



DATA SHEET

StorMagic ARQvault DIGITAL EVIDENCE MANAGEMENT

StorMagic ARQvault Digital Evidence Management solutions let you gather evidence anywhere, store it forever, find it fast, and reduce storage costs by at least 50% versus other solutions. ARQvault Digital Evidence Management solutions consists of ARQvault, the first Active Intelligent Repository, and one or more Digital Evidence Management modules.

- **ARQvault File Ingest module** is intended for use by law enforcement, district attorneys, federal agencies, or any organization that needs to keep video, audio, images, and other files in a secure environment and maintain chain-of-custody.
- **ARQvault Body Cam module** integrates with body-worn cameras and is designed for use by law enforcement, private security companies, prisons/jails, delivery companies, or other organizations using body-worn cameras to record, retain, and view video of interactions with others.
- **ARQvault In-Car module** is for any organization with vehicles that needs to record use, activity, and in-vehicle interactions, such as law enforcement, private security companies, delivery vehicles, and transportation providers.
- **ARQvault Interview Room module** is designed for any organization that needs to record and retain interviews, such as law enforcement, prisons/jails, private security companies, detective agencies, security departments, or HR departments.

ARQvault Digital Evidence Management solutions are based on 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 NAS, LTO tape libraries and Sony optical systems, and cloud storage are all an active part of the repository. ARQvault knows where all evidence is and can actively seek, find, and retrieve any evidence in real time.
3. **ARQvault is intelligent.** ARQvault uses policies to automatically move digital evidence to different storage tiers and creates low-resolution proxies of high-resolution video, audio, and images for fast search, playback, and use. The use of metadata and customizable fields, and integration with analytics packages, provides for rich data analysis and new insights.

GATHER ANYWHERE.

Gather evidence from anywhere and expand easily when needed.

Ingest from any source	Upload evidence collected from any source with File Ingest. Body Cam, In-Car, and Interview Room modules connect and upload directly to ARQvault.
No vendor lock-in	Runs on x86 or ARM servers and works with any type of storage: internal disk, flash, NAS, SAN, optical, tape, and cloud.
Provides complete architectural flexibility	Scale from 1 to 1000s of sites. Add additional cameras, modules, servers, storage in any location at any time.

STORE FOREVER.

Store forever (if you want to) with secure, easy to manage, automated tiering. Gain complete control over evidence lifecycle management and lower storage costs by 50%.

Automated tiering: Optimize performance and reduce costs	Creates low-resolution versions of high-res video, audio, and images to use for searching and review that take < 10% of original file's space. Policies decide what evidence gets moved to lower cost storage tiers and when.
3 levels of security: Evidence is secure and admissible	At the vault, storage, file levels. Integrates with Active Directory or local authentication with complete audit trail. Makes sure evidence is unaltered using a digital fingerprint (SHA-256) and provides chain-of-custody history.
Complete evidence lifecycle management	Manage all types of digital evidence in one solution. Share evidence within organization and externally via web link.

FIND FAST.

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

Intelligent search: Fast results no matter data location or age	Numerous search categories: where evidence stored, file attributes, access level, content, metadata applied. Parallel search request to all vaults for fastest path. Quick results over slow networks using low-res proxies.
Metadata use throughout	Applied at ingest, used in tiering decisions, integrates with third-party analytics. Search and data use richer and more robust. Metadata can be applied at file and timeline levels for deep file analytics. Enables advanced reporting and audit capabilities.
Evidence is always there	Distributed architecture with no single point of failure. Store, move, and retrieve evidence to/from any vault, anywhere. Data resiliency built in. Continues to operate if any failure: evidence is always safe and available.

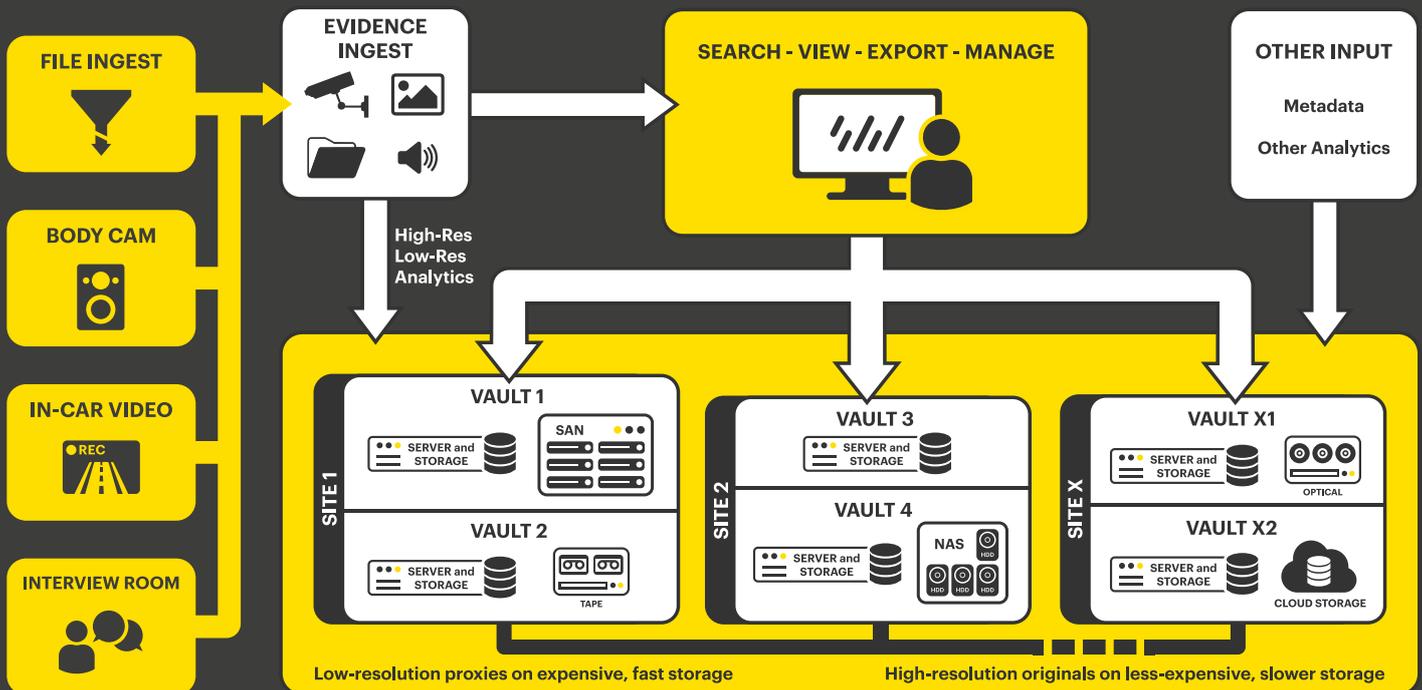


Fig 01: ARQvault Digital Evidence Management solutions architecture

SYSTEM REQUIREMENTS

SERVER	
<ul style="list-style-type: none"> 🔪 Windows Server 2008 R2 SP1 🔪 Windows Server 2012 R2 (64-bit) 🔪 Windows Server 2016 (64-bit) 	<ul style="list-style-type: none"> 🔪 Windows Server 2019 (64-bit) 🔪 Windows Server 2022 (64-bit)
Processor Requirements:	Intel Xeon® E3 3.10GHz or better
Recording Server:	Nvidia Graphics card
Hard Drive Requirements:	50 GB of available space to install and run the product. Additional space will be required based on video retention requirements
Memory Requirements:	16GB or more of RAM
RAID Recommendations:	OS RAID 1 (mirrored); Database RAID 1 (mirrored) (should not be on the same drive as the video cache); Data RAID 5 minimum (vault storage drive)
CLIENT	
<ul style="list-style-type: none"> 🔪 Windows 7 Professional SP1 (32-bit and 64-bit) 🔪 Windows 8 (32-bit and 64-bit) 	<ul style="list-style-type: none"> 🔪 Windows 8.1 (32-bit and 64-bit) 🔪 Windows 10 (64-bit)
Processor Requirements:	Intel® Core i5 3.00 GHz or better
Hard Drive Requirements:	10 GB of available space to install and run the product. Additional space will be required based on video retention requirements
Memory Requirements:	8GB of RAM
RAID Recommendations:	OS RAID 1 (mirrored); Database RAID 1 (mirrored) (should not be on the same drive as the video cache); Data RAID 5 minimum (vault storage drive)
OTHER	
Linux:	Available upon request
Network:	Multicast packet routing is required between all server and client machines
VAULT DISK SPACE	
Disk-only:	<p>Vault storage is required on all servers. In case of disk-only configurations, sufficient storage must be provided to store all original video for the required retention period</p> <ul style="list-style-type: none"> 🔪 Additional disk storage must be provided to store the low-resolution companion files and thumbnails, normally equal to 10% of the total digital data tape storage capacity. 🔪 Database Disk Storage Database storage requirements vary based on the amount of stored video and the use of metadata. 🔪 Each server has its own database which correlates to the video it is storing. As a guideline, every 16TB video storage requires 10 GB of disk storage as a minimum for the database.
Disk and Digital Data Tape:	<p>In a mixed storage environment of disk and digital data tape, sufficient disk storage must be provided to store original video for period which it is required to be stored on disk</p>

ARQvault SUPPORT

ARQvault Maintenance & Support provides organizations with access to StorMagic support resources, including product updates, knowledgebase access, and email support with our technical support staff. A summary is shown in the table opposite. More information on ARQvault Maintenance & Support can be found at stormagic.com/company/support.

Hours of operation	24 hours a day ¹ (7 days a week)
Length of service	1, 3 or 5 years
Product updates	Yes
Product upgrades	Yes
Access method	Email + Telephone (via platinum engagement form on support.stormagic.com)
Response method	Email + Telephone + WebEx
Maximum number of support administrators per contract	4
Response time	1 hour

¹ Global, 24x7 support for Severity 1 - Critical Down & Severity 2 Degraded issues



ARCHITECTURAL HIGHLIGHTS

Ingest from any source	Upload evidence from any source with File Ingest. Body Cam, In-Car, and Interview Room modules upload directly to ARQvault.
Data synchronization	Synchronize data through incremental or differential backups or uploads based upon specified criteria. Folder on user's desktop can be uploaded at end of day or drop files into specified location – only changed content will be uploaded and synced.
Consists of 1 to 1000s of vaults at 1 or more sites	Vaults consists of server, storage, ARQvault software. Single-pane-of-glass operation reduces complexity, simplifies day-to-day management, and lowers costs.
Policy driven automated tiering and management	Determines where evidence starts, how long it is there, where it goes next.
Low-resolution proxy files created for ingested video, audio, and images	Takes less than 10% of the original file's space. Originals moved to lower cost storage. Provides fast access for search, playback, and viewing. High-res versions always available.
Evidence is active on all storage tiers	Evidence moved to secondary storage is not "archived and forgotten." Optical jukeboxes and tape libraries are active. Evidence can be retrieved immediately from any storage device.
Parallel search requests sent to all vaults	Finds the fastest path to evidence. Fast response on slow networks using low-res proxies.
Evidence is secure, unaltered, always available, and admissible	3 levels of access security. Digital fingerprint (SHA-256) and chain-of-custody history. No single point of failure.
Evidence viewing is secure	A temporary identification watermark is placed across the video while it is being viewed in ARQvault. Watermark is not embedded and will not be present on the original video when exported.

MORE INFORMATION

There are additional resources available covering ARQvault capabilities and features on the [StorMagic website](#). Explore the [ARQvault solution brief](#) and [data sheet](#), the [ARQvault for Video Surveillance solution brief](#) and [data sheet](#), and the [ARQvault Digital Evidence Management solution brief](#) and [Digital Evidence Management Modules data sheet](#).

Test ARQvault Digital Evidence Management 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 Digital Evidence Management contact the StorMagic team at sales@stormagic.com.

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