APOS

# RIGHT-SIZING SAP BUSINESSOBJECTS FOR YOUR NEXT STEP

# Today's Session

*Key Topics*

- Right-Size SAP BusinessObjects
- Rationalize
- Reduce
- Restructure

- Q&A – see webinar console

APOS

*Today's Presenters*

**JAY MURDOCH**

Business Development Manager
APOS

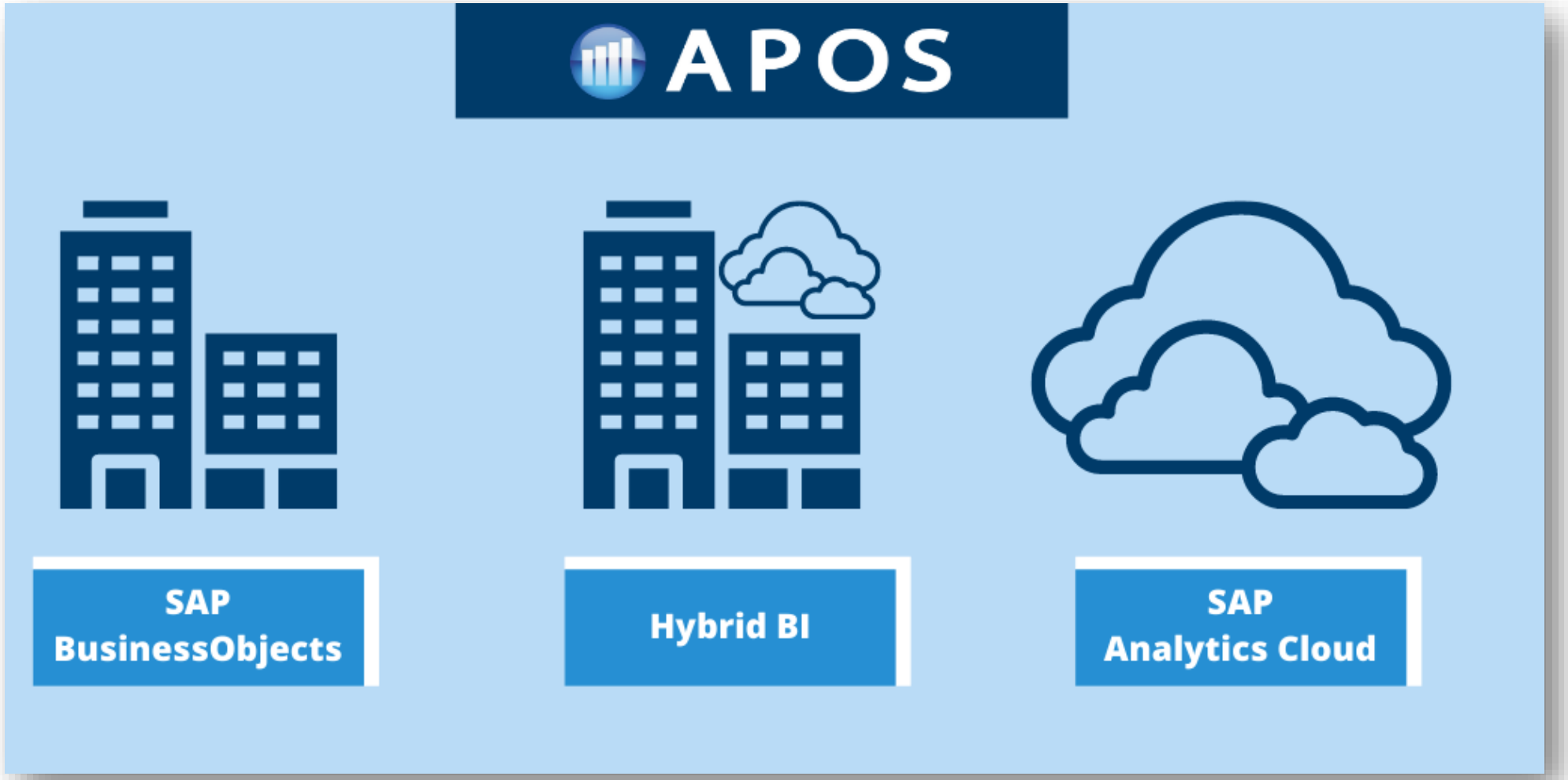
**FRED WALTHER**

Senior Solution Consultant
APOS

# Who is APOS?

- Formed in 1992
- Enabling BI platform management, administration, migration, governance and compliance
- Simplifying, automating, extending SAP BusinessObjects and SAP Analytics Cloud
- Strategic SDK development and consulting
- Hundreds of customers globally

SAP Partner


APOS
SAP BusinessObjects
Hybrid BI
SAP Analytics Cloud

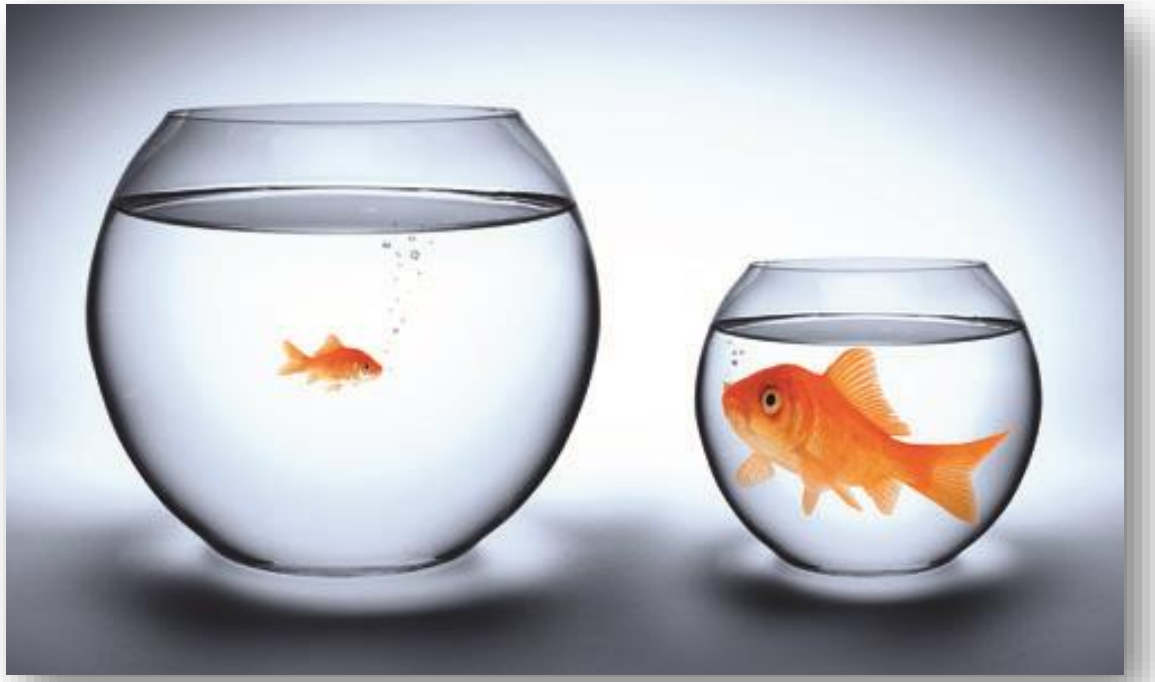
# HOUSEKEEPING

You will have access to the slides via email

You will get the recording within 24 hours

Tell us how we did in the survey

# Right-Sizing

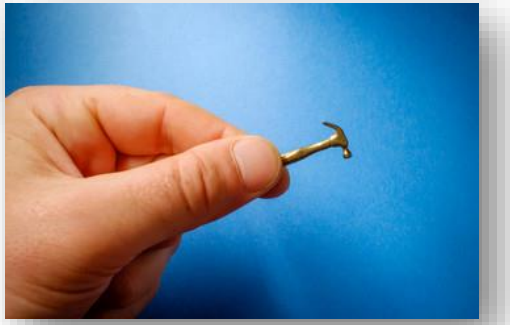


Rightsizing vs Downsizing

# Right-Size Your BI Environment

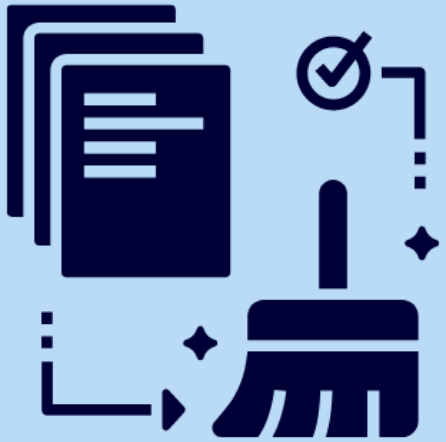
Adapting your SAP BusinessObjects deployment to suit changing needs

**Content** **Users** **Licenses** **Infrastructure**



# What is Your Next Step?

| | | |
|---|---|---|
| Upgrade/ Migration | Move to Cloud server deployment | Consolidation of deployments |
| Expanding to SAP Analytics Cloud | Corporate restructuring | Corporate merger or acquisition |
| Hardware infrastructure upgrade | Moving use cases to another BI platform | Expanding to more business units |



# Right-size your SAP BusinessObjects Environment

**Fred Walther**
Senior Solution Consultant
APOS

# Right-Size Your BI Environment – 3 Steps

- Rationalize
- Reduce
- Restructure

# Right-Size Your BI Environment

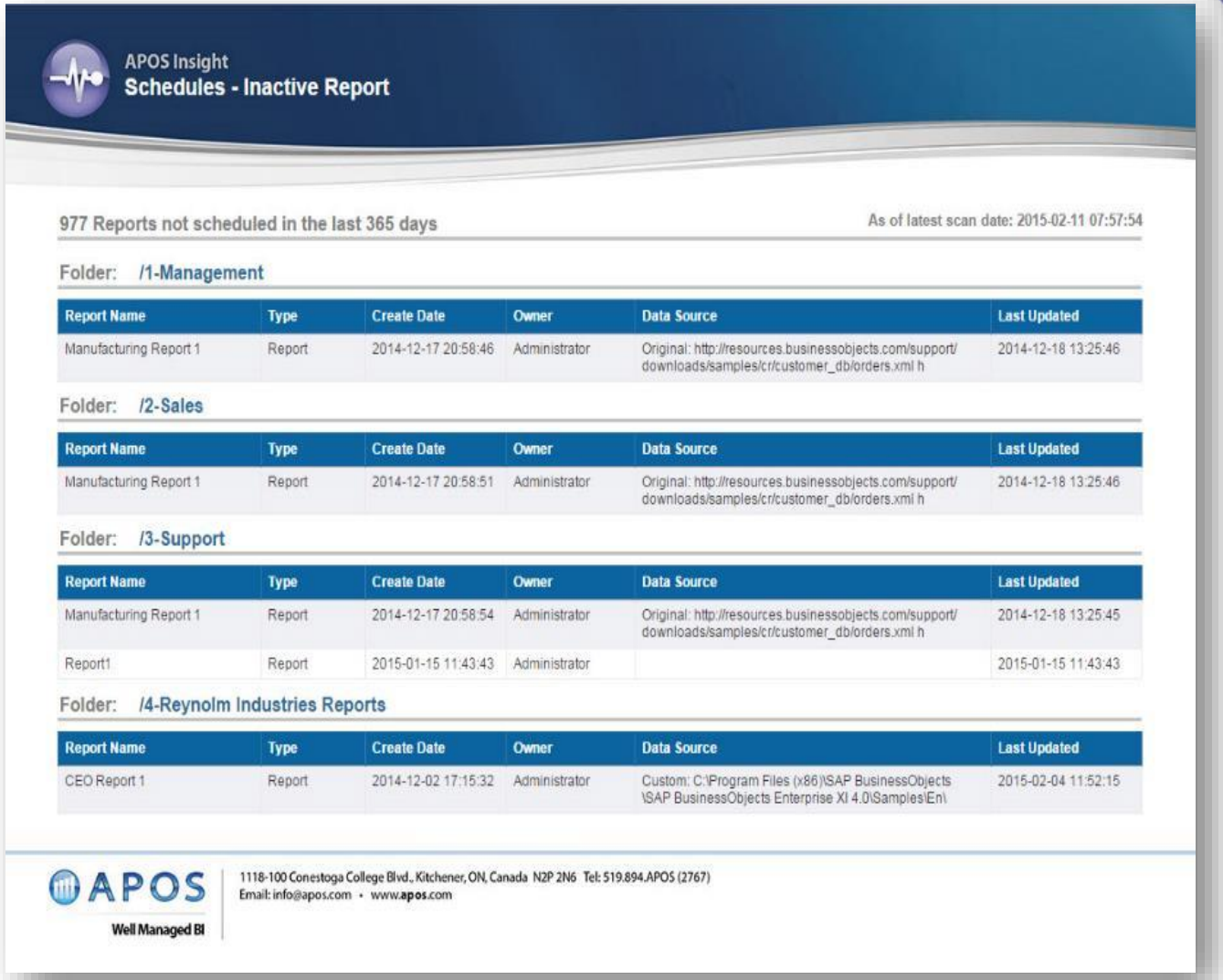
## Rationalize

Assessing what is necessary and what is unnecessary:

- Content
- Users
- Licenses
- Infrastructure

# Rationalize – Content

- What Reports are not being used?
- What Schedules/Instances are not relevant anymore?



APOS Insight
Schedules - Inactive Report

977 Reports not scheduled in the last 365 days

As of latest scan date: 2015-02-11 07:57:54

Folder: /1-Management

| Report Name | Type | Create Date | Owner | Data Source | Last Updated |
|---|---|---|---|---|---|
| Manufacturing Report 1 | Report | 2014-12-17 20:58:46 | Administrator | Original: http://resources.businessobjects.com/support/downloads/samples/cr/customer_db/orders.xml h | 2014-12-18 13:25:46 |

Folder: /2-Sales

| Report Name | Type | Create Date | Owner | Data Source | Last Updated |
|---|---|---|---|---|---|
| Manufacturing Report 1 | Report | 2014-12-17 20:58:51 | Administrator | Original: http://resources.businessobjects.com/support/downloads/samples/cr/customer_db/orders.xml h | 2014-12-18 13:25:46 |

Folder: /3-Support

| Report Name | Type | Create Date | Owner | Data Source | Last Updated |
|---|---|---|---|---|---|
| Manufacturing Report 1 | Report | 2014-12-17 20:58:54 | Administrator | Original: http://resources.businessobjects.com/support/downloads/samples/cr/customer_db/orders.xml h | 2014-12-18 13:25:45 |
| Report1 | Report | 2015-01-15 11:43:43 | Administrator | | 2015-01-15 11:43:43 |

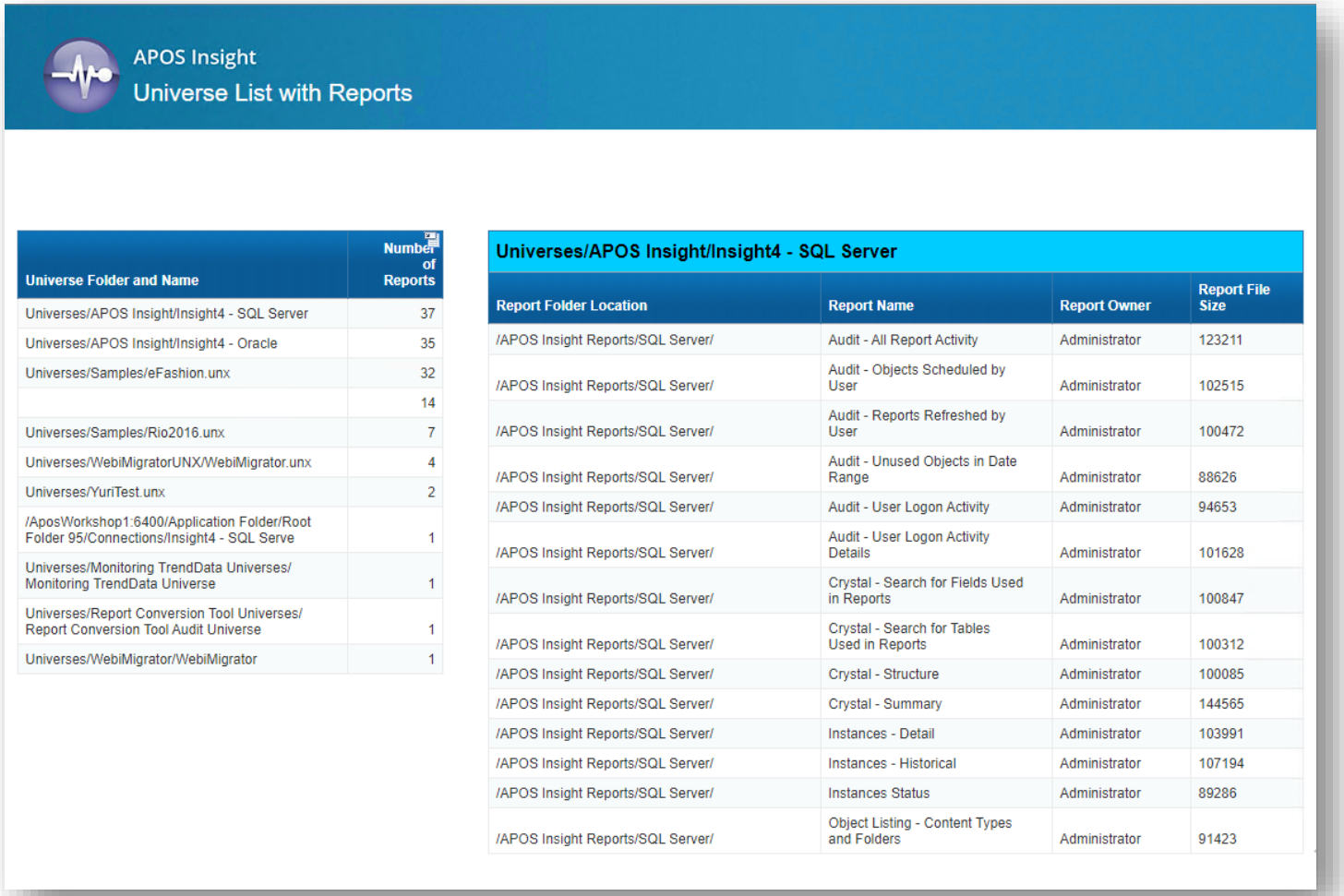
Folder: /4-Reynolm Industries Reports

| Report Name | Type | Create Date | Owner | Data Source | Last Updated |
|---|---|---|---|---|---|
| CEO Report 1 | Report | 2014-12-02 17:15:32 | Administrator | Custom: C:\Program Files (x86)\SAP BusinessObjects \SAP BusinessObjects Enterprise XI 4.0\Samples\En\ | 2015-02-04 11:52:15 |

APOS
Well Managed BI

1118-100 Conestoga College Blvd., Kitchener, ON, Canada N2P 2N6 Tel: 519.894.APOS (2767)
Email: info@apos.com • www.apos.com

# Rationalize – Content



APOS Insight
Universe List with Reports

| Universe Folder and Name | Number of Reports |
|---|---|
| Universes/APOS Insight/Insight4 - SQL Server | 37 |
| Universes/APOS Insight/Insight4 - Oracle | 35 |
| Universes/Samples/eFashion.unx | 32 |
| | 14 |
| Universes/Samples/Rio2016.unx | 7 |
| Universes/WebiMigratorUNX/WebiMigrator.unx | 4 |
| Universes/YuriTest.unx | 2 |
| /AposWorkshop1:6400/Application Folder/Root Folder 95/Connections/Insight4 - SQL Serve | 1 |
| Universes/Monitoring TrendData Universes/ Monitoring TrendData Universe | 1 |
| Universes/Report Conversion Tool Universes/ Report Conversion Tool Audit Universe | 1 |
| Universes/WebiMigrator/WebiMigrator | 1 |

**Universes/APOS Insight/Insight4 - SQL Server**

| Report Folder Location | Report Name | Report Owner | Report File Size |
|---|---|---|---|
| /APOS Insight Reports/SQL Server/ | Audit - All Report Activity | Administrator | 123211 |
| /APOS Insight Reports/SQL Server/ | Audit - Objects Scheduled by User | Administrator | 102515 |
| /APOS Insight Reports/SQL Server/ | Audit - Reports Refreshed by User | Administrator | 100472 |
| /APOS Insight Reports/SQL Server/ | Audit - Unused Objects in Date Range | Administrator | 88626 |
| /APOS Insight Reports/SQL Server/ | Audit - User Logon Activity | Administrator | 94653 |
| /APOS Insight Reports/SQL Server/ | Audit - User Logon Activity Details | Administrator | 101628 |
| /APOS Insight Reports/SQL Server/ | Crystal - Search for Fields Used in Reports | Administrator | 100847 |
| /APOS Insight Reports/SQL Server/ | Crystal - Search for Tables Used in Reports | Administrator | 100312 |
| /APOS Insight Reports/SQL Server/ | Crystal - Structure | Administrator | 100085 |
| /APOS Insight Reports/SQL Server/ | Crystal - Summary | Administrator | 144565 |
| /APOS Insight Reports/SQL Server/ | Instances - Detail | Administrator | 103991 |
| /APOS Insight Reports/SQL Server/ | Instances - Historical | Administrator | 107194 |
| /APOS Insight Reports/SQL Server/ | Instances Status | Administrator | 89286 |
| /APOS Insight Reports/SQL Server/ | Object Listing - Content Types and Folders | Administrator | 91423 |

- What Universes do I have?
- What are my most used Universes?
- What Universes are not active?

# Rationalize – Users/Groups

- Are there Users that no longer use BOE that exist in BOE?

APOS Insight
User Logon Activity

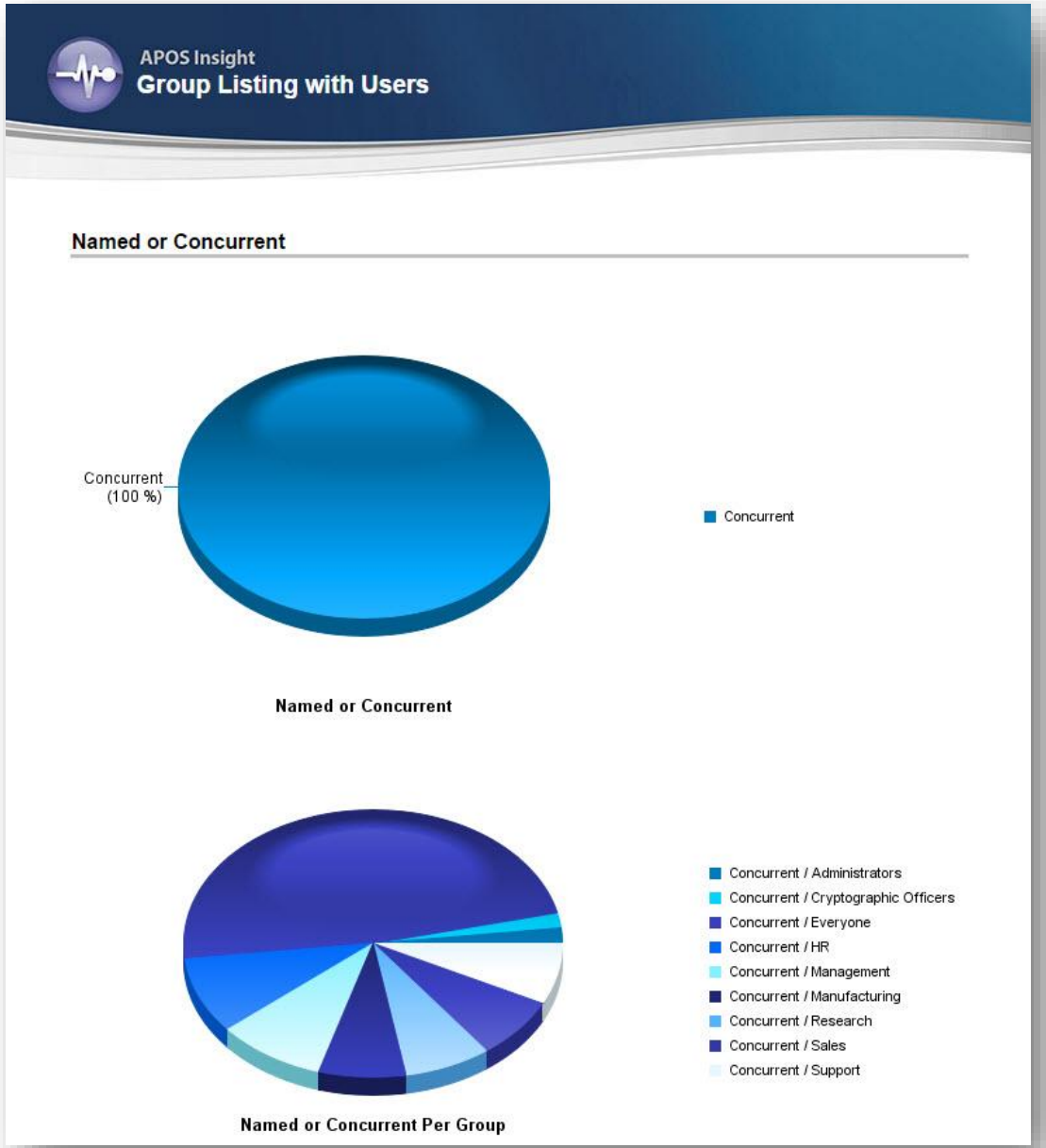
Date Range: 11/1/2012 12:00:00 AM to 2/20/2019 12:00:00 AM

System: ProductionAG

| User Name | Last Logon | Logon Count |
|---|---|---|
| | 1/30/2019 7:29:39 PM | 1,716 |
| Administrator | 2/4/2019 1:58:26 AM | 215,816 |
| AG-08R2 | 11/23/2018 1:48:40 PM | 6 |
| APOS Distribution Server | 12/12/2018 8:29:02 AM | 1,766,678 |
| Harold | 1/18/2019 9:10:45 PM | 13 |
| Harry | 1/30/2018 3:05:59 PM | 28 |
| InsightMon | 7/12/2018 1:21:40 PM | 7 |
| Jimbo | 1/29/2018 4:47:37 PM | 77 |
| Sarah | 2/1/2019 6:51:54 PM | 352 |
| SYSTEM ACCOUNT | 1/16/2019 2:10:16 PM | 300 |

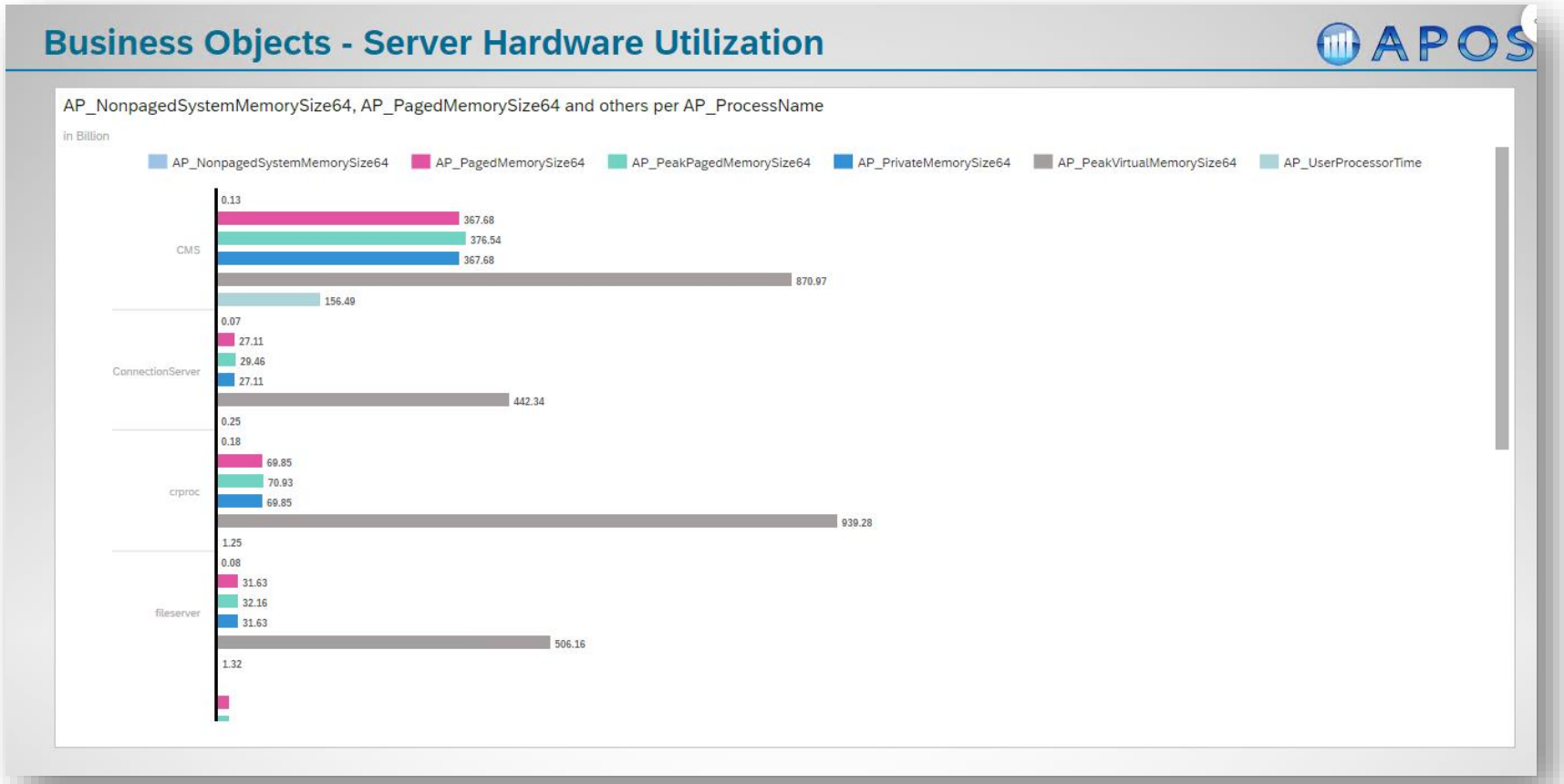
# Rationalize – Users/Groups

- How many Groups do I have?
- Can I reduce the amount of Groups I have?
- Can I consolidate replicated Groups?



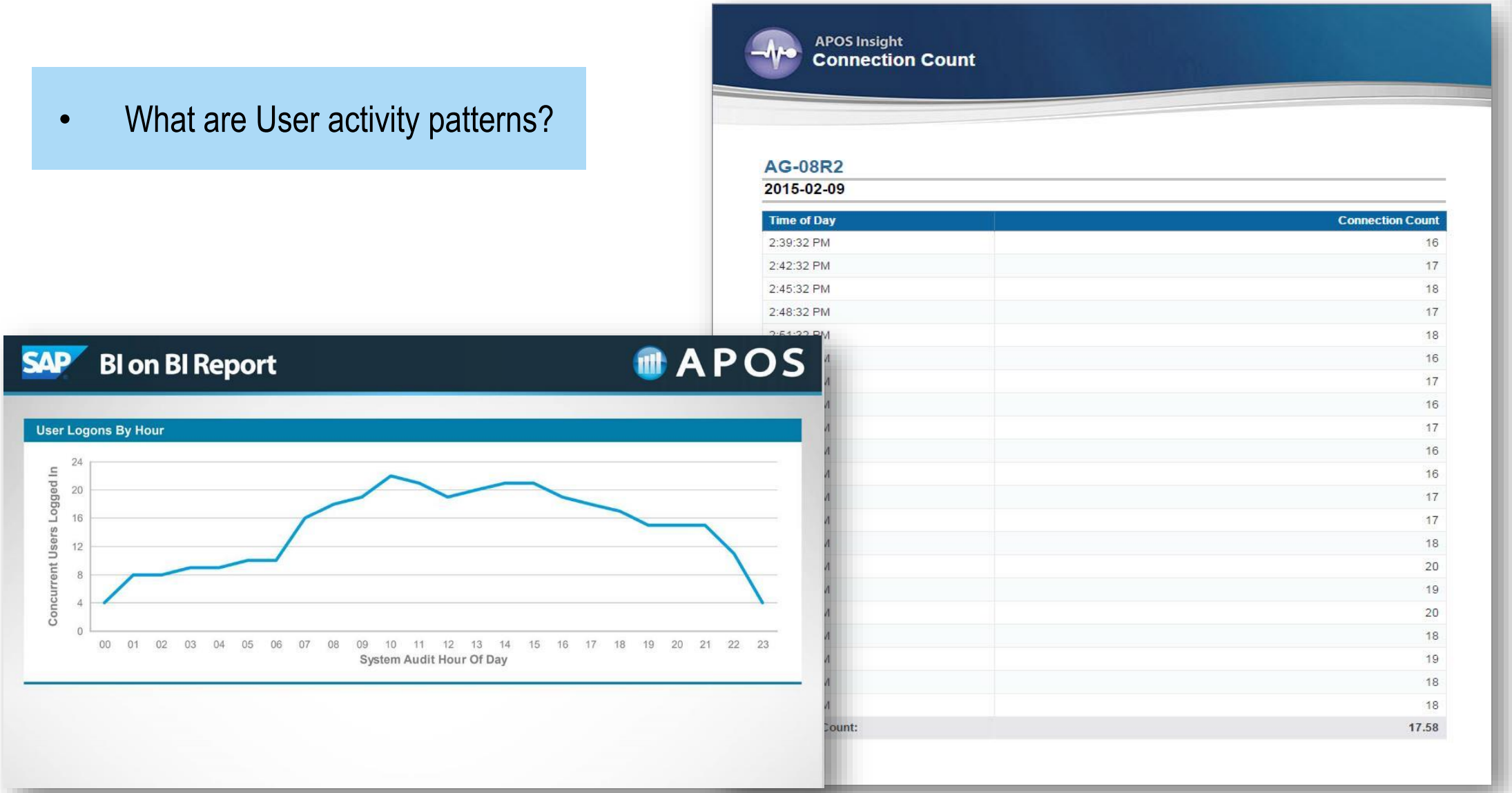
# Rationalize – Infrastructure

- Are my BOE servers under heavy workload?
- Do I need to add more resources to support my infrastructure?



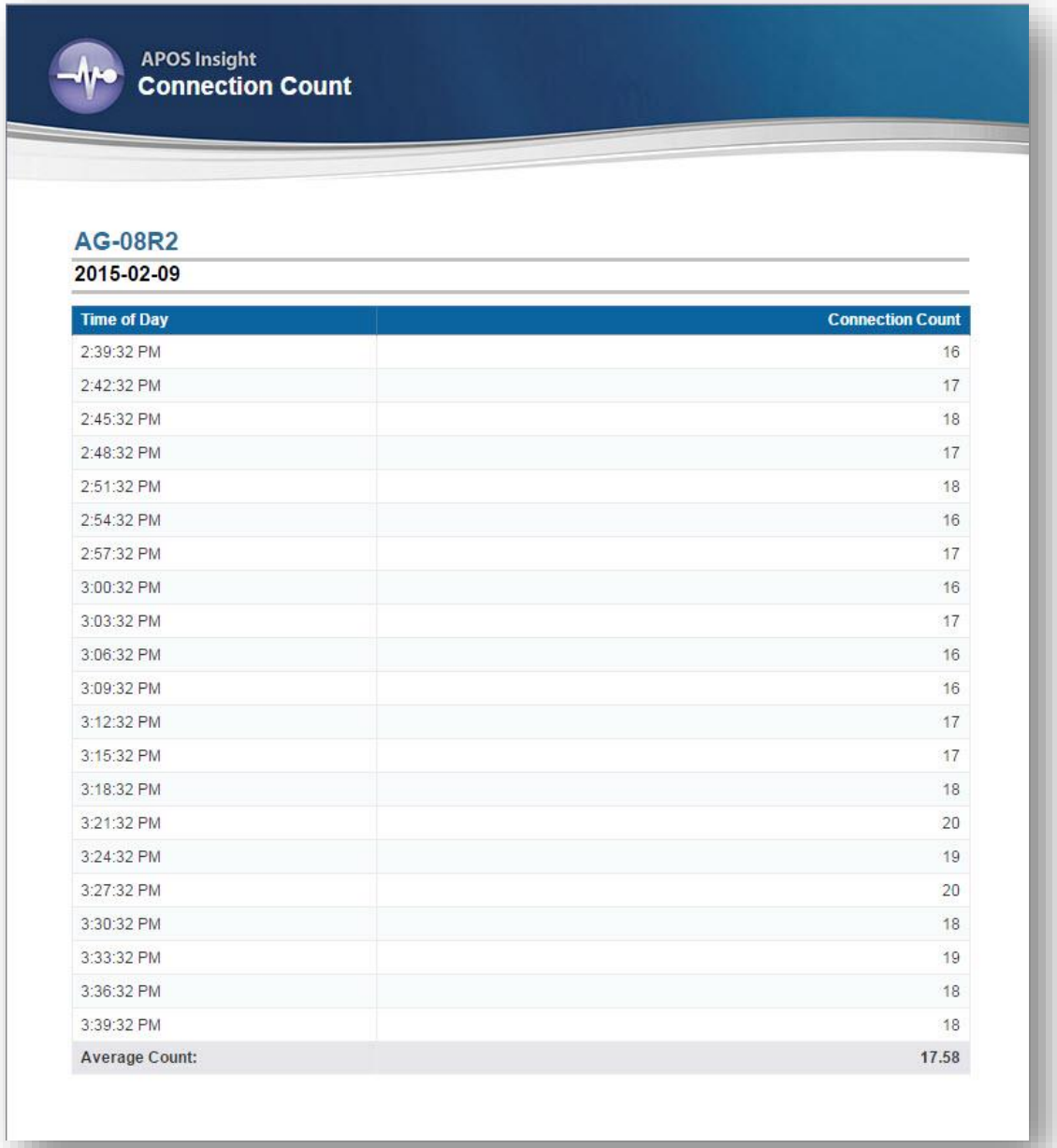
# Rationalize – Licences

- What are User activity patterns?



# Rationalize – Licenses

- What are my average license usage numbers through the day/week/month/year?



APOS Insight
Connection Count

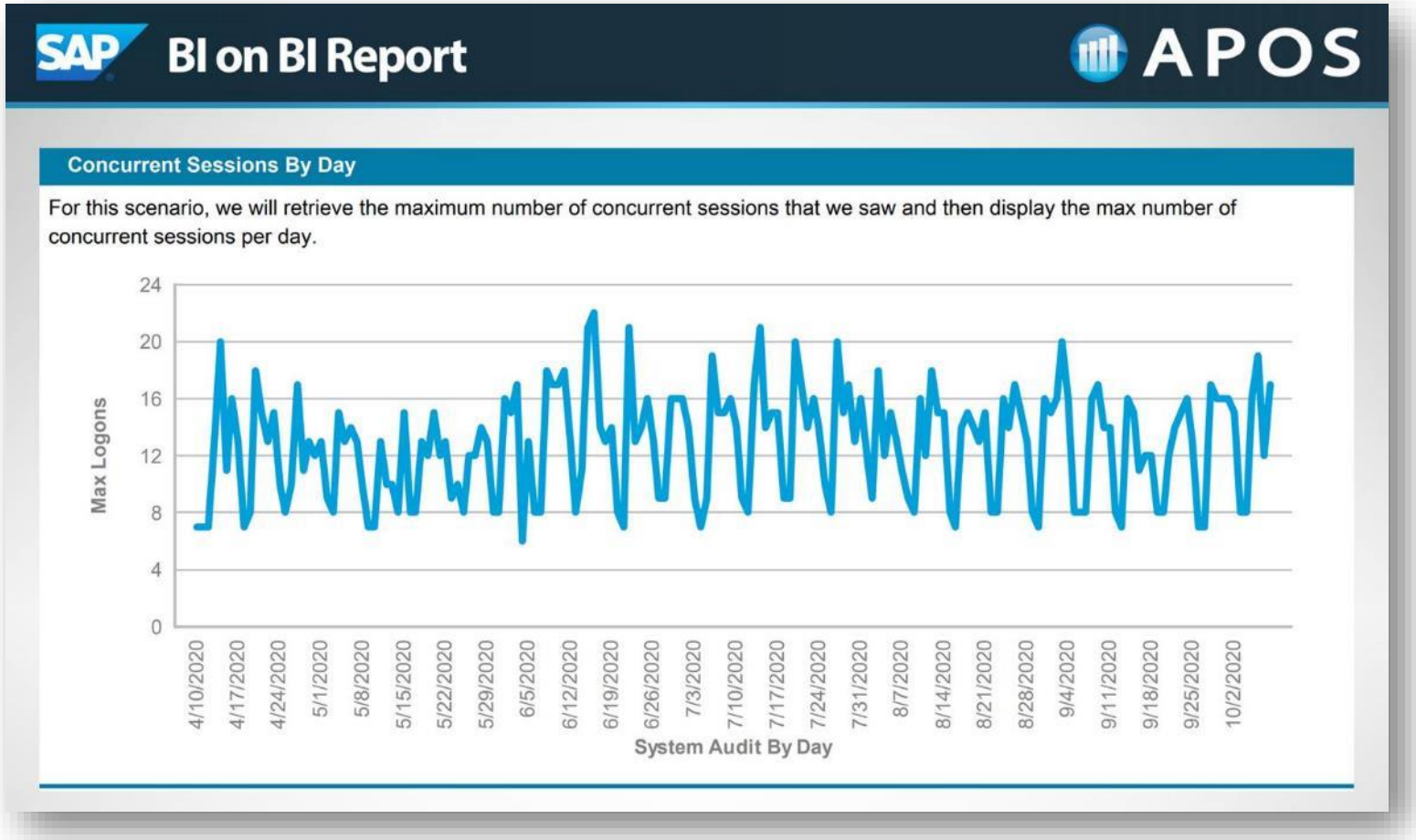
AG-08R2

2015-02-09

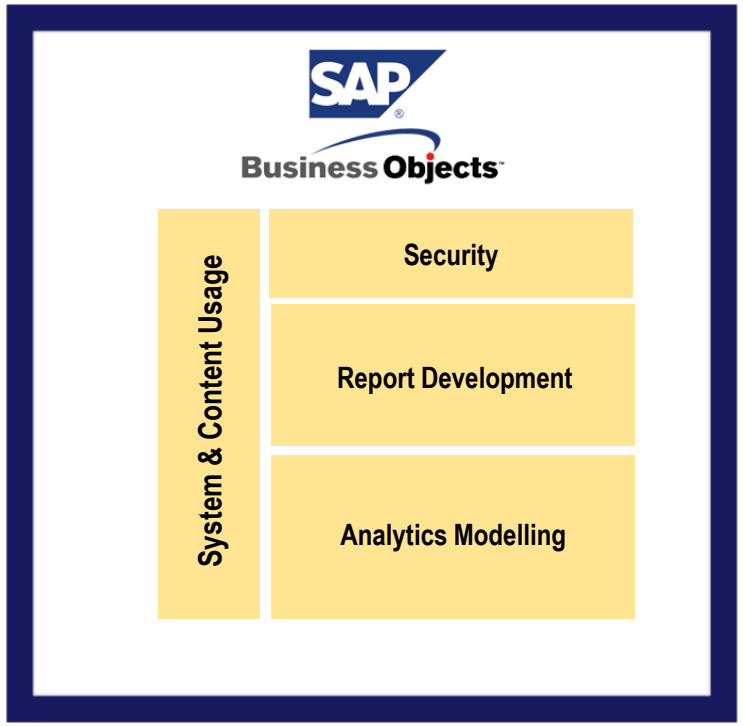
| Time of Day | Connection Count |
|---|---|
| 2:39:32 PM | 16 |
| 2:42:32 PM | 17 |
| 2:45:32 PM | 18 |
| 2:48:32 PM | 17 |
| 2:51:32 PM | 18 |
| 2:54:32 PM | 16 |
| 2:57:32 PM | 17 |
| 3:00:32 PM | 16 |
| 3:03:32 PM | 17 |
| 3:06:32 PM | 16 |
| 3:09:32 PM | 16 |
| 3:12:32 PM | 17 |
| 3:15:32 PM | 17 |
| 3:18:32 PM | 18 |
| 3:21:32 PM | 20 |
| 3:24:32 PM | 19 |
| 3:27:32 PM | 20 |
| 3:30:32 PM | 18 |
| 3:33:32 PM | 19 |
| 3:36:32 PM | 18 |
| 3:39:32 PM | 18 |
| Average Count: | 17.58 |

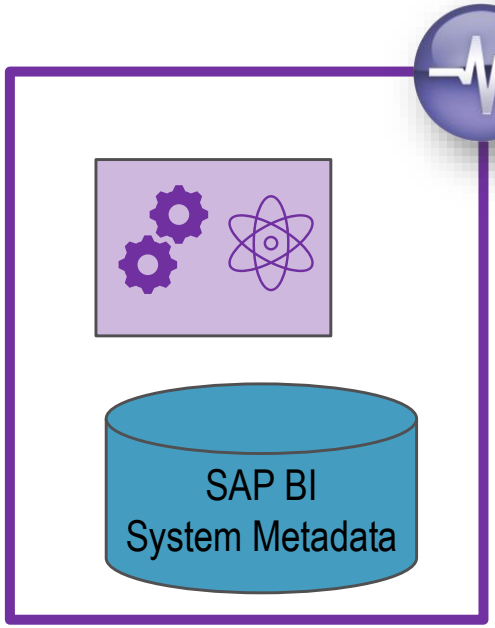
# Rationalize – Licences

- What are concurrent session activity highs and lows?

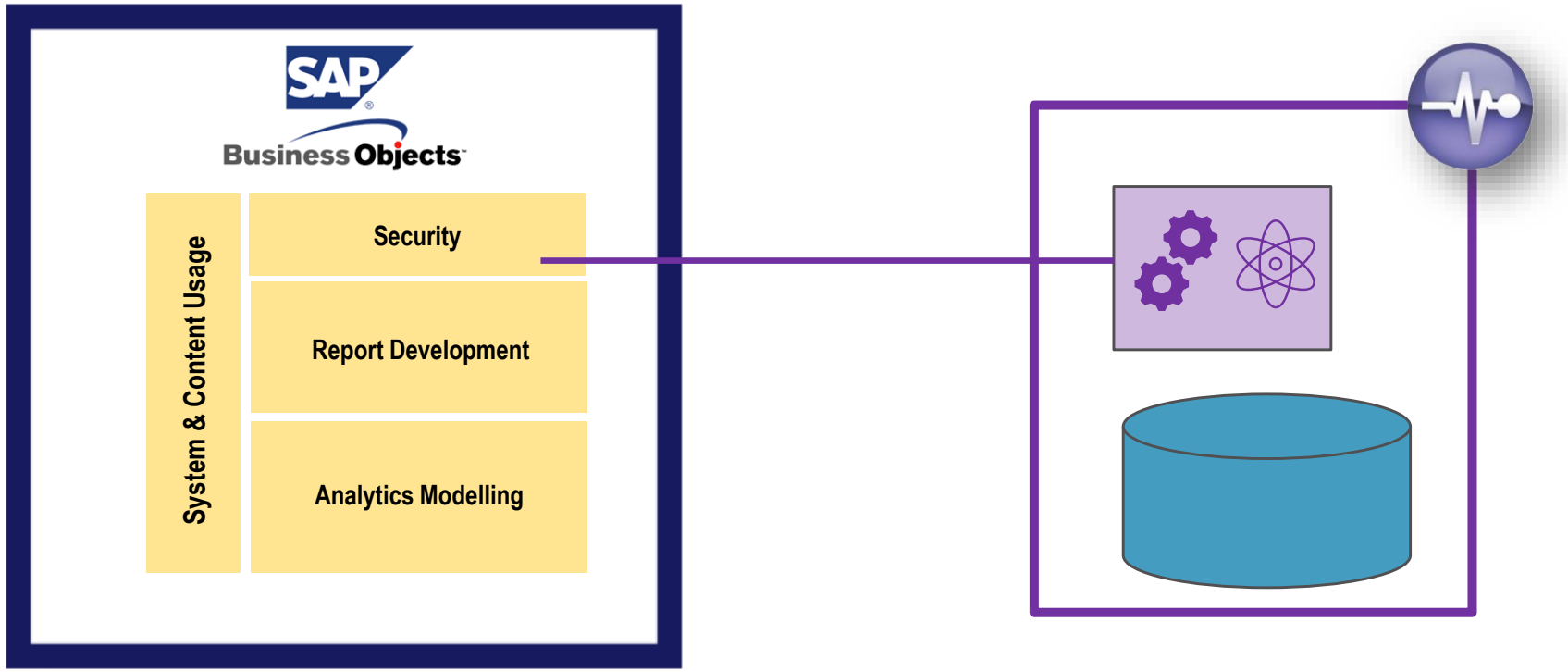


# APOS Insight – SAP BI Knowledge



# APOS Insight – System Metadata Scan



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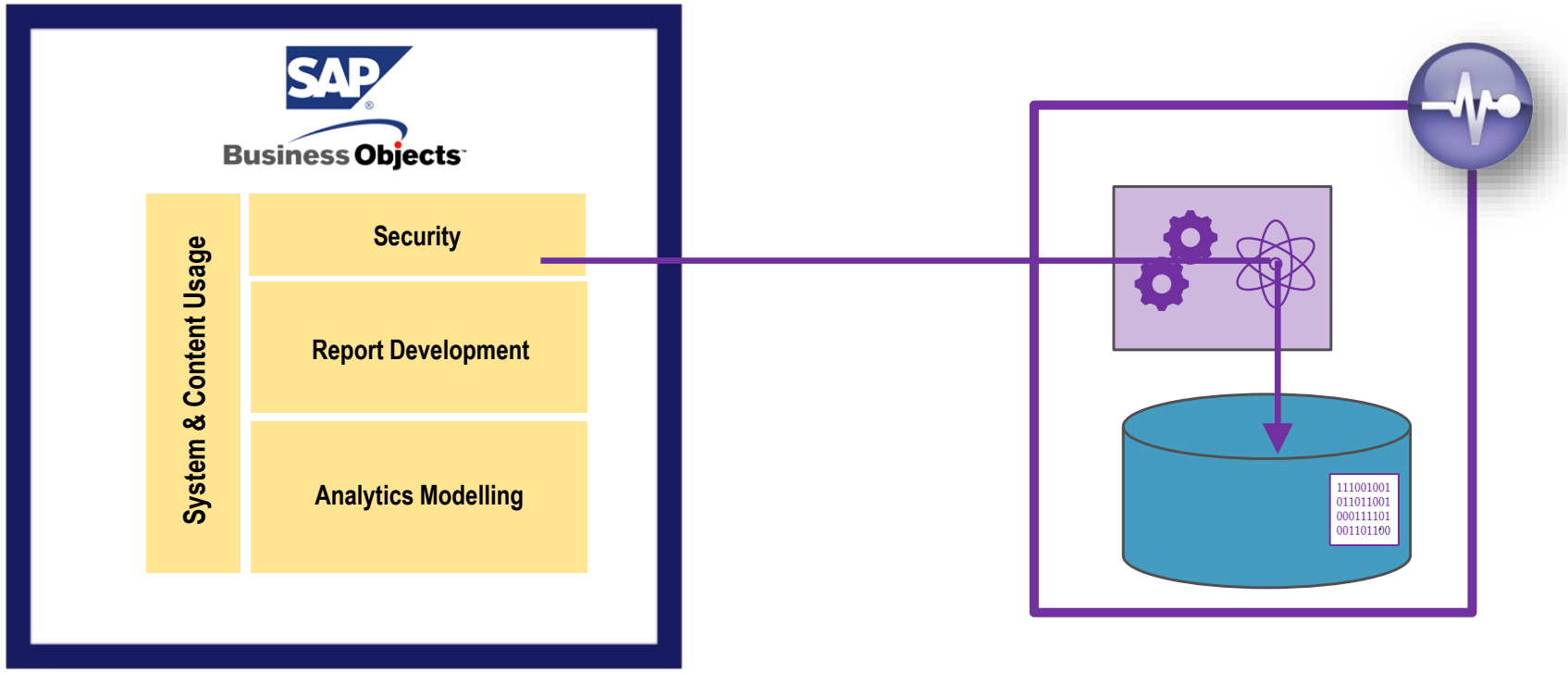

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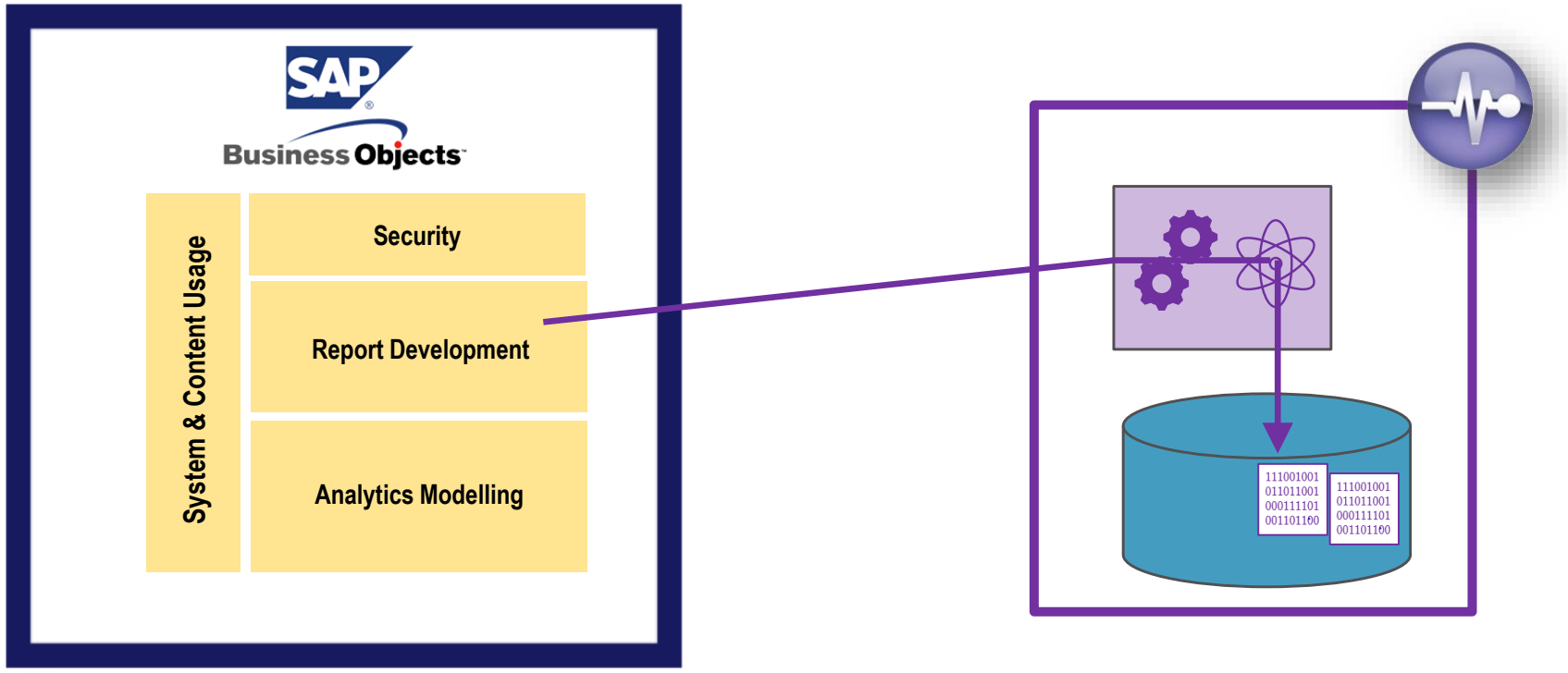

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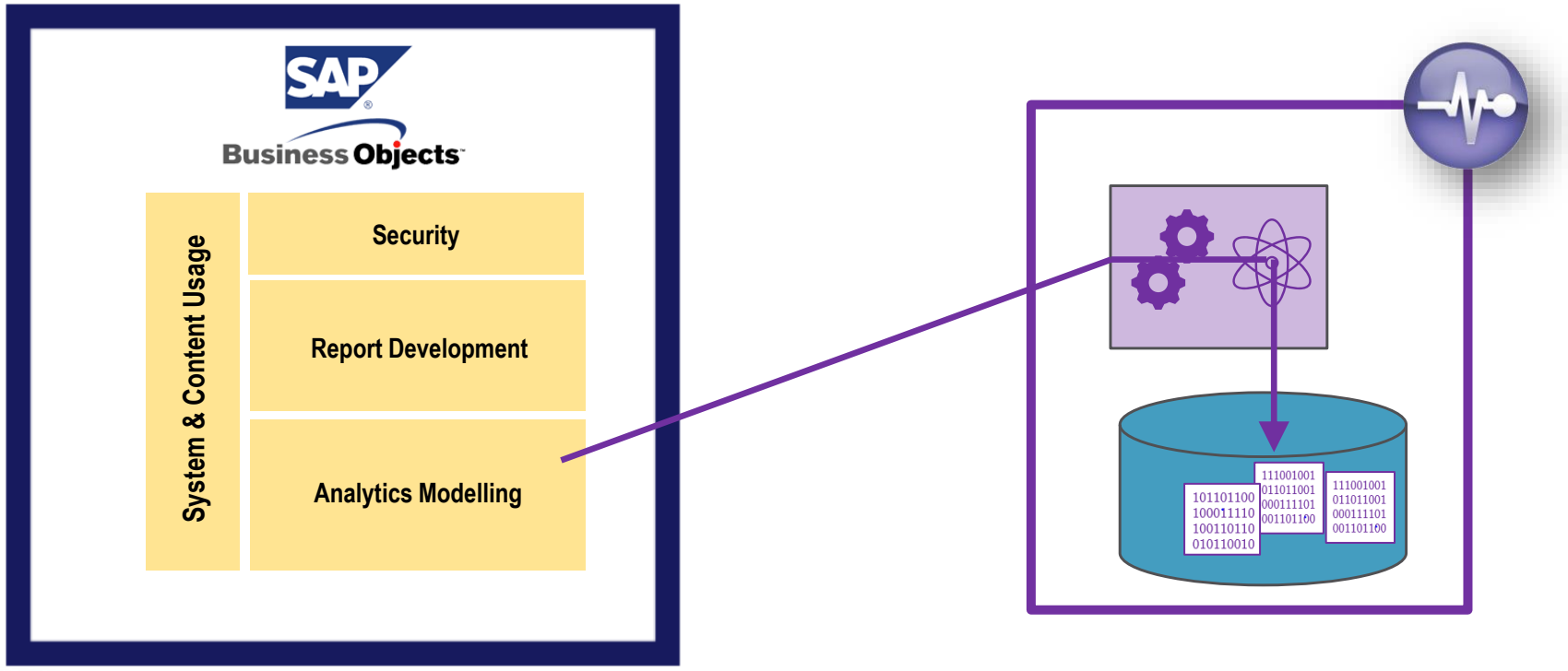

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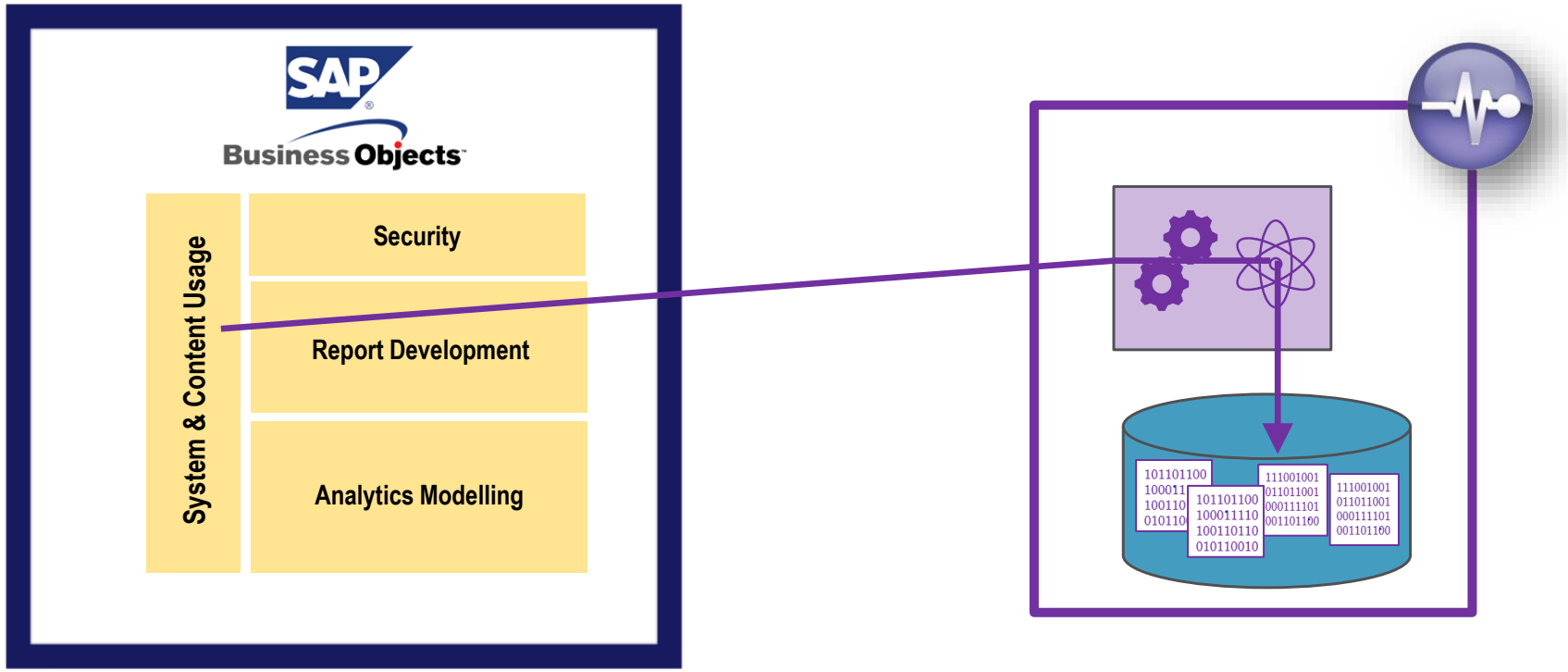
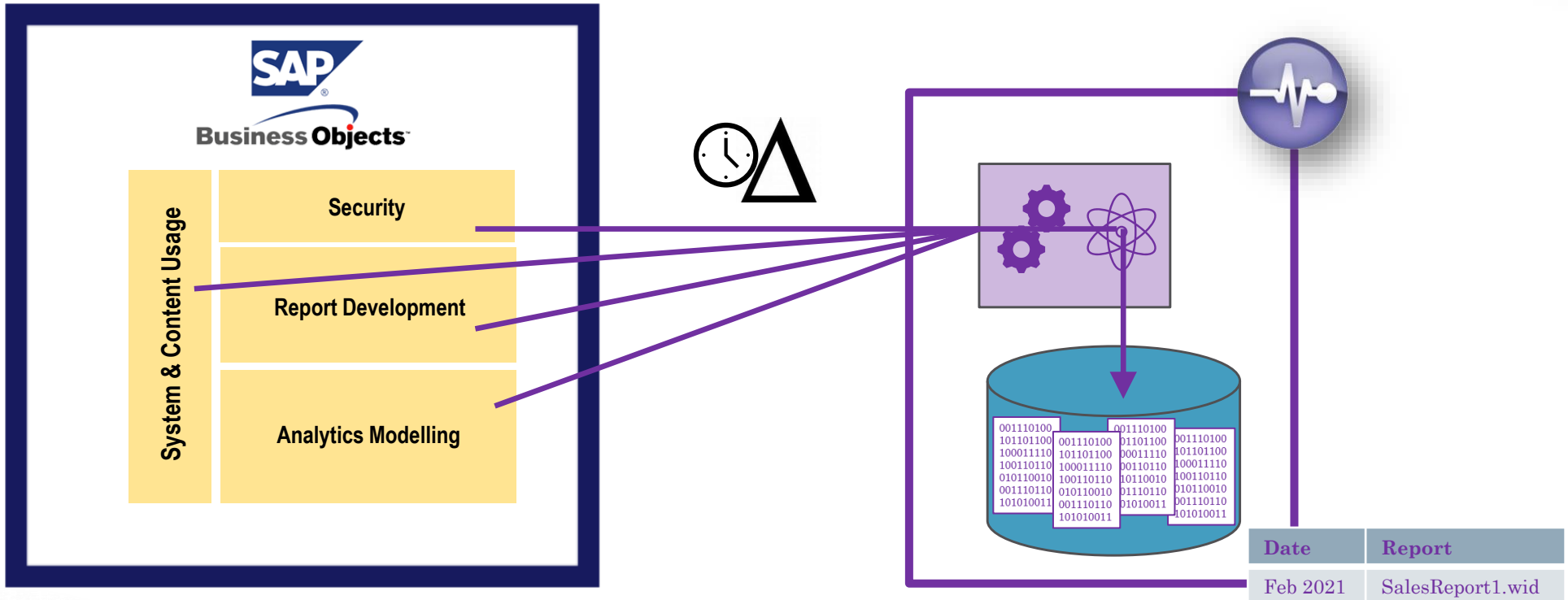


# APOS Insight – System Metadata – Update Scans

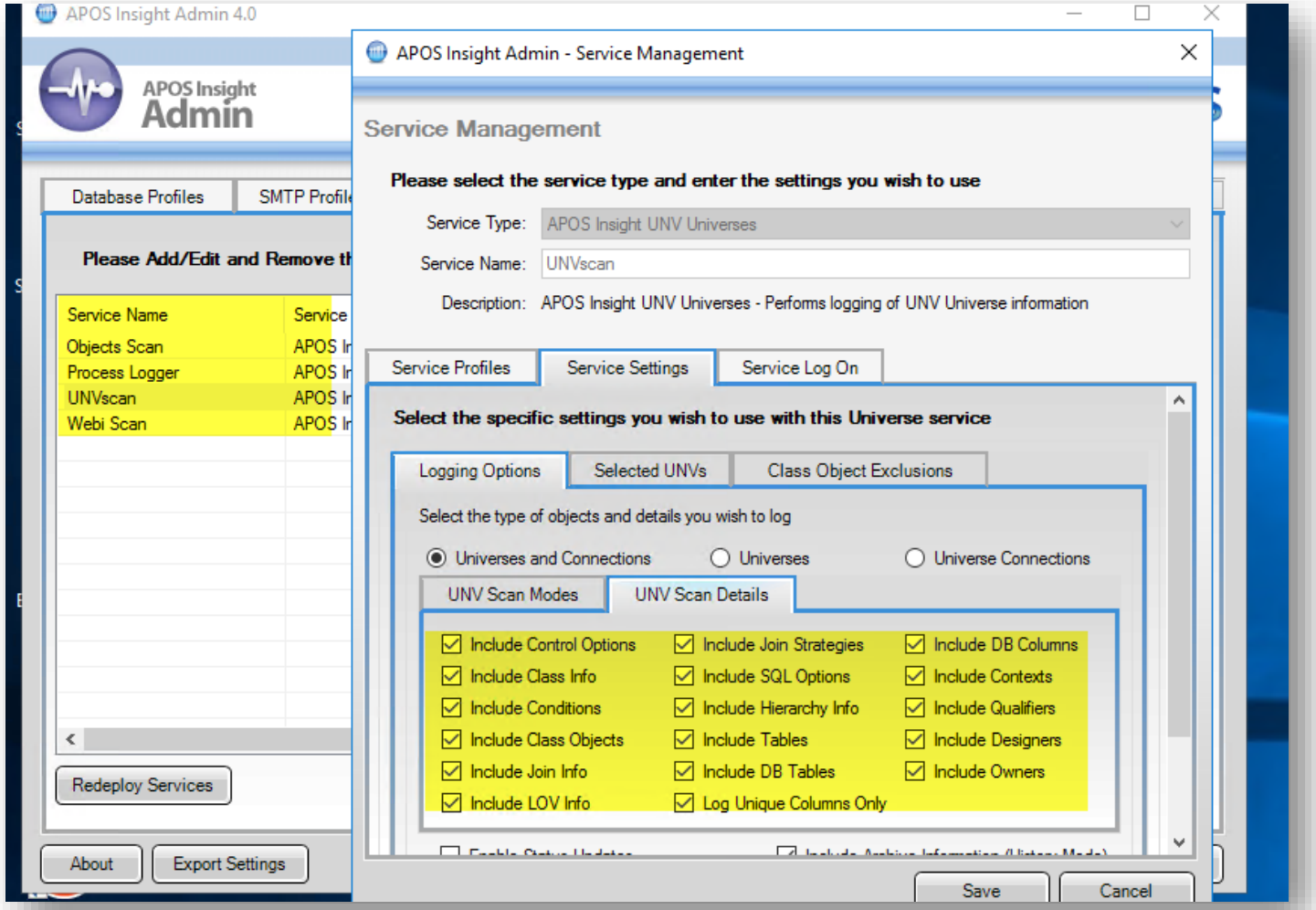



| Date | Report |
|---|---|
| Feb 2021 | SalesReport1.wid |
| Dec 2020 | SalesReport1.wid |
| Oct 2020 | SalesReport1.wid |
| Sep 2020 | SalesReport1.wid |

# APOS Insight – System Analysis

# APOS Insight – screenshot

- Fully configurable APOS Insight Services
- Target in depth data in order to properly rationalize your environment



# Right-Size Your BI Environment

## Reduce

Find and Remove unnecessary elements from system:

- Content
- Users

# Right-Size Your BI Environment

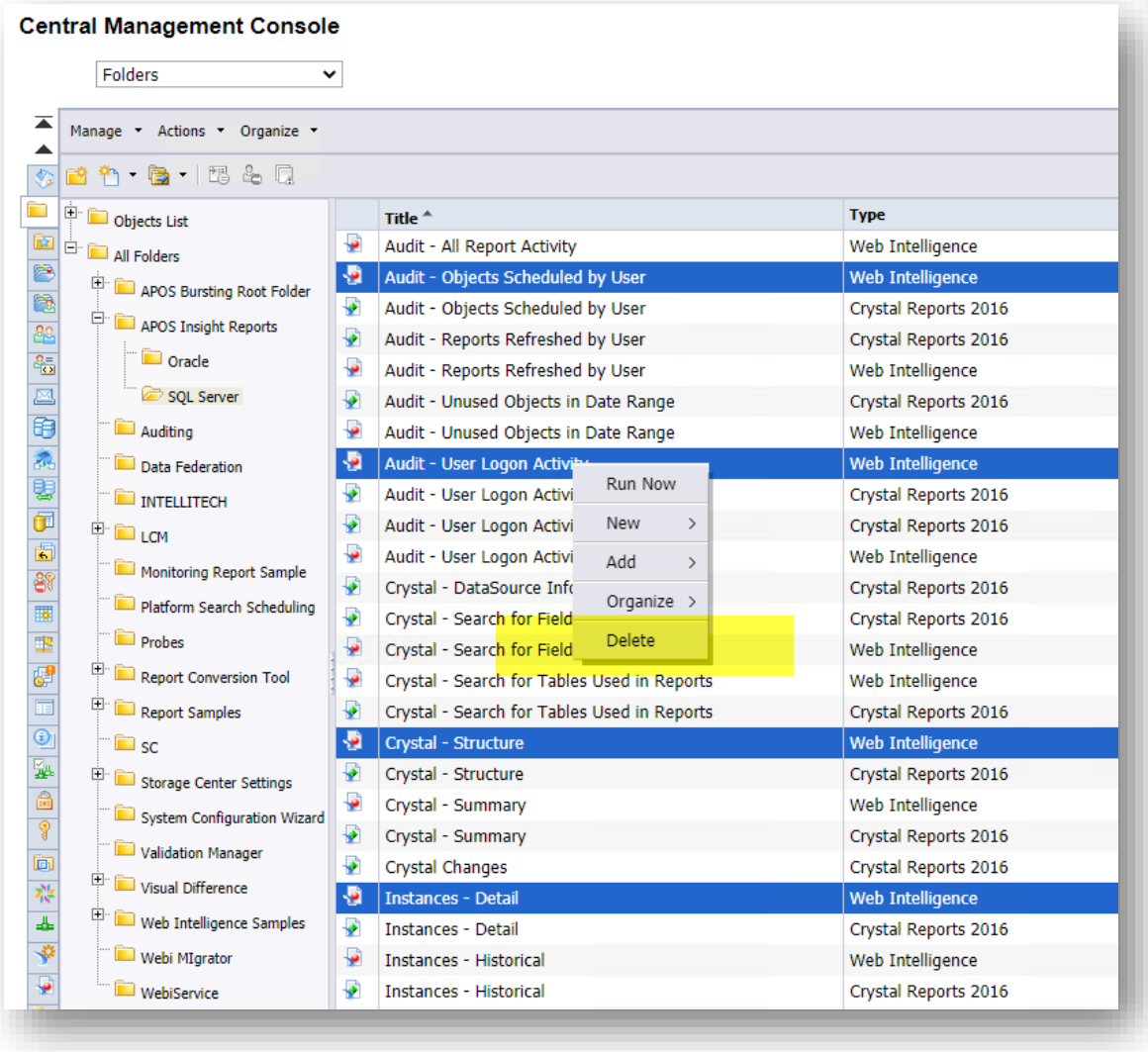
**How to remove unnecessary elements?**

- Manual
  - Delete Reports, Universes
  - Delete Instances
  - Delete Users

# Right-Size Your BI Environment

**How to remove unnecessary elements?**

- Have to manually identify what to remove
- Have to manually remove content folder by folder



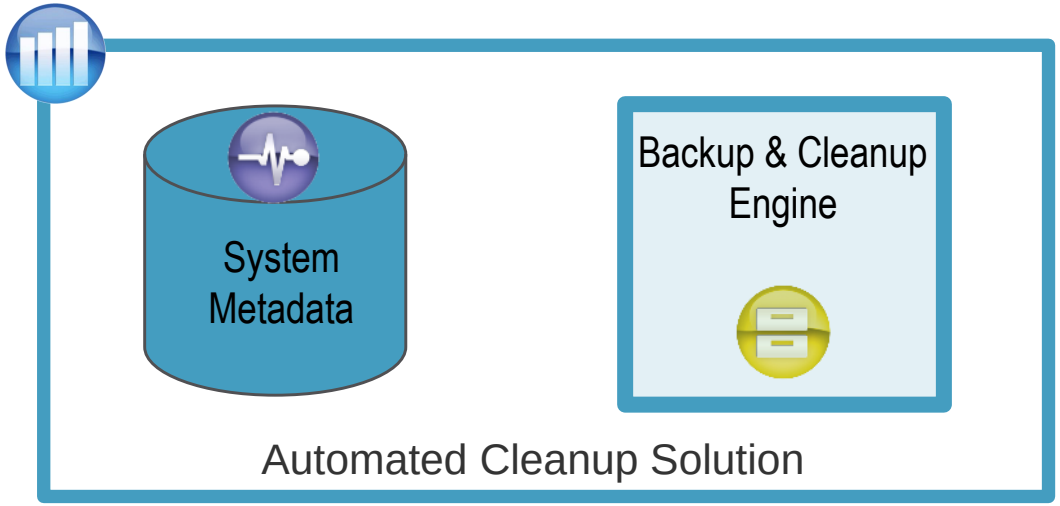
# Right-Size Your BI Environment

**How to remove unnecessary elements?**

- Manual
  - Delete Reports, Universes
  - Delete Instances
  - Delete Users
- Automated
  - Automated Cleanup Solution

# Automated System Clean-Up

# Automated System Clean-Up



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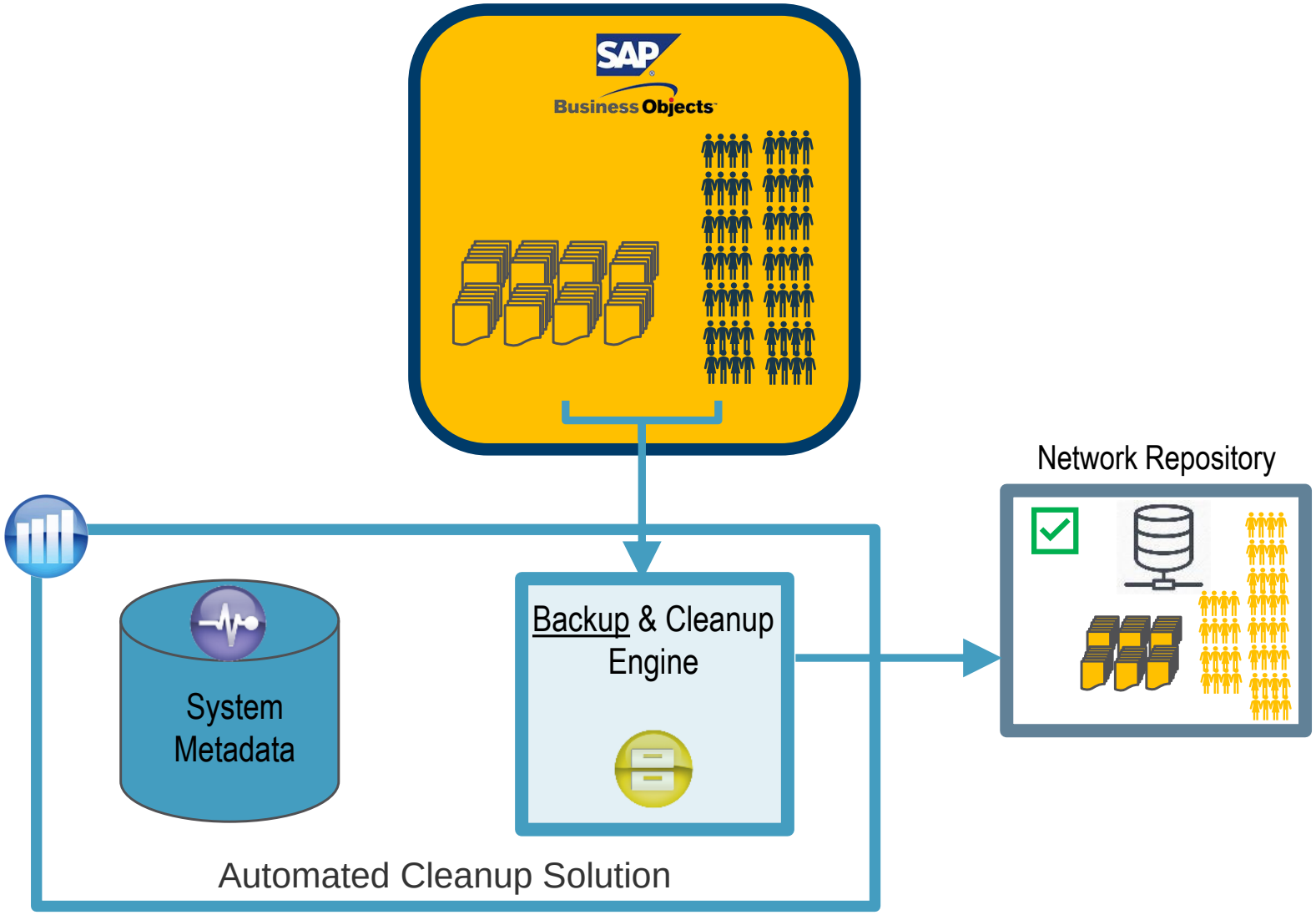

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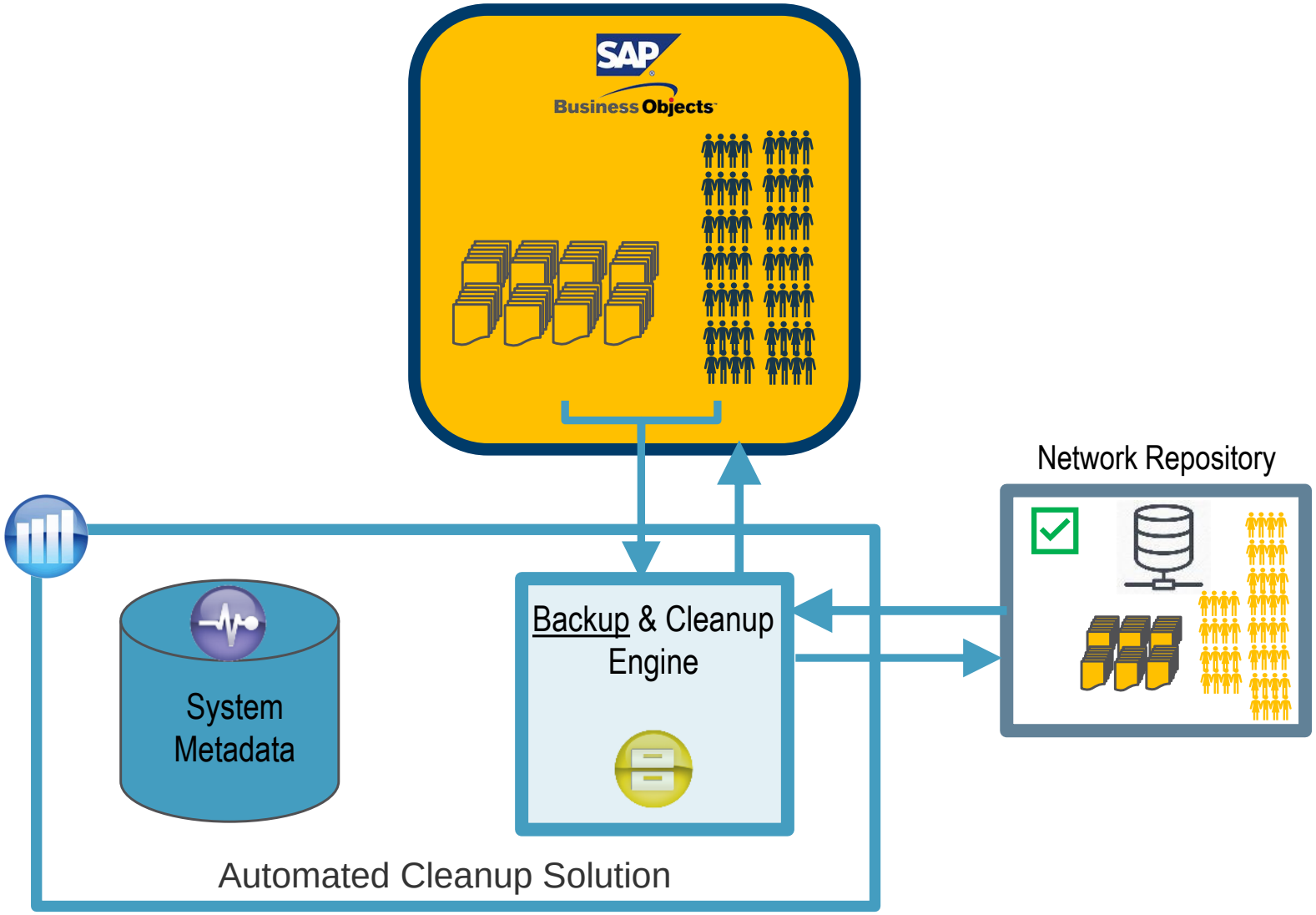

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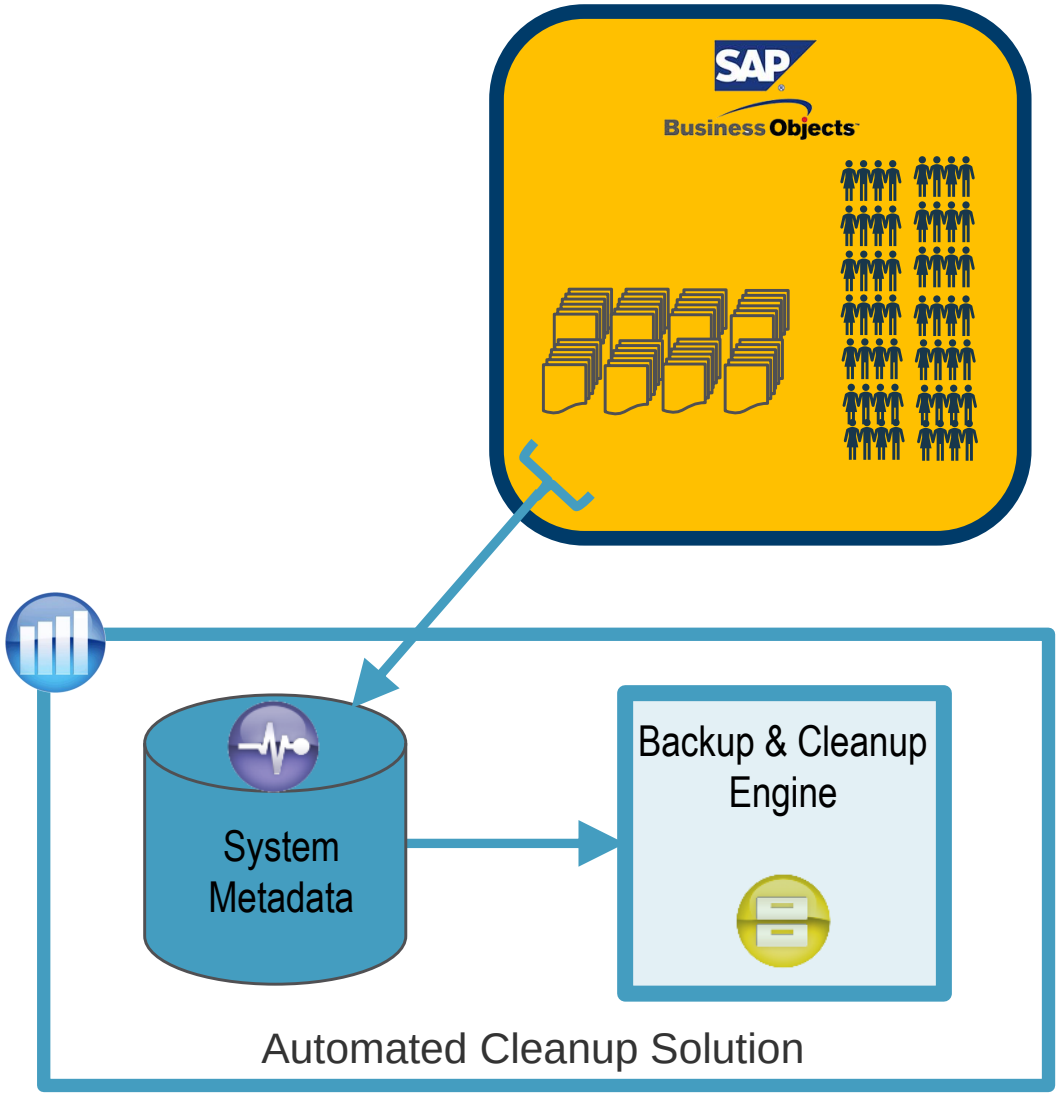

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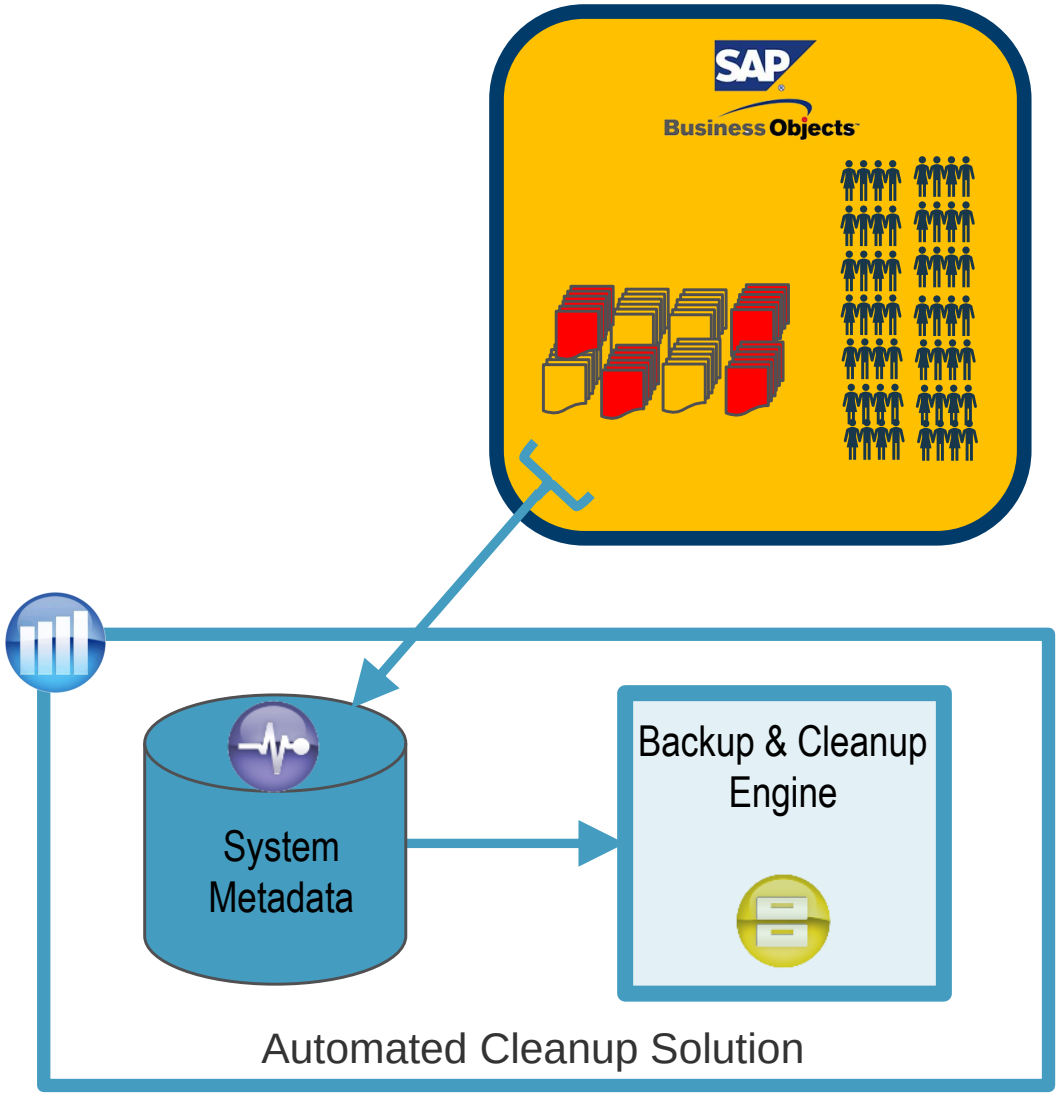

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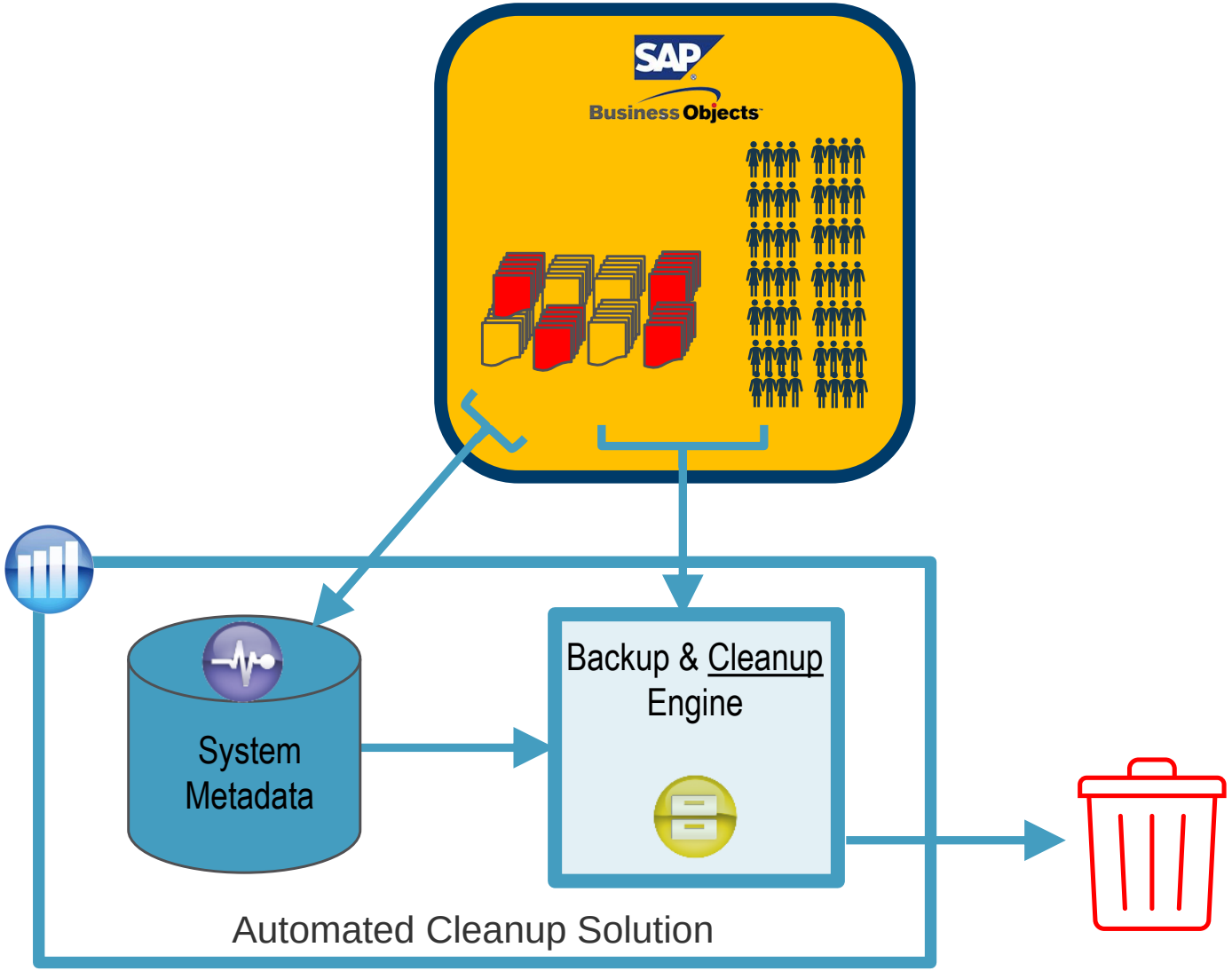

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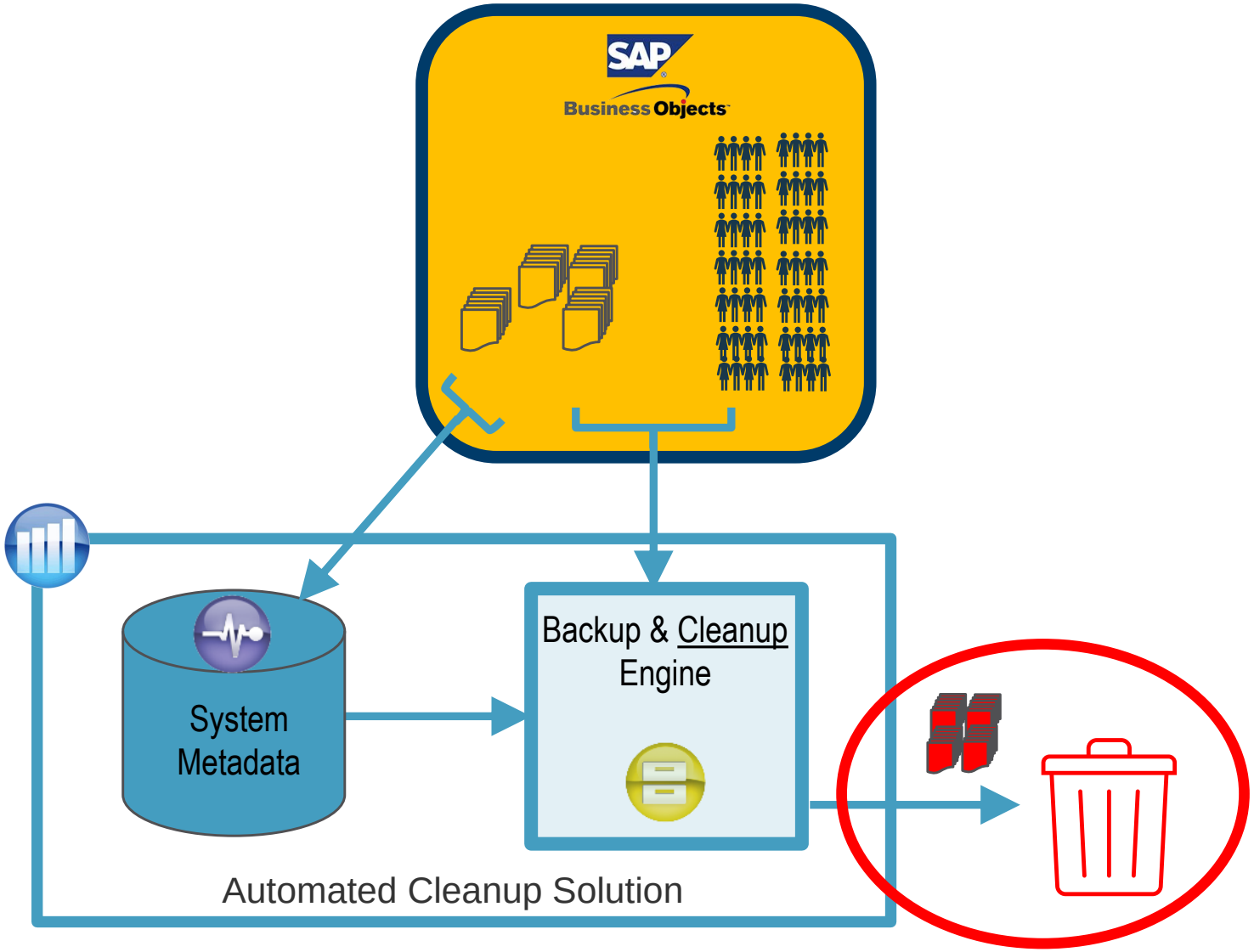

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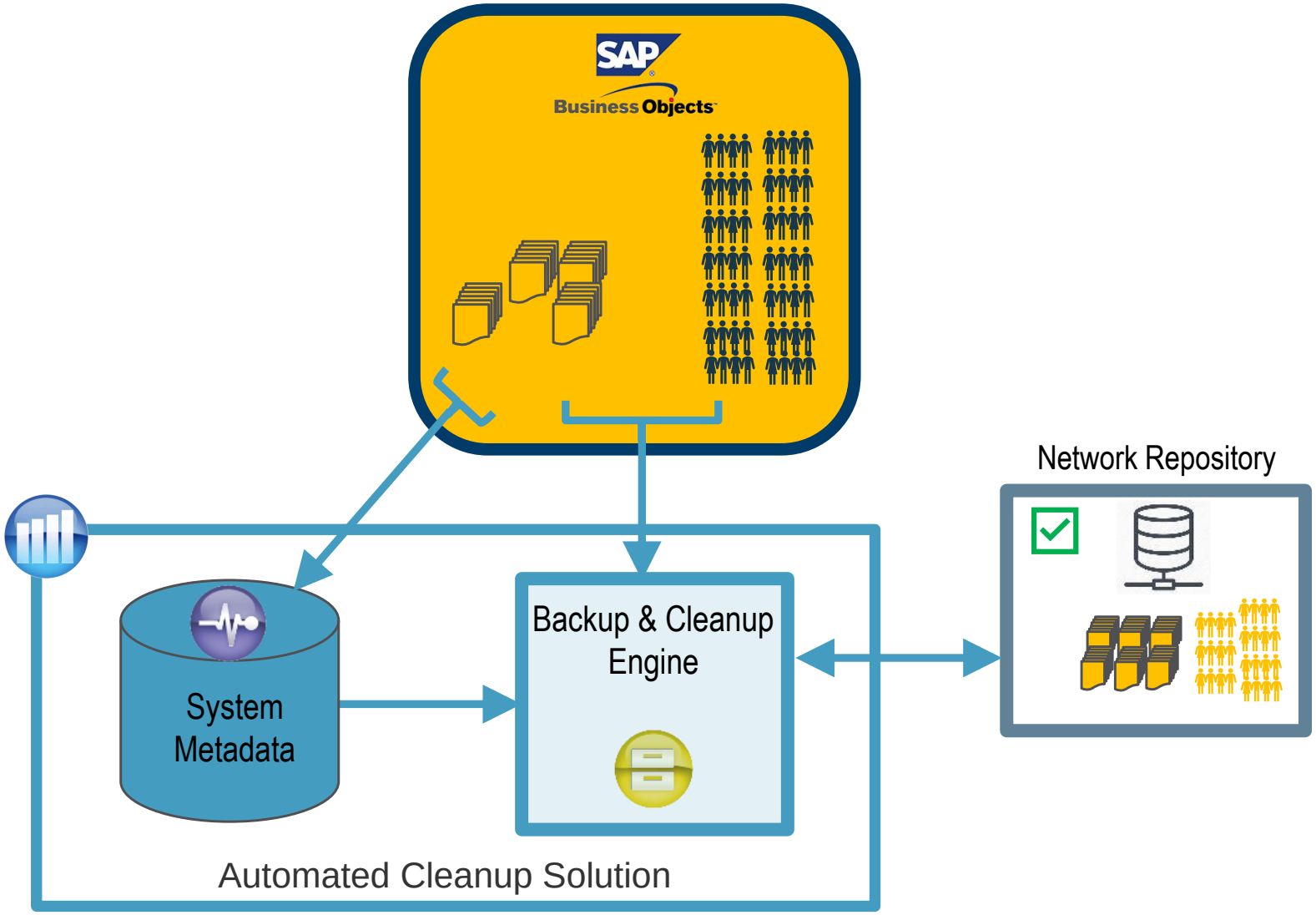
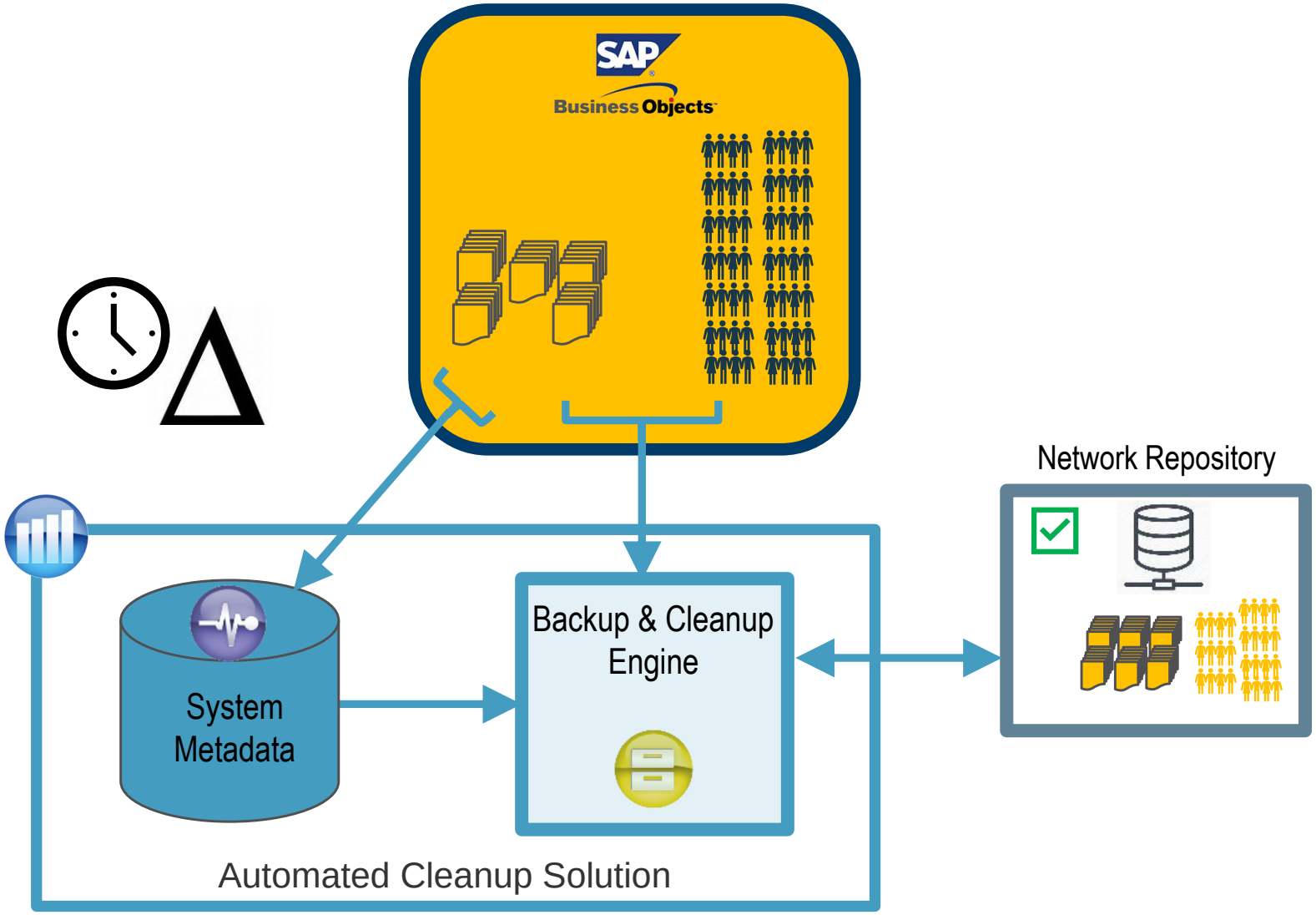
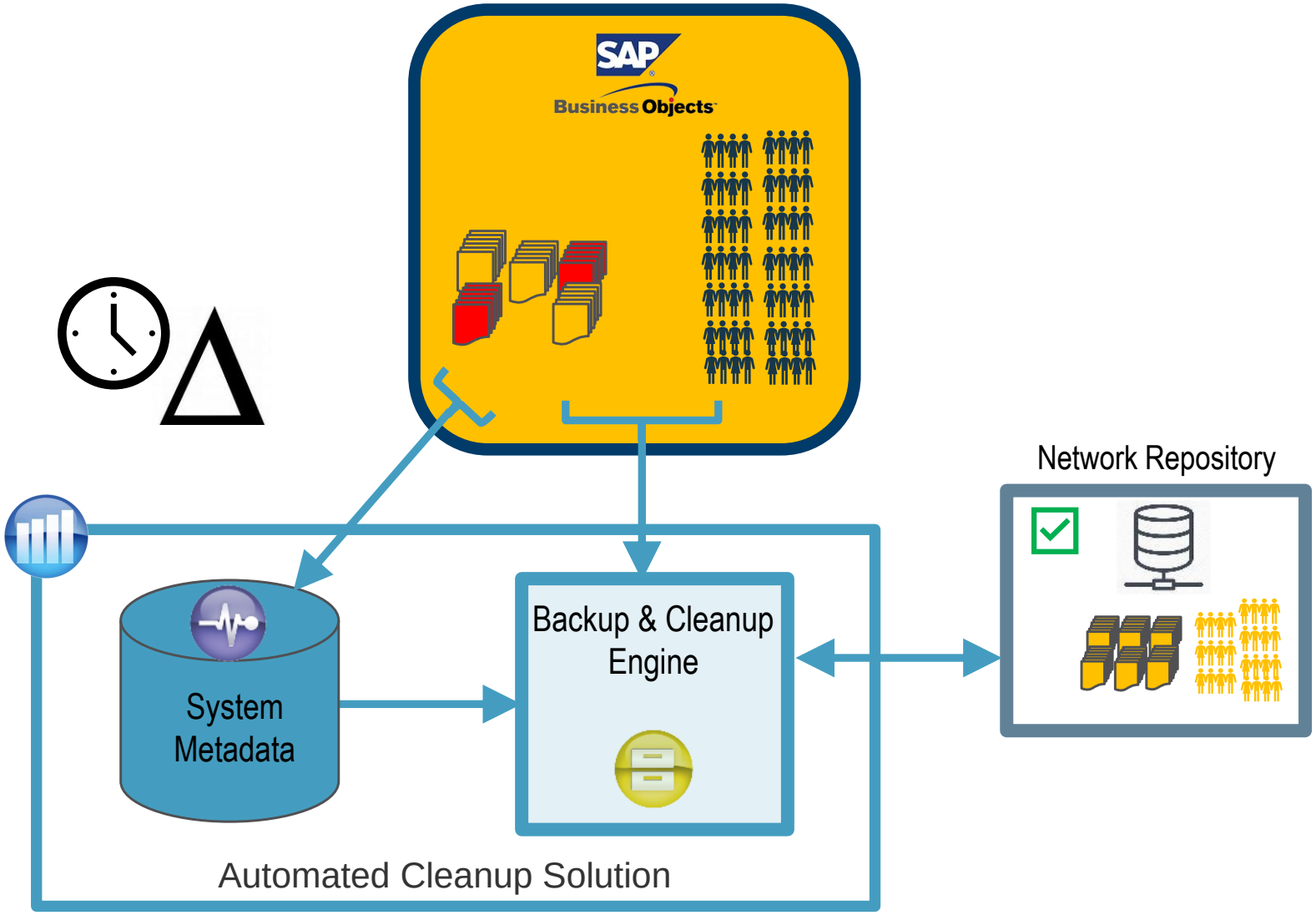


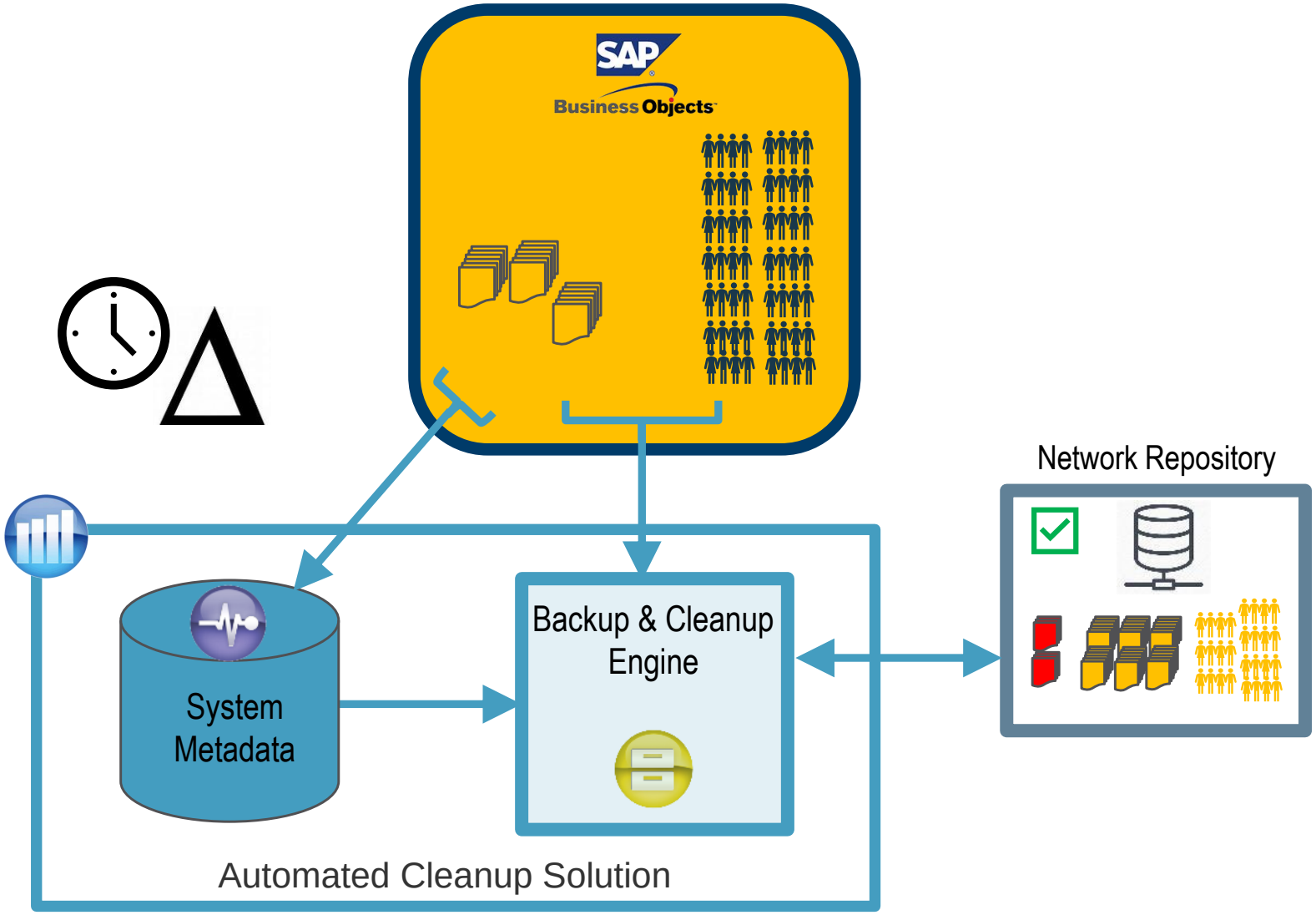
# Automated System Clean-Up - Incremental



# Automated System Clean-Up - Incremental



# Automated System Clean-Up - Incremental



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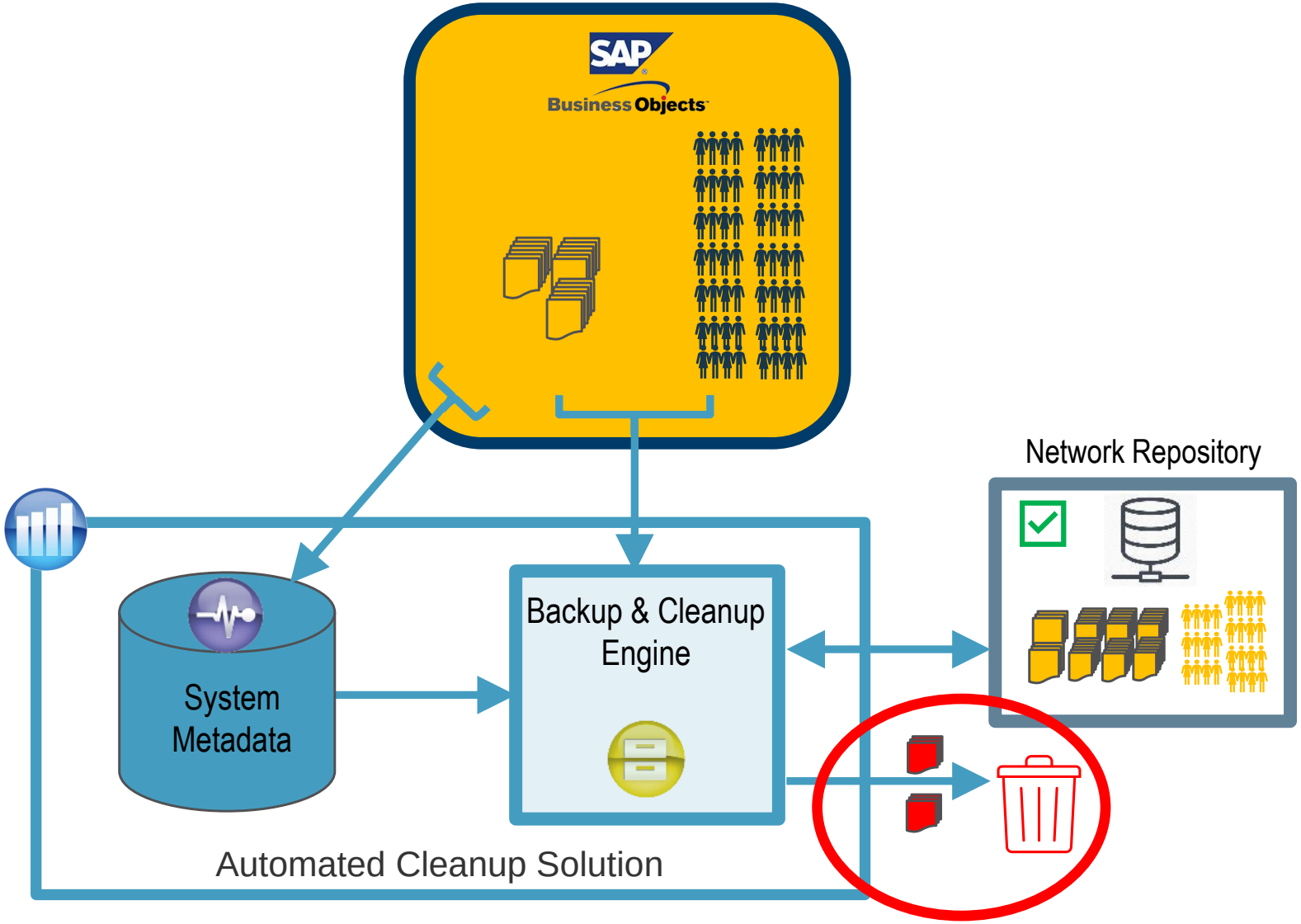


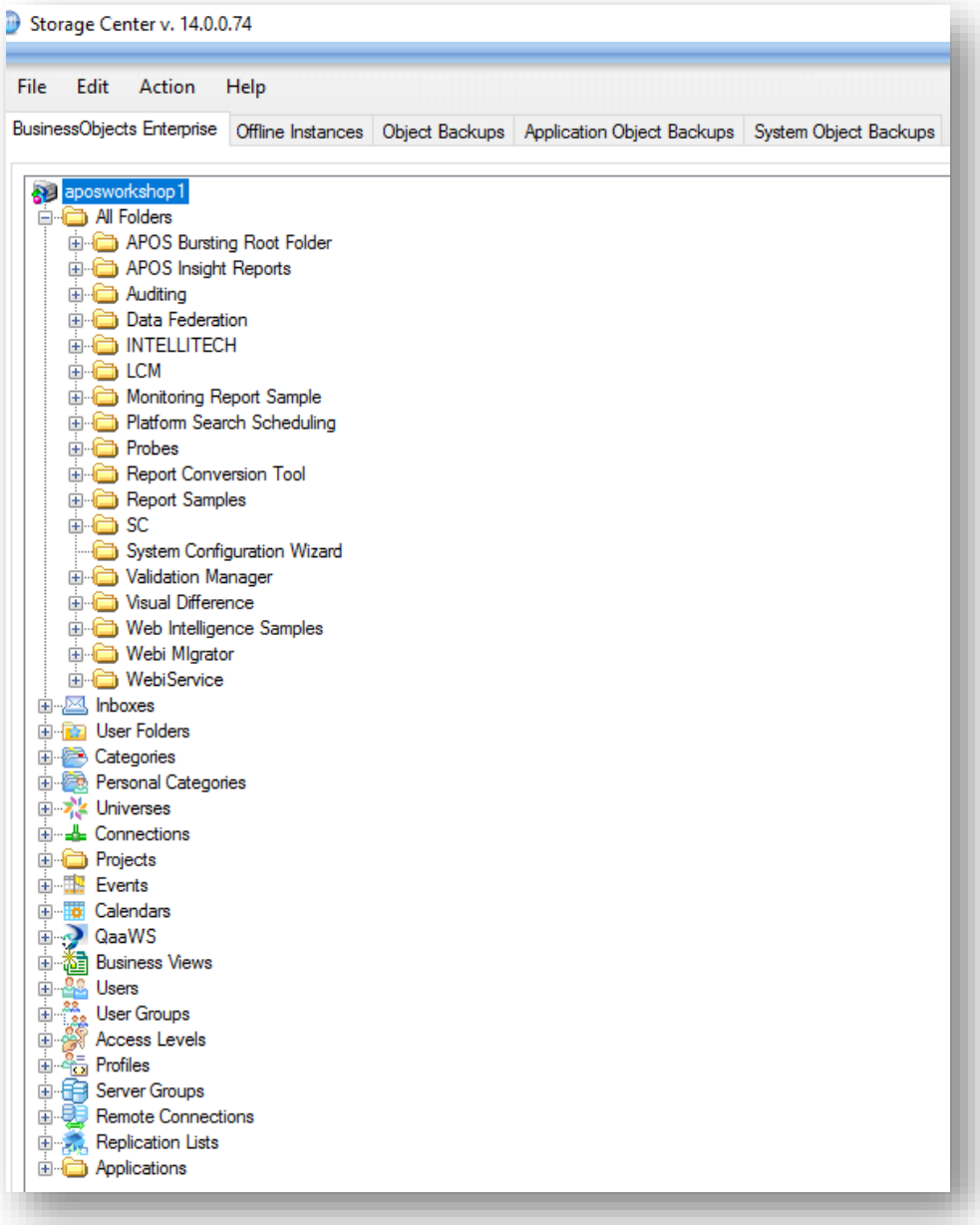
# Reduce Content & Users

| Before | After |
|---|---|
| Reports = 1200 | Reports = 350 |
| Instances = 150,000 | Instances = 73,550 |
| Universes = 45 | Universes = 20 |
| Users = 750 | Users = 500 |
| Groups = 65 | Groups = 30 |
| Total Objects = 152,060 | Total Objects = 74,450 |

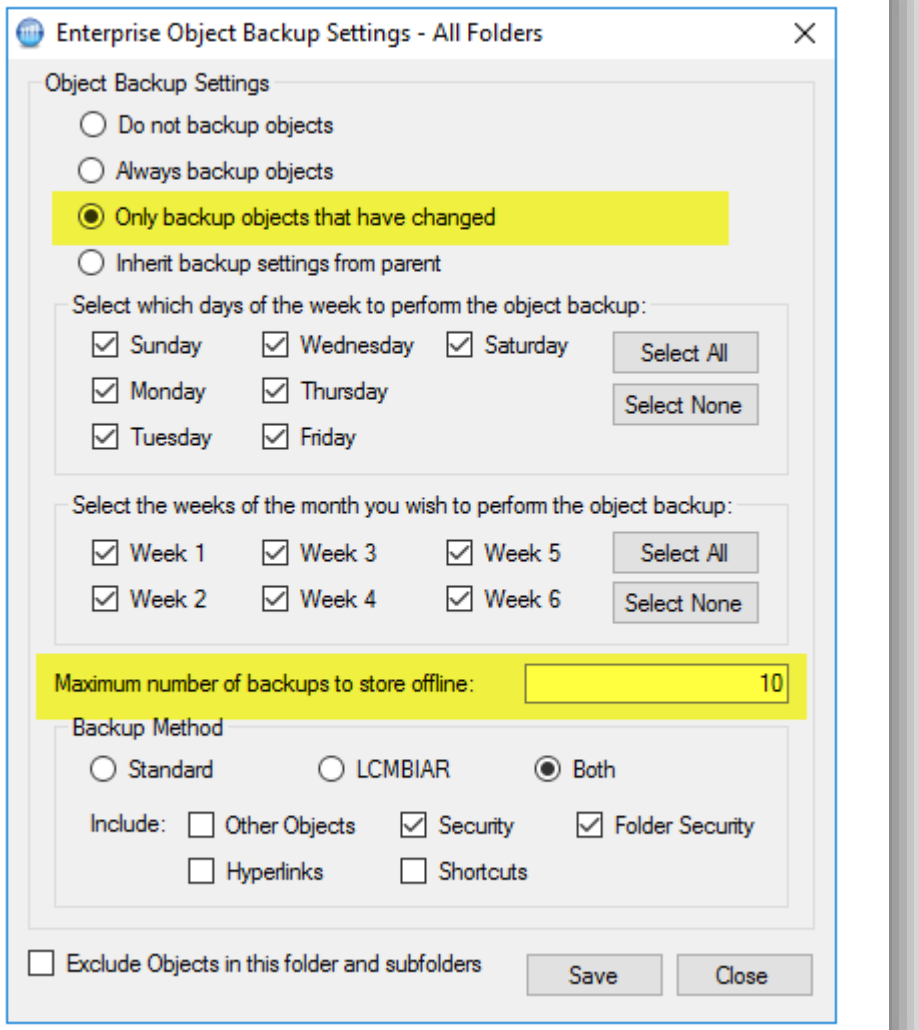
End Result : SAP BI content and user count reduced by over 50%

# APOS Storage Center

- Centralized storage and backup interface
- Selective backup and restoration on all object types



# APOS Storage Center




- Create customized rules for back strategy
- Have assurance before right sizing your environment

# Right-Size Your BI Environment

## Restructure

- Infrastructure
- Licenses

# Restructure – Infrastructure

## Scale Down

Before Reduction

After Reduction

- Scale down due to reduced users
- Scale down due to reduced content
- Scale down due to reduced usage from past consumption levels
- Scale down due to lower usage than original expectations

# Restructure – Infrastructure

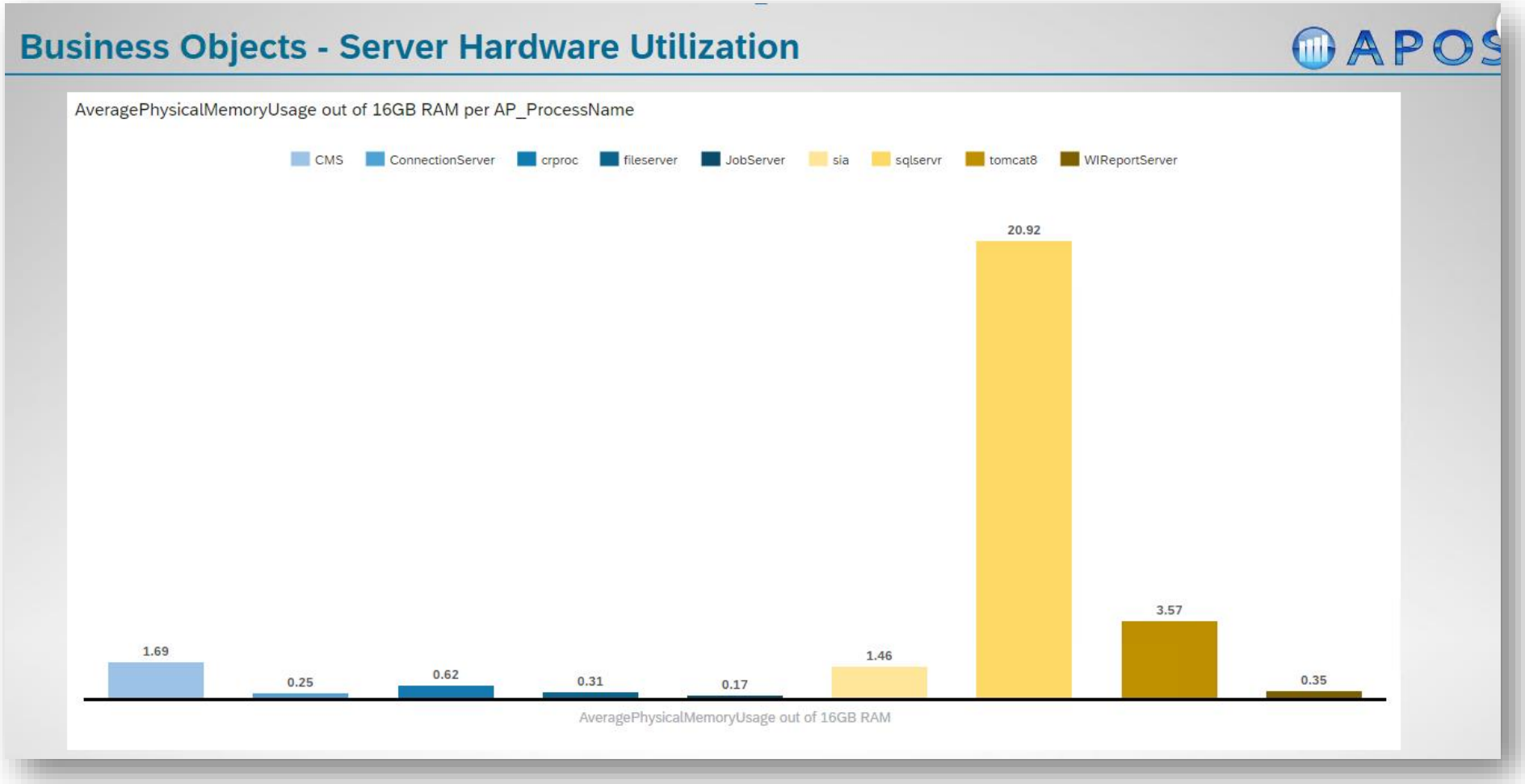
- Scale up due to increased usage - servers maxing out
- Scale up due to increased users
- Scale up due to increased content
- Scale up due to old hardware
- Scale up due to move to cloud deployed BOBJ
- Scale up due to more scheduling
- Scale up due to revised licensing method
  - Processor licenses converted to Concurrent licenses

Scale Up

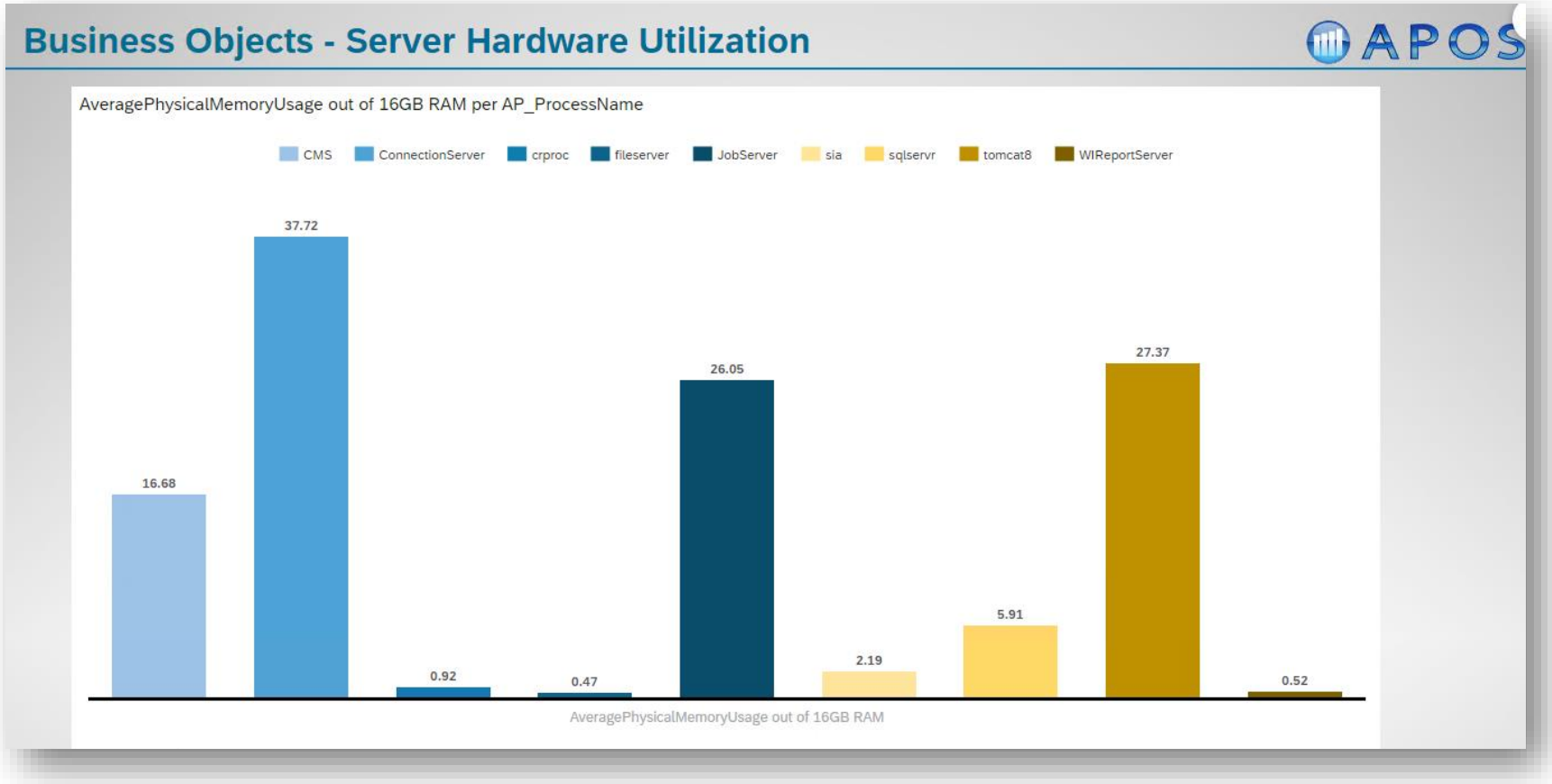
Before Growth

After Growth

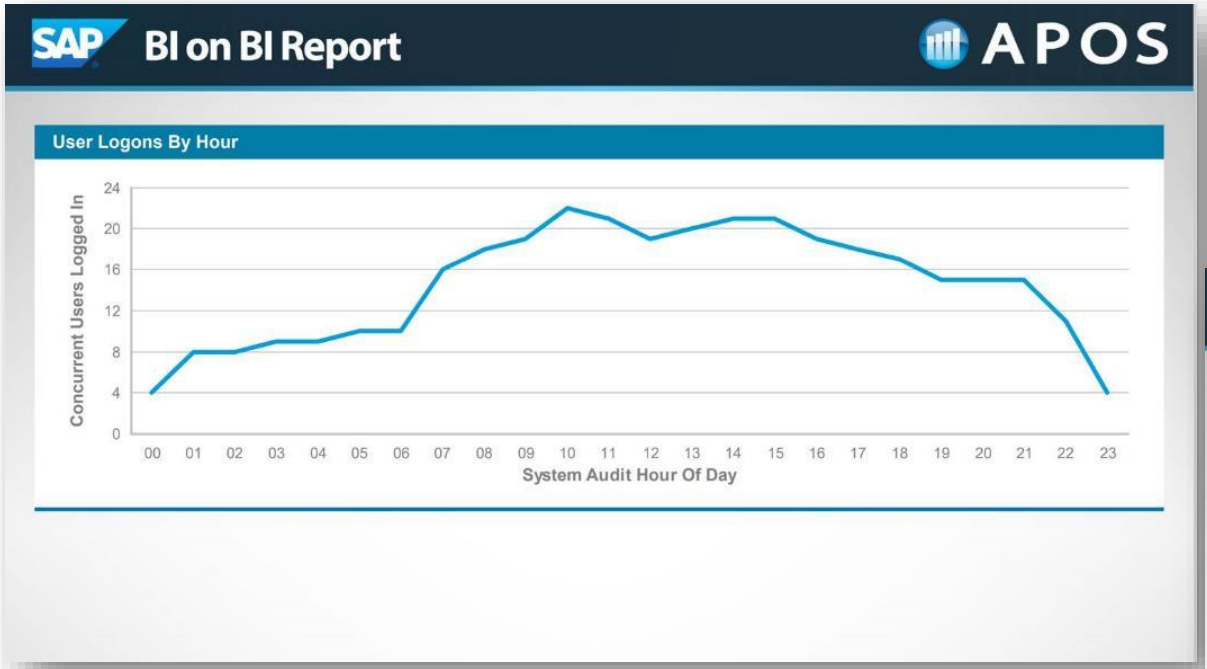
# Restructure – Infrastructure – Scale Down?

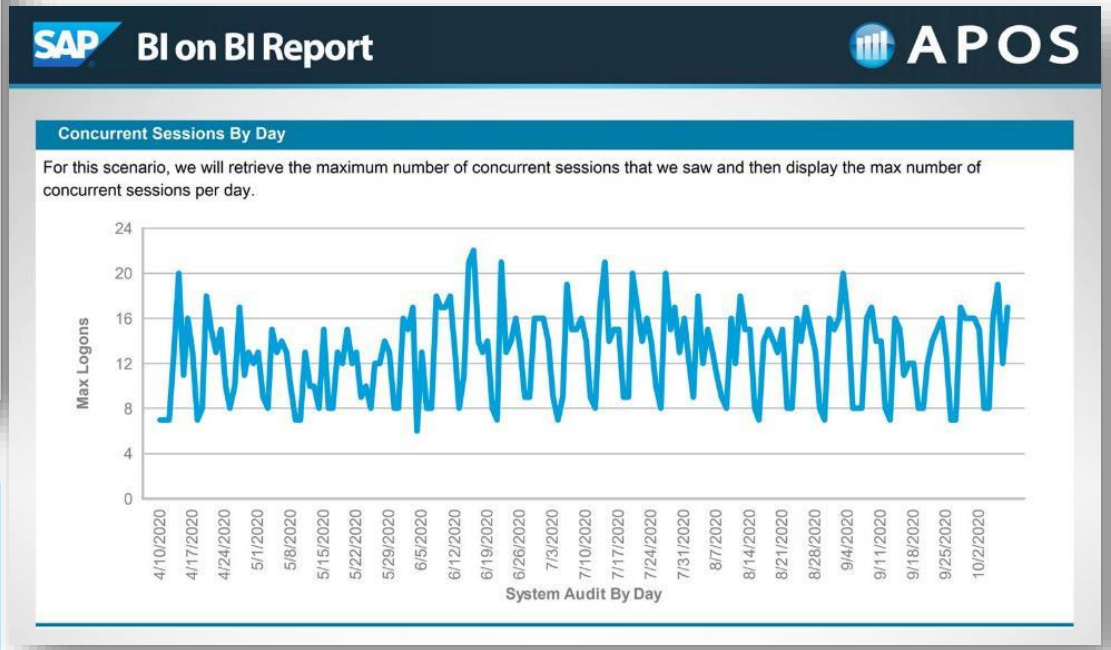


# Restructure – Infrastructure – Scale Up?



# Restructure – Licensing Type

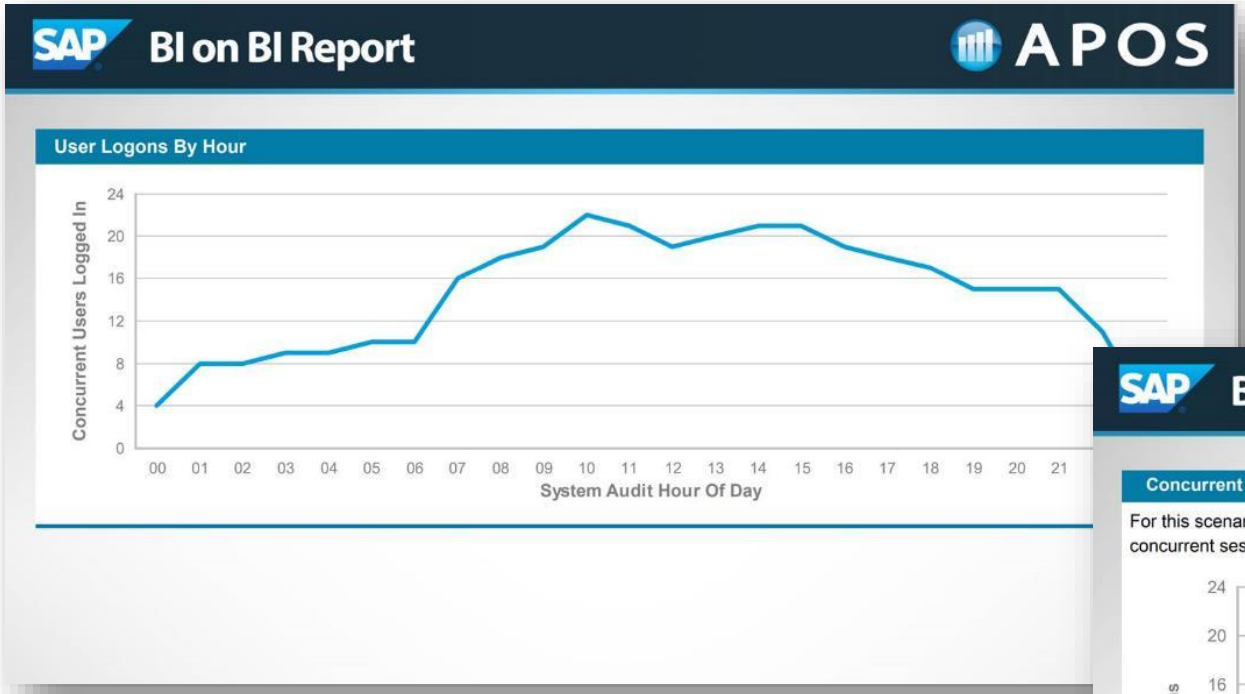


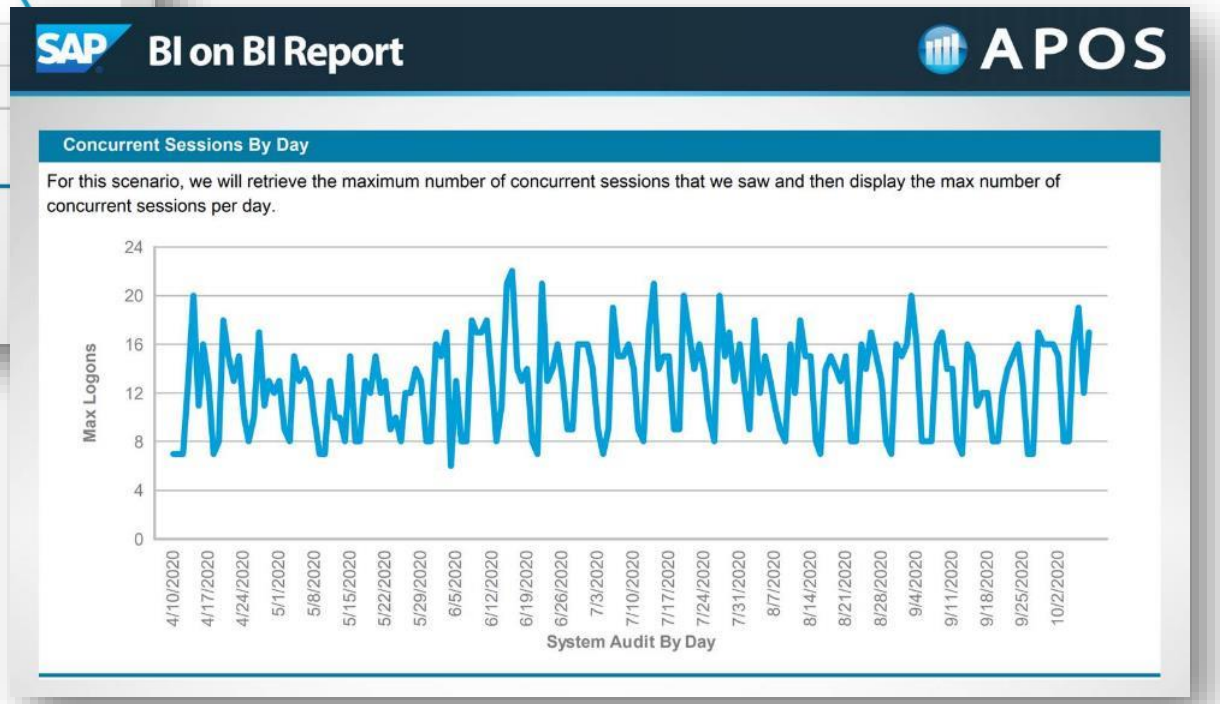

Revise licensing based on hardware utilization observations

- should I change from Processor to CSBL
- should I add Named User licenses for key users

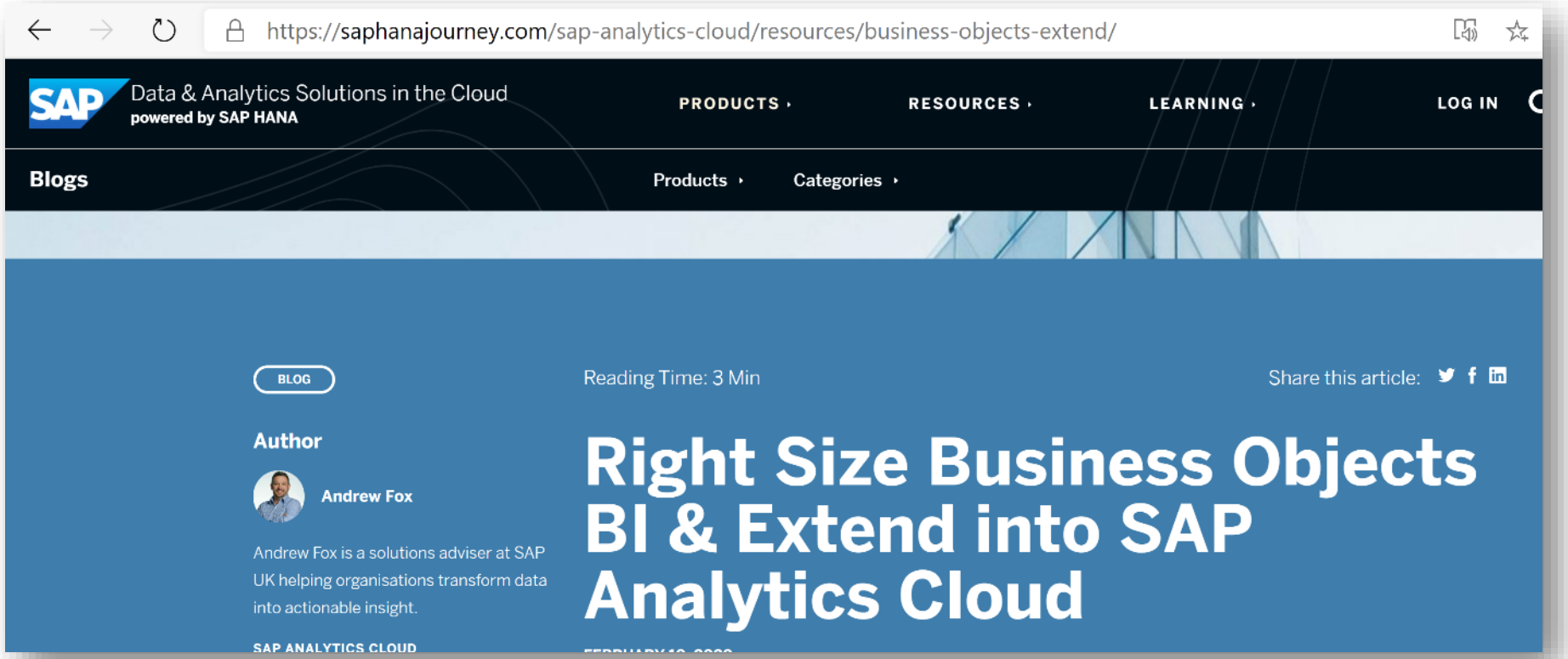
# Restructure – Licensing Volume



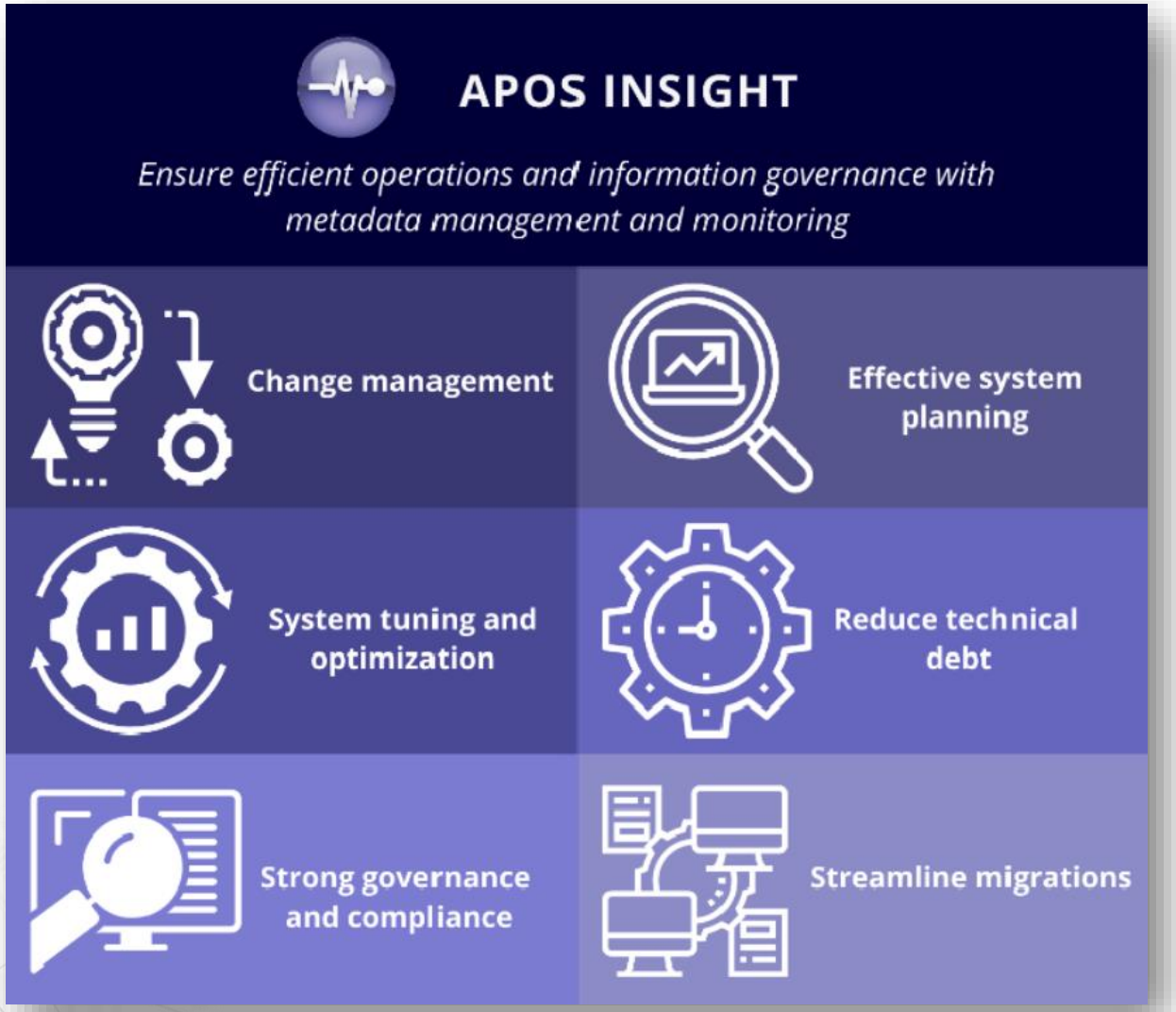

- Am I hitting license maximums too frequently?
- Do I have too many or too few licenses?



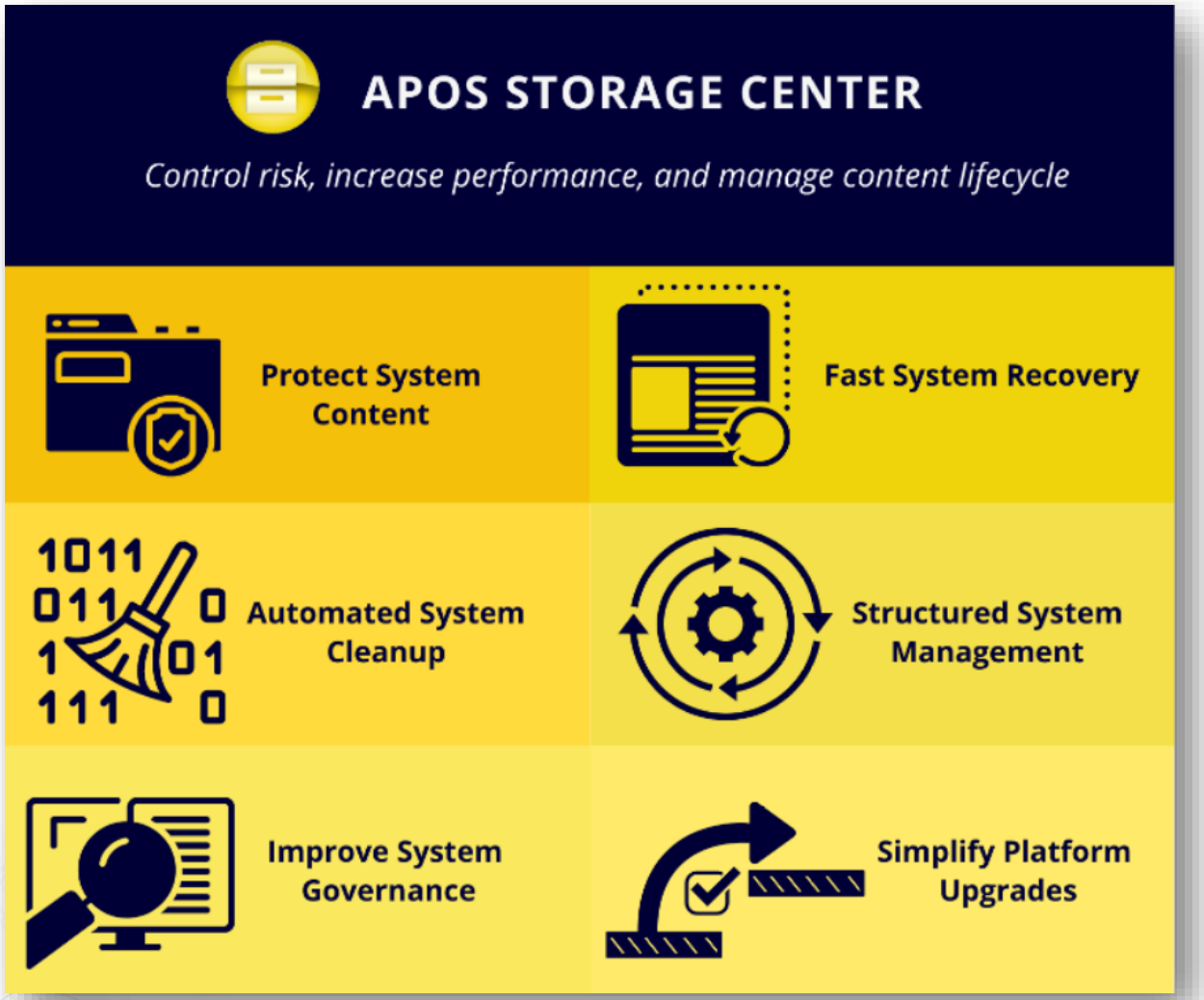
# Restructure – Cloud Extension Policy



# APOS Insight



# APOS Storage Center



# APOS Solutions for SAP BusinessObjects

## APOS Insight

### BI System Auditing

- System Inventory
- Security Analysis
- System Usage Analysis
- Report Impact Analysis

### BI Report Testing

- Automated Report Testing
- Regression Testing
- Validation of Report Data
- Report Performance Testing

### BI System Monitoring

- Advanced System Monitoring
- Operating Environment Monitoring
- Database Monitoring
- Process Monitoring

### BI Query Surveillance

- Real-time BI Query Monitoring
- Query Performance Alerting & Auditing
- Query Intervention; Remote Cancelling
- Sensitive Data Audit

## APOS Administrator

### Object Management

- Bulk Security Management
- Bulk Settings Management
- System Objects Promotion
- Connections Maintenance

### Schedule Management

- High-volume schedule management
- Multiple schedule properties editing
- Grid scheduling interface
- Repeatable scheduling templates

### Instance Management

- Manage entire instance inventory
- Granular instance search
- Stop, pause, release, reschedule
- Rapid recovery to failed schedules

### Web Intelligence Migration

- Bulk conversion of Universes from UNV to UNX
- High-Volume Repoint Web Intelligence reports
- Success validation
- Controlled, project-based workflow

## APOS Storage Center

- System Backup
- Content Archiving
- Content Versioning
- Selective Restoration
- Automated System Clean Up

## APOS Publisher

- Systematic Content Delivery
- Advanced Document Bursting
- Enhanced Content Distribution
- Security and Encryption
- Statement Generation

APOS has been serving the SAP BusinessObjects user community for 20 years, providing solutions for automating key functions in managing an SAP BI platform.

Whether you are upgrading your on-premise BI in preparation for SAP BusinessObjects 2024, moving to SAP BusinessObjects Private Cloud Edition, or migrating to SAP Analytics Cloud, migrations can be challenging, putting strains on resources, so streamlining and automating processes is needed. APOS solutions simplify and automate many key processes in a successful SAP BusinessObjects migration.

## SAP BusinessObjects Migration Kit

### Upgrade Readiness, Execution & Content Governance

Achieve a streamlined, efficient and effective deployment that is upgrade ready. APOS solutions help you run bulk upgrade operations, validate content, optimize security, and maintain your BI environment.

Learn More

## SAP BusinessObjects Private Cloud Edition (PCE) Adoption Kit

### Streamline, simplify, safeguard, and accelerate your move to SAP BusinessObjects Private Cloud Edition (PCE)

The PCE Adoption Kit by APOS bundles time-tested APOS technology to simplify migration from on-premise to the Cloud, providing vital automation to assist you through the stages of your migration.

Learn More

# APOS Solutions for SAP Analytics Cloud

## APOS Live Data Gateway

- High-performance live data connectivity
- Virtualized, governed, self-service connectivity
- Connect to Relational databases
- Connect to OLAP data sources
- Connect to Cloud data environments
- Connect to SAP Application data

## APOS Publisher for Cloud

- Automate secure information delivery
- Deliver timely information
- Create a flexible messaging environment
- Simplify administration
- Use multiple formats & destinations
- Burst stories with multiple filters
- Burst conditionally
- Collate stories
- Personalize PowerPoint bursting

## APOS Insight for Cloud

Monitor – tracking & alerting for:

- SAC story performance
- System response measures

Validation automated comparisons across SAC versions of:

- SAC story data
- SAC story performance
- SAC story structure

Impact analysis – granular auditing of SAC story structure metadata

## APOS Semantic Layer Migration

- Capture SAP BI Universe data connection and data modelling logic
- Project-based, wizard-driven interface
- Scan your SAP BI content for relevant data connections
- Harmonize SAP BI and HANA data modelling throughout Hybrid BI
- Translate SAP BusinessObjects modelling to SAP HANA Calculation Views
- Translate SAP BusinessObjects modelling to a unified semantic layer

# View a webinar on-demand

- **Flashes of Insight - Simplify SAP BusinessObjects Administration & Governance**
- **Simplify Your SAP BusinessObjects Upgrade**
- **Extend Analytics Content with Bursting & Publishing**
- **Extend Analytics Data Connectivity**

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# Thank You!

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