Prevent Big Data Overload *Before* Your R12 Upgrade

OAUG Vendor Awareness Session

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ILM Architect and Practice Head

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VP, ILM Business Unit

Agenda

- **The Impact of an Oracle E-Business Suite R12 Upgrade on Data Volumes**
- **Lean Data Management Best Practices**
- **Informatica Data Archive Case Studies**

The Impact of an OEBS R12 Upgrade on Data Volumes

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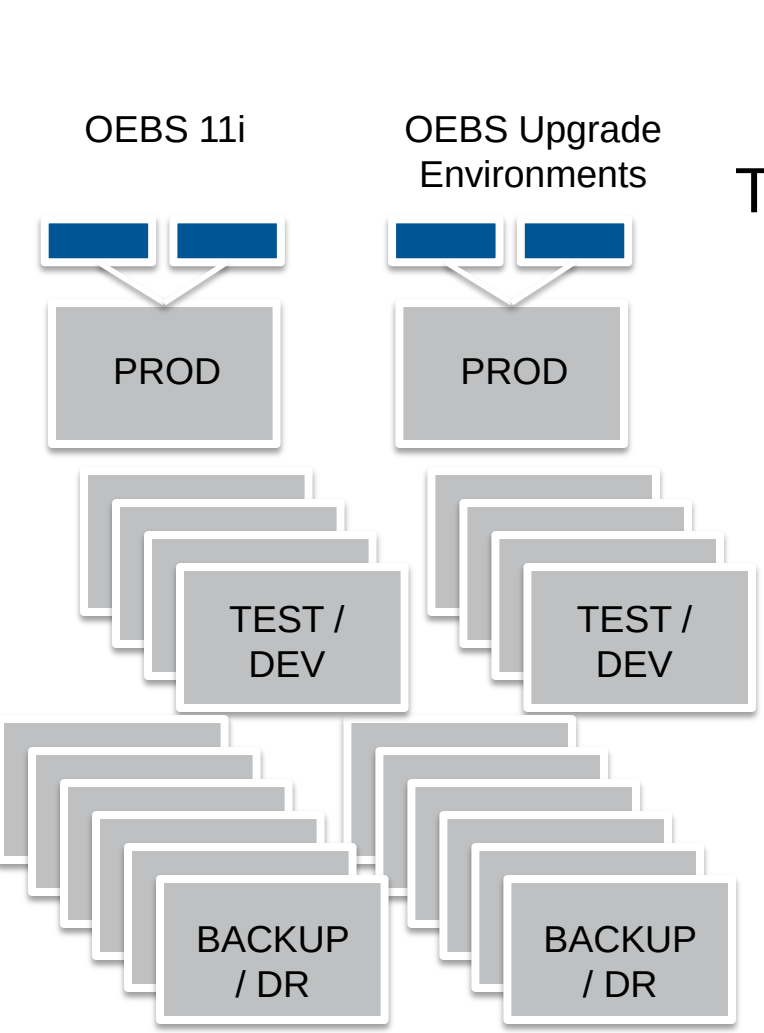
R12 Upgrade Commentary

- **End of Extended Support for 11i/10 November, 2013**
- **R12 Hardware Requirements - baseline**
  - Disk Minimum 20% Growth
  - CPU Add 20% to 11i
  - Memory Add 20% to 11i

R12 Generates More Data

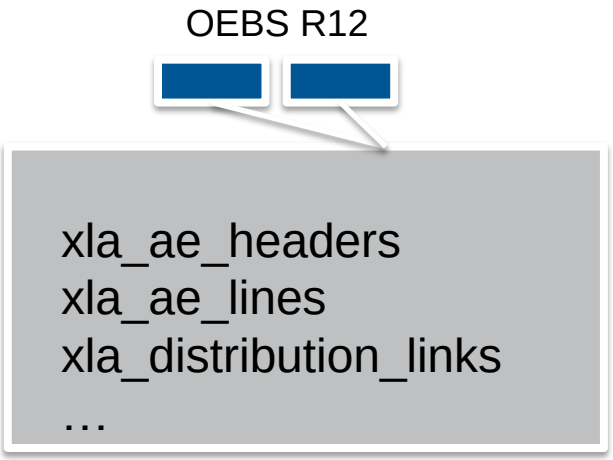


Too much data:

- Slows performance
- Lengthens test/dev cycles
- Increases backup / recovery windows

One Example Of R12 Accelerated Data Growth

New Modules I.e. Financial Services Accounting Hub (FSAH) – Now Called Financial Accounting Hub (FAH)

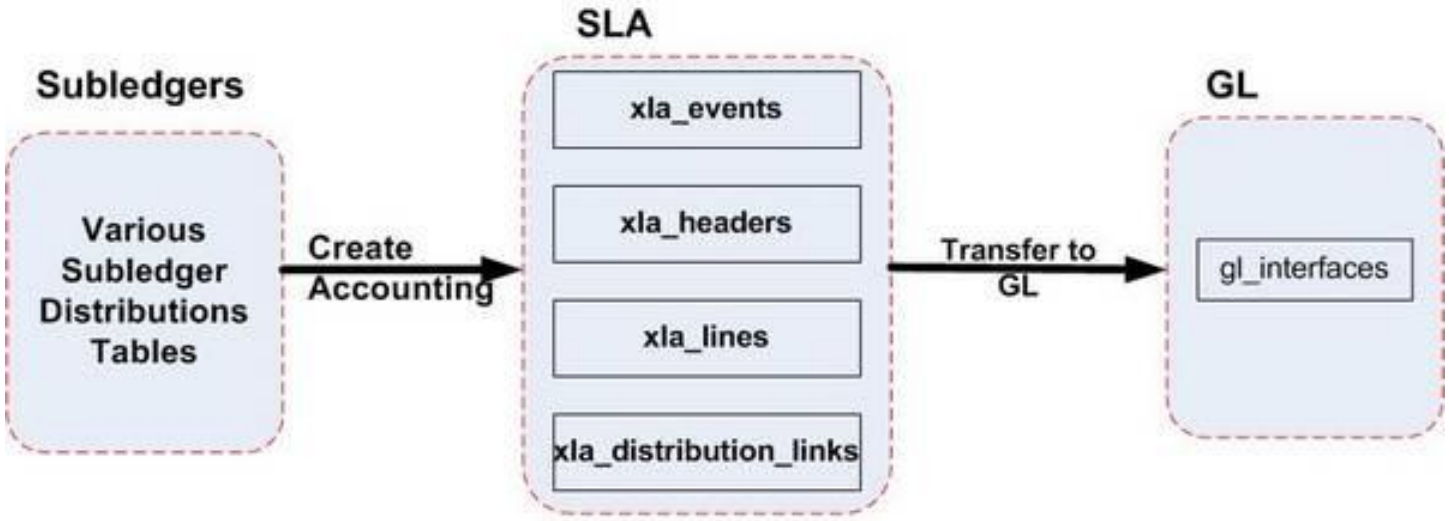


- Users can efficiently create detailed, auditable, reconcilable accounting records from a variety of source systems.
- This module serves as one enterprise-wide accounting repository to meet various corporate, management and reporting requirements.

With new functionality comes new tables and lots of data…

Functional Specification – XLA - FAH

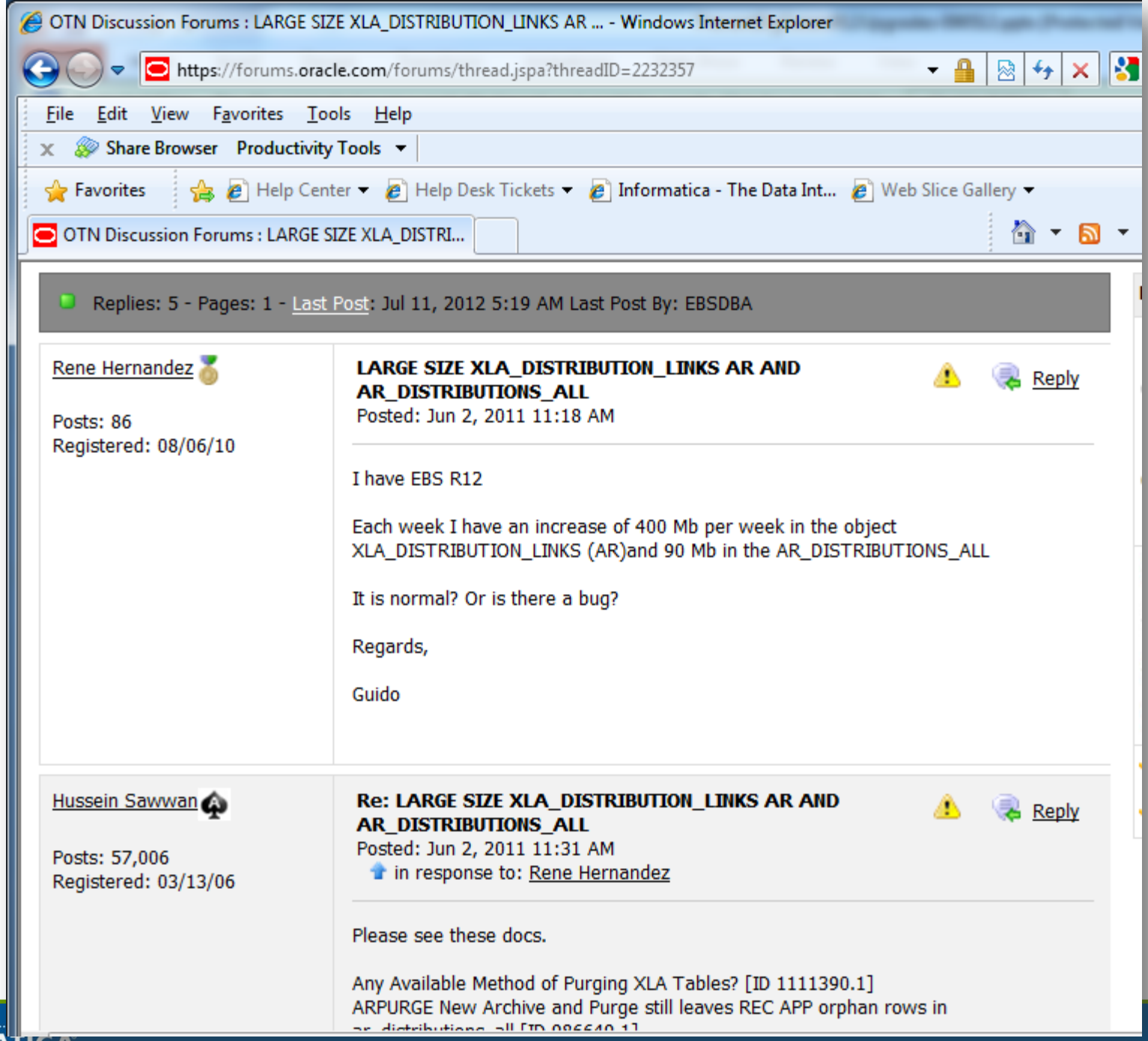
- Subledger Accounting (XLA) is a Rule-based accounting engine, toolset & repository supporting most of Oracle business Suite modules
- It is an intermediate step between Subledger products and the Oracle General Ledger
- FAH efficiently creates detailed, auditable, reconcilable accounting for external or legacy source systems working with the subledger accounting engine



R12 Accounting Structures

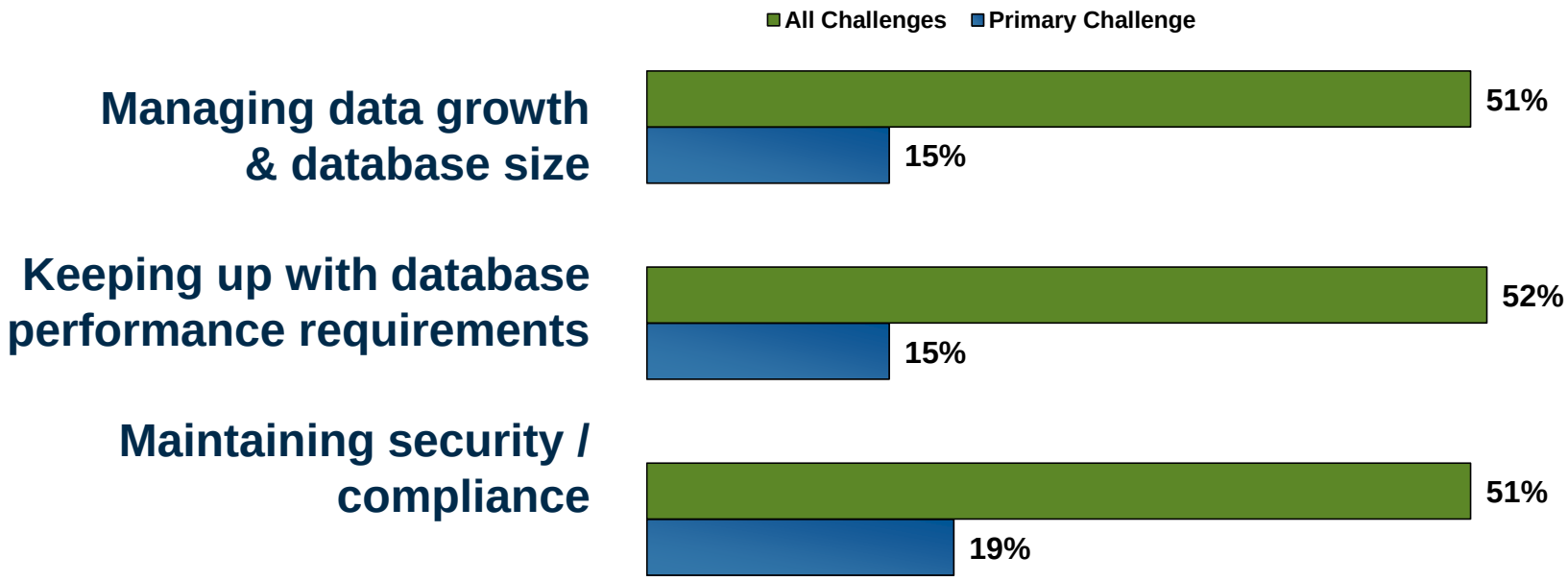
Exponential data generation in XLA-FAH model

- All Subledger accounting data is generated and stored in shared SLA tables prior to transfer to GL, this requires extensive population of SLA tables.
- Each Subledger transaction that requires accounting is represented by a complete and balanced Subledger journal entry stored in a common data model called as event model that has event entity, event class and event type as transactional entities.
- Hence for one transaction enormous data is generated at XLA level.
- FAH includes an accounting transformation engine with extensive validations plus accounting and rules repositories
- The transformation engine consistently enforces accounting policies; the repositories provide centralized control, detailed audit trails, and facilitate simultaneously meeting diverse corporate, management and reporting requirements.
- As a result, between XLA and FAH, there is an uncontrollable and unmanageable data that is generated during implementations.


OTN Discussion Forums : LARGE SIZE XLA_DISTRIBUTION_LINKS AR ... - Windows Internet Explorer
https://forums.oracle.com/forums/thread.jspa?threadID=2232357
File Edit View Favorites Tools Help
Share Browser Productivity Tools
Favorites Help Center Help Desk Tickets Informatica - The Data Int... Web Slice Gallery
OTN Discussion Forums : LARGE SIZE XLA_DISTRI...
Replies: 5 - Pages: 1 - Last Post: Jul 11, 2012 5:19 AM Last Post By: EBSDBA
Rene Hernandez
Posts: 86
Registered: 08/06/10
LARGE SIZE XLA_DISTRIBUTION_LINKS AR AND AR_DISTRIBUTIONS_ALL
Posted: Jun 2, 2011 11:18 AM
Reply
I have EBS R12
Each week I have an increase of 400 Mb per week in the object XLA_DISTRIBUTION_LINKS (AR)and 90 Mb in the AR_DISTRIBUTIONS_ALL
It is normal? Or is there a bug?
Regards,
Guido
Hussein Sawwan
Posts: 57,006
Registered: 03/13/06
Re: LARGE SIZE XLA_DISTRIBUTION_LINKS AR AND AR_DISTRIBUTIONS_ALL
Posted: Jun 2, 2011 11:31 AM
in response to: Rene Hernandez
Reply
Please see these docs.
Any Available Method of Purging XLA Tables? [ID 1111390.1]
ARPURGE New Archive and Purge still leaves REC APP orphan rows in

"What are your top data management challenges?"

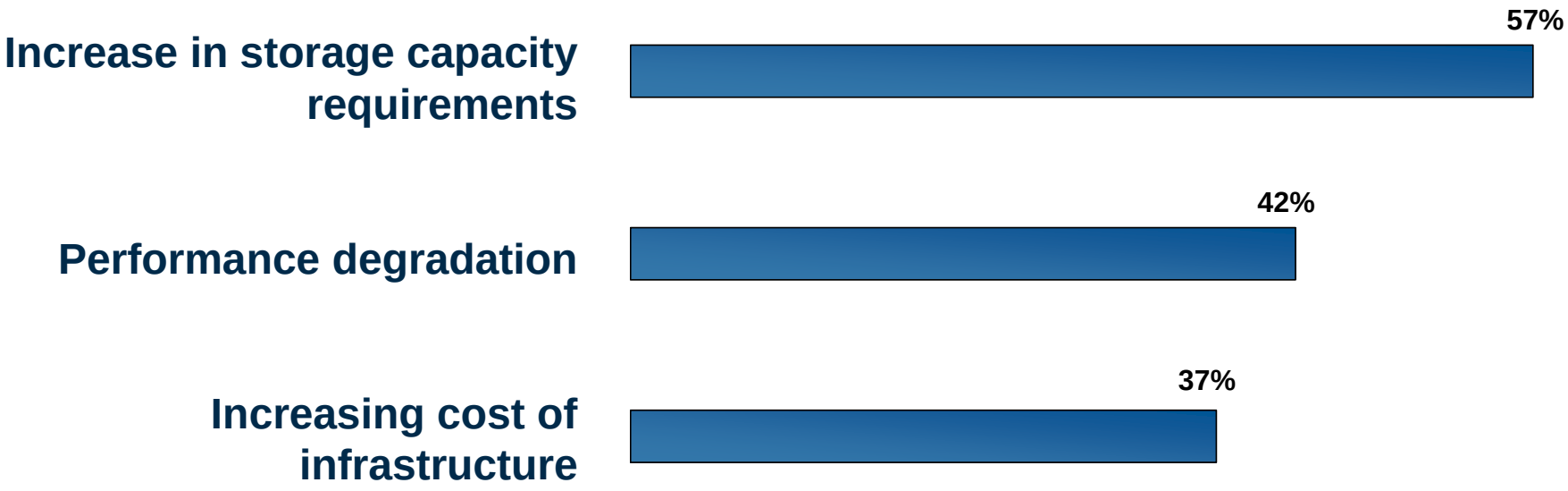
Top 3 Responses



Source: ESG Research Report, *2011 Data Management, Survey*

“How does data growth impact your organization?”

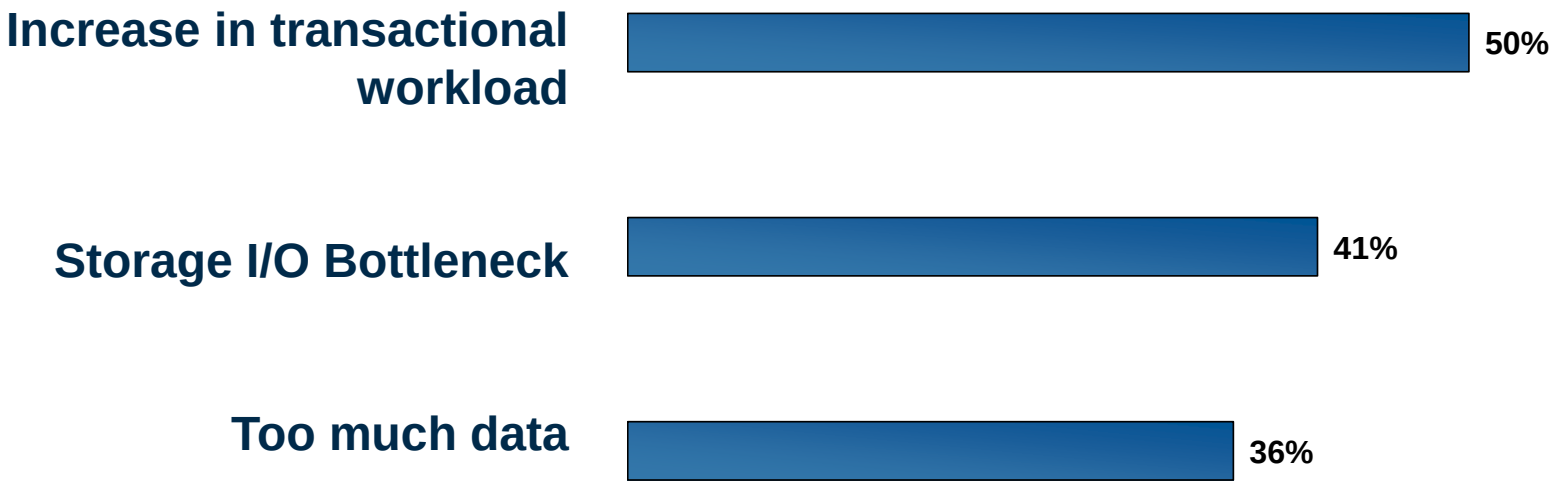
Top 3 Responses



Source: ESG Research Report, *2011 Data Management, Survey*

“What is causing database performance issues?”

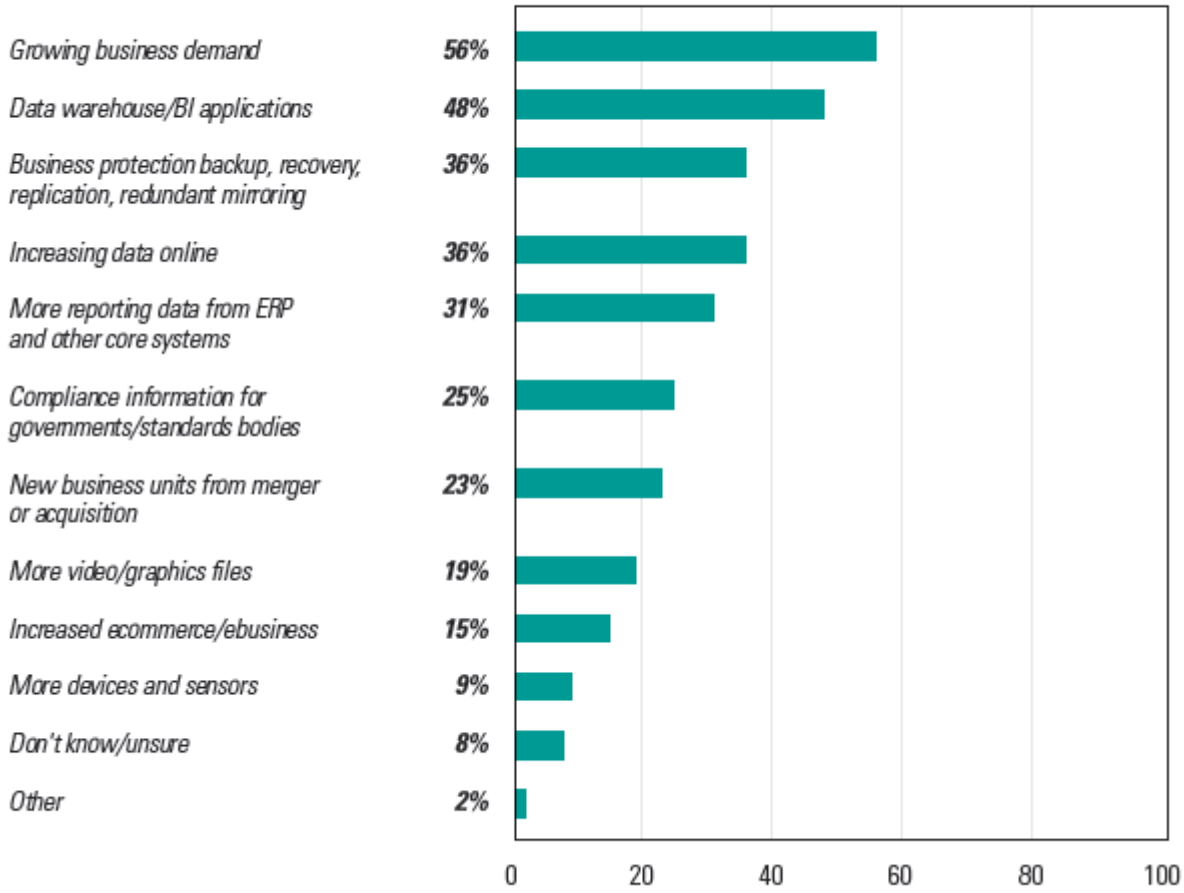
Top 3 Responses



Source: ESG Research Report, *2011 Data Management, Survey*

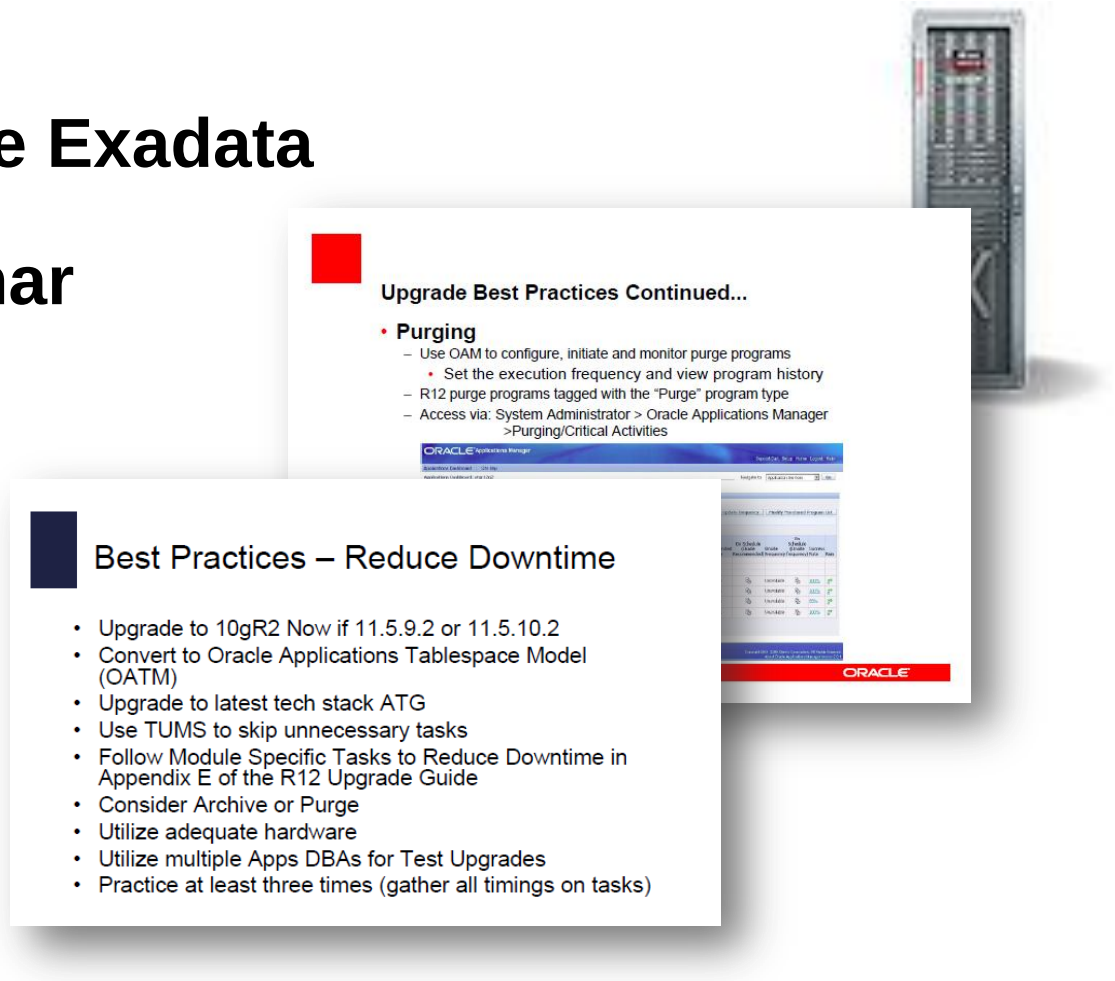
The Petabyte Challenge:
2011 IOUG DATABASE GROWTH SURVEY

Figure 6: Most Significant Sources of Data Growth



Options To Address R12 Upgrade Issues

- **Upgrade to Oracle Exadata**
- **Leverage Columnar Compression**
- **Archive & Purge**
- **…**



- **Lean Data Management**

Best Practices with Lean Data Management

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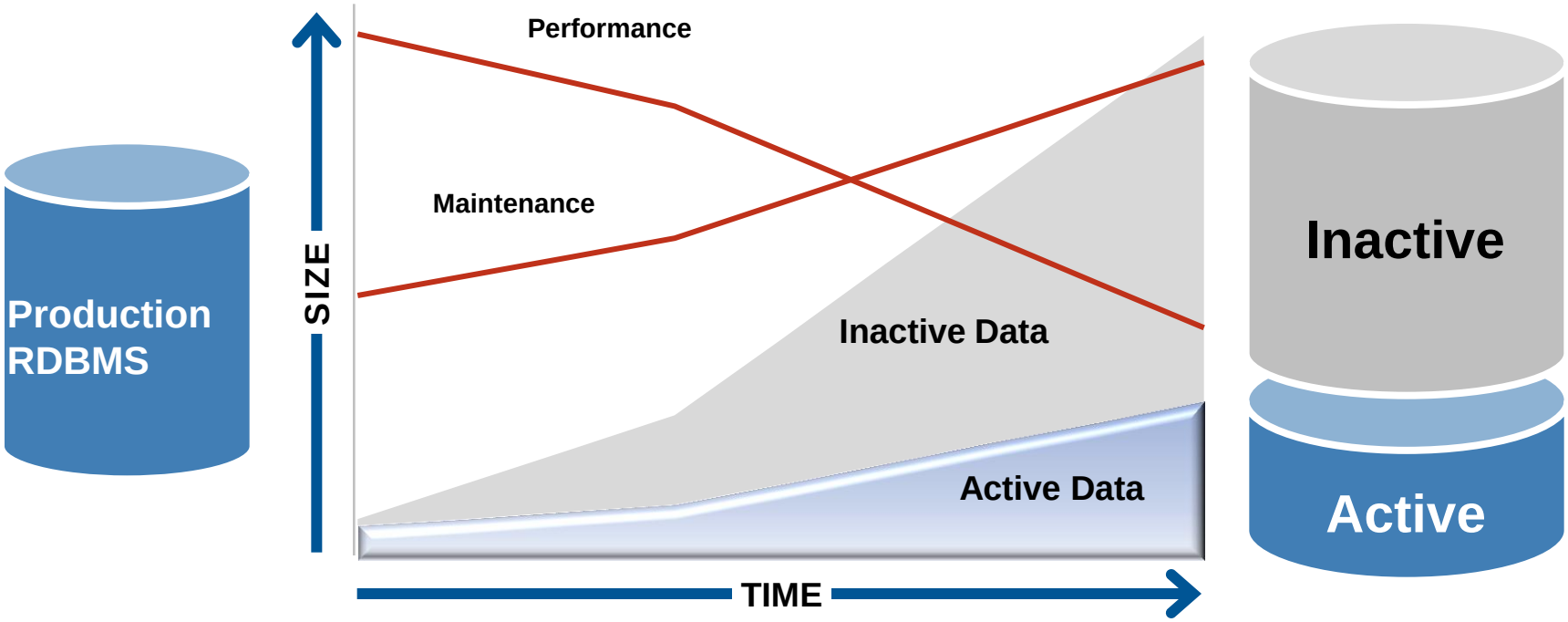
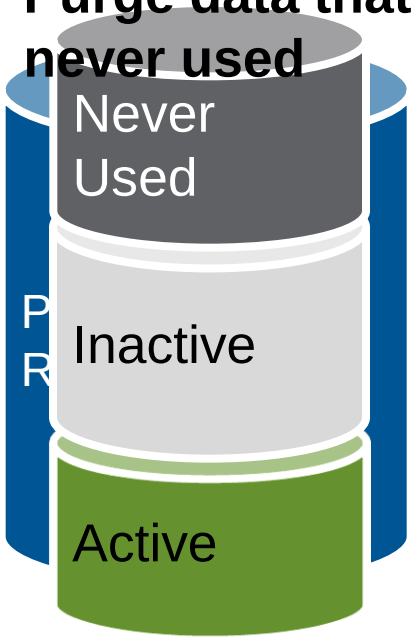
Lean Data Management



Lean Applications & Lean Testing

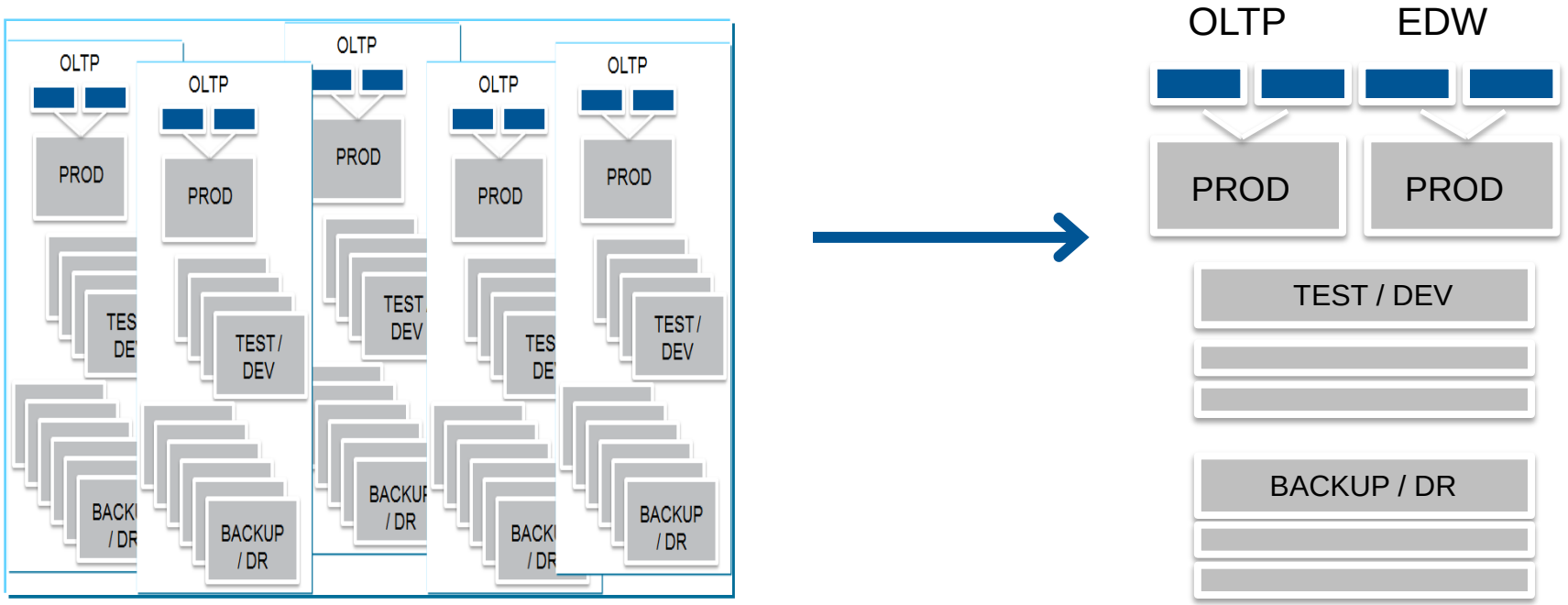
Informatica Data Archive

- **Purge data that is never used**



- **Partition & Archive data that needs to be retained**

Lean Data Management Benefits



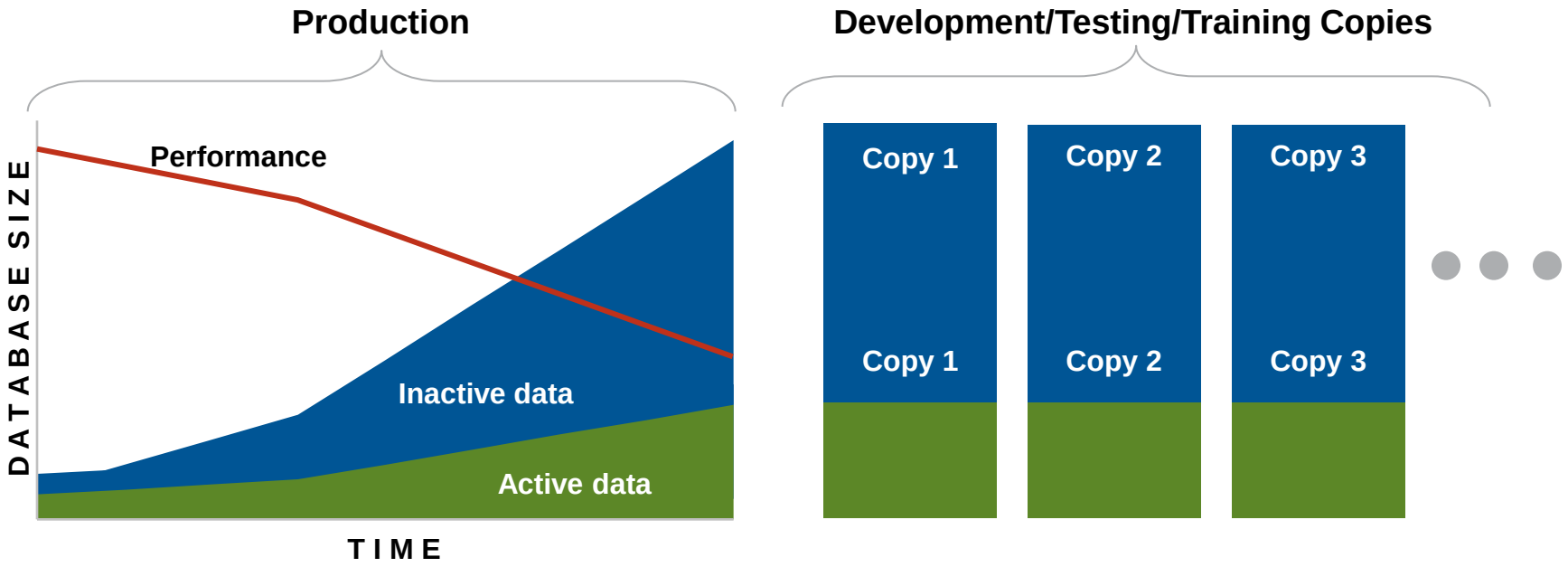
- **Reduce costs**
- **Improve performance**
- **Streamline operations**
- **Maintain compliance**

Informatica Data Archive

Informatica Application ILM Solutions Address Top R12 Upgrade Challenges

Key Benefits

- **Increase performance**
- **Reduce storage, RDBMS license, personnel costs**
- **Reduce effort spent on maintenance & compliance**
- **Enforce retention and disposition policies**



Data Archive Solution Architecture

Analyze & Act Based on Data Usage Patterns

Discover → Optimize → Archive → Retire

- **Analyze and monitor data growth areas that impact performance**
- **Classify Active vs Inactive Data**
- **Develop an effective strategy & act swiftly to rectify**

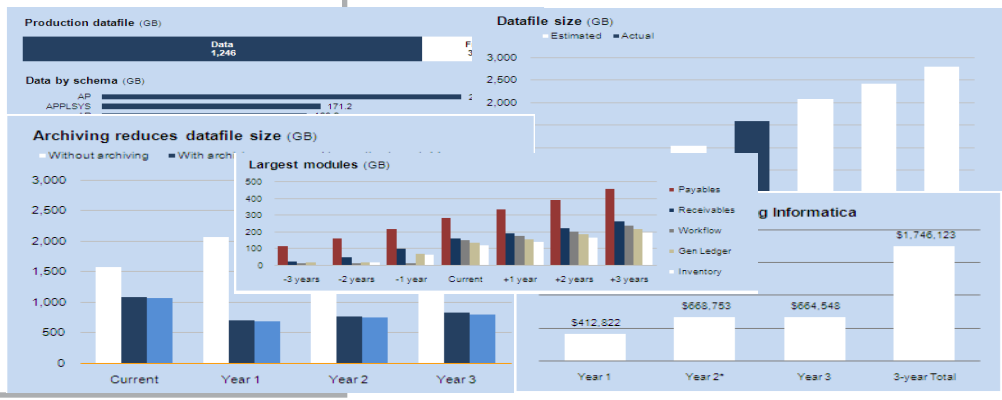
Identify Dormant Data for Oracle E-Business Suite with Pre-built Accelerators & Free Analysis

Determine Partition, Archive, & Purge Eligibility

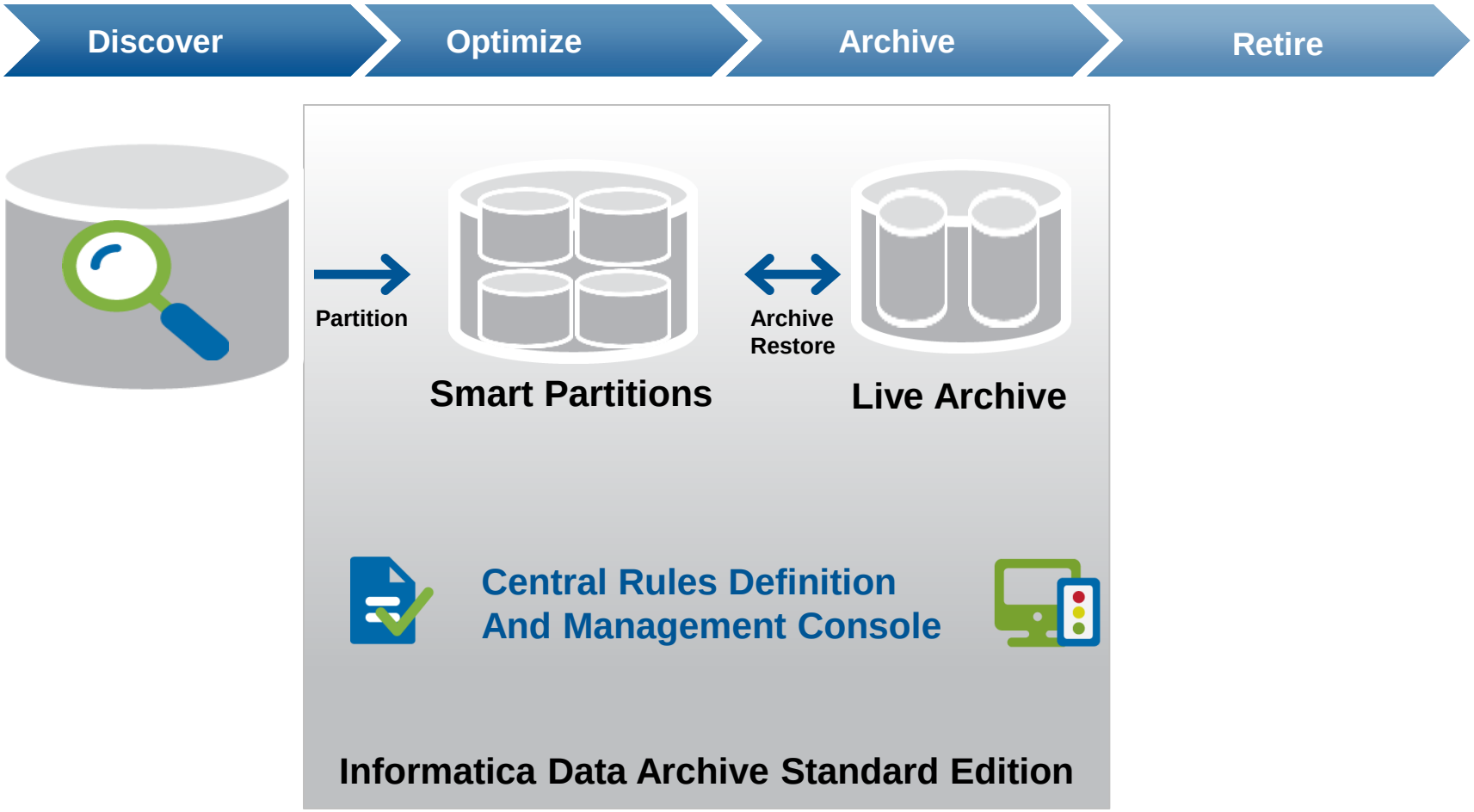
Purgeable	NonPurgeable	Total
192116	679906	872022

Interim Table	Operating Unit	Purgeable	NonPurgeable	Total
XA_4104_AR_CUST_TRX_INTERIM	Aetna	192116	679906	872022

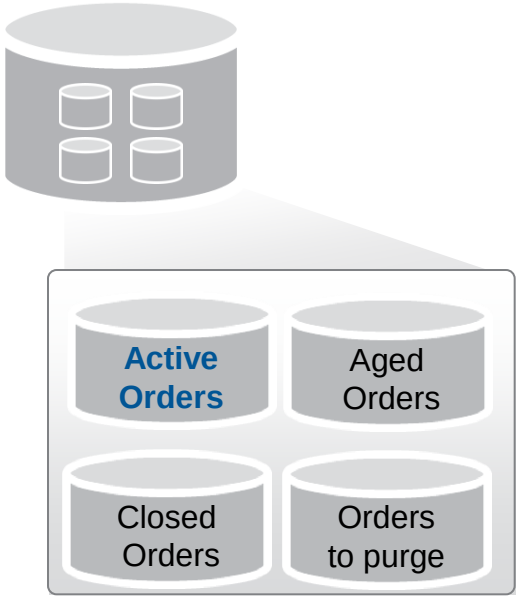
Exception(s)	Count
Adjustment to a non-postable transaction not approved or rejected	0
Adjustment(s) not posted or approved/rejected	3653
Adjustment(s) updated after parameter date	57390
Auto-rule line(s) not complete	0
Credit Memo unposted	0
Dependent Receivable Application(s) not purgeable	
Distribution line(s) not posted	
Distribution(s) updated after parameter date	
Has to remove the CMS ID	
Open return lines exist in OM	
Payment schedule open	
There is an open amount against a 'DEP' or 'GUAR' TRX	
Transaction Not Complete	
Transaction Type is not postable	



Informatica Data Archive Standard Edition



Informatica Smart Partitioning



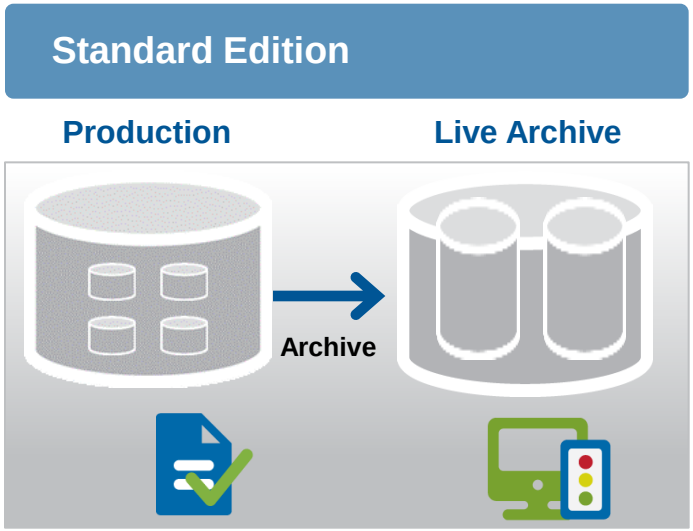
Optimize Resources

- Partition by time, geography, business unit, and/or active/inactive, status etc.
- Data is physically stored as relationally intact segments within the native database storage layer
- Partitions can be independently accessed and managed based on policy (i.e. compressed, archived purged, subset, etc.)

Benefits

- Significantly improves application performance
- Automates complex database partitioning strategies based on business entities
- Simplifies future archiving as part of a comprehensive ILM strategy
- Streamlines cloning for test/dev by only copying relevant partitions
- No changes to how users access data

Informatica Live Archive



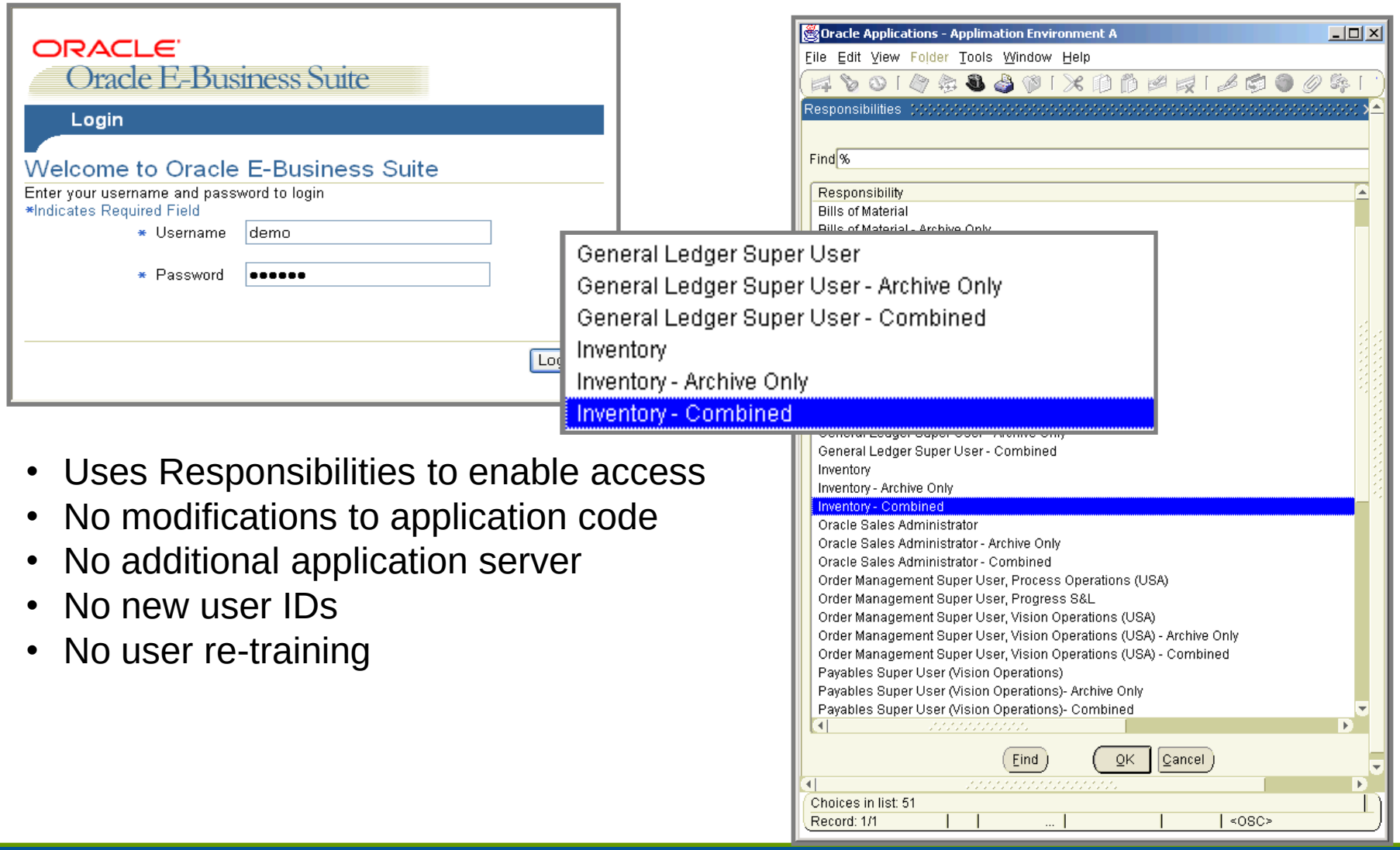
Optimize Resources

- Aligns archive jobs with application entities
- Data is archived completely out of production to either an online archive
- Maintains access to archive data either through native application UI or via standard ODBJ/JDBC connectivity

Benefits

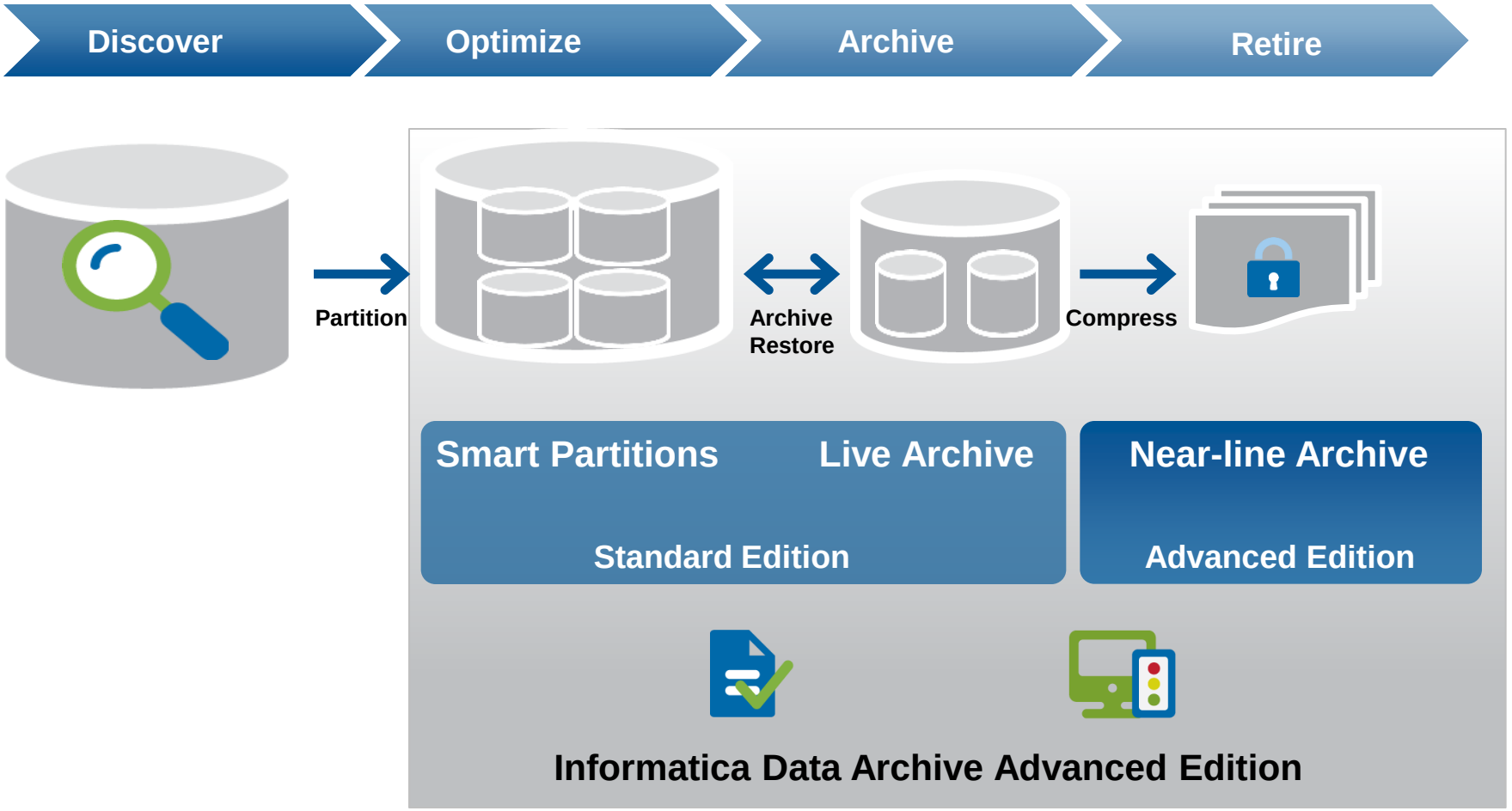
- Application performance is significantly improved ensuring SLAs can be met
- End users access archive data via native application user interfaces
- Infrastructure costs and maintenance windows are drastically reduced
- Policies are centrally managed streamlining and improving compliance to retention policies

Retain Archive Access For Business Users



- Uses Responsibilities to enable access
- No modifications to application code
- No additional application server
- No new user IDs
- No user re-training

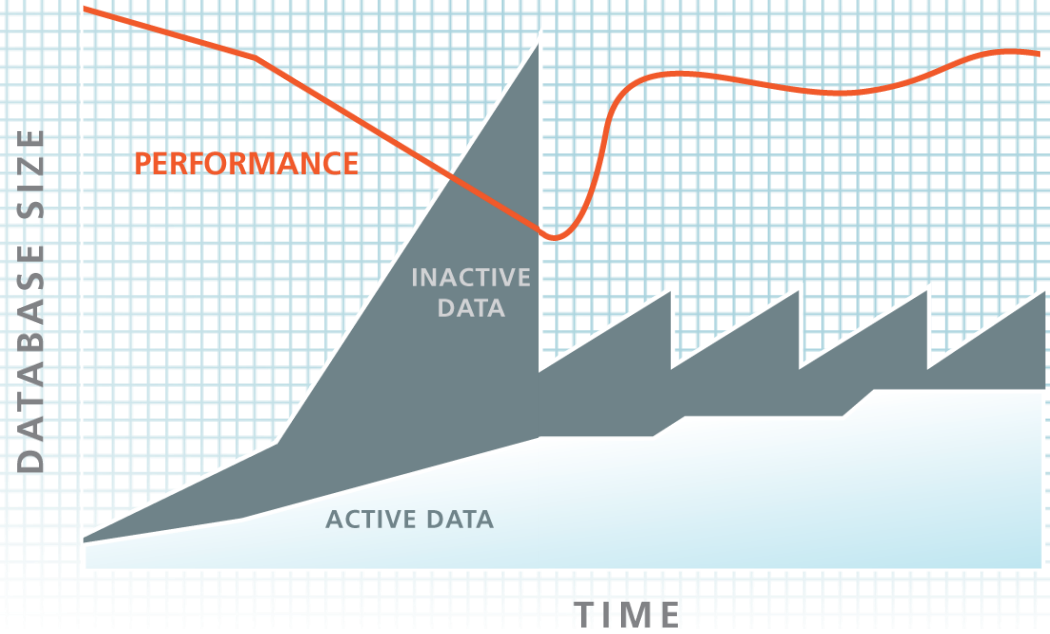
Informatica Data Archive Advanced Edition



Maintain Zero Data Growth

Informatica Data Archive

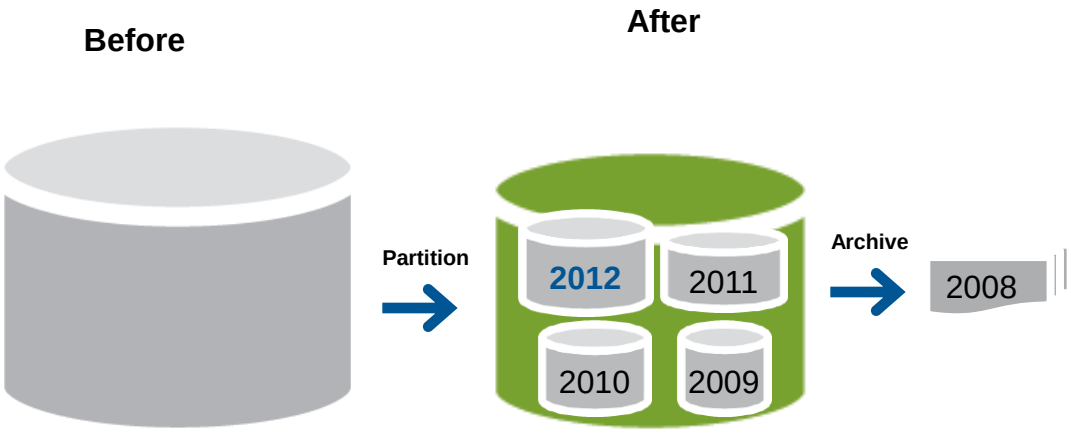
BEFORE SOLUTION	AFTER SOLUTION
Growing storage costs	Predictable manageable growth
Diminishing performance	Improved, stable performance
Increasing maintenance & Compliance work	Reduced maintenance & compliance work



Lean Applications: Large Technology Manufacturer

Significantly Improves R12 Performance Post Upgrade

The Challenge. The R12 upgrade generated 25% more data post upgrade, impacting financial reporting performance and leaving the infrastructure team unprepared with accelerated storage consumption.



The Result

Maintain near zero data growth

Improved app performance to better than pre-upgrade

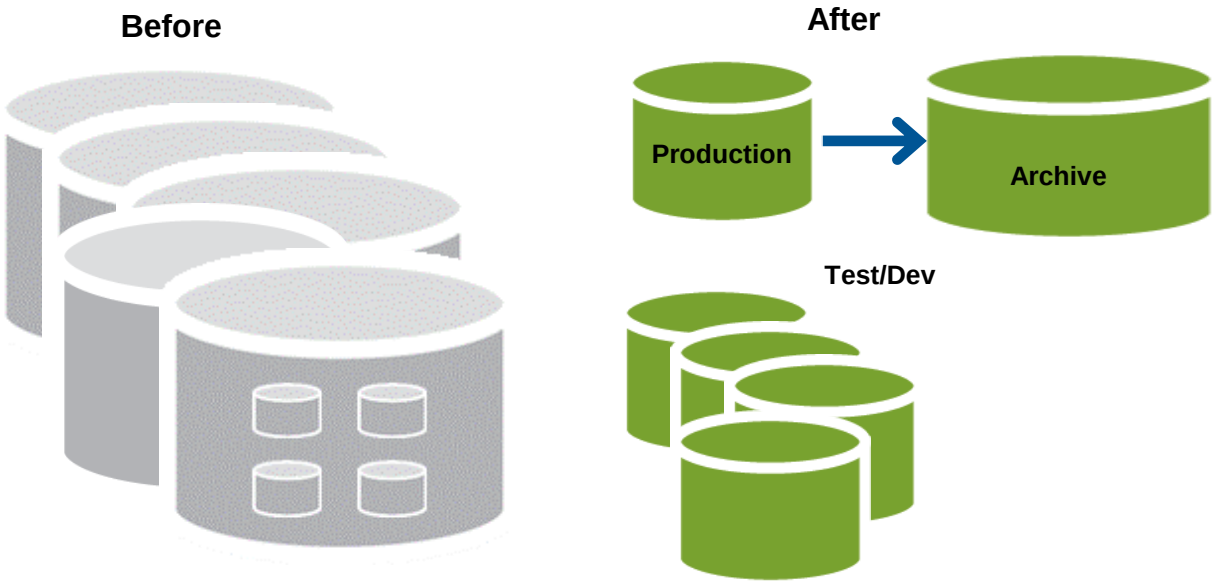
Predictable resource consumption

Reduced cloning times and resource requirements for non-prod

Lean Applications:
IKON Office Solutions
Improves Customer Support Responsiveness & Saves $1.5 M

IKON Document Efficiency At Work.℠

The Challenge. Response times for the customer support application was impacted by data volumes accumulating in Oracle E-Business Suite. Additionally, full copies of production were used for test/dev unnecessarily.



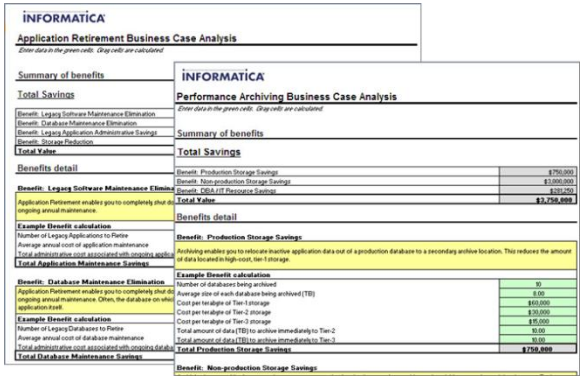
The Result

- **Reduced storage costs by $1.5M**
- **Saved 14TB capacity using lean data management practices**
- **Saved 4.8TB by archiving**
- **Reduced backup window by 25%**
- **ROI in 6 months**

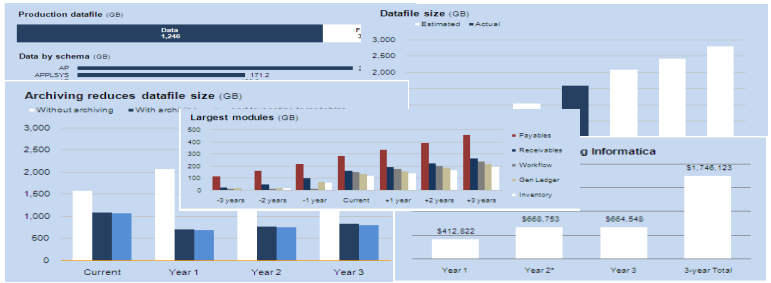
You Can't Manage What You Can't Measure

Take Advantage of 3 Free Offerings

1. Lean Data Management Business Value Assessment



2. Application Data Growth Analysis



3. Lean Data Warehouse Health Check

Next Steps and Q&A

Contact	Visit our website for more information
Caroline Atherton catherton@informatica.com	**Informatica Solutions for Oracle** www.informatica.com/solutions/oracle **Application ILM and Data Privacy Solutions** www.informatica.com >solutions>application ILM

Highlighted Asset	Upcoming Events
White Paper Managing Data Growth in Oracle E-Business Suite with Enterprise Application Archiving, Test Data Management and Data Masking	**Oracle Open World** September 30-October 4, 2012 San Francisco, Moscone Center Booth 2115, South Hall & Oracle Solaris Partner Pavilion **UK Oracle User Group Conference** December 3-5, 2012 – ICC, Birmingham, UK **DOAG Conference + Exhibition** November 20-22, 2012 – Nuremberg, Nuremberg Convention Center East (NCC)

Thank-you!

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