DatoSphere™
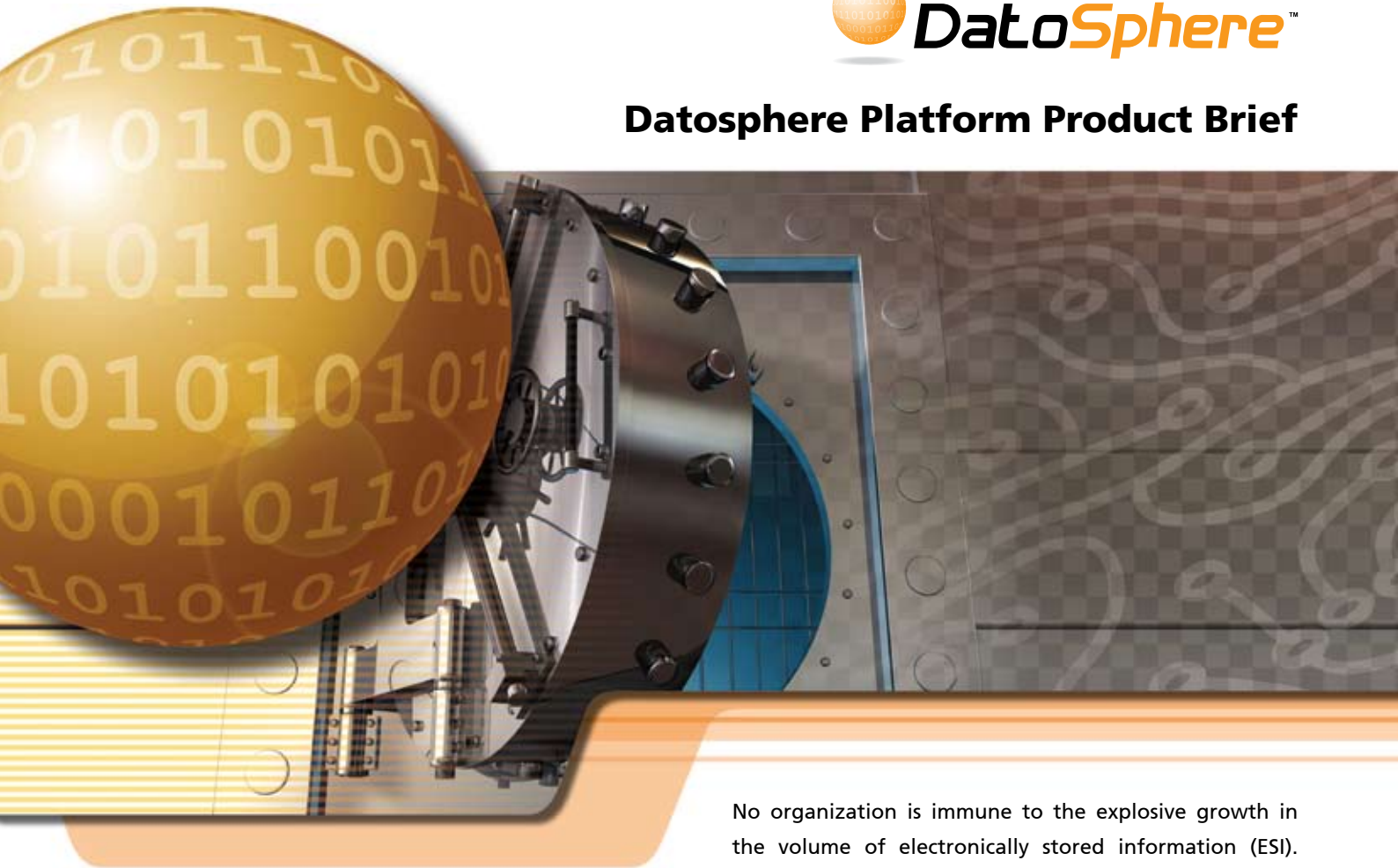
Datosphere Platform Product Brief

No organization is immune to the explosive growth in the volume of electronically stored information (ESI). The rapid growth of ESI is having a tangible impact upon organizations in three primary areas, the volume of ESI upon the IT infrastructure, its legal implications and regulatory compliance. The impact of ESI upon corporate networks, infrastructures and email servers is burdening already strapped IT staff, impacting user productivity and driving up costs. Laws, regulations and company policies establishing the legal status of ESI, mandatory retention periods and its discoverability have real consequences for organizations and virtually assure its rapid growth rates for the foreseeable future.

"By 2011, the digital universe will be 10 times the size it was in 2006"

The Diverse and Exploding Digital Universe, An Updated Forecast of Worldwide Information Growth Through 2011, March 2008, An IDC White Paper sponsored by EMC

Organizations need to address the challenges of ESI as delays will be far more costly than tackling the problems today. As the volume of ESI increases exponentially each year, the failure to get started on an ESI strategy will only make matters worse. Lost time due to non-existent, inefficient or poorly executed ESI strategies means lost money.

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The Datosphere Solution

Nayatek's next generation integrated content archiving platform, Datosphere, can serve as the cornerstone of your strategy to address the challenges of ESI. It is based on solid foundation that can ensure its comprehensive functionality is fully leveraged, adaptable, and as scalable as possible. The foundation ensures that core functionality is available in all scenarios without compromise, caveats or unnecessary third party external dependencies.

Datosphere Foundations

Datosphere's comprehensive content archiving, EDiscovery, storage management, business continuity and compliance functionality ensures that organizations can effectively capture, index, store, secure, manage, retain and discover disparate ESI. It provides a platform to build on that can help future proof against changes in legal requirements, new ESI data formats, retention requirements and the ever encroaching impact of regulatory compliance.

Datosphere Functionality

Datosphere is built for the ESI challenges of today and open to those of tomorrow allowing an organization maximize the value of the investment and lower the total cost of ownership. Getting control over ESI no longer has to be so complicated.

Data Neutral Design	Open Storage Layer
Next Generation Architecture	
Flexible Enterprise Deployment	Common Sense TCO

EDiscovery	Storage Management
Content Archiving	
Business Continuity	Compliance

Next Generation Architecture

The core platform architecture is what matters most. Datosphere's dynamic next generation architecture fully leverages the feature set and is a clear differentiator. Architectures that are old, outsource core functionality or do not fully optimize their feature sets are limit the functionality, performance and scalability of the solution.

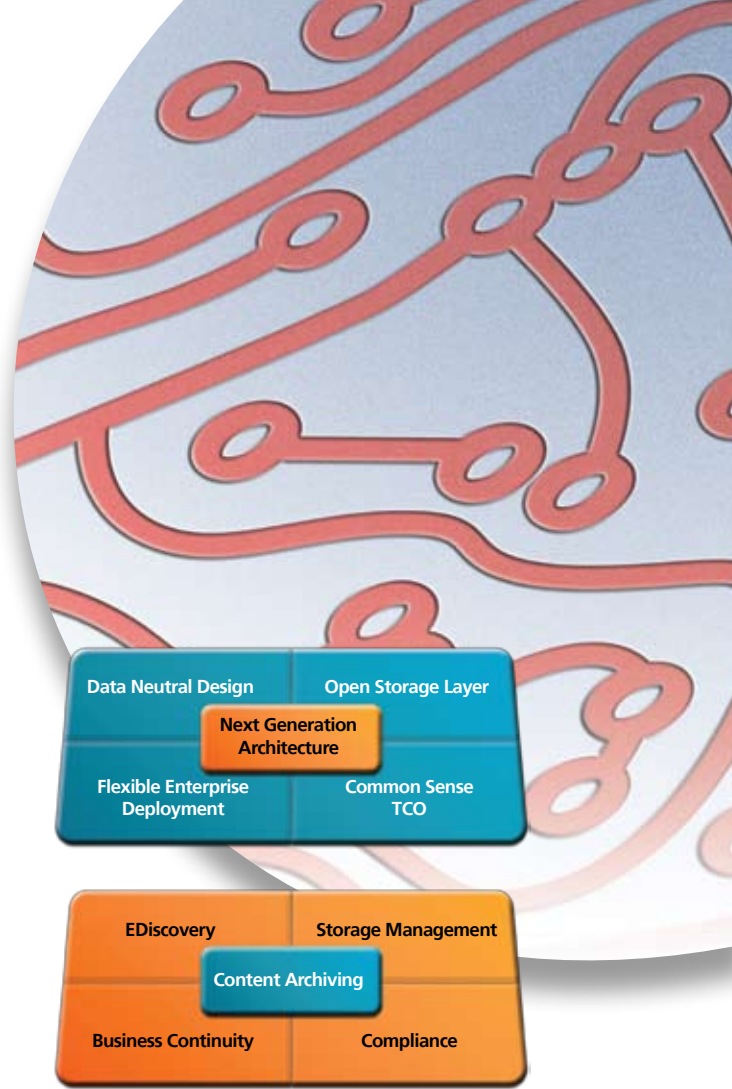### Next Generation Architecture leverages the feature set

The importance of the product architecture should never be underestimated. While features from vendor to vendor often blur together, it is the underlying architecture of the solution that is most critical. The architecture ensures core functionality is available in all scenarios without compromise or caveats. Datosphere's architecture does not limit configuration or deployment options nor outsource core functionality and create unnecessary dependencies on third party systems.
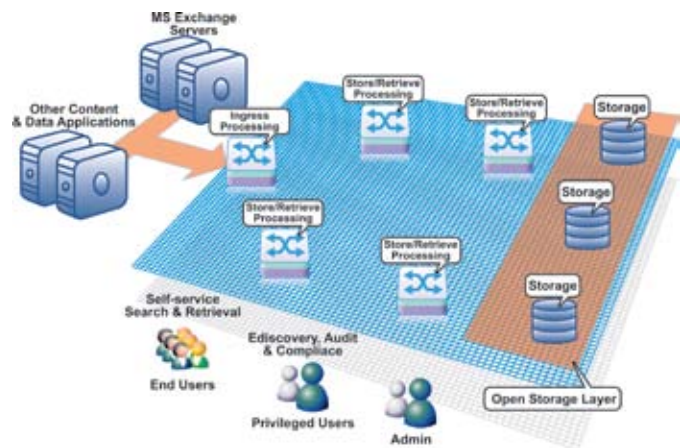
Dynamic Grid Architecture

Datosphere's dynamic grid based architecture is a highly available, self-contained and redundant multi-node ready architecture with no single point of failure. The architecture allows it to virtually overlay the existing network infrastructure rather than trying to impose a specific way in which the solution should work with a long list of dependencies.

A platform that can evolve with your organization

Datosphere is an integrated content archiving solution built for the ESI challenges of today and tomorrow. Needs and requirements will evolve, new data formats will be created, new regulations will be mandated and options like redundancy, business continuity and disaster recovery may become necessities. The strength of a Datosphere's architecture can help an organization to keep pace.

▶ **Datosphere Grid Architecture**

▶ **Datosphere Grid Architecture Advantages**

- ▶ Global distribution of processing resources
- ▶ Self-contained servers running all services
- ▶ Easily scale performance by adding servers & storage without taking down the system
- ▶ Scalability and data availability do not depend upon external databases
- ▶ Integrated redundancies provide for business continuity and disaster recovery
- ▶ Self-reorganizing in the event of failure

Data Neutral Design

Unlike older product architectures that were designed specifically for email archiving and later retrofitted to handle other types of ESI, Datosphere's architecture was designed to be data neutral. It is a true content archiving platform and is not committed to a particular type of data. This is significant advantage as it all but ensures organizations can evolve and adapt to new ESI formats, changes in legal requirements and the impact of compliance.

Purpose Built & Optimized Indexes

In much the same way that the major search engines store the massive indexes and metadata they generate, Datosphere uses a purpose built information retrieval index database system. It eliminates the relational database overhead and maintenance and focuses on the very specific functionality required. This allows the efficiency and performance of the system to be maximized. Scalability and data availability no longer depend upon external databases thus eliminating a major infrastructure dependency and its associated ongoing management and maintenance.

Open Storage Layer

Datosphere's open storage layer provides organizations with a wide range of flexible storage options allowing it to work with standard storage devices, protocols and scenarios that best fit the needs of the organization. Datosphere storage agents support local storage, DAS, SAN, NAS, CAS, iSCSI and other devices via NFS/CIFS.

Regardless of the storage technology/protocol utilized at individual nodes, the Datosphere grid provides the infrastructure for reliability, redundancy, and security. Additionally, as Datosphere provides native encryption of the archive stores, this no longer needs to be a requirement of the storage device.

Storage Optimization

Datosphere moves ESI from primary storage to less expensive secondary storage in order to optimize storage. Single instance storage and native compression provide substantial savings in terms of total storage.

Storage Scenarios

Datosphere's open storage layer makes adding storage to an existing system straightforward. A new storage agent can be configured on an existing Datosphere host or a new Datosphere host is added to the system with a new storage agent without the need to provide a matching mirrored device.

The grid technology ensures that the new storage is discovered by all the agents that may need to use it and router load balancing automatically adjusts to incorporate it. As storage agents are accessed in parallel, adding storage to an existing system improves performance.
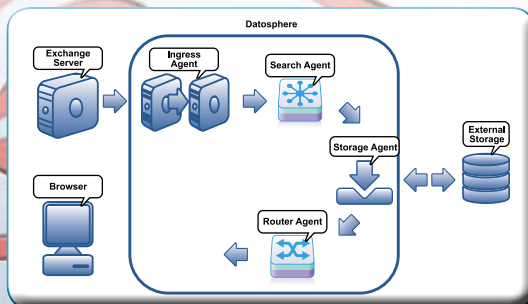
▶ Redundant Storage

Redundant storage can be configured on the fly. This virtually guarantees that any storage device in the system can fail without loss of data. Datosphere uses secondary storage agents and its integrated load balancing to maintain maximum throughput. Storage can be fully scaled by adding new storage devices without the need to provide a matching mirrored device.

▶ Federated Storage

Datosphere provides the ability to select multiple independent storage devices that could be scattered over the network and see them as one larger virtual federated storage pool. This grid based federated storage helps to achieve location independence by abstracting the physical location of the data.

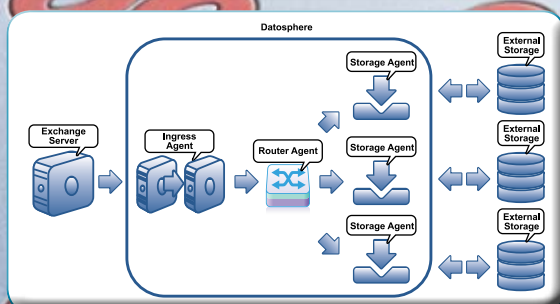### ▶ Cloud Storage & Storage Clusters

Datosphere also can support cloud storage and storage clusters through its open storage layer. The agent-based approach provides an open architecture abstraction for the storage requirements of grid agents.
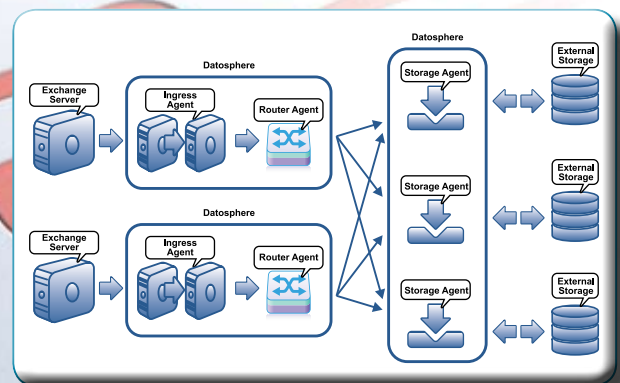
▶ **Datosphere Storage Topologies**

Standard Storage

Multinode Redundant Storage

Redundant Storage

Flexible Enterprise Deployment

Datosphere was designed from the ground up to address the problems that organizations have traditionally faced with overly complex, hard to install and cumbersome to manage archiving and discovery products. Its delivery and installation model was designed to simplify the task of evaluating, deploying and managing a content archiving solution. Spending weeks and months to install and configure a solution is no longer viable. Datosphere is built to be up and running in hours no days.

Software Appliance model

Datosphere is delivered as a fully self-contained software appliance system with a modular, agent based architecture. It is a hardened, self-contained system that can be installed on a standard Intel or AMD server or on a virtual server.
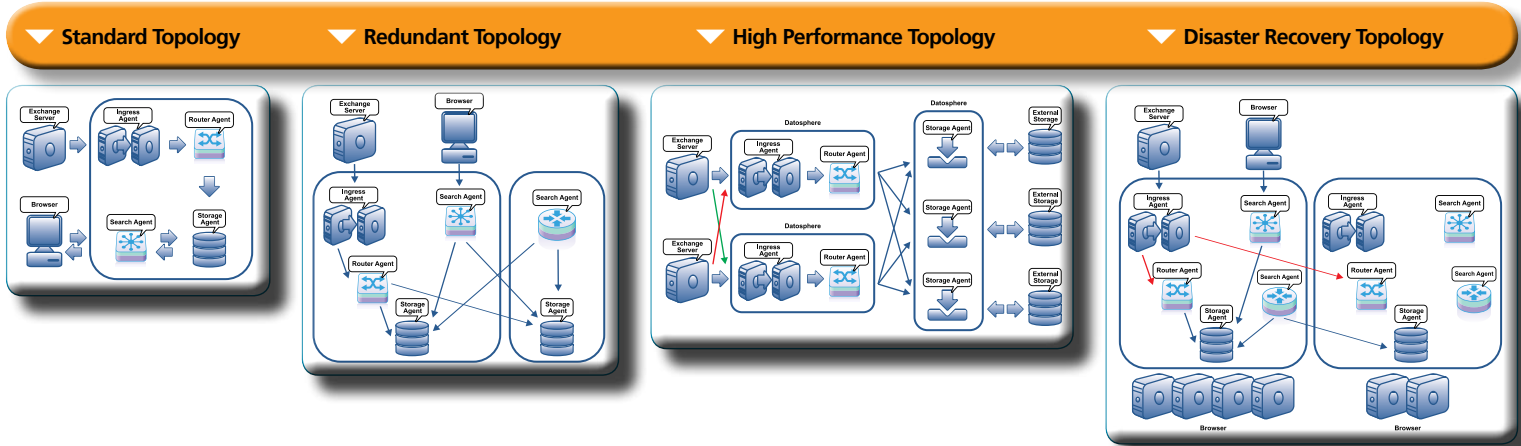
Support for virtualization

Datosphere can be implemented in a virtual environment without any specific changes or special configurations. The ability to combine physical servers and virtual machines allows even the smallest of companies the ability to implement redundancy.

Deployment Topologies

Datosphere's core architecture includes four baseline integrated topologies that can be implemented on their own or in any combination to best fit a client's needs and requirements.

▸ **Datosphere topologies can be combined to best fit your requierements**

▼ Standard Topology	▼ Redundant Topology	▼ High Performance Topology	▼ Disaster Recovery Topology

Common Sense TCO

Vendor supplied ROI formulas or cost savings projections make calculating total cost of ownership (TCO) complicated at best. These calculations even if they are validated by third parties, apply to specific conditions and circumstances. When comparing solutions it becomes even more difficult as features and functionality often blur together.

The TCO calculations that really count are those that can logically be based on common sense assumptions. Does it pass the common sense smell test? Solutions that do what they are supposed to do and require less time, money, resources and effort that need to be expended, have lower levels of TCO.

Easier to evaluate, install, manage and maintain

Datosphere is the only enterprise class content archiving solution available for evaluation download. It removes much of the traditional complexity as it requires far fewer prerequisites and external system changes; no third party software downloads and places little to no burden or dependence upon other IT systems groups within the organization.

Fewer external dependencies and prerequisites

It does not require changes to the current infrastructure nor are there long lists of components to download and no need for new skill sets. It does not have the external 3rd party dependencies and numbers of systems to manage and maintain of other products and as result can significantly reduces the overall overhead and the points of failure in comparison to other solutions.

Integrated Redundancies & Disaster Recovery

Redundancy no longer needs to be a nice to have option nor does it require third party clustering applications. Datosphere is designed with integrated redundancies and can be configured quickly and easily in all multi-node environments.

Datosphere provides significant advantages, without the crippling complexities commonly associated with other products. It does what it's supposed to and is built to minimize the IT workload and allows an organization to maximize the value of its investment and lower the total cost of ownership.

Datosphere Functionality

The challenges of ESI are compounding and product functionality can only truly be leveraged if it is based on a solid foundation. While many vendors provide substantially similar feature sets to Datosphere on paper, Datosphere's foundation and core architecture is the critical differentiator.

Datosphere's functionality falls into five functional areas, content archiving, EDiscovery, storage management, business continuity and compliance. Its foundation ensures the scalability, availability and performance of the functionality.
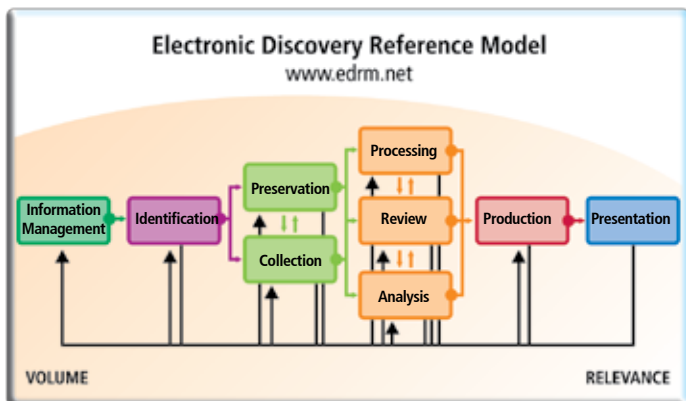
Content Archiving

The explosion in the volume of ESI has placed serious burdens on email servers, files servers, portals and other application servers in terms of performance and systems management. Datosphere is a robust content archiving platform built on a data neutral engine with powerful and optimized search and index technology. It can take the immediate burden off email servers, file servers, portals and other application servers by moving ESI from primary storage to less expensive secondary storage.

Datosphere manages the volume of ESI by automatically and consistently capturing, archiving, securing, and retaining it in a seamless and effective manner. It is substantially less complex and typically operational in a fraction of the time than records management, enterprise content management systems and other content archiving solutions. Datosphere's content archiving decreases the IT workload, use fewer resources and is as a major step forward for an organization to get back in control of its ESI.

Datosphere supports the following platforms:

- MS-Exchange 2000,2003 & 2007 Email Archiving
- SMTP (Q2 2009)
- IM (Q2 2009)

- File System Archiving (2009)
- MS-SharePoint 2007 (2009)

Electronic Discovery Reference Model
www.edrm.net

EDiscovery

EDiscovery is now a reality for all organizations. There is no such thing anymore as a lawsuit or internal investigation that doesn't involve at least some EDiscovery. ESI contains contractual, financial, operational and human resource information and can expose all organizations, regardless of size to legal or regulatory compliance risk. However, ESI is no longer considered to be just email and as such, other content sources such as files, instant messages, text messages, voicemail, portals, and other emerging applications will need to be discoverable.

Knowing what ESI you have, where it's located, who can access to it and how to search against it quickly & efficiently can significantly reduce the time, cost and effort required to respond to a legal discovery requests or internal investigations.

Datosphere's integrated EDiscovery functionality is based on the Electronic Discovery Reference Model (EDRM). It can facilitate effective and rapid internal investigations, pro-active litigation readiness and rapid response to legal discovery requests. Datosphere's modern architecture is highly optimized to leverage the entirely of its integrated EDiscovery feature set. Datosphere can significantly reduce the time, cost and effort required to respond to a legal discovery requests or internal investigations.

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Storage Management

Datosphere can help organizations to optimize their application servers by offloading storage to lower cost secondary storage without impacting user productivity. This takes the immediate burden off email servers, file servers, portals and other application servers allowing them to run at peak efficiency reduce downtime and the chance of failure

Storage Flexibility

Datosphere's open storage layer that currently supports a wide range of industry standard storage protocols and storage scenarios such as redundant storage, federated storage and cloud and cluster storage.

Flexible archiving policies & powerful stubbing

Archiving policies can eliminate quotas, message size restrictions and control the growth of primary storage. Every organization is unique and needs the flexibility to set policies that fit the specific policy and compliance needs of their organization.

Improved Server performance

Datosphere's content archiving functionality can improve system performance and help organizations optimize their servers by reducing the burden as well as the potential for data loss and system downtime.

Business Continuity

World events, natural disasters, extreme weather and manmade disaster such as human error and intervention all contribute to the growing importance organizations are placing on business continuity planning. ESI is the cornerstone of virtually every organization's business operations. The impact of interruptions or failures of IT systems and processes on the integrity and availability of ESI can be devastating in terms of user productivity, damaged reputation and the financial performance.

Business continuity plans are like insurance policies, you don't really need them until you need them. Datosphere can help an organization takes the right steps to protect and secure the availability of their ESI. It provides organizations with a wide range of disaster recovery and business continuity functionality, from specific processes that ensure the integrity of the content to the integrated disaster recovery topologies.

Compliance

The impact of regulatory compliance or internal policies and governance upon ESI is a business reality. ESI exposes all organizations, regardless of size to compliance risk. Whether dictated by industry regulations, government requirements, by company policy, or a combination of factors all organizations must adhere to some level of compliance.

Datosphere can help organizations meet their compliance obligations as they pertain to ESI. It provides the ability to guarantee capture of ESI, ensure it is encrypted and stored in its original format, cannot be modified or deleted, can be retained for a pre-determined amount of time and demonstrate compliance through a fully forensic audit trail.

Organizationally driven methodology

aligns an organization's business, risk and IT objectives

Flexible and audited data retention policies

Datosphere allows organizations to set and enforce message retention policies to meet internal and external compliance requirements

Secure, encrypted, tamper resistant data vault

Datosphere's secure, encrypted, tamper resistant archive ensures discovery is legally valid & admissible.

Built-in Forensic security model

Demonstrate compliance through a comprehensive audit trail of action on the archives, searches and the system.

Download & evaluate Datosphere today!

As you look to address the challenges of ESI and look to the horizon, one thing is very clear, ESI is not going away and avoiding the challenges will only complicate things down the road. The stakes are much too high to make the wrong technology choice. Datosphere can serve as the foundation of your strategy to address the challenges of ESI. It is the next generation integrated content archiving platform built to solidly address the ESI problems of today and tomorrow.

www.nayatek.com/Download/evalprod

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