

IBM archiving and data management solution for SAP



Information Lifecycle Management (ILM) is important for SAP businesses that use policies, processes, practices, and tools to cost-effectively align the business value of information with their SAP IT infrastructure, as well as to meet compliance needs. The IBM System Storage™ Archive solution for SAP aligns your SAP information with business processes through management of retention policies and service levels to help ensure your data is available, accessible, compliant and protected.

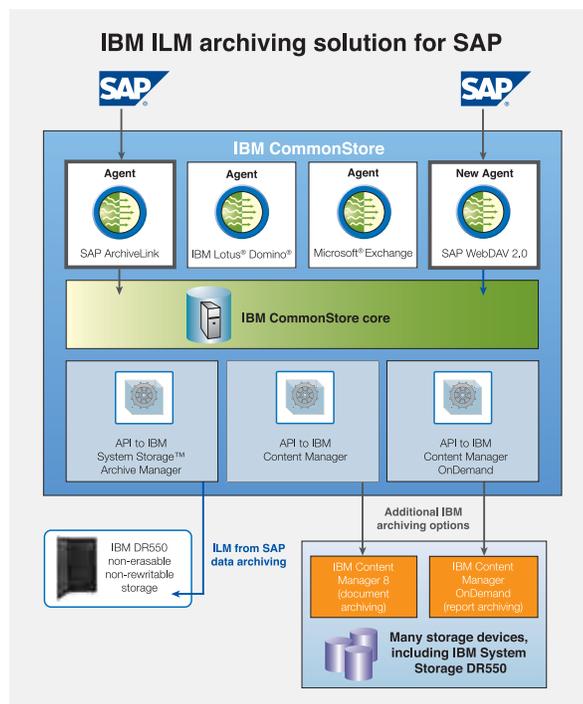
Highlights

- *Provide quick, easy access to integrated archives of SAP and non-SAP business content—documents and data*
- *Improve system performance by offloading inactive data from SAP production databases*
- *Protect offloaded data within a secure storage disk or tape system*
- *SAP-certified offering enables seamless coordination of data retention policies between SAP databases and the protected storage system*

Data retention and management are essential functions of Information Lifecycle Management. Effective implementation of these ILM functions helps you improve SAP IT production performance, improve TCO, improve legal compliance and mitigate your IT risks. SAP has recognized these needs by creating its new product “ILM from SAP” as part of the SAP NetWeaver stack. With ILM from SAP, data

retention management starts at the moment a data management class is assigned to a newly created data object. The assigned management class applies SAP policy information, like business and regulatory rules, to the data object throughout its lifecycle, from creation through expiration to deletion.

SAP's Information Retention Manager (IRM), a key component of ILM from SAP, is the central tool for setting up and managing retention policies and uses the SAP WebDAV Storage Interface as an open-standard interface based on HTML. The WebDAV (Web-based Distributed Authoring and Versioning) interface allows clients to perform remote Web content authoring operations such as creating a framework and set of retention rules, along with enforcing those rules for both structured and unstructured SAP data. Maximizing and sustaining ILM efficiency involves leveraging storage tiers to support information classes and service levels. **The IBM archiving solution for SAP** includes the award-winning **IBM System Storage DR550**, together with **IBM CommonStore for SAP**, and enables alignment of SAP information business value with the most appropriate and cost-effective IT infrastructure.



IBM System Storage DR550

The IBM System Storage DR550 uniquely stores the data as protected objects, and not as files, into the data management layer using DR550 IBM System Storage Archive Manager software. Competitor tools that write the data as a file with file and path names to a NFS or CIFS device, and not as an object, limit the storage type to only disk or optical media. As a result, more frequent competitor data migrations are disruptive to SAP production operations and do not utilize cost-efficient tape storage in their solutions. The IBM solution helps pay for

itself quickly during long archiving periods, as data that usually outlives disk or optical media can use IBM longer-lasting tape storage capabilities.

The IBM System Storage DR550 is an award-winning, industry-proven information retention solution. It is designed to help businesses meet the growing challenge of managing and protecting business information for long periods while providing operational efficiency. DR550 can scale up to 224 TB of physical disk storage and to petabytes with attached tape systems

DR550 is designed to provide:

- **Lower TCO with flexible storage tiering.** *It is costly to keep all archived data in more expensive nearline storage throughout its retention period. DR550 offers the capability to support and manage cost-effective tiers of storage (disk, tape and optical).*
- **Migration.** *DR550 is designed to support data migration capabilities to move data from disk to tape and between infrastructure upgrades without disruption while maintaining data immutability. Migrations can be automated or scheduled for off hours and can be performed by the customer or as a service.*
- **Chronological and event-based data retention.** *DR550 uses customer and regulatory-defined policies to manage information and retention and is designed to prevent data deletion before the retention criteria are satisfied.*
- **Non-erasable, non-rewriteable archival storage.** *DR550 offers non-rewritable, non-erasable storage controls to prevent deletion or alteration of data stored on the system until deletion is permitted by retention policy.*
- **Security and protection through data encryption and data shredding options.** *DR550 provides data encryption options (128 bit AES or 56 bit DES technology) to help companies protect their data when transmitted over the network or saved to disk or tape. Data is encrypted prior to transmission and remains encrypted in the DR550, including backup copies. After the data has expired according to defined corporate or regulatory policy, the deleted data can be destroyed via an optional shredding feature. Shredding is designed to explicitly overwrite the deleted data to make it impossible to discover or reconstruct that data later.*
- **Integrated backup.** *DR550 has built-in free backup functions that allow for backing up the entire DR550 to an external tape system.*
- **Interoperability.** *In addition to IBM CommonStore, IBM Content Manager, IBM FileNet® Image Services, IBM Optim™ (formerly Princeton Softech) and other IBM software offerings, over 30 third-party vendors (ISV) are certified users of the IBM DR550 for archiving and data retention. These include Hummingbird, OpenText, Autonomy (Zantaz) and SAPERION and many more. Additionally, DR550 is interoperable with NFS and CIFS, allowing more vendors to create archiving solutions leveraging standard file system support.*
- *For more information on interoperability: <http://www-03.ibm.com/systems/storage/disk/dr/interop.html>*

IBM CommonStore for SAP (CSSAP)

A new version of the IBM SAP archiving solution component, IBM CommonStore for SAP, Version 8.4, delivers archiving that goes beyond simply trimming the size of SAP databases. Building on SAP's previous

ArchiveLink API functionality associated with SAP's R/3 releases, and leveraging the new SAP WebDAV Storage Interface, CSSAP v8.4 enables SAP-directed and storage-enforced retention periods and legal holds to be placed on SAP transaction data archived directly to the IBM DR550 via its System Storage Archive Manager interface. This new ILM retention management capability also provides critical support for eDiscovery operations in the event of a legal challenge.

Beyond basic data archiving, CommonStore for SAP software provides document management capabilities, so you can manage a wide range of SAP-related information. By linking archived documents to SAP business objects, CommonStore for SAP software is designed to make business documents—from purchase orders to supplier statistics to inventory reports—available to authorized users anywhere on your network. So multiple users can have secure, parallel access to documents, and authorized users can have access to documents without the delay caused by paper-based archive inquiries.

IBM CommonStore for SAP delivers:

- **Integration.** *IBM fully supports SAP's new "ILM from SAP" (BC-ILM 2.0) specification made possible by IBM's support for SAP's WebDAV Storage Interface. These features enable you to place SAP-directed, IBM orchestrated retention periods and legal holds on archived SAP transaction data, and help you better meet your compliance needs.*
- **Fully integrated with IBM Content Manager suite (optional).** *Enables you to manage SAP content along with other content types, presenting all related information from e-mails, images and faxes to SAP and non-SAP users and applications, and also leveraging content from within SAP Workflow.*
- **External access to SAP documents.** *The CSSAP Index Transfer feature enables users to find and retrieve archived SAP system documents without a SAP GUI client.*
- **Bulk archiving for printed documents.** *IBM CommonStore can archive electronic copies of your printouts and link the archived documents to the corresponding SAP business objects. This linkage ensures that your documents are archived in the same format as you sent them and that you can still access them from SAP.*

By integrating SAP and non-SAP business content into a single archive, the IBM archiving solution for SAP helps improve your organization's efficiency. Production performance increases because data you access infrequently is effectively archived.

Your information is securely protected and accessible when needed, independent of application, helping you to comply with company and regulatory policies and rules while enabling you to respond quickly to the demands of your employees, customers, partners and suppliers.

Additionally, the IBM archiving solution for SAP can be easily extended for e-mail archiving, as IBM CommonStore and IBM DR550 support Lotus® Domino® as well as Microsoft® Exchange. For more information on the IBM archiving solution for e-mail please visit: <http://www-01.ibm.com/software/data/commonstore/> and <ftp://ftp.software.ibm.com/software/data/cmgr/pdf/cs Lotus82.pdf>.

Feature	Benefit
Offload inactive data from the production SAP database	<ul style="list-style-type: none"> Improves the performance of SAP applications. Large amounts of data need large amounts of server capacity. Unchanged server capacity leads to a decreased application performance when data volume grows. Reduces hardware and IT infrastructure costs. To fight loss of performance, SAP servers have to be equipped with higher hardware capacity (especially memory and CPU). Also, faster disk storage systems have to grant faster data access. More disk capacity is needed, not only for the production environment but also for the testing environment which often is a mirror of the production system. Reduces the risk of system failure. Restoring a very large SAP system generally takes more time than restoring a smaller one. Potential downtime generally grows in parallel to the amount of data. Reduced administrative costs. To prevent system downtime a large productive SAP system needs more attention. This increases the need for additional administrative precautions to lower downtime risk and downtime duration.
Data encryption	<ul style="list-style-type: none"> Data is stored in encrypted format, helping ensure protected data cannot be read from a stolen storage medium.
Secure erase of expired data	<ul style="list-style-type: none"> Some data, like personal records, needs to be erased completely as it expires. IBM's data retention solution erases expired data securely.
Tiered Storage Management	<ul style="list-style-type: none"> Stored data can be migrated from one kind of storage device to any other kind of storage device, fully transparent to the applications that have stored the data. End of life of the storage device types can easily be managed during migration of the data to new devices. TCO can be reduced by storing long-term archiving data to off-line media such as encrypted tape libraries.
OpenAPI Interface	<ul style="list-style-type: none"> IBM's Data Retention and Archiving solution provides an "open," standardized API, delivering platform-independent access.
NFS & CIFS interface	<ul style="list-style-type: none"> In addition to the open API, IBM's Data Retention and Archiving solution provides access to storage via common NFS and CIFS interfaces.
Supported platforms	<ul style="list-style-type: none"> As of 2008 more than 30 content providers are storing their data onto IBM's Archiving solution, including IBM Content Manager, MS Exchange, IBM Domino Notes®, SAP, Princeton Softech Optim, Bycast Inc., CaminoSoft, Ceyoniq, d.velop AG, Easy Software, Enigma Data Systems, FileNet, Hummingbird, Hyland Software (OnBase), Hyperwave, and OpenText.
Disaster Recovery support	<ul style="list-style-type: none"> IBM's Data Retention and Archiving solution (DR550) offers HA and DR capability, through clustering and synchronous or asynchronous mirroring and data replication.



For more information

To learn more about the IBM archiving and data retention management solution for SAP please contact your IBM sales representative or IBM Business Partner, or visit the following Web sites:

- ibm.com/software/data/commonstore/sap/
- ibm.com/systems/storage/disk/dr/index.html
- ibm.com/software/data/content-management/products/content.html

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When referring to storage capacity, 1 TB equals total GB divided by 1,000; accessible capacity may be less.

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