



# StorMagic ARQvault VMS

The StorMagic ARQvault Video Surveillance solution (ARQvault VMS) is the most cost-effective way to use and retain surveillance video. It keeps all video

active, no matter its location or age, and significantly reduces costs with automated tiered storage.

 <p><b>CAPTURE</b></p> <p><i>Capture and view surveillance video with maximum choice and control.</i></p>	<p>Over 5,300 certified cameras. Supports any ONVIF or RTSP-enabled IP camera</p>	<ul style="list-style-type: none"> <li>Automatically ingests video</li> <li>Automatically detects any supported IP camera and adds to the VMS</li> <li>Ingest existing video, audio, and images with File Ingest Add-On</li> <li>Use with existing VMS with 3rd Party VMS Add-On</li> </ul>
	<p>Hardware agnostic with no vendor lock-in</p>	<ul style="list-style-type: none"> <li>Runs on any x86 server</li> <li>Works with any type of storage: internal disk, flash, NAS, SAN, optical, and tape</li> </ul>
	<p>Provides complete architectural flexibility and expands easily</p>	<ul style="list-style-type: none"> <li>Any site can have one or more vaults</li> <li>Easy to scale – add additional cameras, servers, storage, or vaults in any location at any time</li> </ul>
 <p><b>VIEW</b></p> <p><i>Powerful live-view capabilities and a full featured, massively scalable video wall.</i></p>	<p>Highly customizable</p>	<ul style="list-style-type: none"> <li>Supports thousands of monitors with multiple layouts</li> </ul>
	<p>Easy to use</p>	<ul style="list-style-type: none"> <li>Intuitive drag and drop user interface</li> </ul>
	<p>Complete control</p>	<ul style="list-style-type: none"> <li>Numerous settings for camera control, layout configuration, creating and utilizing patrols, camera pooling, and multi-camera video playback</li> </ul>
	<p>Action oriented</p>	<ul style="list-style-type: none"> <li>Screen pops and actions generated from programmable and analytics-based alerts and triggers</li> </ul>

 <p><b>USE</b></p> <p><i>Use and manage surveillance video with ease and speed. Get quick results no matter video location or age.</i></p>	Fast, intelligent search	<ul style="list-style-type: none"> <li>Search by where video is stored, file attributes, access level, metadata</li> <li>Thumbnail and timeline searching</li> <li>Fastest path to video via parallel search request to all vaults - all video is active</li> <li>Quick results over slow networks using low-res proxies</li> </ul>
	Metadata use throughout	<ul style="list-style-type: none"> <li>Applied at capture and ingest, used in tiering decisions, integrates with third-party analytics</li> <li>Metadata can be applied at file and timeline levels for deep file analytics</li> <li>Enables advanced reporting and audit capabilities</li> </ul>
 <p><b>MANAGE</b></p> <p><i>Reduce complexity and simplify day-to-day management.</i></p>	Simple, powerful single-pane-of-glass operation	<ul style="list-style-type: none"> <li>Operate and manage multiple sites from a single or multiple locations</li> <li>Manage all recording servers through one interface</li> </ul>
	Policy-based control	<ul style="list-style-type: none"> <li>Policies determine what video gets moved to lower cost storage tiers and when</li> <li>Automated policies prevent runaway storage issues</li> <li>Video can be migrated, replicated, and purged based on custom metadata, specific criteria such as date, last use, file size, and current location</li> </ul>
 <p><b>RETAIN</b></p> <p><i>Store and protect all video for as long as needed, even forever.</i></p>	Automated tiering optimizes performance and reduces costs	<ul style="list-style-type: none"> <li>Save up to 50% on storage costs and reduce operating costs</li> <li>Policies decide what video gets moved to lower cost storage tiers and when</li> <li>Complete control over where video starts, how long it stays, and when larger files, such as high-res, move to more cost-effective tiers</li> </ul>
	Store as much for as long as you want – all video remains active	<ul style="list-style-type: none"> <li>Automated tiering lets you securely store video forever (if you want to)</li> <li>Low-resolution proxies take ~5% of original's space while retaining high-res originals</li> <li>Video moved to optical or tape is not "archived and forgotten" – remains an active part of the repository</li> <li>Can be retrieved when needed exactly as any video on disk</li> </ul>
	Complete video lifecycle management	<ul style="list-style-type: none"> <li>From ingest to purge</li> <li>Easily export and share video: in-house, constituents, or third parties</li> <li>Simplicity helps meet regulation, compliance, and legal requirements</li> </ul>
 <p><b>PROTECT</b></p> <p><i>All video is available and secure.</i></p>	Video is always there	<ul style="list-style-type: none"> <li>Distributed architecture with no single point of failure</li> <li>Store, move, and retrieve video to/from any vault, anywhere</li> <li>Data resiliency built in - continues to operate if any failure: video is always safe and available</li> </ul>
	Video is secure and protected	<ul style="list-style-type: none"> <li>Three levels of access security: at the vault, storage, file levels</li> <li>Integrates with Active Directory or local authentication with complete audit trail. Makes sure video is unaltered using a digital fingerprint (SHA- 256) and provides chain-of-custody history</li> <li>Ensures video remains unaltered using a digital fingerprint (SHA-256) and a full chain-of-custody history</li> </ul>

## ARQvault VMS ADD-ONS

VMS Connectors	Interview Room	File Ingest
If you already have a VMS solution, you can get all the benefits of ARQvault and keep your front-end using the ARQvault VMS Connectors add-on.	The ARQvault VMS Interview Room add-on is used in interview settings, or in any surveillance setting where in-room video and audio recording is desired, to easily record, meta-tag and store conversations. Search, playback, and view your recordings easily at any time, anywhere.	The File Ingest add-on allows users to ingest media into ARQvault VMS, such as video, audio, and images, with manual and automatic metadata collection. It keeps everything organized and secure with a simple search function enabling easy retrieval, regardless of asset age or location.
<ul style="list-style-type: none"> <li>Integrates easily with Milestone, Exacq and Qognify video management systems.</li> <li>Overcomes the single-tiered limitations of current VMS solutions so you can afford much longer-term retention.</li> <li>Manages all your captured video within a single management console.</li> <li>Provides ARQvault VMS features, including automated tiering, low-resolution proxies, and intelligent search using rich metadata on a system that is always available and secure.</li> </ul>	<ul style="list-style-type: none"> <li>Supports thousands of cameras. Works with any ONVIF or RTSP-enabled IP camera with audio.</li> <li>Remote Live View lets you watch interviews in progress from any computer granted access. Interviews can be monitored on multiple screens in multiple locations.</li> <li>Custom metadata tagging and notes can be added to the interview video before it is ingested. Once in ARQvault, metadata can still be added or edited.</li> <li>Easy to use web interface for searching and viewing video, and for sharing and retrieving video.</li> </ul>	<ul style="list-style-type: none"> <li>Ingest any media from anywhere with an easy-to-use tool to upload media files collected from any source: photos, recordings, and video into ARQvault VMS</li> <li>Users can use a web portal to securely upload files. The web portal provides a simple drag-and-drop interface.</li> <li>Easily apply metadata and securely move into ARQvault VMS with a complete chain-of-custody history.</li> </ul>

## SYSTEM REQUIREMENTS

SERVER	
<ul style="list-style-type: none"> <li>Windows Server 2008 R2 SP1</li> <li>Windows Server 2012 R2 (64-bit)</li> <li>Windows Server 2016 (64-bit)</li> </ul>	<ul style="list-style-type: none"> <li>Windows Server 2019 (64-bit)</li> <li>Windows Server 2022 (64-bit)</li> </ul>
<b>Processor Requirements:</b>	Intel Xeon® E3 3.10GHz or better
<b>Recording Server:</b>	Nvidia Graphics card
<b>Hard Drive Requirements:</b>	50 GB of available space to install and run the product. Additional space will be required based on video retention requirements
<b>Memory Requirements:</b>	16GB or more of RAM
<b>RAID Recommendations:</b>	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"> <li>Windows 7 Professional SP1 (32-bit and 64-bit)</li> <li>Windows 8 (32-bit and 64-bit)</li> </ul>	<ul style="list-style-type: none"> <li>Windows 8.1 (32-bit and 64-bit)</li> <li>Windows 10 (64-bit)</li> </ul>
<b>Processor Requirements:</b>	Intel® Core i5 3.00 GHz or better
<b>Hard Drive Requirements:</b>	10 GB of available space to install and run the product. Additional space will be required based on video retention requirements
<b>Memory Requirements:</b>	8GB of RAM
<b>RAID Recommendations:</b>	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	
<b>Linux:</b>	Available upon request
<b>Network:</b>	Multicast packet routing is required between all server and client machines
VAULT DISK SPACE	
<b>Disk-only:</b>	<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"> <li>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.</li> <li>Database Disk Storage Database storage requirements vary based on the amount of stored video and the use of metadata.</li> </ul>
<b>Disk and Digital Data Tape:</b>	<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> <ul style="list-style-type: none"> <li>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.</li> </ul>



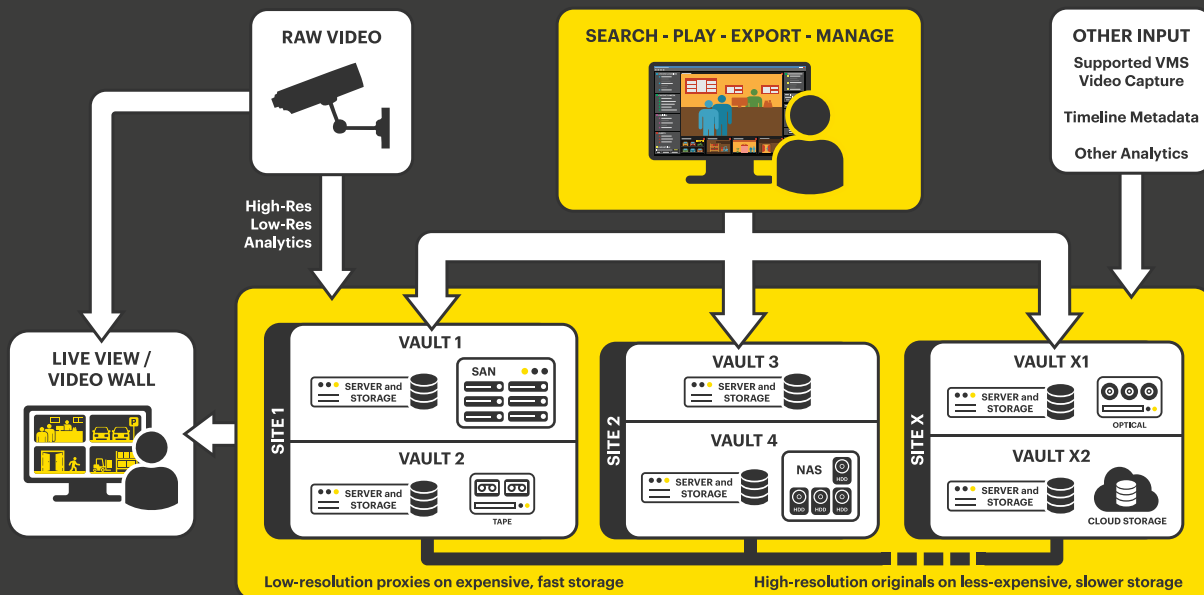


Fig 01: ARQvault Video Surveillance solution architecture

## ARCHITECTURAL HIGHLIGHTS

<b>Video ingests from 1000s of cameras or other VMS</b>	<ul style="list-style-type: none"> <li>Any ONVIF or RTSP-enabled IP camera</li> <li>More than 5,300 certified cameras</li> <li>Can use with Milestone, Exacq, or Qognify</li> </ul>
<b>Live View and Video Wall</b>	<ul style="list-style-type: none"> <li>Full featured, massively scalable video wall</li> <li>Highly configurable and customizable</li> <li>Easy to use</li> </ul>
<b>Consists of 1 to 1000s of vaults at 1 or more sites</b>	<ul style="list-style-type: none"> <li>Vaults consists of server, storage, ARQvault VMS software</li> </ul>
<b>Policy driven automated tiering</b>	<ul style="list-style-type: none"> <li>Determines where video starts, how long it is there, where it goes next</li> </ul>
<b>Low-resolution proxy files created for ingested video</b>	<ul style="list-style-type: none"> <li>Takes ~5% storage space of original versions</li> <li>Originals moved to lower cost storage</li> <li>Fast access to video for search, playback, viewing</li> <li>High-res versions always available</li> </ul>
<b>Video is active on all storage tiers</b>	<ul style="list-style-type: none"> <li>Optical jukeboxes and tape libraries are active</li> <li>Video can be retrieved immediately</li> </ul>
<b>Parallel search requests sent to all vaults</b>	<ul style="list-style-type: none"> <li>Finds the fastest path to video</li> <li>Fast response on slow networks using low-res proxies</li> </ul>
<b>Video is secure, unaltered, always available</b>	<ul style="list-style-type: none"> <li>3 levels of access security</li> <li>Digital fingerprint (SHA-256) and chain-of-custody history</li> <li>No single point of failure</li> </ul>

## ARQvault VMS PRICING AND SUPPORT

StorMagic ARQvault VMS is a full-featured video surveillance system and is sold per-site by subscription for 1, 3, or 5-year terms. Select storage capacity, camera packs, and add-ons, as needed.

All ARQvault VMS subscriptions include our Platinum Enterprise Support service, which provides 24 hours

a day, 7 days a week maintenance and support. This allows access to software updates, including bug fixes and logging technical support tickets, so customers will always be covered for the unexpected. For more information about our Maintenance & Support program, please visit:

<https://support.stormagic.com/>

## MORE INFORMATION

There are additional resources available covering ARQvault capabilities and features on the [StorMagic website](#) and the [ARQvault for VMS solution brief](#).

Test ARQvault VMS 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](mailto:sales@stormagic.com).

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