

An affordable and secure archiving and information retention solution for small and medium businesses



IBM System Storage DR550 Express



Data kept for extended periods of time poses a challenge for many organizations. Business data that is deemed worth saving and protecting is known as retention-managed data and needs to be retained and protected over a period of time and then properly disposed of. Retention managed data is often stored in various archives and repositories in an unstructured way. As organizations examine their data, retention needs to address corporate governance and federal and local regulations, and they must keep necessary documents and records to ensure they're accessible and available when needed. Overall, the management and control of retention-managed data can be a significant challenge when taking into account other factors such as cost, latency, bandwidth, integration, security, privacy and life expectancy.

Highlights

- *Designed as a secure, scalable, affordable and high performing archiving and retention solution*
- *Designed to help store, retrieve, manage, share and retain regulated and non-regulated data*
- *Advanced security and data protection options such as encryption, authentication and policy enforcement are standard*
- *Provides the same retention management capabilities as the enterprise version IBM System Storage™ DR550*
- *Designed to leverage multiple storage tiers (disk, tape and optical) to provide lower TCO*
- *Designed to support file archiving through the IBM System Storage Archive Manager API or through network file protocols with the new optional DR550 File System Gateway*
- *Provides disk overwrite shredding of sensitive data automatically or manually*

The IBM System Storage DR550 Express is designed to help smaller businesses address the growing challenge of managing and securing retention managed data and other critical information assets with operational efficiency.

Providing advanced storage management capabilities

Well suited for archiving e-mail, digital images, database applications, instant messages, business transactions, contracts, insurance claims and other types of storage records, the DR550 Express is the optimum data archiving and retention solution for small and midsize businesses. The DR550 Express's policy-based archive data retention capabilities support non-erasable, non-rewritable object storage and help address the needs of industries and businesses with long-term data retention and protection requirements.

Data encryption for enhanced security

Enabling companies to protect their data when transmitted over network or saved to disk, or to tape, encryption of data can help provide enhanced security for businesses via 128 bit AES or 56 bit DES encryption technology.

Encryption options allow the DR550 Express to manage encryption keys (key management) transparent to the application or allow an application to manage encryption keys externally to the DR550. The DR550 also supports the new tape encryption capabilities offered with the IBM System Storage TS1120 tape drive. The new encryption on the TS1120 tape drive is designed to allow for encryption within the drive and encryption key management independent of the application.

For additional security, IBM System Storage Archive Manager (SSAM) offers shredding of sensitive data. After client data has been deleted, it might still be possible to recover it. For sensitive data, this condition is a potential security exposure. The destruction of deleted data, also known as *shredding*, is the explicit overwrite of deleted data to make it difficult to discover or reconstruct that data later.

Advanced data-retention features

The DR550 Express is designed to provide a number of advanced capabilities, including:

- *Ability to manage data that has no explicit retention period, such as employee (as long as employed) and customer (as long as account is open) data, through an event-based records management feature. It is also an attractive feature for data records that have a specific retention period that can be terminated early (for example, mortgages, or financial time deposits that can be paid off or paid on early) or for those documents that have no specific retention period (for example, insurance policies). It can help protect these records from deletion until a specific event occurs*
- *Enable data management on multiple tiers of storage (disk, tape, optical) using a tiered storage management feature to provide a more cost-effective solution. DR550 Express uniquely integrates archiving with storage migration capabilities to help allow customers to leverage multiple storage tiers within DR550 archive based on operational characteristics of access frequency, performance and data life.*

- *Allow a designated retention date to be suspended through a deletion hold management feature in the event that a record or set of records needs to be retained for legal, audit or other reasons*
- *Help protect data by preventing explicit, irretrievable data deletion before retention criteria expiration*
- *Enforce data protection policies that maintain the data in non-erasable and non-rewritable formats*
- *Archive files using standard NFS or CIFS file system protocol or via the System Storage Archive Manager. SSAM Client permits users to automatically archive files from their workstations or file servers to data retention protected storage and to easily retrieve archived copies of files to their local workstations or file servers. The new IBM System Storage DR550 File System Gateway provides for native file based archiving with IBM DR550 Express.*
- *Secure information through data encryption techniques.*

Disaster recovery protection

IBM's System Storage DR550 Express solution can also help protect customer data during disasters. The DR550

Express solution provides native support allowing businesses to use tape libraries with advanced LTO Gen 3 tape drives with WORM capabilities to provide efficient and cost effective replication of data objects. The DR550 Express database supports recovery in the event of a failure or the need to relocate to an alternate facility.

Delivered as an integrated solution

The IBM System Storage DR550 Express is a comprehensive, preconfigured offering designed to help businesses store, retrieve, manage, share and protect regulated and non-regulated data. It offers archival and retention capabilities to help organizations address growing retention of management data, whether driven by increasing regulations or evolving business requirements. This integrated offering can be further protected within an optional 25U rack with lockable front and rear doors for added security.

Ordered, delivered, and installed as an integrated solution, DR550 Express provides upgrade options for connectivity and storage capacity, helping to manage 1.1 TB of physical disk storage capacity, upgradeable to 5.1 TB or 9.1 TB. It also supports external

storage devices such as optical or tape systems for expansion to hundreds of TB in storage capacity. Because tape is much lower cost than disk storage, it is well suited for long-term retention of large quantities of archive information. The DR550 uses policies to manage information across both disk and tape systems, which enables it to help deliver exceptionally low overall cost of ownership while also delivering outstanding performance.

Offering high reliability, scalability and performance

Operating in conjunction with an enterprise content-management application¹, the DR550 Express solution is designed to offer a single interface to manage storage allocation and address application demands. The DR550 Express helps bring high reliability, scalability and performance features to open-systems and mainframe environments. It also features redundant hardware elements, automatic data retention capabilities, and SNMP monitoring enhancements for proactive system problem prevention and correction.

Technology for an on demand era

In an era in which businesses are integrating processes across the enterprise, the DR550 Express is designed

to help companies become on demand businesses, responding with flexibility and speed to customer demands, market opportunities or competitive threats. The DR550 Express's integration, support of open standards and automatic data retention capabilities can help companies become better positioned to meet the on demand requirements of storing, retrieving, managing, sharing and securing retention-managed data.

Optional IBM Global Services

At the intersection of technology and business, Business Consulting Services (BCS) from IBM Global Business Services can assist clients in developing and implementing strategies for storing, retrieving, managing, sharing and securing retention managed content data on demand. These strategies can help companies address critical issues such as financial and regulatory reporting and compliance.

At the same time, IBM Global Technical Services can help clients take a broad-based approach to managing data through enterprise-wide performance management and business intelligence services in a way that supports the basic building blocks of planning, managing and optimizing the business. These solutions can be designed to link

performance measures with strategy and cascade these measures and analysis throughout the organization in a timely, cost-effective manner providing useful, relevant information throughout the enterprise.

Other optional services available include:

- *IBM “carefree” services bundle includes onsite software/firmware upgrades and three year warranty repair and maintenance for IBM System Storage DR550 Express and DR550 File System Gateway (24x7, four hour response). This bundle provides:*
 - *Three year warranty maintenance service for all DR550 components, including IBM onsite repair (three year warranty maintenance services are also available as a separate offering).*
 - *Onsite software/firmware upgrades for up to two onsite visits per year, including firmware and software component upgrades and patches to provide proactive maintenance and ensure DR550 system currency.*

- *IBM Implementation Services offering for the IBM System Storage DR550 Express and DR550 File System Gateway can help provide assistance in planning, installing, and configuring new System Storage data retention equipment or capacity upgrades.*
- *IBM MES services that provide options or upgrades for existing installations.*

Also available is a separate Service Suite three year maintenance upgrade for the IBM Systems Storage DR550 Express. This upgrade is recommended as it enables the customer to upgrade to a common (24x7, four hour response) warranty and maintenance period for all hardware and software components of the DR550 Express.

For more information

Contact your IBM representative or IBM Business Partner or visit:

- ibm.com/eserver/express
- ibm.com/servers/storage/disk/dr/express/index.html

IBM System Storage DR550 Express at a glance

Servers

- Single server configuration
- Based on IBM System p™ POWER5+™ platform
 - Ethernet connections
 - Flat panel monitor
- 25U Optional Rack with lockable front and rear doors
- IBM System Storage DR550 File System Gateway Hardware (optional)
 - Single or clustered node configuration
 - Based on IBM System x™ running SUSE Linux®

Software

- IBM System Storage Archive Manager, Version 5.4
- IBM AIX®, Version 5.3
- IBM System Storage DR550 File System Gateway Software (optional)

RAID

RAID level 5

Capacity

- 1.1 TB raw disk storage, 509 GB usable disk storage
 - Upgrade capacity is available to 5.1 TB or 9.1 TB (raw physical capacity) via SATA expansion modules
-



© Copyright IBM Corporation 2007

IBM Systems and Technology Group
Route 100
Somers, NY 10589

Printed in the United States

April 2007

All rights reserved

IBM, the IBM logo DB2, eServer, AIX, Express Portfolio, POWER5, POWER5+, System p, System Storage and System x are trademarks of International Business Machines Corporation in the United States, other countries or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries or both.

Other company, product and service names may be trademarks or service marks of other companies.

This document could include technical inaccuracies or typographical errors. IBM may make changes, improvements or alterations to the products, programs and services described in this document, including termination of such products, programs and services, at any time and without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. The information contained in this document is current as of the initial date of publication only and is subject to change without notice. IBM shall have no responsibility to update such information.

IBM is not responsible for the performance or interoperability of any non-IBM products discussed herein. Performance data for IBM and non-IBM products and services contained in this document was derived under specific operating and environmental conditions. The actual results obtained by any party implementing such products or services will depend on a large number of factors specific to such party's operating environment and may vary significantly. IBM makes no representation that these results can be expected or obtained in any implementation of any such products or services.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY, EITHER EXPRESSED OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements (e.g., IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided.

References in this document to IBM products, programs or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM program or product in this document is not intended to state or imply that only that program may be used. Any functionally equivalent program or product that does not infringe IBM's intellectual property rights may be used instead. It is the user's responsibility to evaluate and verify the operation of any non-IBM product, program or service.

IBM's customer is responsible for ensuring its own compliance with legal requirements. It is the customer's sole responsibility to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may need to take to comply with such laws. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the customer is in compliance with any law.

¹ Please refer to our DR550 Interoperability Matrix at ibm.com/servers/storage/disk/dr/interop.html for up-to-date interoperability listings.