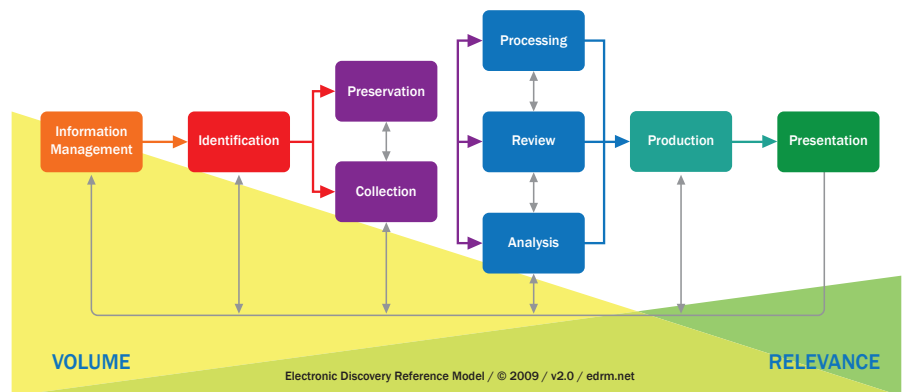


**BENEFITS OF BLUEARC NETWORKED STORAGE:**

- 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
- Optimize eDiscovery applications like ECA with BlueArc's networked storage that is scalable, high-performance, and high capacity
- Make the right decisions earlier 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
- Achieve litigation readiness with a platform that has the scale and speed necessary to support all aspects of eDiscovery

## Powering Cost-Effective eDiscovery for Corporations

### Electronic Discovery Reference Model



### eDiscovery Creates Challenges for Both Legal And IT Departments

Governments across the globe continue to set stringent rules that require organizations to identify, collect, process, analyze, and produce information requested in litigation in very short timeframes. With volumes of electronically stored information (ESI) on the rise—IDC estimates that the universe of digital information will grow to nearly 1.8 zettabytes (1,800 exabytes) by 2011—the costs of eDiscovery have risen dramatically. Research firm Gartner estimates the average cost to defend a corporate lawsuit exceeds \$1.5 million per case. This cost comes from third party processing fees of up to \$1,000 per GB and legal review costs of up to \$500 per hour on information that is often completely irrelevant.

As a result, organizations now strive for litigation readiness and cost control. Whether preserving all potentially responsive information for eDiscovery or deciding what to produce in eDisclosure, the back-end infrastructure must support the ability to quickly identify, collect, preserve, process, analyze, and review information. Organizations need to be able to conduct early case assessment (ECA) so as to minimize the amount of information for downstream processing and review. ECA is known to reduce responsive data sets by over 80%. In the rush to reduce or avoid eDiscovery costs, organizations have deployed tools without consideration to the underlying platform that powers them.

### The Traditional File System 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 inside the corporation. 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 complexity for IT—managing tasks across multiple systems in addition to taking care of backup and replication for all this information.

Too often, organizations make the short-sighted assumption that eDiscovery applications like ECA 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. It is better—and more cost-effective—to look at storage platforms with management software specifically designed for high-volume scalability, high throughput, and massive processing capacity for millions of small and large files.

### How to Ensure Fast eDiscovery

Speed is the thing in eDiscovery. But what most don't understand is that, no matter what eDiscovery applications an organization deploys—collection and processing software, early case assessment (ECA) tools, legal hold management applications—the benefits can be eliminated if the solution is not built on the right storage platform. To process information at the speed and volume that eDiscovery demands requires massive scalability, high throughput, and processing capacity. This is where storage systems become critically important. 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.

### BlueArc Provides the Base to Support eDiscovery Applications

BlueArc provides the network storage solution of choice for eDiscovery organizations 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. As a result, more ESI can be processed per day.

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.

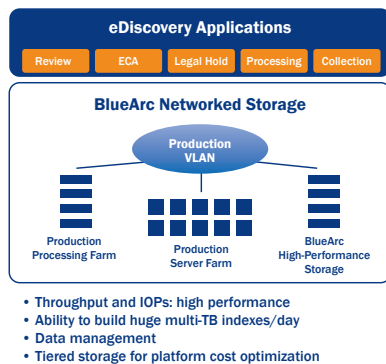


Figure 1 – How BlueArc Powers eDiscovery

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

Deploying eDiscovery applications without BlueArc networked storage is like building your dream home on a foundation of sand. eDiscovery applications like ECA promise fast ROI via lower processing and legal review costs. However, if you build eDiscovery applications on networked storage that is not high performance, is difficult to scale, and does not provide the necessary throughput, you will find that timely data identification and collection for litigation or early case assessment is difficult. 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. Deploying your eDiscovery applications on BlueArc's next-generation storage enables you to achieve ROI and respond quickly to eDiscovery demands. BlueArc bridges the gap between Legal and IT organizations by insuring that eDiscovery applications work at the speed Legal needs while remaining manageable and scalable to meet IT's requirements.

Office of the General Counsel (OGC)	Information Tech Execs
More efficient use of executive liability policy retention spend	Avoid disruptive discovery response expenses by integrating identification and collection into core IT functionality
Use retention spend to make more progress in the case	"Litigation Readiness" means architecting systems to enable responses to document requests within annual resource forecasts for both CAP EX and OP EX
- Scope Management - In-Place ECA Indexing	Integrated Cross-Server Indexing (e.g. Digital Reef) automates "scope of collection" definitions
Spend Retention on legal strategy, not IT	
Establish efficiencies that will carry over to operational efficiencies when policy limits are exceeded	



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