

Flashes of Insight: SAP BusinessObjects Usage Analysis



# **Today's Session**

Key Topics

#### **TOPIC**

- Report Usage
- User Activity
- Hardware/Server Utilization
- Q&A see webinar console





#### 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 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

# **APOS Insight – Deep System Knowledge**



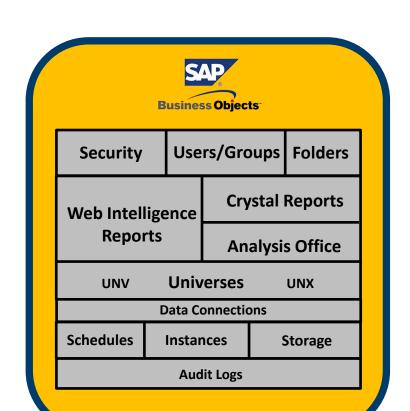


# **APOS Insight – Deep System Knowledge**



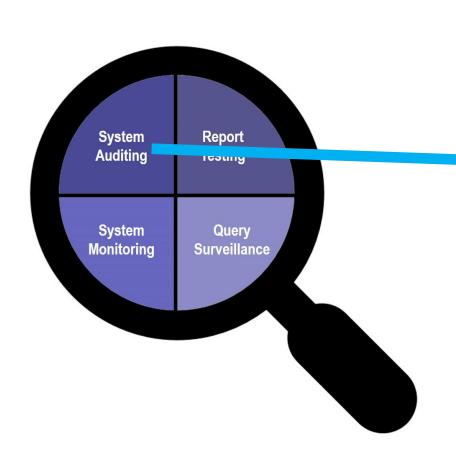


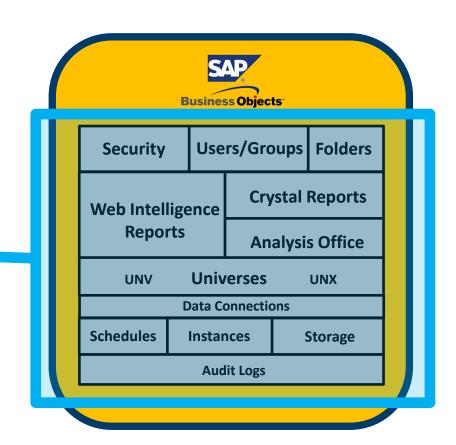




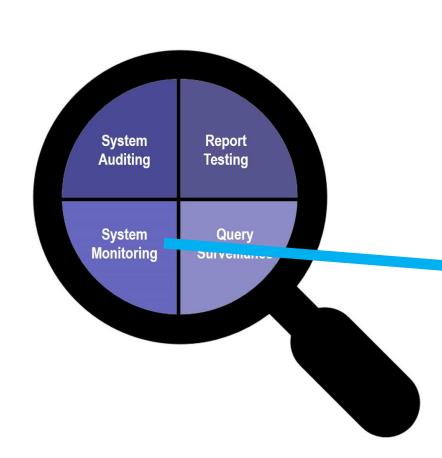


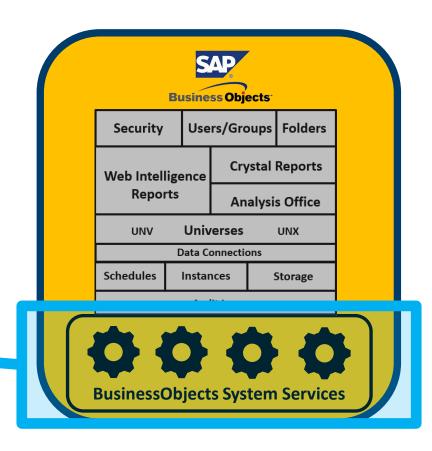


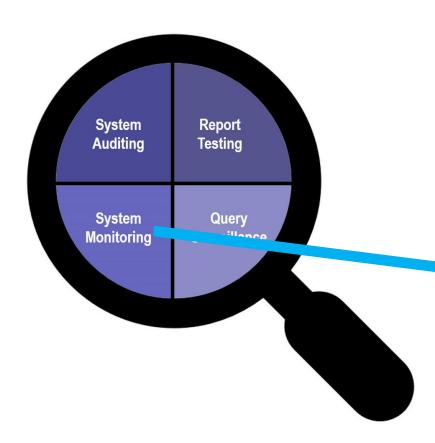


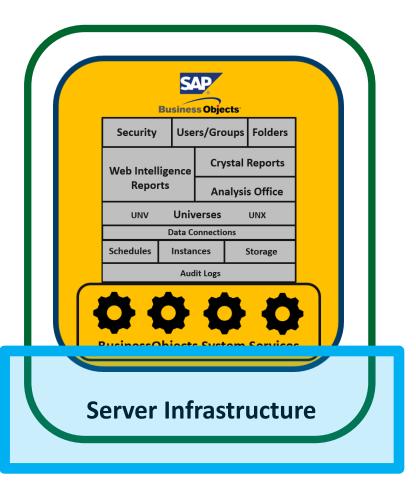




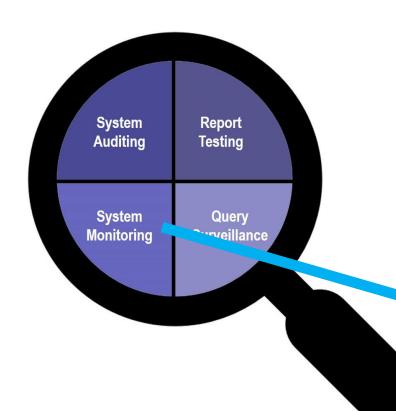


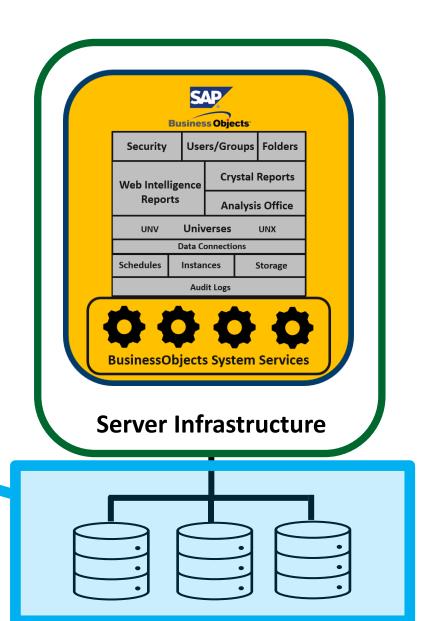






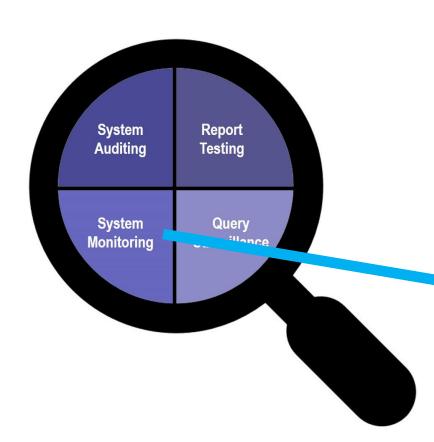


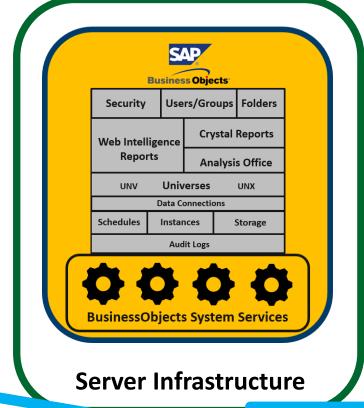






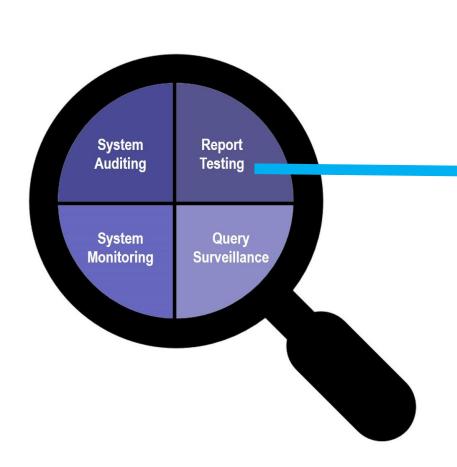


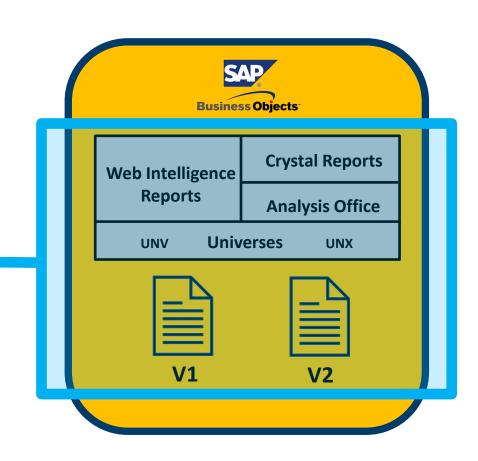




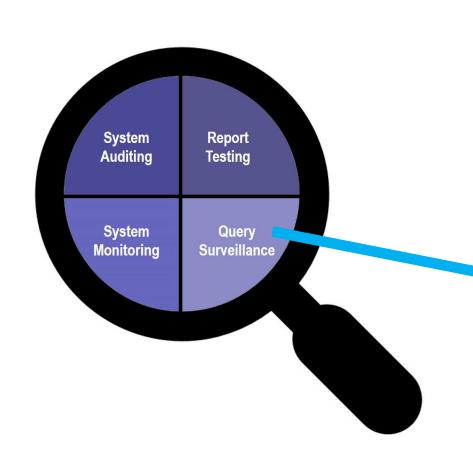


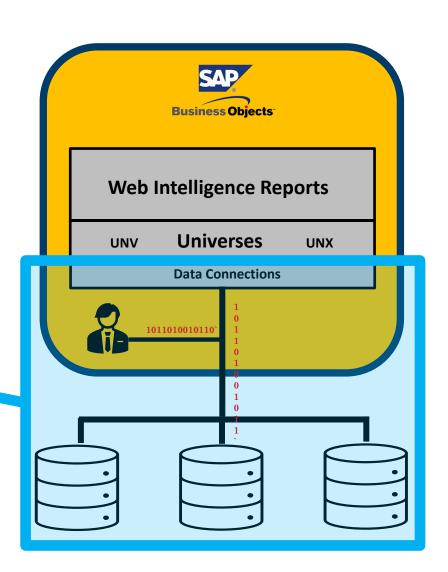






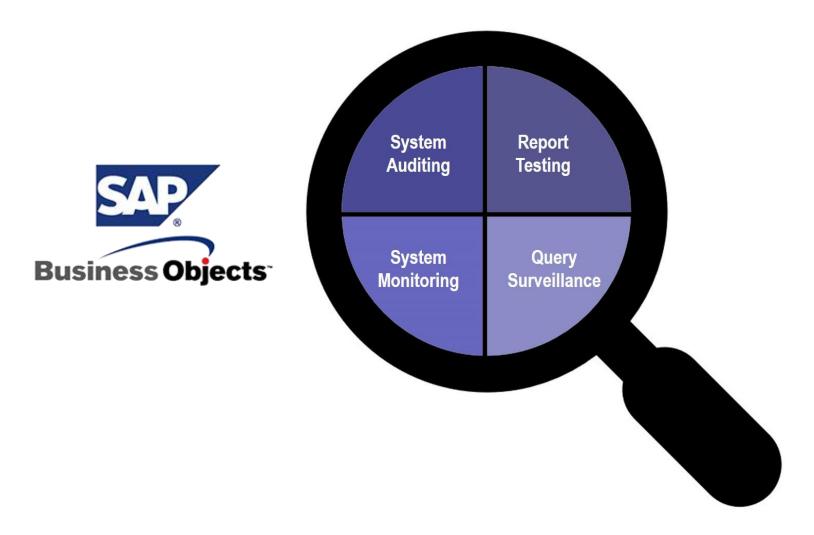






## Flashes of Insight – Usage Analysis





#### Flashes of Insight - Series



Session 1 – Managing Change

Session 2 – Performance Analysis

Session 3 – Usage Analysis (Today)

Session 4 – Automated Report Testing

Session 5 – Query Management & Governance

Session 6 – Report Impact Analysis







Fred Walther
Senior Solution Consultant
APOS

## Flashes of Insight



Report Usage

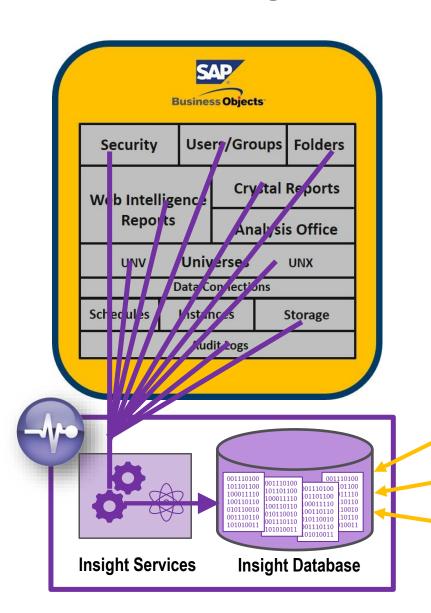
**User Activity** 

Hardware/Server Utilization

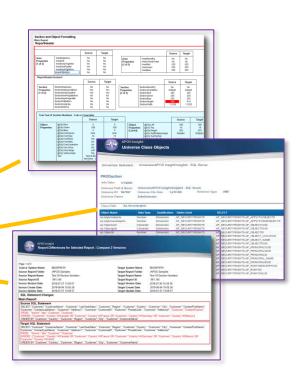


### **APOS Insight – System Auditing**

- Insight Services run deep scans of the SAP BusinessObjects environment
- Insight transforms system data and writes thorough and effective metadata to Insight Database
- Metadata within Insight Database available for granular analysis







## Flashes of Insight



#### Report Usage

- Most used reports
- Most used universes
- Least used/unused reports



Why Important?







**Control Technical Debt** 

**Manage Priorities** 

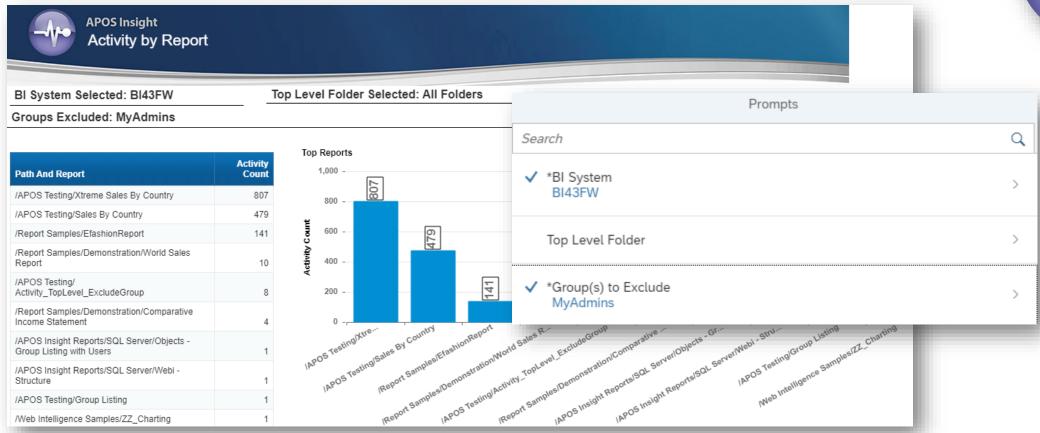


Report usage tells a story about how your system perceived by users :

- Which reports are the most popular?
- Which reports were asked for, but were then unused?
  - Why were they unused?
- Which universes serve the most reports?
  - Which databases do those universes connect to?







The "Activity by Report" Web Intelligence document shows usage by report, ordered by the Activity Count





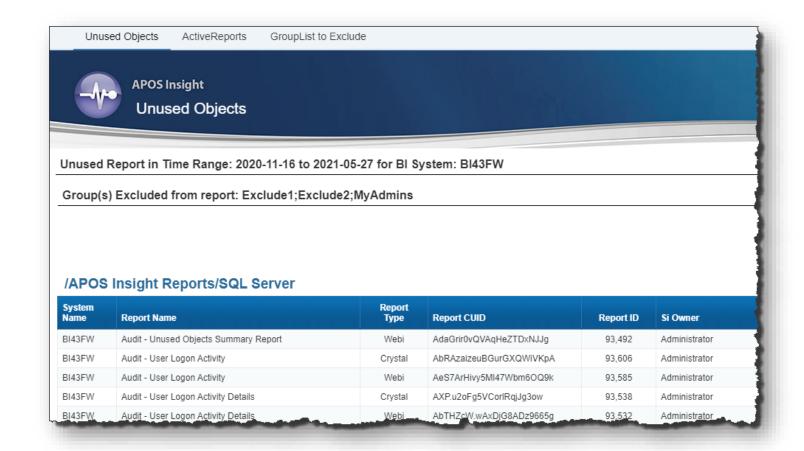
BI System Selected: BI43FW Top Level Folder Selected: All Folders

Groups Excluded: MyAdmins

Path And Report	Activity Count	Bi Folder Path	Activity Datetime	User Name	Object Name	Activity Type	Activity Count
/Report Samples/Demonstration/World Sales Report	10	/Report Samples/ Demonstration	11/19/20 10:50 AM	Administrator	World Sales Report	Schedule Crystal Report	1
Sum: 10		/Report Samples/ Demonstration	11/20/20 10:51 AM	Administrator	World Sales Report	Schedule Crystal Report	1
		/Report Samples/ Demonstration	11/21/20 10:50 AM	Administrator	World Sales Report	Schedule Crystal Report	1
		/Report Samples/ Demonstration	11/22/20 10:50 AM	Administrator	World Sales Report	Schedule Crystal Report	1
		/Papart Samples/					

Drilling into the "Activity by Report" Web Intelligence document shows usage details.





The "Unused Objects" report shows objects not used within a specified time range.

## **Universe Usage**





Universe Folder and Name	Number of Reports
Universes/APOS Insight/ NIH_Xtreme_Cust_Orders_UNV	226
Universes/APOS Insight/Insight4 - SQL Server	55
Universes/APOS Insight/Insight4 - Oracle	38
Universes/Xtreme/XtremeUNV	36
Universes/webi universes/eFashion	31
Universes/Xtreme/Fred_Xtreme_Universe	30
Universes/Monitoring TrendData Universes/ eFashion	26
Universes/Xtreme/Xtreme_Customers	9
Universes/eFashion.unx	7

Universes/Xtreme/Xtreme_Customers						
Report Folder Location	Report Name	Report Owner	Report File Size			
/APOS Multi Source Webi/	MultiSource	Administrator	58415			
/APOS RPB Reports/AO and Webi to XLS/	A1_SalesByCountry	Administrator	26745			
/APOS RPB Reports/Sales Reports Pkg/	A1_SalesByCountry	Administrator	26745			
/APOS Sales Reports/	A1_SalesByCountry	Administrator	26745			
/APOS Sales Reports/	Sales_With_Projection	Fred	27680			
/C1_Source_Reports/	C1_Sales_Report_01	Administrator	26516			
/C1_Source_Reports/	C1_Sales_Report_02	Administrator	26526			
/C1_Source_Reports/	C1_Sales_Report_03	Administrator	26519			
/C1_Source_Reports/	C1_Sales_Report_04	Administrator	26518			

The "Universe List" report shows Universes and the reports that use them.

### **Customer Success - Report Usage**



#### **Large US Energy Provider**

- Overall process to 'right size' their deployment
- Proper decisions required clear information about what reports are not being used
- Insight has enabled them to remove many unused and duplicated reports in order to streamline their system

#### **Major NA Insurance Company**

- Undergoing a migration, and only wanted to migrate content that is actually being used
- Analysis uncovered replication of reports
- With the information from Insight, they were able to remove a significant percentage of reports prior to migration processes



## Flashes of Insight



#### **User Activity**

- Most Active Users
- Most Active Time Periods
- Inactive Users



Why Important?







**Effectively Manage Priorities** 



**Manage Licensing** 



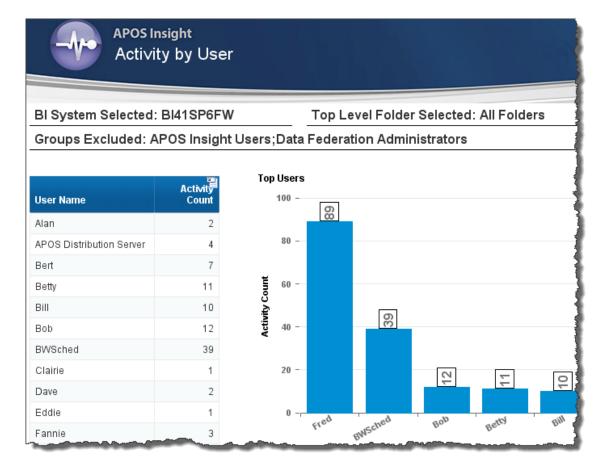
**Governance & Security** 



User Activity on the BI system is an indication of its health and of its perceived usefulness. APOS Insight helps to track user activity in a number of ways.

- Most active users in terms of reports run
- Logon activity by hour of the day
- Inactive users in the system



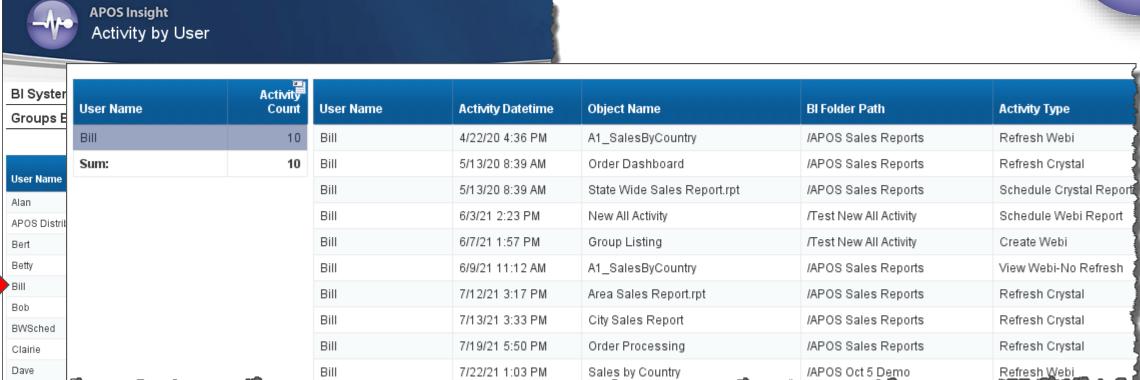




Activity Summary by User

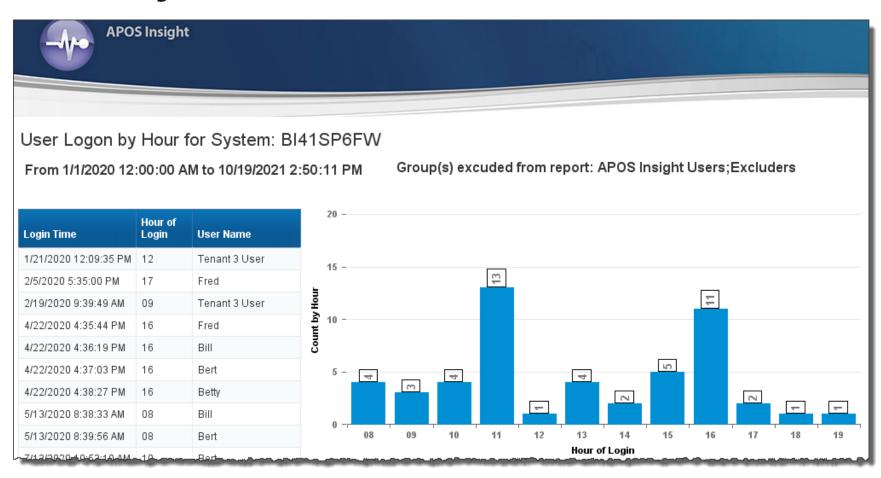
Eddie Fannie





Activity Detail for User





Understand the busiest times based on User Logins

## **User Activity/License Usage**





Inactivity Date Range From 8/1/2021 to 10/20/2021 For System: BI41SP6FW

User Name	Group Memberships
Acct1	Everyone
Alan	Administrators, Design Studio Administrators, Everyone
APOS Distribution Server	Administrators, Everyone
Asia1	Everyone, Sales Asia
Asia2	Sales Asia, Everyone
Bert	Everyone, Administrators
Betty	Everyone, Administrators, APOS Insight Users
Bill	Administrators, Everyone, Excluders, APOS Insight Users
Bob	APOS Insight Users, Bob, Excluders, Administrators, Everyone
BWSched	NSP~001@BOBJ41_ROLE, Everyone, Administrators

Discover Inactive Users in the BI System

#### **Customer Success – User Activity**



#### **Health Care Provider in North East**

- As part of onboarding new hospitals, needed to understand patterns of new user communities
- Insight has allowed them to understand who are the most active users, and what reports they are using

#### **US State Government Agency**

- Needed to find the last time users logged into the BI system in order for them to track usage
- Insight has enabled them to confidently perform a large purge of unnecessary users and user groups, and ongoing maintenance purges



# Flashes of Insight



### Hardware/Server Utilization

- Job Server usage
- . Tomcat resource usage
- . FRS usage/availability





Why Important?



**Manage Infrastructure Efficiently** 



**Manage Infrastructure Effectively** 



**Performant System = Happy Users** 



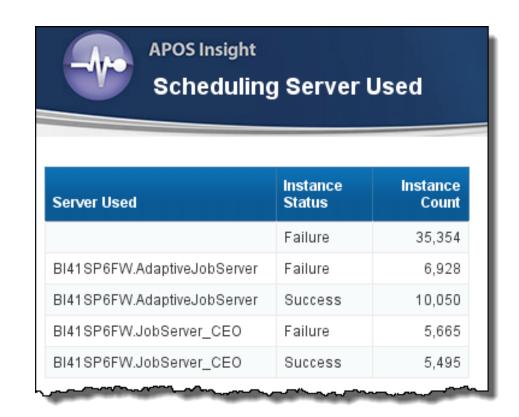
Understanding which of your BI servers are being used the most, and how they are being used is the first step in ensuring that your BI system is running in the most efficient way possible.

There are a number of data points to be analyzed in terms of server usage

- Number of schedules executed per job server
- Number of successful instances retained
- Input and Output FRS growth
- Tomcat hardware resource usage

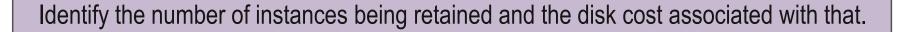






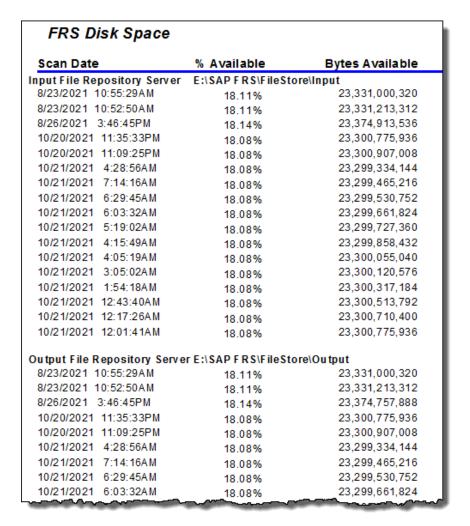
Identify the loads on Report Job Servers

Instance Statistics		
Report Name	# of Instances	Instance Size (Bytes)
ZZ_Charting	1	605,635
Comparative Income Statement	13	13,286,400
World Sales Report	10	9,477,120
EfashionReport	53	2,060,137
Sales By Country	2,931	171,449,291
Xtreme Sales By Country	1,565	54,843,734
Activity_TopLevel_ExcludeGroup	6	749,027
Group Listing	25	1,263,914
Sales By Country_SelForm.rpt	9	367,542
Sales By Country Parameters	4	155,099
Xtreme Sales By Country Prompts	16	563,696
Xtreme Sales By Country_AllCountries	1	36,227
TestFredJuly28	1	8,704
Report Queries Sorted By Duration	1	36,356
	4,636	254,902,882





Understand the disk space used by the Input & Output FRS







AP_ProcessName	AP_MachineName	AP_WorkingSet64	AP_PeakWorkingSet64	AP_NonpagedSystemMemorySize64	AP_PagedMemorySize64	AP_PeakPagedMemorySize64
Tomcat9	BI43FW	1222856704	2017775616	56704	1392877568	2239692800
Tomcat9	BI43FW	1219166208	2017775616	56568	1389170688	2239692800
Tomcat9	BI43FW	1216049152	2017775616	56840	1386082304	2239692800
Tomcat9	BI43FW	1215492096	2017775616	56488	1385492480	2239692800
Tomcat9	BI43FW	1214996480	2017775616	56840	1385029632	2239692800
Tomcat9	BI43FW	1213923328	2017775616	56568	1383915520	2239692800
Tomcat9	BI43FW	1212354560	2017775616	56568	1382342656	2239692800
Tomcat9	BI43FW	1207279616	2017775616	57512	1377308672	2239692800
Tomcat9	BI43FW	1214468096	2017775616	56760	1384501248	2239692800
Tomcat9	BI43FW	1213399040	2017775616	56488	1383391232	2239692800
Tomcat9	BI43FW	1209208832	2017775616	56568	1379188736	2239692800

Understand which processes consume OS resources. Be prepared for the next upgrade.

# **Customer Success – Hardware/Server Utilization**



#### North American Pharmaceutical Company

- Insight allows them to track the memory usage of Tomcat on their system to better scale resources
- Insight allows them to track user sessions to ensure that open sessions are actually being used, and that they're not being tied up

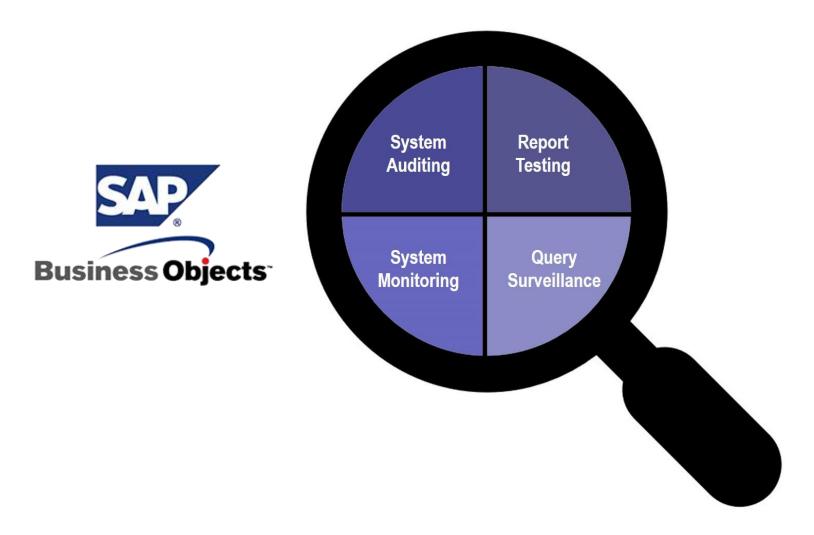
#### **US Healthcare Network**

- Regularly reviews content being stored on the BusinessObjects server to evaluate which content is most costly in storage resources
- Insight provides the added information needed to help in content purge decisions and actions



# Insight – Usage Analysis





# **APOS Solutions for SAP BusinessObjects**



#### **APOS Insight**

#### **BI System Auditing**

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

#### **BI System Monitoring**

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

#### **BI Report Testing**

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

#### **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

#### **Instance Management**

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

#### **Schedule Management**

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

#### **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 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



# **Upcoming Events**

#### Webinar



#### Fast Forward your BI: Automate WEBI UNX migration for database upgrades & more

November 18, 2021 – 11 am EST

As data platforms advance, they may no longer support older BusinessObjects features such as UNV universes. The challenge becomes enormous: upgrade data platforms, but also upgrade universes and repoint Web Intelligence reports to the new UNX universes.

This webinar will examine several use cases in which SAP BusinessObjects customers used **APOS Migrator for Web Intelligence** to automate the conversion of their UNV universes and repoint their Web Intelligence reports.

#### We will discuss:

- Data platform support for SAP BusinessObjects
- Simplified conversion of UNV universes to UNX universes
- High-volume, high-speed, controlled repointing of Web Intelligence reports
- Factors affecting your upgrade decisions



Register at www.apos.com

# **Upcoming Events**

#### Webinar



#### **Automated Report Testing for SAP BusinessObjects - Flashes of Insight**

**December 2, 2021 – 11 am EST** 

Content validation is a necessary step in the implementation of new versions and SPs of SAP BI. Automated report testing ensures your reports stay the same through environmental changes (database, universe, operating system/software upgrades), compliance, upgrade testing, and day to day testing, while eliminating much of the drudgery of this part of the process.

#### We will discuss:

- Regression Testing
- Upgrade/Migration Testing
- Report Modification Governance

... and more



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