

# Second Generation Archiving - Shining the Light on Dark Data



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## Abstract

### Second Generation Archiving - Shining the Light on Dark Data

Second generation archiving solutions manage content based on value, removing unnecessary data to lower operating costs, storage costs, and improve infrastructure and backup performance.

Join this session to learn how to implement an archiving solution to meet storage cost reduction objectives, and why archiving should be a part of every IT department's core competency.

# Agenda

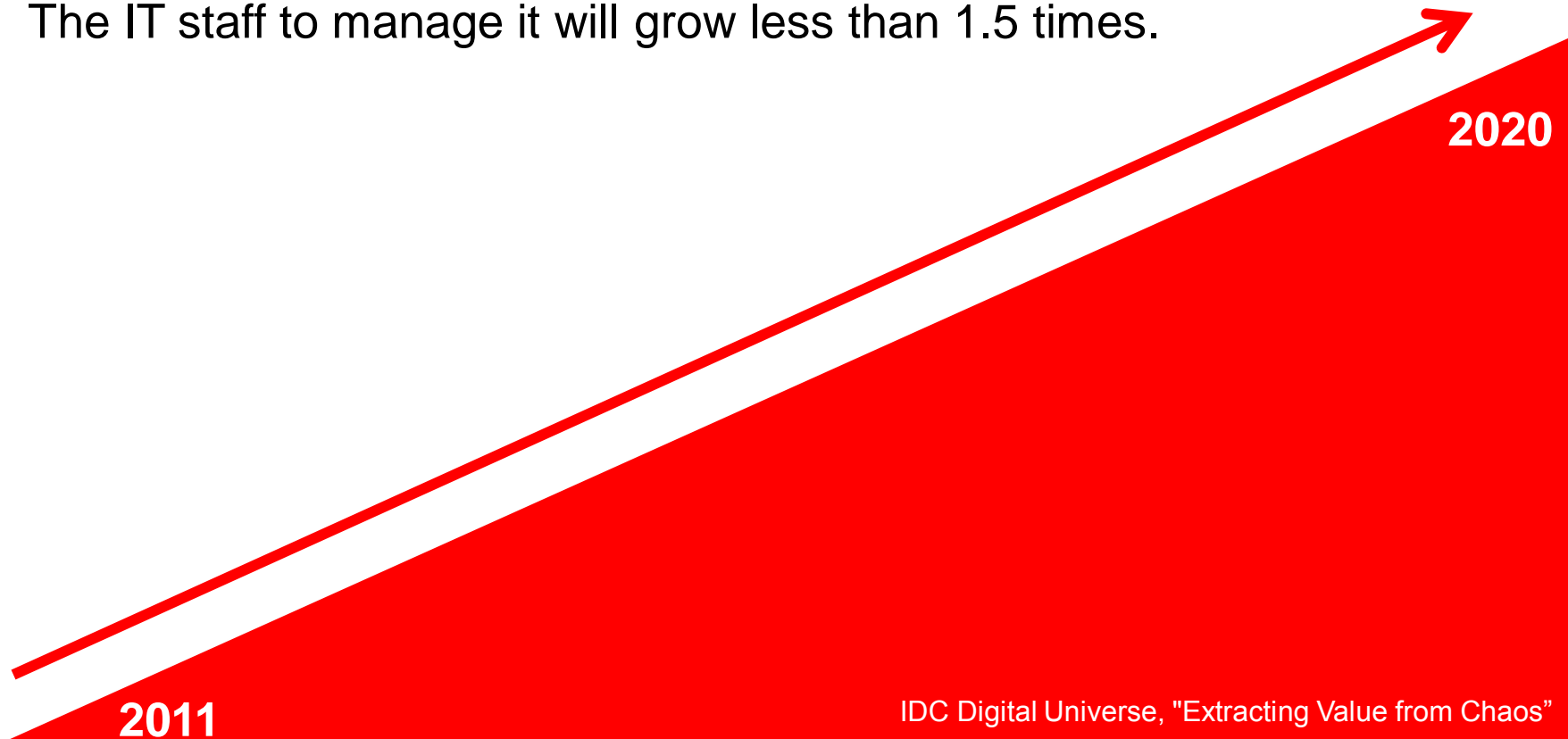
## The true cost of First Generation archiving

- A historical perspective
  - Issues & pain points
- **Case study:** From First Generation email archiving to a lower cost, lower risk approach
  - IBM capabilities to help IT manage information by value

Information volume is doubling every 2 years,  
1.8 zettabytes in 2011.

By 2020 it will be 50 times that amount.

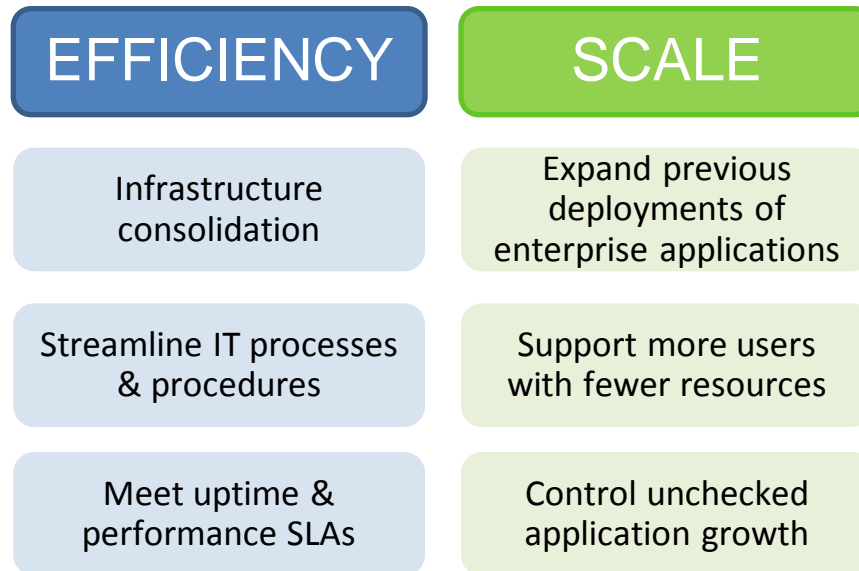
The IT staff to manage it will grow less than 1.5 times.



## A Historical View

Archiving was introduced as means to keep active information produced in applications and enterprise systems *outside* of those systems in order to:

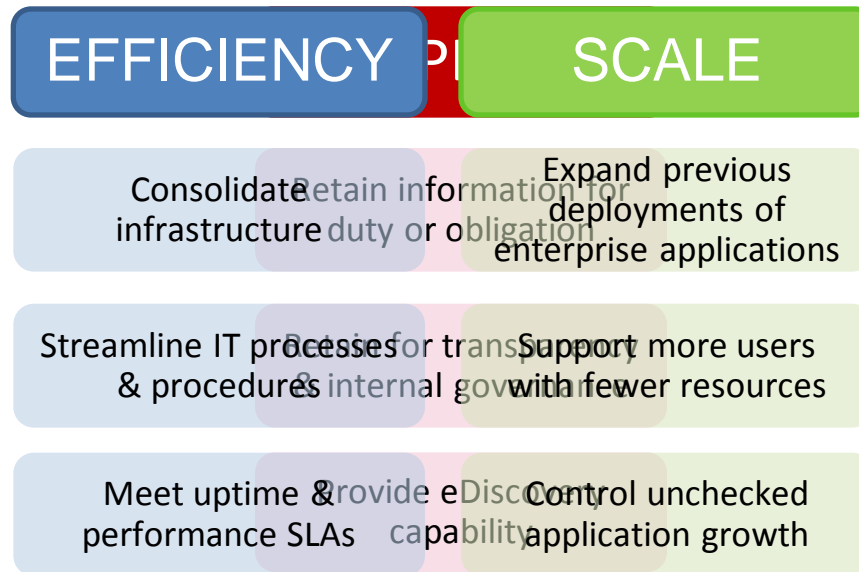
- 1) Lower infrastructure costs and improve operational efficiency which suffers as a result of large data volumes
  - Faster backups on production systems
  - Administration utilities ran more quickly
  - Fewer failures and shorter time to recover from failures
- 2) Allow source systems to scale by removing old information
  - Better performance from existing hardware
  - Longer periods between hardware refresh & application upgrades



## The Third Driver: Compliance

Increasingly, ensuring compliance with regulations became a primary reason for implementing archiving of unstructured data with initial interest mainly from Financial Services.

Archiving provided a way to supervise employee communication with the public (i.e. NASD/FINRA for Broker-Dealers)



## Characteristics of The First Generation Archive

### Archive Islands

Email centric; Difficult to expand to new data sources such as SharePoint, Social **(Impact: IT efficiency; Compliance holes)**

### Keeps Everything

“Straight through Archiving” - All data is archived as if it is of equal importance **(Impact: eDiscovery Cost; Storage & Management; Legal Risk)**

### Keeps Forever

Blanket retention period for all data, often not even turned on **(Impact: Over-retention creates large with additional storage costs, legal risk implications and eDiscovery cost)**

### Limited eDiscovery

eDiscovery searches require IT (or a third party) to execute, adding delays, overhead, and service charges. Data often re-collected (duplication) for use in eDiscovery application. **(Impact: Time, Higher cost including penalties for not meeting deadlines, burdening IT staff, duplication of data)**

### Impact User Productivity

Little or limited email client integration – separate web search interface required **(Impact: End user efficiency)**



# Where and How IT can help remove cost & risk

## 4 Target Cost Compression Areas for Defensible Disposal and ILG Effectiveness

### Where

### How

Infrastructure storing data with no utility

1

**Data that can and should be disposed**

- Application data
- Files and end user docs
- Email
- Back up



DISPOSAL

Analyze existing data in place before archiving;  
Identify what is important;  
Delete the rest.

Storing data at a cost higher than its value

2

**Data that can and should be tiered and archived as its utility wanes or when its cost exceeds its value**

- Aging application data, end user files, and email
- Non-prod instances
- Records and regulatory content with no business need



ARCHIVING

Collect and archive only information with value  
Compress, De-duplicate, migrate through storage tiers as value diminished

Application costs without business value

3

**Applications, infrastructure and data that can be retired**

- Moth balled applications with vague legal requirements
- Cycle time and throughput acceleration
- Consolidation and decom



DISPOSAL

Analyze for abandoned data, applications and accounts;  
reclaim and consolidate hardware, license fees

E-Discovery external vendor spend

4

**External Legal vendor spend that can be reduced, avoided and eliminated**

- Pre-assess data before and after collection
- More precise hold scoping with higher transparency
- Cull and review internally



DISCOVERY

Solving over-retention results in smaller data sets, and lower discovery cost. Legal Self-serve for discovery and hold speeds response, lowers IT involvement

Unstructured Data Archiving

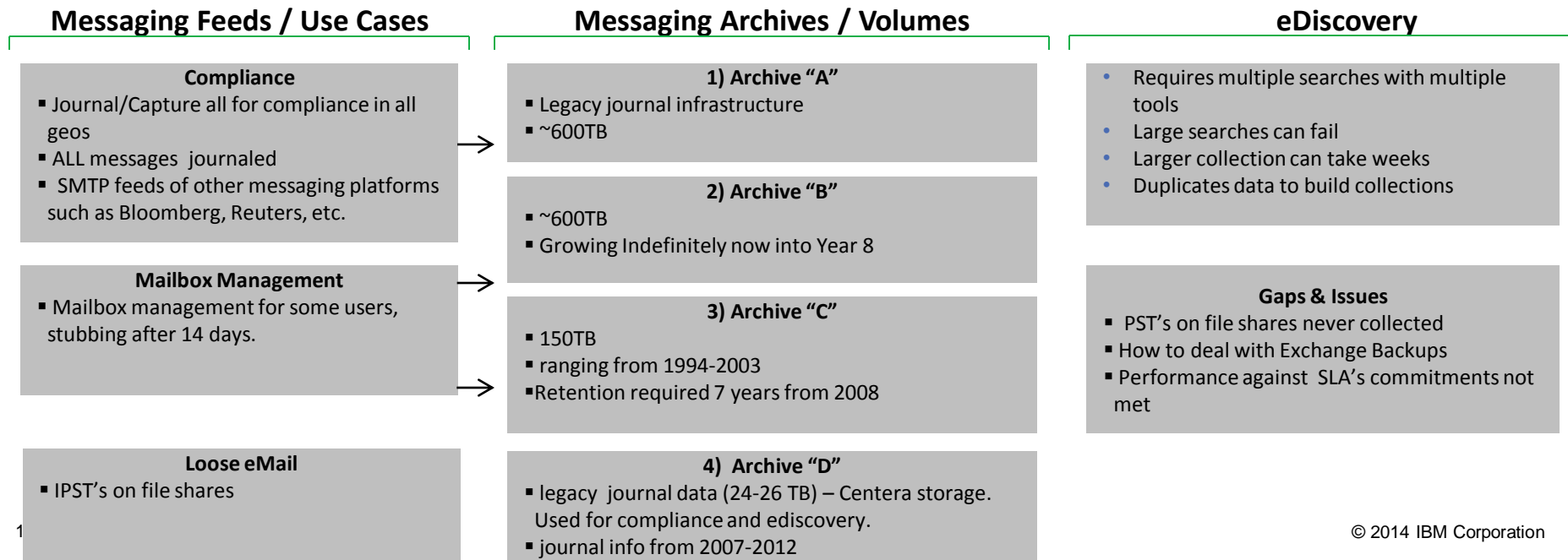
# **CASE STUDY**

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## Stakeholders

	Legal	Records / Compliance	End User
Mode of Operation	<ul style="list-style-type: none"> <li>Hold assumed from <b>100% retention</b>, no holds applied in archive</li> <li>Conduct collections and export only when need arises</li> <li>No Early Case Assessment available for attorneys – maximizes cost and time.</li> </ul>	<ul style="list-style-type: none"> <li>No message based record identification or classification</li> <li>No ability for users to declare records from Messaging System(s)</li> </ul>	<ul style="list-style-type: none"> <li>Attachments moved to 1 Archive after 14 days for some users, however legacy PST's proliferate on workstations</li> </ul>
Impact	<ul style="list-style-type: none"> <li>Collect more messages than required</li> <li>Unable to distinguish which messages are subject to any hold and therefore volume accumulates in perpetuity</li> <li>Backup restores needed</li> </ul>	<ul style="list-style-type: none"> <li>Single retention period, if any, must be applied to all messages</li> <li>Can't apply any disposition to messages because no classification of records and no mechanism for defining business retention (co-mingled)</li> </ul>	<ul style="list-style-type: none"> <li>Local PSTs are unmanaged, exist in multiple places and are expensive to collect</li> <li>User quotas impact business</li> </ul>

## Information Flow



# 3 requirements or gates to govern & dispose of messages in archive

## Stakeholders & Governance Requirements to Dispose

### 1 Legal Holds / eDiscovery

**Legal must be satisfied that messages subject to any existing holds are not disposed and no unique messages can exist in PST's. This entails:**

1. Accurate inventory of all existing holds
2. Apply holds to messages
3. Refine, revise, and apply holds over the course of matter and as new holds come in (continuous and real time)

### 2 Records / Compliance

**Compliance must be satisfied that messages with a regulatory retention obligation are not disposed. This entails:**

1. Routine policy refresh
2. Align information classes to employees and enable automated or semi-automated record classification
3. Extract records from existing archives still requiring retention and execute disposal schedule on both records and archive

### 3 End User Experience

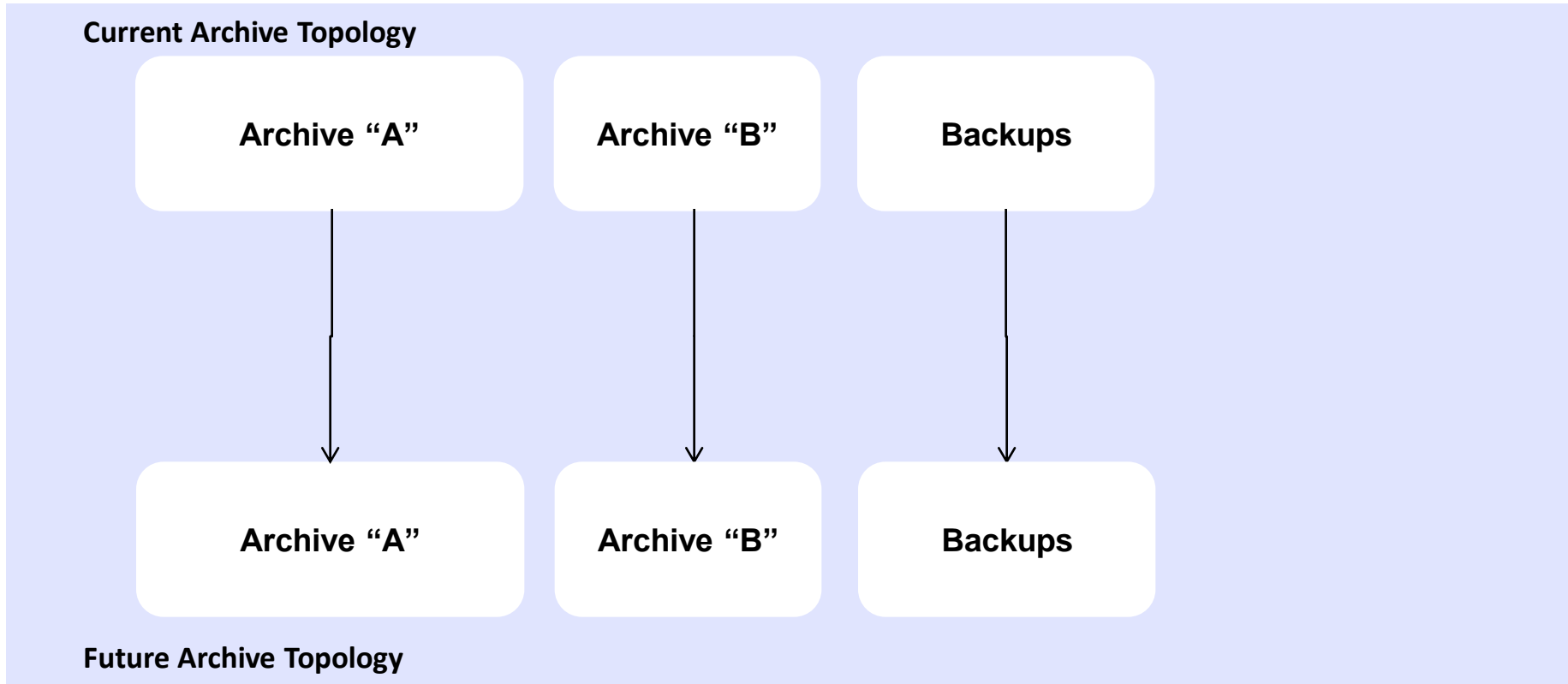
**Business units/users must have acceptable access to messages w/ business value. In addition, no disposed messages can have copies that exist in PST files. This entails:**

1. Optimal user experience with transparent access, ability to search and retrieve archived messages and records
2. Universal rollout across Geographies
3. Provide an easy to use mechanism for business users to declare records and messages required for longer than the policy retention period (i.e. Credit Default Swaps for life of swap plus 5 years)

## 3 Options to Dispose of Messages & Optimize ILG Messaging

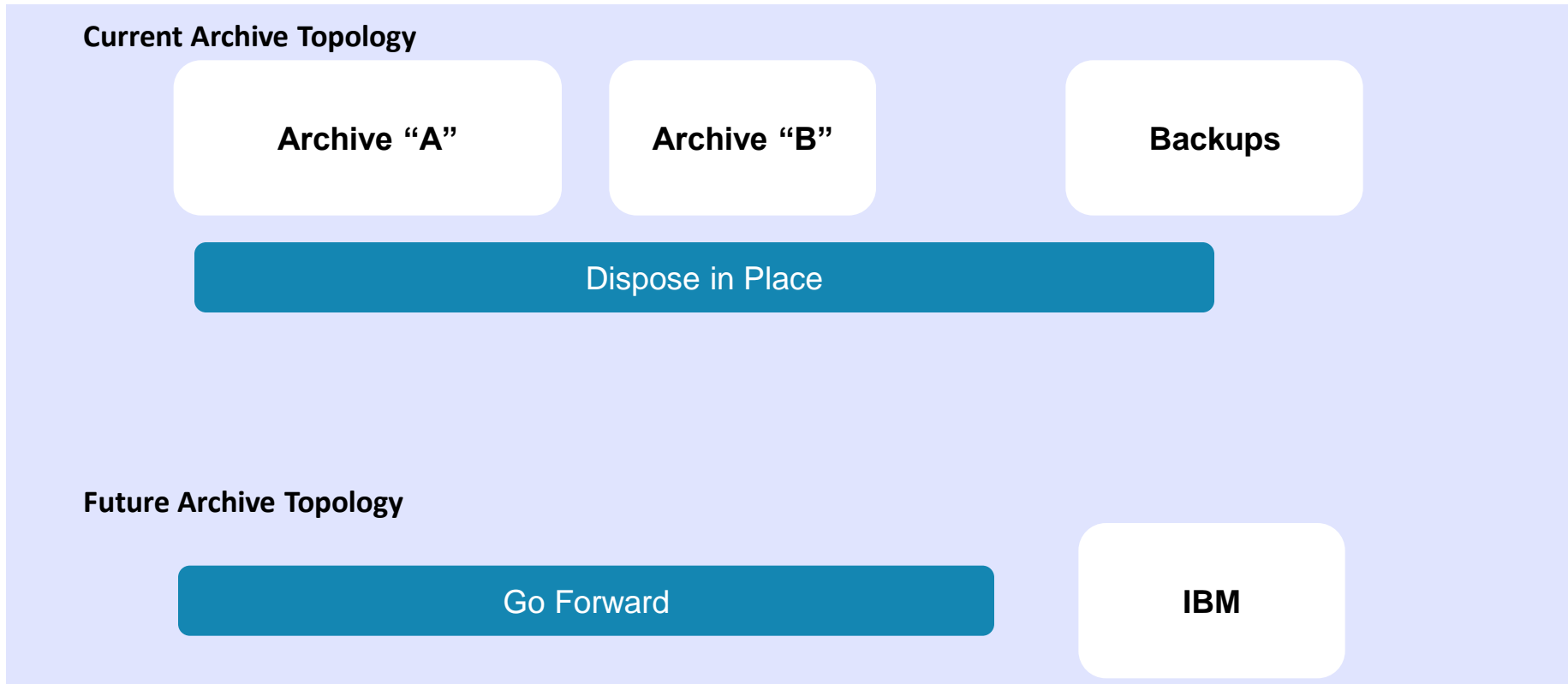
Option	Description	1 <b>Legal:</b> Ensure messages subject to hold are not disposed	2 <b>Compliance:</b> Ensure messages with a regulatory retention obligation are not disposed	3 <b>End User:</b> Business must have acceptable access to messages w/ value and no PST's with unique messages can remain
1) Ad hoc disposal of messages by mapping longest retention & preservation requirement (e.g. 5, 6 or 7 years)	Determine longest retention requirement: (1) Policy Approach: Create a superset of all holds and retention categories to be executed in EV archive (2) Execution Approach: engage EV to classify and protect relevant data, then delete all "else" (3) Manually set policy in Zantaz. (4) Roll all non-archived users into one of the archives	Manually map/refine legal holds to custodian/date range (~6 yrs.): ▪ construct map of all existing holds by custodian and date range ▪ refine map to ensure completeness (higher bar with disposal) through attorney review of holds (query of messages to refine custodians) ▪ create updated official legal holds map of messages in archive	Create a standard retention period for eMail, identify exceptions and extract Refresh policy for The Company's obligations for messages and determine standard retention period (applies to ~90%) - (~6 years) ▪ Likely Exceptions: (1) Time period is longer than standard and (2) Event-based retention exceptions identified and moved ▪ Create updated retention map of messages in archive	Notify business of disposal period, flag exceptions, remove PSTs ▪ Business notified, exceptions flagged – notify disposal range, when exceptions occur over period must create administrative hold in archive ▪ Ensure removal of applicable PSTs from file shares.
2) Automate disposal policy and execution in IBM Content Management Platform on a "go-forward" basis; retain 1, 2 or 3 legacy archives and dispose in annual batches.	Maintain 1,2 or 3 archives but cease ingestion. For new messages, archive in platform capable of automatic hold and retention execution	Automatically set flags for holds in new archive from the syndication enabled legal holds tool. Run searches in archives for messages subject to hold that are longer than retention period about to be applied and store in new archive.	Automatically apply retention policy to IBM Platform including support for event based retention	Incorporate and apply business value period automatically alongside retention policy and legal holds in IBM Platform, ease of access to stubs enables discontinuation/remediation of PST creation or additions going forward
3) Automate disposal policy and execution in governance enabled archive; migrate messages from legacy archives	Automated policy application (holds, retention, business value) directly to data in IBM ECM platform, migrate archives to IBM ECM Platform and apply policy there	Automatically set flags for holds in new archive from the legal holds tool. Migrate existing holds and archives, refine using search in archive	Automatically apply retention policy on all messages including support for event based retention	Incorporate and apply business value period automatically alongside retention policy and legal holds, ease of access to stubs enables discontinuation of PST creation or additions. Engage in PST remediation work stream described below

## Option 1: Apply Retention/Disposition to Archives in-place



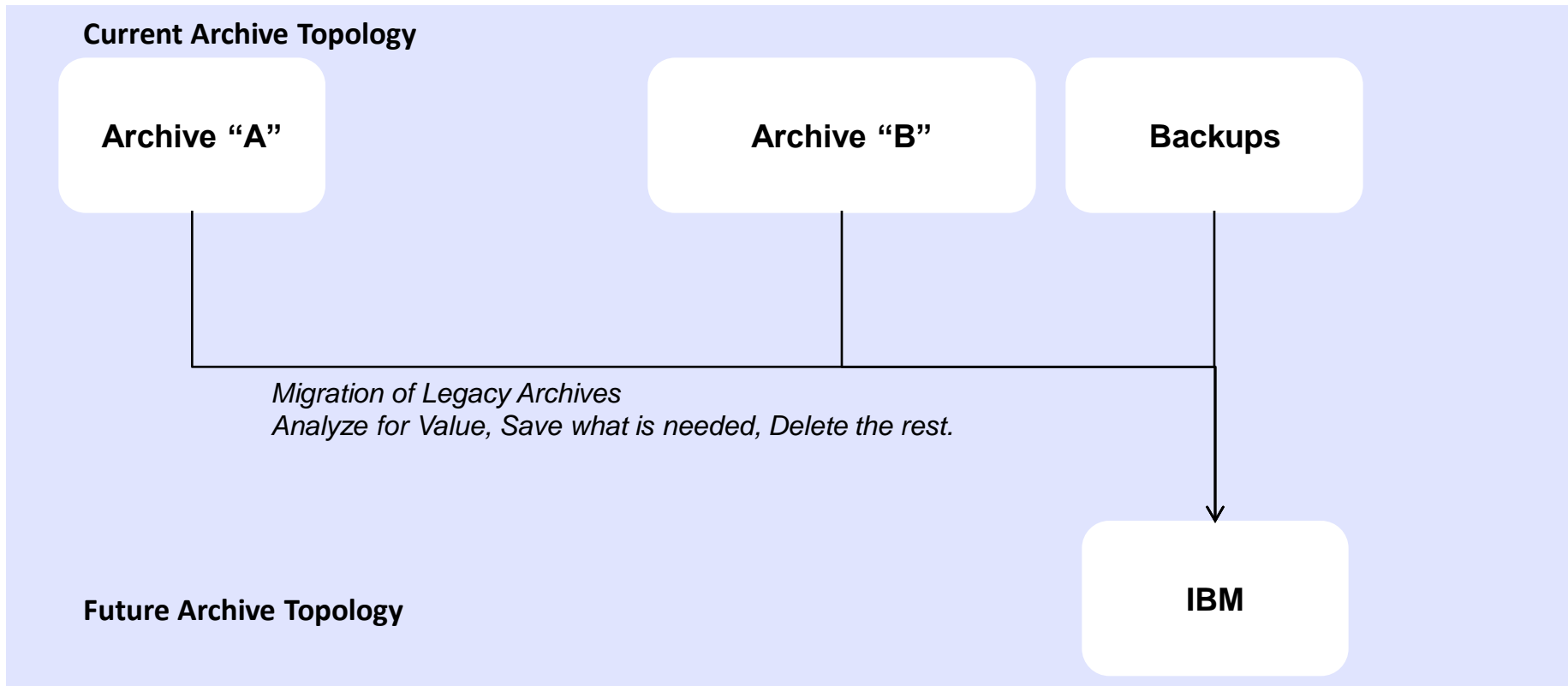
Investment	Savings	Change Required	Risk Reduction
▀	▀	▀	▴

## Option 2: Dispose From Legacy Archives in Place Deploy Governance Aware Archive Going Forward



Investment	Savings	Change Required	Risk Reduction

# Option 3: Deploy Governance Enabled Platform to Apply Policy to eMail & Migrate/Decommission Legacy Archives



Investment	Savings	Change Required	Risk Reduction

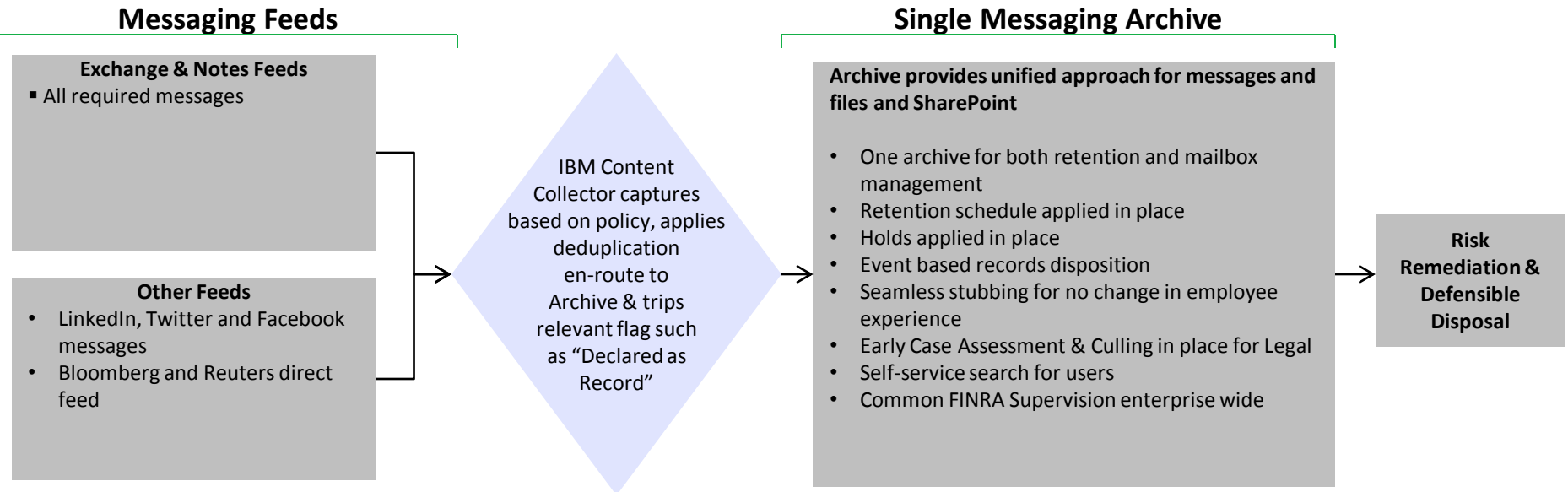


# Optimal Recommendation #3: Governance Aware Platform for New Content, Migrated Messages, Existing PSTs and Backup Tapes

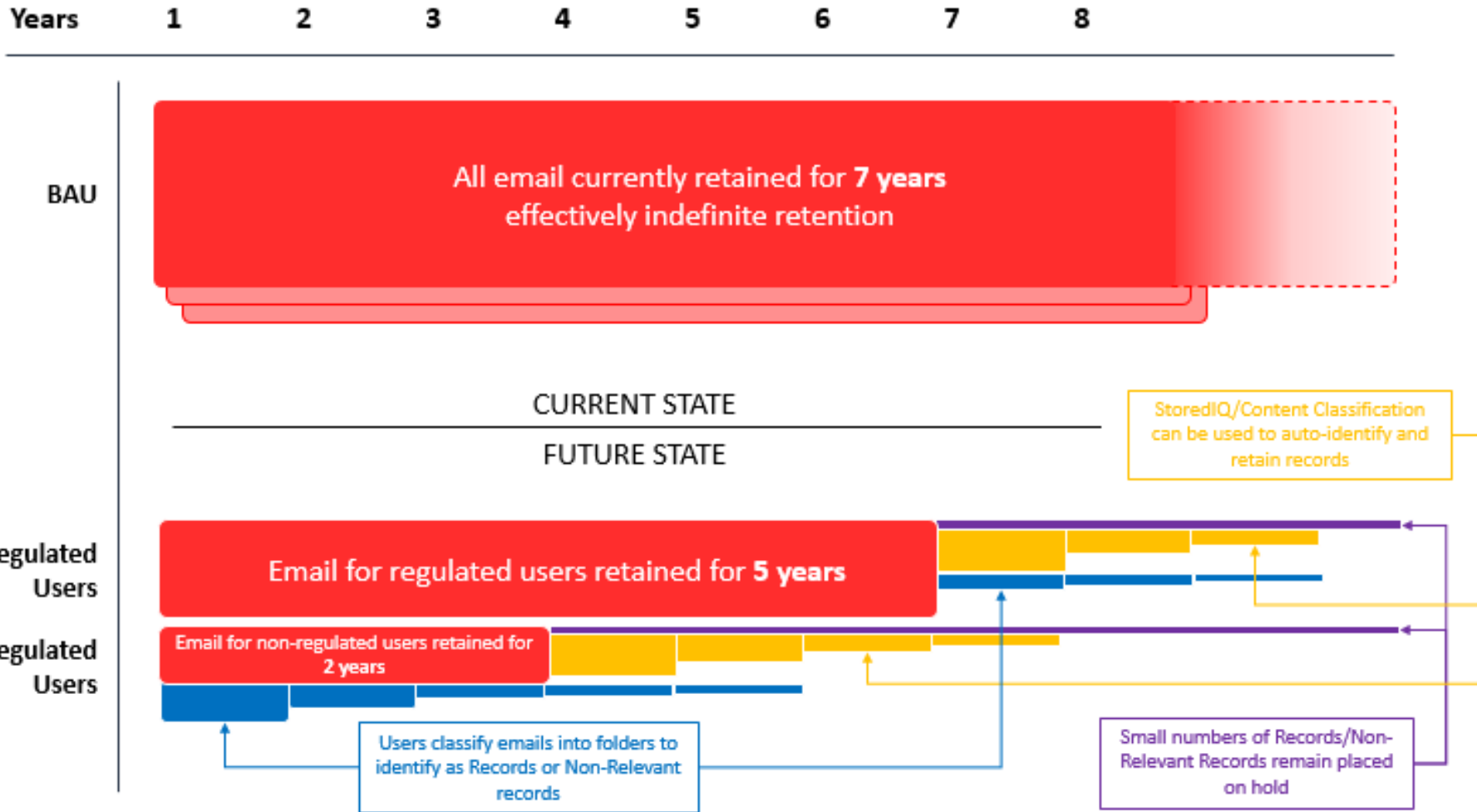
## Stakeholders

	Legal	Records / Compliance	End User
Mode of Operation	<ul style="list-style-type: none"> <li>Legal users define holds which are automatically applied directly to messages</li> <li>Legal users can search, analyze, pre-cull and refine scope of holds in archive – with no IT involvement</li> </ul>	<ul style="list-style-type: none"> <li>Policy automation system employed so record classes can be tied to employees, classification enabled and business value incorporated for disposal execution</li> </ul>	<ul style="list-style-type: none"> <li>Archive is transparent to user, no additional clicks or interfaces.</li> <li>Enjoys an “infinitely” sized mailbox making PST’s obsolete. Easily declares records with a single click or auto declares.</li> </ul>
Impact	<ul style="list-style-type: none"> <li>Messages in archive are automatically flagged as “held” and protected from disposal until all holds are lifted</li> <li>Less data is collected, processes and reviewed, no backup tapes</li> </ul>	<ul style="list-style-type: none"> <li>Retention schedule is a source of truth for disposal and executed in archive</li> <li>Records are routed to record repository for holistic records management</li> </ul>	<ul style="list-style-type: none"> <li>No negative impact on the business users</li> <li>Improves user experience by removing debris, providing search across files and messages</li> </ul>

## Information Flow



# Summary Email Volume Reductions



Capabilities for IT

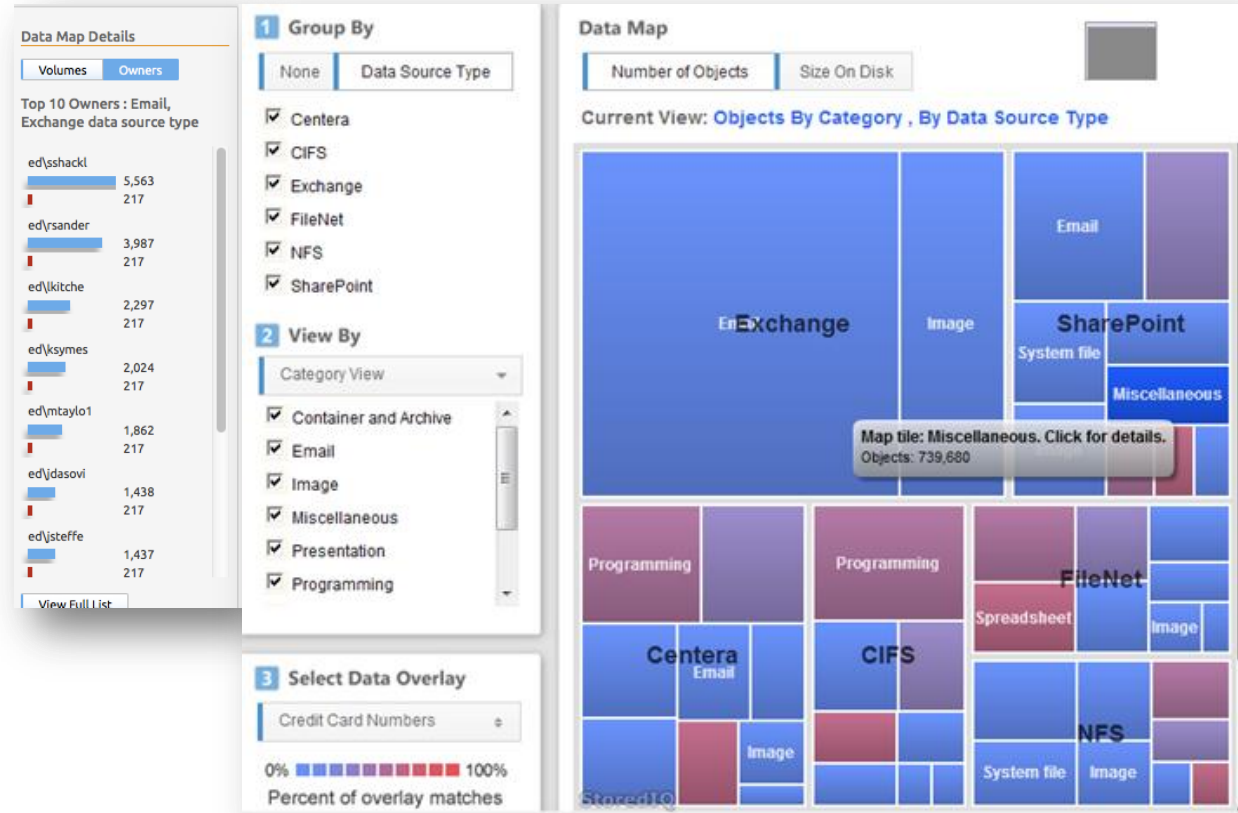
# **IBM VALUE-BASED ARCHIVING**

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# Analyzing Data In-Place Before Preserving or Collecting

Analyze content across organizational data sources and identify owners to determine people and systems with potentially relevant information.

- Abandoned File Systems
- Explore for local PSTs
- Examine data for risk (SSN Numbers, Credit Card Numbers)
- Monitor unauthorized file type



- IBM eDiscovery Identification and Collection
- IBM Policy Assessment and Compliance
- IBM Unstructured Data Identification and Management
- IBM Desktop Data Collector

# Archive Content Based On Its Business Value or Obligation with IBM Content Collector

## Selectively archive from email, file systems, social media and collaboration systems according to VALUE

Filter on source to determine what to archive:

- a. Age
- b. Size
- c. Content Type
- d. Metadata, properties and attributes
- e. Classification based on message/file contents

De-duplicate to reduce volume

**Message Constraints**

Filter email by age  
Filter email with a:  
  
 Older than:  
   
 On or before:

Filter email by size **i**  
Include email greater than:

Ignore encrypted items **i**

Ignore items previously processed by: **i**  
 Current collector  
 Any collector

**File System Collector**

General | Schedule | Collection Sources | **Filter**

**Filter**

Filter file extensions: **i**  
Exclude files:

Ignore documents: **i**  
 Already processed **i**  
 Already captured **i**  
 Where access is denied **i**

File attribute filter: **i**

Attribute	Action
Read only	Process
Hidden	Do not process
System	Do not process
Archive	Not used
Temporary	Do not process
Sparse file	Not used

Date filters: **i**

Property	Type	Date
Latest create d...	Not used	Not used
Earliest modified...	Not used	Not used
Latest modified ...	Not used	Not used
Earliest access ...	Not used	Not used
Latest access d...	Relative	90 days ago

Minimum file size in bytes:

**Message Types**

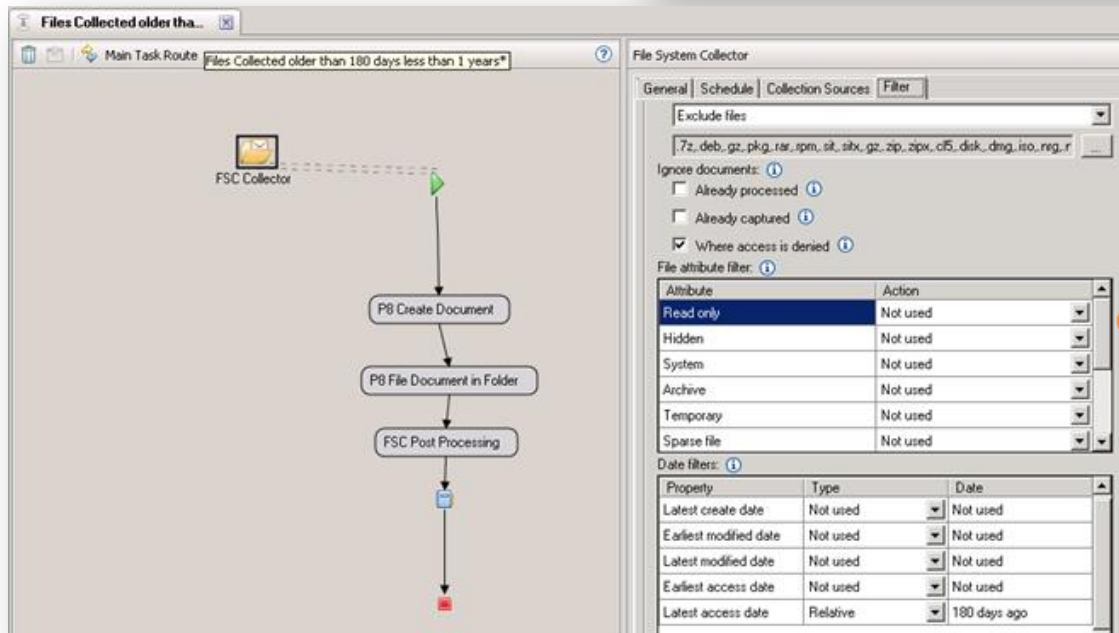
Exclude  Include

Message type	Base message
Task request	
Task response	
Conflict	
Meeting request	

# Automatically Apply Retention & Expiration Policies according to value or legal obligation

Data-source specific retention schedules are defined centrally by experts, and syndicated to other applications

Name	Description	Organization	Records Coordinator
<a href="#">ADM120, Purchasing and Requisition</a>	Records related to the request, authorization, and procurement of products and services. Excludes records for payment of products or services. See FNA100 for Accounts Payable	GWM-NYC (US)	Ross, Alex
<a href="#">CDR100, Departmental Administration</a>	Records documenting business unit administration, planning, and management activities, and other miscellaneous administrative. Records not covered elsewhere.	GWM-NYC (US)	Ross, Alex
<a href="#">ENV100, Accident and Injury Records (OSHA &amp; Non-OSHA)</a>	Records related to general liability and on-the job accidents.	GWM- Private Bank US - Chicago (US)	Mason, Judy
<a href="#">HUM420, Personnel Files</a>	Records providing a history of employment from initial hiring through termination/resignation.	GWM-NYC (US)	Ross, Alex
<a href="#">SAL 140, Market Research and Analysis</a>	Records related to the development, administration, and analysis of market research.	GWM- Private Bank US - Chicago (US)	Mason, Judy



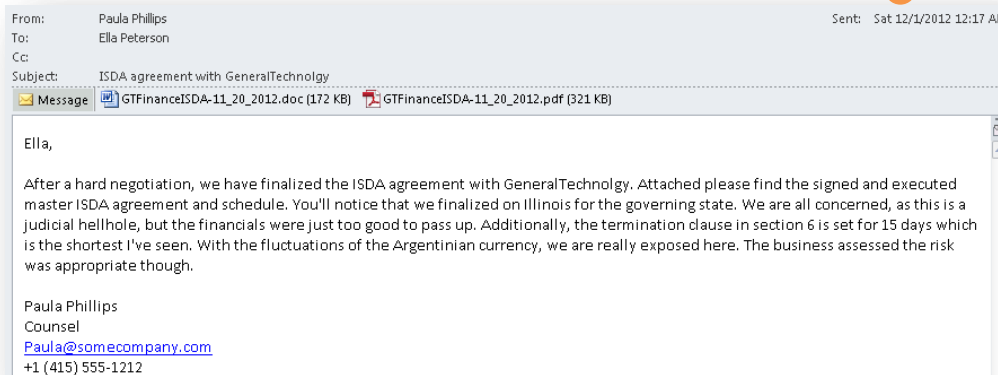
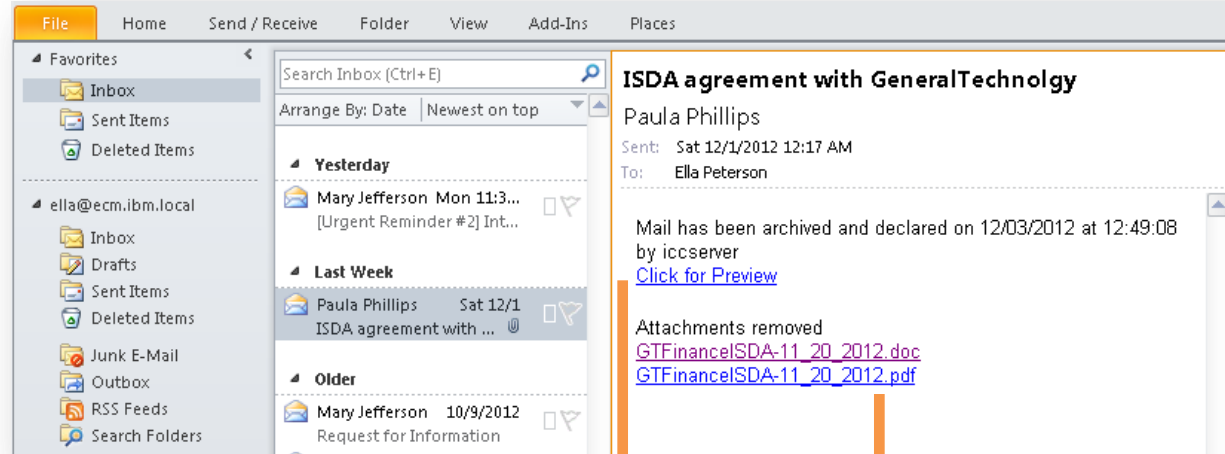
Retention instructions attached to data during collection and executed automatically at the appropriate time.

# Journal & Archived/Stubbed Email Stored Only Once

Archived email appears in the user's inbox for a seamless experience.

Unlike First Generation archives, no web page opens and no additional searching is required.

This gives users an "infinite" mailbox, so they do not need PST's. PST existence is the gate to defensible disposal of eMail.



## Deep integration with email client for ease of use: Instantaneous Retrieval; Classification & Application of Retention Policy Performed in the Background

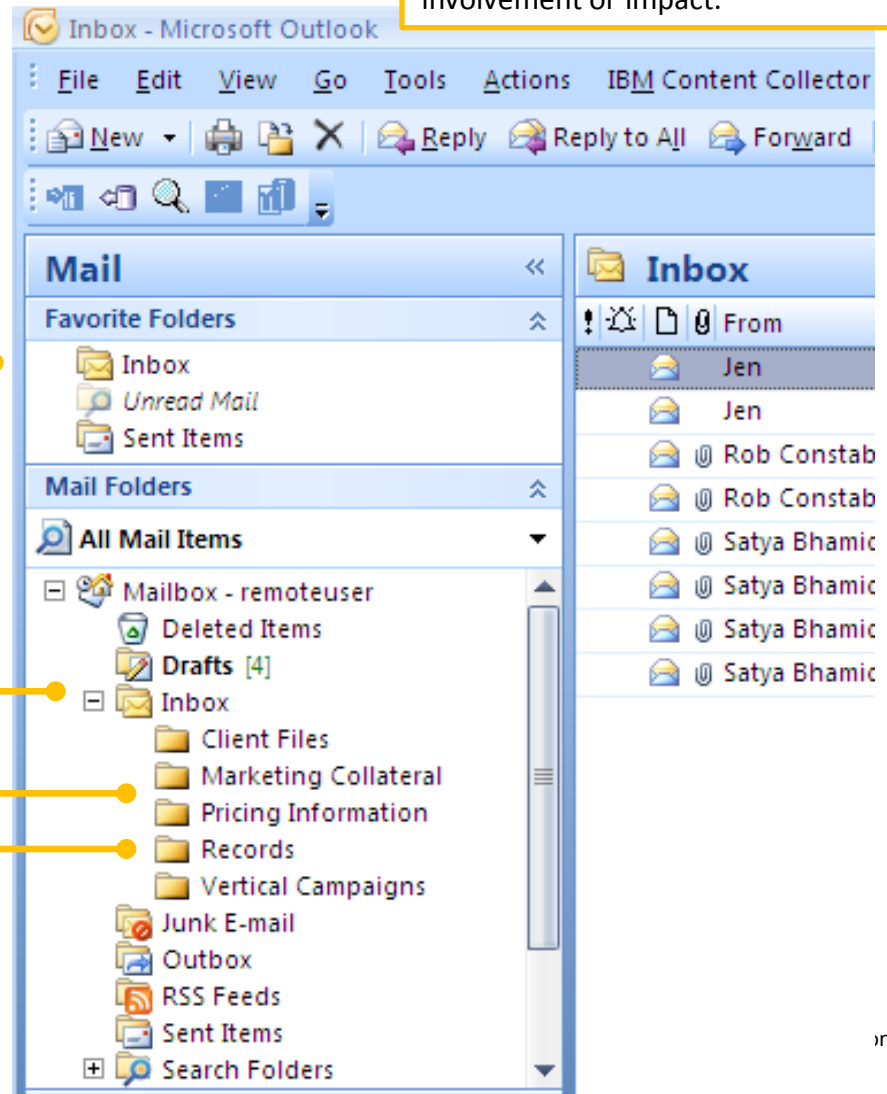
Note: Messages for regulated users are journaled without user involvement or impact.

Messages in the root Inbox that are not foldered and are purged after 60 days in-place.

Messages Deleted from the production system completely are held in the Dumpster for 15 days in case users need deleted items.

Messages Foldered in any way (all non-root folders other than records folders) are stubbed to the archive after 60 days. Retention is set at the user's business unit's business value period.

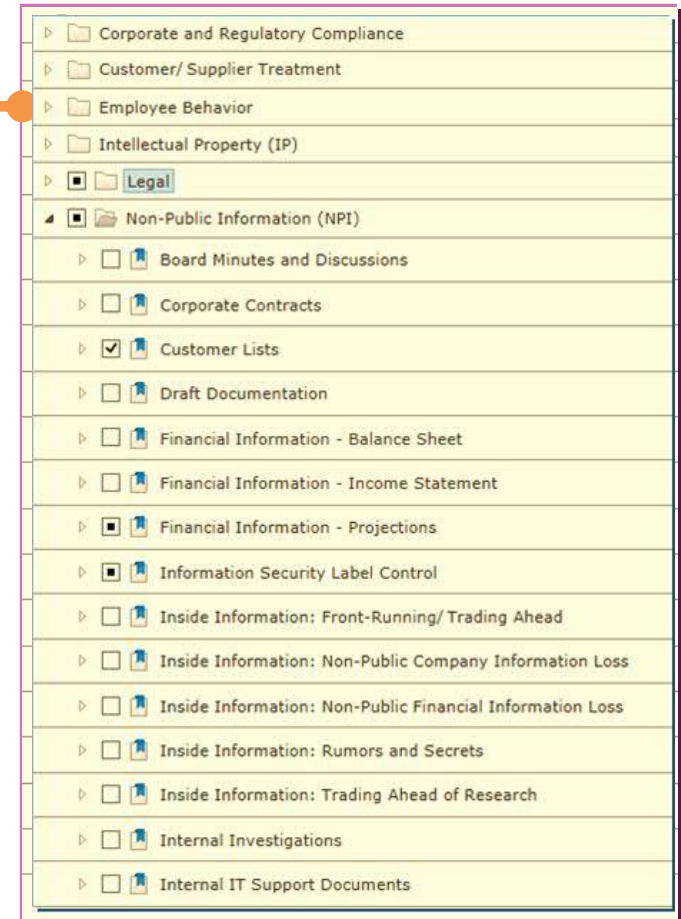
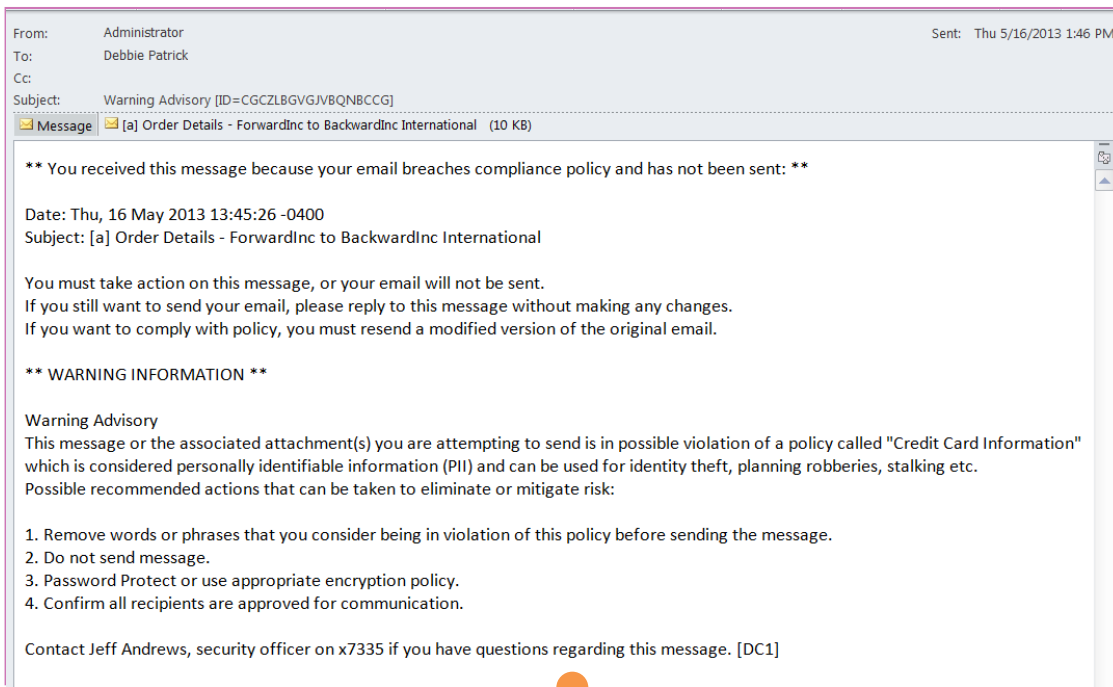
Messages moved to a Records Folder are stubbed to the archive and automatically declared as records.





# Reduce risk in archived content by blocking non-compliant messages before they are sent

Define policies that are then executed against outgoing messages to determine adherence to corporate policies & procedures.



Non-compliant Emails are not sent but returned to sender for remediation or quarantined for further review

# Apply real time enforcement to ensure compliance with electronic communication policies. Report on performance.

Home | Review | Incident Dashboard

Quarantine Search

Event Type	Subject/File Name	Timestamp	From/User/Host	Recipients/Participants/URL/Path	Audit Status
	Re: ForwardInc Forecast	Monday, April 15, 2013 2:27:49 PM	John Smith	taylor.pete@rocketmail.com	

Recent Incidents List (derived)

Event Type	Severity	Subject/File Name	Timestamp	From/User/Host	Action
	<span style="color: green;">■</span>	Let's Discuss Immediately	Monday, April 15, 2013 2:28:35 PM	John Smith	Disregarded Warning
	<span style="color: red;">■</span>	Re: ForwardInc Forecast	Monday, April 15, 2013 2:27:49 PM	John Smith	Quarantined

Detailed Issue Report

Issue Name	Status	Resolution	Category	Comments	Associated User(s)	Group(s)	Subject	Date/Time	From
Security Issue	Escalate		Escalate to Management		John Smith	Finance	Re: ForwardInc Forecast	Wednesday, April 10, 2013 1:10:55 PM	John Smith
Security Issue (1)	Escalate				John Smith	Finance	Re: ForwardInc Forecast	Wednesday, April 10, 2013 1:10:55 PM	John Smith

Incident Summary Report [1]

Group	User	Policy Name	Number of Violations
/Users/FPP Base Group/FPP Custom Group/Forwardinc/NorthAmerica/Finance	John Smith (FORWARDINC\smijo01)	Attorney Client Privilege	1
/Users/FPP Base Group/FPP Custom Group/Forwardinc/NorthAmerica/Finance	John Smith (FORWARDINC\smijo01)	Financial Information - Projections	3

Identify potential regulatory breaches in email

Incidents By Policy

Policy	Totals	High	Medium	Low	Not Set
Confidential Trade Data	23	0	0	0	23
Information Security Label Control	20	0	0	20	0
Social Security Number - Threshold	19	0	19	0	0
Credit Card Information - Threshold	16	0	16	0	0
Sales Information	9	0	0	0	9
Individually Identifiable Health Infor...	8	0	0	8	0
Technical Specifications or Designs	6	0	0	6	0

Incident Trend By Policy

Incidents By Policy Class

**Non-Public Information: 39**  
Click item to drilldown to Class Incidents By Policy.

Gain real time insight into compliance performance

# Legal Users can create cases directly on the archive & apply holds or export case data directly to outside counsel without involving IT

Reduce process steps and avoid duplication of data.

The screenshot displays the IBM eDiscovery Manager interface. At the top, it shows the user is logged in as 'administrator' and the current case is '--Credit CARD Act Investigation'. The task status is 'Active'. Below the navigation pane, a list of search results is shown with columns for 'Type', 'Native view', 'Sender', and 'Subject'. An 'Export Content' dialog box is open, allowing the user to configure export settings. The dialog includes fields for 'Export format' (set to 'EDRM XML'), 'Export file name prefix' (set to 'SomeCompany'), 'Notification email addresses' (set to 'carl@somecompany.com'), 'Export task name' (set to 'Export\_Task\_20110623T17010047'), and 'Export directory' (set to 'Export\_Task\_20110623T17010047'). The 'Schedule Task' checkbox is checked. The start time is set to 6/23/2011 at 20:00. The dialog also includes 'Ok' and 'Cancel' buttons.

Type	Native view	Sender	Subject
[Icon]	[Icon]	Carson Brewer	Meeting
[Icon]	[Icon]	Joe Grimes	Spring Break Operation
[Icon]	[Icon]	Carson Brewer	Re: Announcement
[Icon]	[Icon]	Ryan Keene	Re: Meeting

**Export Content**

\* Required field

\* Export format:  
EDRM XML

\* Export file name prefix:  
SomeCompany

Notification email addresses:  
carl@somecompany.com

\* Export task name:  
Export\_Task\_20110623T17010047

\* Export directory:  
Export\_Task\_20110623T17010047

Export task description:  
Items needing Secondary Legal Review for case

Schedule Task

Start time

\* Date: 6/23/2011 \* Time: 20:00

Proprietary and Confidential – Do not distribute without consent from IBM

Ok Cancel

Export data in its native format or in the industry standard EDRM XML

# Retention Schedules Syndicated and Executed Automatically on Structured & Unstructured Data for Efficient, Defensible and Routine Disposal

Access and execute approved schedules on records repositories, structured and unstructured archives, SharePoint and other data sources.

Changes in business or regulatory requirements initiated by policy owners are automatically syndicated for reliable, defensible and efficient execution.

Application archive automatically receives retention and disposition schedule to execute on records.

Tasks Setup Logs

Show: All

ID	Name	Task	Occurred On	Status
192	SAL120, Customer Relations	Change Local Schedule	Oct 23, 2011 5:42:23 PM	Execute
191	SAL120, Customer Relations	Change Local Schedule	Oct 22, 2011 1:12:43 AM	Completed
190	SAL120, Customer Relations	Add Local Schedule	Oct 22, 2011 12:50:10 AM	Completed
182	ADM100, Internal Services			Completed
181	ADM100, Internal Services			Completed
180	ADM100, Internal Services			Completed

**Alert Detail**

Date: Dec 31, 2008 1:25:21 PM

Subject: **SCHEDULE CHANGE: HUM420, Personnel Files**

Schedule: [HUM420, Personnel Files](#)  
 Modified By: [Administrator, System](#)  
 Change: modified  
 Reason for Change: Retention period updated based on new citation added.

Message: The following fields for [HUM420, Personnel Files](#) were modified:  
 Retention Schedule: **Execute**  
 Disposition: 7

Title	BNK100, Account Set-Up/Maintenance
Record Code	BNK100
Record Category Name	BNK100 Global Investments-Portfolio Group US (US)
Record Category Identifier	BNK100-LSEZ
Version	1
Triggering Event	Account/Relationship is open/active
Retention Type	Event + Fixed Time
Triggering Metadata Field	DateCreated [pk]
Period	5 Year(s)

**P55\_200 - Storage Profile Definition**

Description: SAL120, Customer Relations

Segment Sizes (MB)  
 Fixed: 0 Removable: 10

Retention Policy

Automatically Delete File  
 Delete after:  
 Days 365

**AL - Access Definition Editor**

Table/View Type DBMS Table Specifications Ref Del Delete Rows After Archive Extract Params Row Limit

1	OPTM_CUSTOMERS	Table	SQL Serve						
2	OPTM_SALES	Table	SQL Serve						
3	OPTM_ORDERS	Table	SQL Serve						
4	OPTM_DETAILS	Table	SQL Serve						
5	OPTM_ITEMS	Table	SQL Serve						
6									

## Learn More!

IBM Education courses available

IBM Redbooks



### **Creating Value-Based Archiving Solutions with IBM Content Collector**



Wei-Dong Zhu  
Brent Benton  
Ming Qun Chi  
Yigal Dayan  
Mark Martin  
Daniel Pittner  
Harry Yessayan

[ibm.com/redbooks](http://ibm.com/redbooks)

**Redbooks**

- Chapter 1. Value-based archiving and defensible disposal overview
- Chapter 2. Example use cases
- Chapter 3. Dimensions of content archiving themes
- Chapter 4. Designing, adapting, and deploying task routes
- Chapter 5. Retention management
- Chapter 6. Document classification
- Chapter 7. Records management integration
- Chapter 8. IBM Connections integration

# Keep the conversation going!

## Talk further with the ILG team at your organization and at these upcoming events!

### Setup a call with IBM's ILG experts to assess your archiving maturity

- Brent Pohl – [bpohl@us.ibm.com](mailto:bpohl@us.ibm.com) - +1 (512) 286-3225

### 3<sup>rd</sup> Party Industry Events:

- Wisconsin IT Symposium | Milwaukee | May 7
- AIIM Seminar – Resetting SharePoint Expectations | Toronto | May 15
- MER Conference | Chicago | May 19 – 21
- AIIM Seminar – Resetting SharePoint Expectations | NYC | May 20
- AIIM Seminar – Resetting SharePoint Expectations | DC | May 22
- ARMA Canada | Ottawa | June 8-11

### IBM Lunch & Legacy Data Cleanup Event Series – coming to a city near you!

- Lunch & Learn | Dallas | May 6
- Lunch & Learn | Kansas City | May 14
- Lunch & Learn | St. Louis | May 28
- Lunch & Learn | DC | TBD
- Lunch & Learn | Buffalo | TBD
- <sub>30</sub> Lunch & Learn | Rochester | TBD

# Engage! Join the Conversation!

## Compliance, Governance and Oversight Council

### Join the CGOC!

- Forum of over 2,000 corporate legal, IT, records and information management professionals. CGOC conducts primary research, has dedicated working groups on challenging topics, and hosts meetings throughout the U.S. and Europe where practice leaders convene to discuss discovery, retention, privacy and governance.
- Mission: To provide executives the opportunity to benchmark and exchange case studies; its practice groups focus on discreet areas in preservation, retention, and information governance to deliver work products that help our members best approach the challenges in maintaining best-in-class programs.

### Online and in person events Regional and International summits Published materials



**Benchmark Report on Information Governance in Global 1000 Companies** (CGOC Publication, 2010)



**Information Lifecycle Governance Leader Reference Guide** (CGOC Publication, 2012)



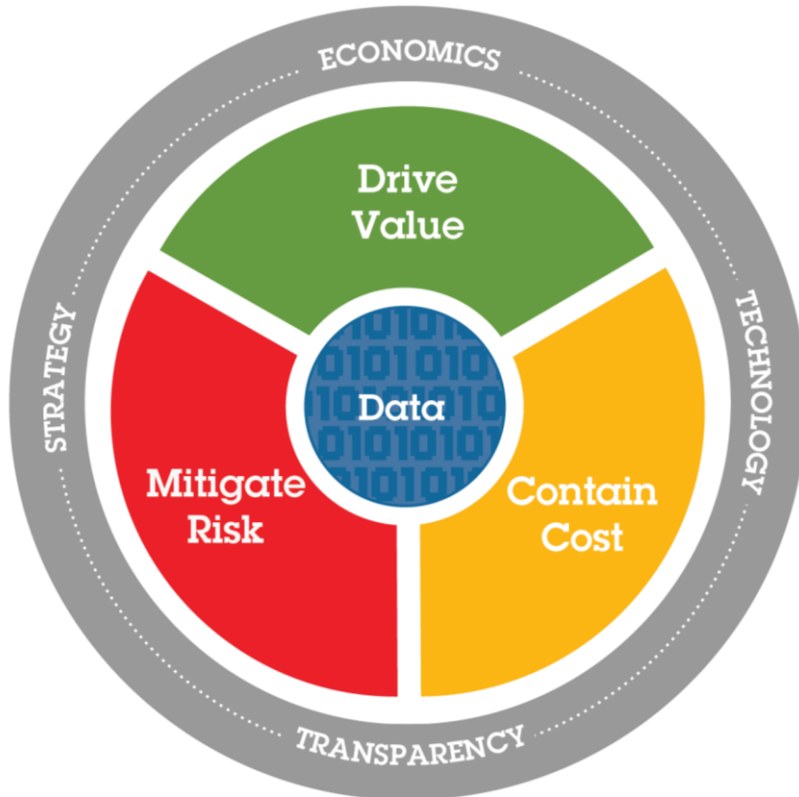
**German State Orders Businesses to Close Facebook Pages Over Privacy and Data Protection Issues** (CGOC Advisory, 2011)



**Elements of the Modern, Executable Retention Schedule** (Work Product of the CGOC RIM Practice Group, 2011)

# Only IBM ILG Solution Improves Information Economics

## IBM Information Lifecycle Governance



ILG lowers the total cost of information while increasing the value derived from it:

**Eliminate unnecessary cost and risk** by defensibly disposing of data debris

**Align cost to value** through value-based archiving and tiering

**Reduce information risk** by instrumenting privacy, e-discovery and regulatory policy across the data environment

Enable business to **realize information value** as context erodes with analytics-in-place, content management and collaboration



## Please note

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion.

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The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.