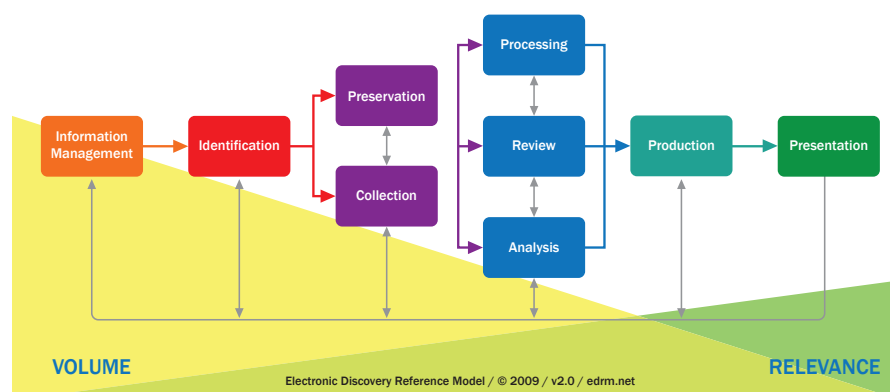


BENEFITS OF BLUEARC NETWORKED STORAGE:

- Manage multiple, large matters with the ability to process huge volumes of data with scalability to 16 PB of storage under a single namespace
- Comply with short collection and preservation timeframes with the ability to process data at throughputs of 800-1500 MB/second
- Lower costs with intelligent tiered storage that allows mixing of high-performance and archival disk behind one system
- Seamlessly support the heavy-duty analytical processing required for ECA solutions that make associates more effective and efficient
- Optimize your eDiscovery solutions with BlueArc's networked storage that is scalable, high-performance, and high capacity
- Make the right decisions with true Early Case Assessment on a platform with the highest data processing throughput
- Be ready for meet-and-confer sessions by processing data faster
- Avoid unexpected hardware costs and complexity with industry-leading scalability instead of continually adding hardware to make existing systems scale
- Deliver ECA at a profit instead of at a cost

BlueArc—Law Firms' Foundation For High-Performance, Cost-Effective eDiscovery

Electronic Discovery Reference Model



Differentiate Your Firm With A High-Performance, Scalable eDiscovery Foundation

Corporations expect their law firms to have robust eDiscovery capabilities, with the ability to quickly process, analyze, and review massive amount of electronically stored information (ESI). Law firms face compressed timeframes to prepare for meet-and-confer sessions and to map out case strategies. For many firms, early case assessment (ECA), which should be a strong profit center, is delivered virtually at cost because the infrastructure does not allow associates to get through the data quickly. At the same time, there is increasing pressure to provide services like ECA to clients at lower or fixed prices.

This forces law firm IT and litigation support departments to ensure that the firm has the right infrastructure in place to handle to process huge amounts of information and provide value-add functionality like content analytics to help make better, faster legal decisions without requiring a huge amount of human labor to administer.

This is more easily said than done. The diversity of ESI formats (e.g. PST, audio, video, image files) has increased, requiring huge IOPS capabilities for large scale Electronic Data Discovery (EDD) processing. In addition, the need for ECA solutions with heavy content analytics requires even more processing power than ever before. In order to address today's market dynamics, you need a storage platform that provides high-volume scalability, high throughput, and massive processing capacity for millions of small and large files while also remaining affordable so that your firm can remain price competitive.

The Traditional Data Center Infrastructure is Not Enough

eDiscovery requires the ability to process large volumes of information in very short timeframes. Information collected and preserved is stored on multiple file systems. The information tends to be comprised of millions of both large and small files. Most file systems support adequate levels of throughput when dealing with large files, but thousands or millions of small files degrade performance due to the high percentage of non-data transfer operations. Indexing and processing information means doing metadata look-ups for every file and that creates a lot of overhead that traditional storage systems cannot keep up with. This creates a challenge in operating the data center due to the need to manage tasks across multiple systems – it introduces complexity and drives up labor costs.



It's easy to assume that your processing and review applications can be deployed on existing storage infrastructure. However, file access and directory lookups often degrade as more files are added to a directory. While this may not be a problem when there are several thousands of files in a directory, with the millions of files involved with eDiscovery, this can become a crippling impediment. The need for high-octane processing power is greater than ever due to the sophisticated analytical processing required for ECA.

Too often, organizations rush to implement eDiscovery applications on existing storage platforms only to encounter issues that make the problem worse and drive up costs. Imagine investing in a slick ECA application only to find that it can't get through the data fast enough to help make an early decision, or that to get it to scale to support your volumes will require additional hardware investments? Those are the kinds of frustrations that can be avoided by choosing the right storage foundation upfront.

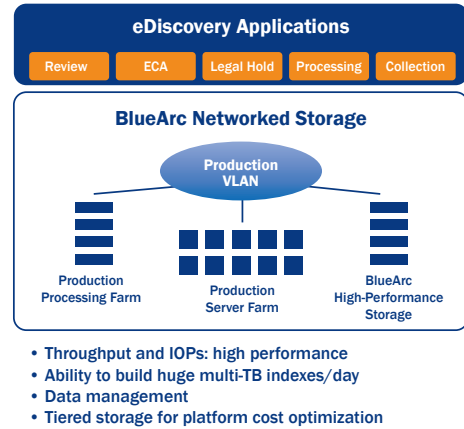
It is better – and more cost-effective – to look at storage platforms with management software specifically designed for the high-volume scalability, high throughput, and massive processing capacity for millions of small and large files that eDiscovery requires. While any storage system can be configured to provide speed and throughput, enabling processing capacity requires the next-generation NAS. It means being able to support high input/output per second (IOPS) on file systems.

With BlueArc As The Foundation, You Can Exceed Customer Expectations

With multiple clients and matters to support in your data center, it's important to have a cost-effective storage solution in place that also supports the processing power that clients demand. The analytics that ECA applications run require even more intensive processing resources. Your firm needs to be able to churn through data at high speeds and without hiccups that could introduce errors and risk into the process. The BlueArc foundation ensures that ECA can be the profit center you need it to be because associates can get through data quickly and without hiccups.

BlueArc is the network storage of choice for law firms who value processing time as money because it allows thousands of parallel operations in the processing of data and metadata, maintaining performance even with the heavy demands of eDiscovery. BlueArc's hardware-accelerated architecture, based on an object-based file system, can process hundreds of millions of files across deep directory structures for a quantum improvement in eDiscovery application performance. Traditional software based file systems need to create extraneous directories or folders to effectively handle this many files, while BlueArc network storage can easily scale and maintain performance to 16 million files in a single directory.

The BlueArc NAS storage system has a unique architectural advantage that off-loads file system operations utilizing internal high-performance silicon. This distinct design element enables BlueArc NAS to scale in performance and capacity simply, cost-effectively, and with minimal physical footprint. Both performance and capacity are inextricably linked and BlueArc is designed to efficiently scale without degrading as the system grows. This is critically important for ensuring that eDiscovery activities are never halted due to the stress put upon the storage system.



- Throughput and IOPS: high performance
- Ability to build huge multi-TB indexes/day
- Data management
- Tiered storage for platform cost optimization

Figure 1 – How BlueArc Powers eDiscovery

BlueArc Network Storage vs Traditional Networked Storage	
Hardware-accelerated, Object-based file system	Software-based architecture
Consistency of file system performance, regardless of block size or workloads	Tuned for either small-block, random I/O or large-block, sequential workloads
Support up to 256 TB of data per file system	Capped at 16 TB of data per file system
Supports millions of files in a single directory, while keeping directory search times to a minimum and sustaining overall system performance	Scaling up impacts overall file system performance
Automated data migration to tiered storage	Manual and expensive data migration
Policy-based, Secured Storage	Unsecure or reliance on 3rd-party solutions

If eDiscovery scale, speed, or processing performance ever become an issue, client satisfaction will be negatively affected. Deploying your eDiscovery solutions on BlueArc's next-generation storage ensures that you can meet customer requirements for EDD processing services, operate your data in a cost-effective manner, achieve storage scalability without adding management complexity, and process data quickly – all while maintaining customer satisfaction.



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