are easily replicated and migrated across tiers, and the use of low-resolution proxies significantly reduces network congestion. You have fast access to everything and can always get the high-quality files when required – they are always available. Items moved to optical or tape are not "archived and forgotten". They remain an active part of the solution and can be retrieved when needed exactly as any other file that lives on disk.

This policy-based automatic tiering has a big impact on reducing costs to store data. Because storage is usually the largest expense in any data-centric/video intensive solution, with ARQvault you can save at least 50% in storage costs alone. The efficient (and effective) use of optical and tape as an active part of the solution is a huge benefit, as tape is typically only 10% of the cost of spinning disk. And with the simplified, automated processes, operating costs are reduced too, as there is no need to manually move data from storage type to storage type. Data is automatically redistributed to its optimal place based on your policies and preferences.

Secure

Speed and access are irrelevant if data is not secure. ARQvault provides three levels of access security at the vault, storage, and file levels. It integrates with Active Directory or local authentication and you have a complete audit trail. You will know the who, what, when, and where about your data and its use from initial ingest until final removal.

ARQvault makes sure your data remains

StorMagic. Copyright © 2021. All rights reserved.

unaltered using a digital fingerprint (SHA-256) and provides a full chain-of-custody history. This ensures that the data being read is the same as when it was originally written. You will know who has accessed the data, when it was migrated to different tiers of storage, and can see a history of both.

Easy to Manage

Operating costs are further reduced with ARQvault's simple day-to-day management. Using an intuitive, easy-to-use interface you have complete flexibility in storing your data. This also allows for smooth technology transitions.

There is complete lifecycle management of your data from birth to death, from 1 day to 100 years. You can ensure that you keep data only as long as needed and avoid runaway storage issues – the problem of many systems that have multiple copies of things that are no longer needed taking up valuable disk space. ARQvault keeps data current through any hardware or software evolutions and staff can spend less time managing data and more time using it. You can easily export and share data when needed, whether in-house, with constituents, or with third parties. ARQvault's simplicity helps you meet regulation, compliance, and legal requirements.

FIND FAST

Find data fast and apply powerful search and analytics capabilities with intelligent search using rich metadata.

Intelligent Search

The ability to find data quickly and use it effectively are the hallmarks of ARQvault. ARQvault's intelligent search provides fast results no matter where data is located and regardless of its age. ARQvault intelligent search offers numerous search categories including where data is stored, file attributes, access level, and any metadata that has been applied. Each vault has intelligence about its files and metadata. ARQvault sends a parallel search request to all vaults and provides the fastest path to your data. You even get quick results over slow or congested networks using ARQvault's low-resolution proxy files.

Rich Metadata

The use and inclusion of metadata throughout the ARQvault system is key to providing powerful analysis. From applying at ingest, to its use in

Fig 01: ARQvault architecture

StorMagic. Copyright © 2021. All rights reserved.

tiering decisions, to integration with third-party analytics packages, metadata makes searches and data use much richer and more robust. With ARQvault you can search metadata as well as content, such as video, audio, documents, and images. Metadata can be applied at both file and timeline levels for deep file analytics and ARQvault provides advanced reporting and audit capabilities.

Always Available
All the data optimization and search capabilities are useless if data is not available. With ARQvault, data is always there. ARQvault is a distributed architecture with no single point of failure. You can store, move, and retrieve data to and from any vault, anywhere, whether at the same site, to any other vault in the network, or to the StorMagic cloud or any other cloud.

Data resiliency is built in. ARQvault continues to operate if any component fails so data is always safe and available. If a failure occurs while storing or accessing data, ARQvault automatically finds an alternate path and location and keeps writing or reading.

ARQvault SOLUTIONS

StorMagic is bringing several ARQvault solutions to market. The first two solutions are ARQvault Video Surveillance and ARQvault Digital Evidence Management. These solutions consist of modules that are integrated with ARQvault to provide specific functionality.

In addition to all the benefits of ARQvault, the ARQvault VMS module provides camera configuration, live viewing, video wall, specific third-party analytics integration, such as license plate and facial recognition, and more for a complete video management system solution. The ARQvault VMS Connectors module is for customers that already have a front-end VMS system, such as those from Milestone, Exacq, and Qognify. ARQvault VMS Connectors integrates with these front-end systems and provides all the management, policies, active automated tiering, and intelligent search capabilities, along with dramatically lower storage costs, provided by ARQvault.

ARQvault Digital Evidence Management modules provide specific capabilities needed in digital evidence management systems and other uses where in-car video, body cameras, and/or room-specific cameras are utilized. ARQvault Digital Evidence Management modules include: File Ingest, In-Car, Body Cam, and Interview Room. These modules are perfect for law enforcement, transportation and delivery services, warehouse and commercial environments, and many others.

CONCLUSION

Data keeps growing and data types are increasingly unstructured, complex, and require a lot of storage. To best utilize your digital assets, you need to be able to capture data easily, store it efficiently, and find it quickly. You also need to manage and use your data over its long lifecycle while controlling costs.

ALL STORMAGIC PRODUCTS ARE:

FLEXIBLE, ROBUST, AND SIMPLE TO USE

HOW IS ARQvault FLEXIBLE?

- You can STORE FOREVER, ANYWHERE
- You can use ANY SERVER and ANY STORAGE
- You can INGEST from ANY SOURCE

HOW IS ARQvault ROBUST?

- It uses AUTOMATED TIERING
- It features INTELLIGENT SEARCH using RICH METADATA
- It is SECURE

HOW IS ARQvault SIMPLE?

- It is EASY TO MANAGE
- It is ALWAYS AVAILABLE
- It EXPANDS EASILY

StorMagic. Copyright © 2021. All rights reserved.

ARQvault is an Active Intelligent Repository that lets you gather data anywhere, store it forever, and find it fast. Using open systems, there is no vendor lock-in, and you can expand easily. Automated tiering optimizes performance and reduces storage costs by at least 50% in a system that is secure and easy to manage. Low-resolution proxies and rich metadata enable speedy, intelligent search and reduced network congestion, while multiple tiers of storage make sure your data is always available. Gather anywhere, store forever, and find fast with StorMagic ARQvault.

MORE INFORMATION

There are additional resources available covering ARQvault capabilities and features on the **StorMagic website**. Explore the **ARQvault Video Surveillance solution brief** and **data sheet** and the **ARQvault data sheet**.

Test ARQvault in your environment free of charge. Simply download our fully functioning **free trial from the website**.

If you have questions, or you would like a demo of ARQvault VMS contact the StorMagic team at **sales@stormagic.com**.

StorMagic
Unit 4, Eastgate
Office Centre
Eastgate Road
Bristol
BS5 6XX
United Kingdom

+44 (0) 117 952 7396
sales@stormagic.com

www.stormagic.com

StorMagic. Copyright © 2021. All rights reserved.