



Simplify Your SAP BusinessObjects Upgrade Pre-Migration Planning



Today's Session

Key Topics

- Introductions
- BI Upgrade Stages
- Upgrade Preparation
 - System Audit
 - System Backup
 - System Optimization
 - Test Plan
- 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



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



Upgrade BI **S³**

Smart.Strong.Safe.

APOS Upgrade BI S³



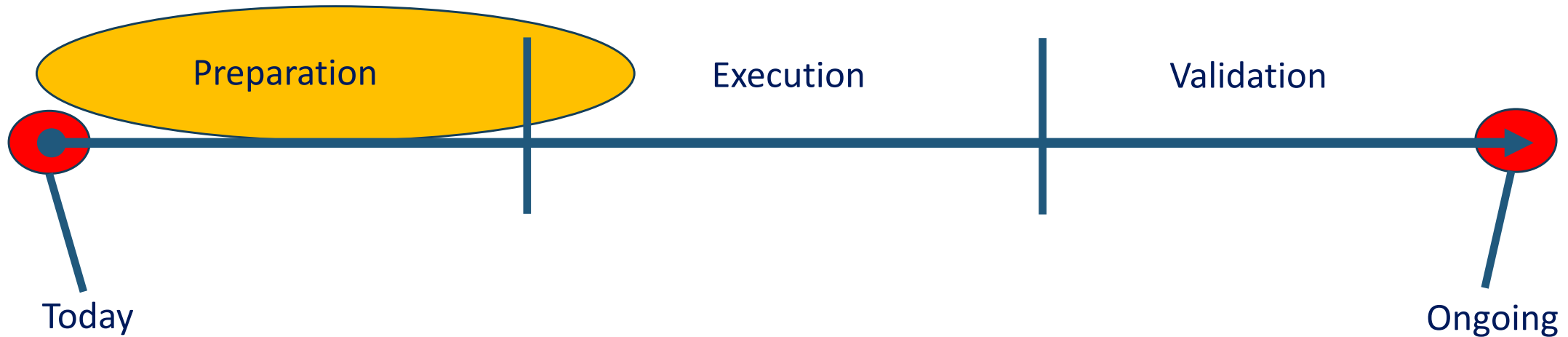
- **Upgrade Smart**
 - Build deep system knowledge
- **Upgrade Strong**
 - Automate bulk administrative operation
 - Implement a strong system content management strategy
- **Upgrade Safe**
 - Mitigate risk
 - Optimize security
 - Validate content

UpgradeBI **S³**
Smart.Strong.Safe.

APOS Upgrade BI S³



SAP BusinessObjects Upgrade - Three Stage Timeline





Fred Walther
Senior Solution Consultant
APOS



Upgrade Smart, Strong & Safe

- **System Audit** – Leave existing problems behind; don't propagate them in the new system
- **System Backup** – Protect your assets; governance, operations & legal obligations
- **System Optimization** – Take the opportunity to build a lean, effective & efficient system
- **Test Plan** - Review and compare benchmarked information with Migrated System



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System Audit

- **Form deep knowledge of the current system; diagnose issues:**
 - Understand where reports are located
 - Analyze system for duplication
 - Understand properties of existing recurring schedules
 - Identify problem content
 - Create a system snapshot



System Audit – Report Inventory

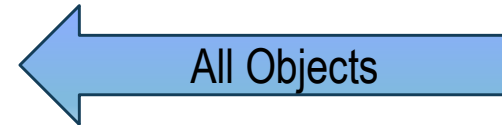


Universe

Object ID	Name	Location	Owner	Last Modified	File Size
600,653	FredXtreme	/BI42SP4FW:6400/Application Folder/Root Folder 95/Universes/Xtreme/	Administrator	2018-01-18 10:26:18	47 KB
623,183	TestWithAliases	/BI42SP4FW:6400/Application Folder/Root Folder 95/Universes/Xtreme/	Administrator	2018-03-08 09:52:13	49 KB

Webi

Object ID	Name	Location	Owner	Last Modified
5,390	Chart Demo	/Web Intelligence Samples/Mobile Samples/	Administrator	2017
5,391	Input Controls & Filter Demo	/Web Intelligence Samples/Mobile Samples/	Administrator	2018
5,392	Geo Analysis Demo	/Web Intelligence Samples/Mobile Samples/	Administrator	2017
5,393	Sections Demo	/Web Intelligence Samples/Mobile Samples/	Administrator	2017
5,394	Mobile - Table Demo	/Web Intelligence Samples/Mobile Samples/	Administrator	2017
5,395	Drill Demo	/Web Intelligence Samples/Mobile Samples/	Administrator	2018



Location: /Bob

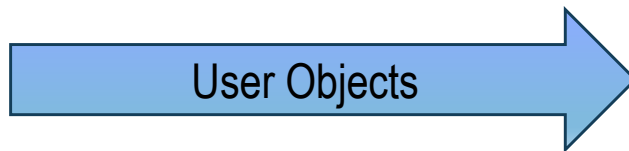
Report Name	Parameters	Last Run Time	Owner
Charting Samples : 522961			Bob
Location Count			1

Location: /Doug

Report Name	Parameters	Last Run Time	Owner
Charting Samples : 522962			Doug
Location Count			1

Location: /Fred1

Report Name	Parameters	Last Run Time	Owner
Charting Samples : 522960			Fred1
Formatting Sample : 522648			Fred1
Location Count			2





System Audit - duplication

Webi Impact Analysis

Searched for Table: All Tables
 Searched for Column: AP_Name;AP_OBJECT_NAME;AP_ObjectName

Folder: /APOS Insight Reports/Oracle

Report Name	Universe Name	Table Name	Column Name
Audit - Objects Scheduled by U	Insight4 - Oracle	"Audit_Report_Events"	
Audit - Reports Refreshed by U	Insight4 - Oracle	"Audit Object Events"	
Crystal - Search for Fields Use	Insight4 - Oracle	"Crystal Elements"	

Variables with Similar Text

Searched for: ENDTIME in Variables for System: BI42SP4FW

Folder: /APOS Insight Reports/Oracle

Report Name	Report ID	Variable Name	Qualification	Data Type	Variable Definition
Instances - Historical	119915	Max End Time	Measure	DateTime	=Max([SI ENDTIME DT])
Instances - Historical	119915	Run Time	Dimension	Numeric	=DaysBetween(ToDate([SI_ENDTIME DT];"yyyy-mm-dd hh:mi:ss");ToDate([Variables].[SI_STARTTIME DT];"yyyy-mm-dd hh:mi:ss"))
					=If(Length(Trim([SI_ENDTIME])) <> 14; ToDate("1900-01-01 00:00:00";"yyyy-mm-dd hh:mi:ss"); Substr([SI_ENDTIME];1;4) + "-" + Substr([SI_ENDTIME];5;2) + Substr([SI_ENDTIME];7;2) + "-" + Substr([SI_ENDTIME];9;2) + "-" + Substr([SI_ENDTIME];11;2) + "-" + Substr([SI_ENDTIME];13;2))
					Substr([SI_ENDTIME];5;2) + "-"

Universe Content - Looking for Duplicates

Filter by Table: All Tables
 Filter by Column: Quantity
 Filter by Universe: All Universes

System Name: BI42SP4FW
 Universe Name: Universes/Maintenance Area/FredXtremeVersion2
 Universe ID: 841272 Universe Size: 47665
 Universe Type: UNV Universe Owner: Administrator

Table Name	Column Name	Data Type
FredsView	Quantity	Numeric
Inventory	Quantity	Numeric
InventoryTransaction	Quantity	Numeric
OrdersDetail	Quantity	Numeric
PurchaseDetail	Quantity	Numeric
SalesReturnDetail	Quantity	Numeric

System Audit - schedules



- Analyze properties of existing Recurring Schedules

APOS Insight
Future Schedules by Report Type

Report

Report Name	Next Run Time	Instance Submitter	Parameters	Processing Extensions Used	Instance Destination	Dependent Objects	Dependencies	Schedule Type
City Sales Report	10/25/19 10:11:00	Administrator			Repository: frs:// Input/a_199/013/002/134599/~crw5668_9072_(b309a678-b7e4-4b89-afcc-61cc620706dc).rpt			Daily - 1
CountrySales Report	10/25/19 10:11:00	Administrator			Repository: frs:// Input/a_119/013/002/134519/~crw5668_9072_(55040336-d1c6-445b-a0b1-aac54d4ccb0).rpt			Daily - 1
District Sales Report.rpt	10/25/19 10:11:00	Administrator			Repository: frs:// Input/a_167/013/002/134567/~crw5668_9072_			Daily - 1

APOS Insight
Schedules - Future Schedules by Destination

Schedules in Next Year (ie 365 days) - For ALL Object Types

Object Format	Scheduled Run Time	Schedule Status	Recurring Schedule	Output Destination	Parameters Selected
Destination: Inbox (Copy) Report Name & Location					
/Cepheid/SalesByState_Prompt					
Webi	13-Sep-2017 9:55	Paused	Yes	Inbox (Copy): Cepheid_Frank	Region= TX
Webi	13-Sep-2017 9:55	Paused	Yes	Inbox (Copy): Cepheid_Steve	Region= NY
Webi	13-Sep-2017 9:55	Paused	Yes	Inbox (Copy): Cepheid_Sam	Region= NY
3 Scheduled Instances for /Cepheid/SalesByState_Prompt					
3 Scheduled Instances to Inbox (Copy)					
Destination: Repository Report Name & Location					
/APOS Sales Reports/A1_SalesByCountry					
Webi	25-Oct-2019 10:11	Pending	Yes	Repository	Country= Canada
Webi	27-Sep-2019 9:02	Pending	Yes	Repository	Country= Canada
2 Scheduled Instances for /APOS Sales Reports/A1_SalesByCountry					

System Audit – problem content



- **Problem Content**

- Are any reports not connected to a universe
- Are there any universes that have no reports connected to them
- Are there any schedules that consistently fail
- Are successful instances actually being viewed





System Audit – Problem Content

Report Activity in Date Range

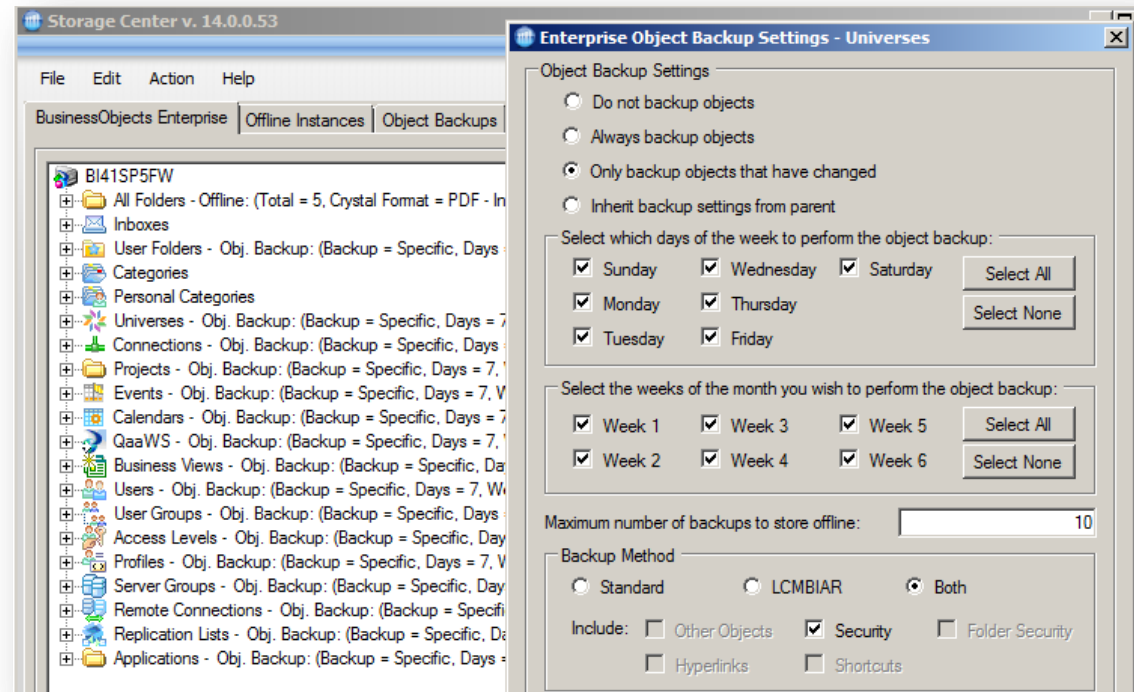
Start Date Selected: 2016-10-01 2:19:27PM End Date Selected: 2019-10-19 2:20:25PM Report Date: 2019-10-02 at 12:30:59
 BI System Selected: BI41SP5FW Insight User to Ignore: APOS_Insight Page 2

Report Name	Report Owner	Date Created	Date Last Updated	Date of Last Activity	Last Activity	Last User
Used						
<i>/***Central Reporting/CRT Reports/APOS Reports/</i>						
Webi						
APOS Scan Refresh Monitor	Administrator	02/01/2019 13:26	02/01/2019 13:26	02/01/2019 18:26	Modify	Administrator
APOS Daily Instance Monitor	Administrator	02/01/2019 13:26	02/01/2019 13:26	02/04/2019 16:33	View	Administrator
APOS Universe - Reports Using Universes	Administrator	02/01/2019 13:26	02/01/2019 13:26	02/04/2019 19:58	View	Administrator
APOS Audit Report	Administrator	02/01/2019 13:26	02/04/2019 09:31	05/01/2019 15:00	View	Administrator
TEST APOS Security	Administrator	02/01/2019 13:26	02/01/2019 13:26	02/04/2019 17:20	Refresh	Administrator
APOS Objects - Object Listing	Administrator	02/01/2019 13:26	02/01/2019 13:26	02/04/2019 20:04	Refresh	Administrator
 <i>/_ APOS BCBSNC Test/</i>						
Webi						
Report A 02	Administrator	06/17/2015 13:57	01/07/2019 15:12	01/07/2019 20:22	View	APOSInsight
Report A 03	Administrator	06/17/2015 13:57	01/07/2019 15:12	01/07/2019 20:22	View	APOSInsight
Report A 01	Administrator	06/17/2015 13:57	01/07/2019 15:12	01/07/2019 20:22	View	APOSInsight



System Backup - Snapshot

- Every organization needs to have a Content Backup strategy
- This strategy should include:
 - Backup of ALL system Objects
 - Ability to selectively restore any object or report instance without disturbing the system
 - Ability to backup only those objects that have changed
 - Ability to automatically purge objects that have not been used in a selected timeframe





System Backup – Object Selective Restoration

- When an object needs to be restored for any reason, you are able to choose the specific version that is needed

Name	Last Backup	Versions	Last Modified	Submitter	Arc
Sample reports and...	2015-02-24 16:57:53	9	2015-02-24 16:57:53	System Account - 10	LCI
Interactive Analysis	2015-02-24 17:14:27	50	2015-02-24 17:14:27	System Account - 10	LCI
CMS Ping	2015-02-24 17:14:24	21	2015-02-24 17:14:24	System Account - 10	LCI
CMS Cache	2015-02-24 17:14:24	51	2015-02-24 17:14:24	System Account - 10	LCI
CMS Logon Logoff	2015-02-24 17:14:24	9	2015-02-24 17:14:24	System Account - 10	LCI
BI launch pad	2015-08-10 20:28:53	9	2015-02-24 17:14:29	System Account - 10	LCI
CMS DB Connection	2015-08-10 20:29:25	9	2015-02-24 17:14:24	System Account - 10	LCI
Crystal Reports Service (Processing S...	2015-04-20 09:32:30	8	2015-02-24 17:14:24	System Account - 10	LCI
Crystal Reports Service (Report Applic...	2015-04-20 09:32:43	8	2015-02-24 17:14:24	System Account - 10	LCI
Start Stop Servers	2015-04-20 09:32:57	8	2015-02-24 17:02:57	System Account - 10	LCI
Parameters	2015-04-20 09:33:24	8	2015-02-24 17:02:56	System Account - 10	LCI
Platform Search Scheduling Object	2015-04-20 09:35:08	8	2015-02-24 17:02:56	System Account - 10	LCI
Publication to Internal Users	2015-04-20 09:38:37	8	2015-03-16 13:05:01	Administrator - 12	LCI
Insight 41 Reports and SQL Universe	2015-04-14 12:48:59	1	2015-03-23 10:39:35	Administrator - 12	LCI
Insight41 UNV BusinessLayers and Re...	2015-04-14 12:49:15	1	2015-03-25 10:11:27	Administrator - 12	LCI
Query_Administrator_Tue Apr 14 12:47...	2015-04-14 12:49:30	1	2015-04-14 12:48:04	Administrator - 12	LCI
Query_Administrator_Tue Apr 14 12:48...	2015-04-14 12:49:44	1	2015-04-14 12:48:31	Administrator - 12	LCI



System Backup - Analyze usage of universes, reports & instances

- When we look at backing up, we also need to look at usage
- We need to know what reports connect to which universes and databases
- After we have an understanding of usage, we can adjust our backup strategy to ignore or delete objects that are not used

What Reports are Based on Selected Universes?

5 Universe(s) Include: APOS Xtreme-Prod;APOS Xtreme-Test;eFashion;Insight4 - SQL Server

Uni SI_NAME (Universe Name)	Uni SI_ID	Uni AP_Location (Universe Location Substring)
APOS Xtreme-Prod	12247	Xtreme/APOS Xtreme-Prod
APOS Xtreme-Test	12250	Xtreme/APOS Xtreme-Test
eFashion	5159	eFashion
eFashion	5162	webi universes/eFashion
Insight4 - SQL Server	11623	APOS Insight/Insight4 - SQL Server

- [-] All Report Activity
 - [-] Report Activity by Type and Folder
 - [-] Create Webi
 - [-] Inbox Report
 - [-] Refresh Crystal
 - [-] Refresh Webi
 - [-] Schedule Report
 - [-] View Instance
 - [-] View Webi-No Refresh
 - [-] User Activity with Detail Drill
 - [-] Most Used Folders

APOS Insight

Report Activity by Type and Folder For Dates From 1/1/2018 12:00:00 AM to 5/1/2019 2:23:02 PM

Activity: Refresh Webi

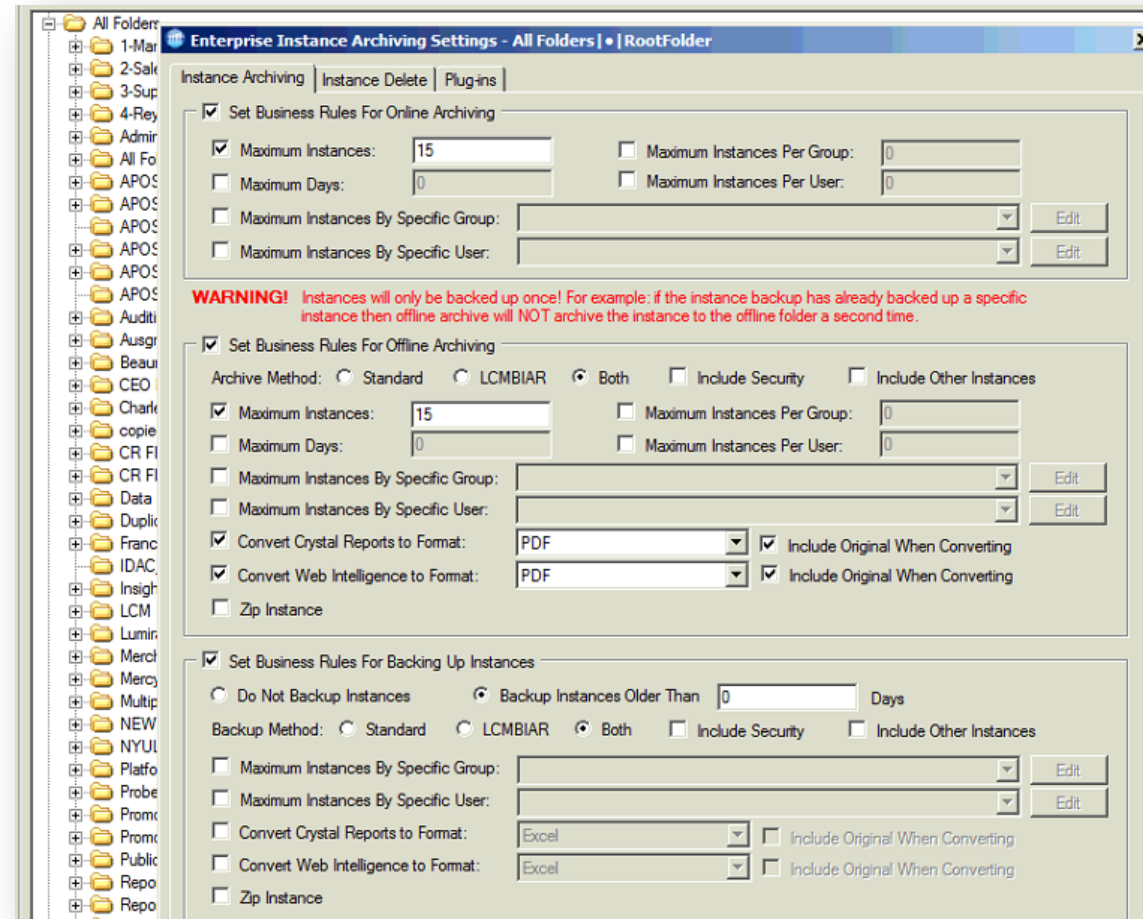
Folder Location: /APOS Insight Development

Object Name	Object Type	User Name	Report Owner	Activity Date/Time	Activity Count
All Report Activity	Web Intelligence	Administrator	Administrator	4/5/19 9:22 AM	1
All Report Activity	Web Intelligence	Administrator	Administrator	4/5/19 9:59 AM	1
All Report Activity	Web Intelligence	Administrator	Administrator	4/5/19 3:41 PM	1
All Report Activity	Web Intelligence	Administrator	Administrator	4/8/19 10:06 AM	1
All Report Activity	Web Intelligence	Administrator	Administrator	4/8/19 1:12 PM	1
Sum:					5



System Backup – Instance backup and archive

- An Instance retention policy needs to be in place to match Regulatory Requirements and internal governance
- Instances should be able to be exported to neutral formats
- Instances need to be able to be restored at any time to any object in the system





System Backup – Instance Restoration

- Instances that have been archived can be restored to any location on a system, or to any other system
- You may wish to archive ALL instances before migrating, and then selectively restore them to the new system – even if it's a different version

The screenshot shows the 'Instance List - Offline Archive' window in BusinessObjects Enterprise. The window has a menu bar with 'File', 'Edit', 'Action', and 'Help'. Below the menu bar are tabs for 'BusinessObjects Enterprise', 'Offline Instances', 'Object Backups', 'Application Object Backups', and 'System Object Backups'. The main area displays a table of offline instances. The 'Action' menu is open, showing options: 'Archive to Online Archive', 'Archive to Offline Archive', 'Delete From Offline Archive', 'Restore to Original Location - Active', 'Restore to Original Location - Online Archive', and 'Restore to a New Location'. The table columns are: Status, Name, Type, Exported Type, Last Archived, and Start Date. The table contains 15 rows of data, including instances like 'XtremeSalesByCountry' and 'Comparative Income Statement'.

Status	Name	Type	Exported Type	Last Archived	Start Date
Offline			PDF	2015-10-16 11:05:53	2015
Offline			PDF	2015-10-16 11:05:42	2015
Offline			PDF	2015-10-16 11:05:31	2015
Offline			PDF	2015-10-16 11:04:36	2015
Offline			PDF	2015-10-16 11:04:26	2015
Offline			PDF	2015-10-16 11:04:14	2015
Offline			PDF	2015-10-16 11:04:03	2015
Offline	XtremeSalesByCountry	Report	PDF	2015-10-16 11:03:52	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:08:18	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:08:06	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:07:54	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:07:07	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:06:54	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:06:39	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:06:27	2015
Offline	XtremeSalesByCountry-MandatoryPar...	Report	PDF	2015-10-16 11:06:15	2015
Offline	Comparative Income Statement	Report	PDF	2015-10-16 10:44:09	2015



System Optimization

- **Optimization**

- Baseline runtimes for critical reports
- Baseline system resource consumption by service
- Schedule usage analysis
- Report usage analysis
- License usage analysis
- Schedule destination analysis





System Optimization – BI Service Resource Usage Baselines

- Understand the OS resources being used
 - Helps to determine sizing for the BI system
 - Highlights any anomalies in resource usage

		Average
CMS - PID# 4112	AP_WorkingSet64 (bytes)	330,766,277
	AP_NonpagedSystemMemorySize64 (bytes)	745,826
	AP_PeakVirtualMemorySize64 (bytes)	676,643,401
	AP_PagedMemorySize64 (bytes)	403,342,014
	AP_PrivilegedProcessorTime (ms)	68,445
	AP_ThreadsCount	143
	AP_ProcessorUsagePercent	1.3
crcache - PID# 5096	AP_WorkingSet64 (bytes)	205,865,662
	AP_NonpagedSystemMemorySize64 (bytes)	63,017
	AP_PeakVirtualMemorySize64 (bytes)	3,066,994,688
	AP_PagedMemorySize64 (bytes)	341,927,526
	AP_PrivilegedProcessorTime (ms)	8,106
	AP_ThreadsCount	114
	AP_ProcessorUsagePercent	0.1
crproc - PID# 4300	AP_WorkingSet64 (bytes)	28,433,730
	AP_NonpagedSystemMemorySize64 (bytes)	36,964
	AP_PeakVirtualMemorySize64 (bytes)	139,958,565
	AP_PagedMemorySize64 (bytes)	17,155,043
	AP_PrivilegedProcessorTime (ms)	2,950
	AP_ThreadsCount	33
	AP_ProcessorUsagePercent	0.1



System Optimization – Report Runtime Baselines

- Understand the average run-time for report instances
 - Helps to determine resource requirements
 - Aids in determining report run-time windows

APOS Insight
Historical Instances by Format & Destination

92 Reports scheduled.

Format: Excel

Destination	Instances	Latest Instance Date	Avg. Runtime (secs.)
Repository	1	1/9/2018 1:56:46 PM	15
Total	1	1/9/2018 1:56:46 PM	15

Format: Pdf

Destination	Instances	Latest Instance Date	Avg. Runtime (secs.)
Inbox (Shortcut)	14	6/9/2017 9:41:50 AM	8.14
Total	14	6/9/2017 9:41:50 AM	8.14

Format: Program

Destination	Instances	Latest Instance Date	Avg. Runtime (secs.)
Repository	1	11/21/2017 3:26:26 PM	7
Total	1	11/21/2017 3:26:26 PM	7


Format: Report

Destination	Instances	Latest Instance Date	Avg. Runtime (secs.)
Inbox (Copy)	2	11/1/2017 3:48:14 PM	10.5
Inbox (Shortcut)	4	11/21/2017 3:26:33 PM	4.67
Repository	40	2/5/2018 10:43:48 AM	6.75
SMTP (Includes 1 Attachment)	9	1/26/2018 11:24:41 AM	2



System Optimization – Schedule Usage Analysis

- Discover if report instances are actually being viewed by users

 **APOS Insight**
Report Activity by Type and Folder For Dates From 1/1/2018 12:00:00 AM to 5/1/2019 2:23:02 PM

Activity: View Instance

Folder Location: /APOS Crystal Burst Test

Object Name	Object Type	User Name	Report Owner	Activity Date/Time	Activity Count
Sales by Country	Adobe Acrobat	Fred	Administrator	3/28/19 4:28 PM	1
Sales by Country	Crystal Reports	Frank	Administrator	3/29/19 9:43 AM	1
Sales by Country	Crystal Reports	Zachary	Administrator	3/29/19 2:12 PM	1
				Sum:	3

Folder Location: /APOS Insight Reports/Oracle

Object Name	Object Type	User Name	Report Owner	Activity Date/Time	Activity Count
Other - Event Listing	Crystal Reports	Fred	Administrator	3/23/18 1:10 PM	1



System Optimization

- **Verification**

- Data output, control reports
- Report content verification

- **Risk assessment**

- Security on folders
- Group memberships



System Optimization – Security Analysis



APOS Insight Security by Type					
Feature Samples					
Location: /Report Samples/Feature Samples					
Scan Date: Jan 1, 2000					
	Role	Delete Rights	Edit Rights	Modify Rights	Schedule Rights
Administrator	Full Control	G	G	G	G
Administrators	Full Control	G	G	G	G
APOS Distribution Server	Full Control	G	G	G	G
Bob	Full Control	G	G	G	G
Doug	Schedule	D	G	G	G
Fred1	Full Control	G	G	G	G
Financial					
Location: /Report Samples/Financial					
Scan Date: Jan 1, 2000					
	Role	Delete Rights	Edit Rights	Modify Rights	Schedule Rights
Administrator	Full Control	G	G	G	G
Administrators	Full Control	G	G	G	G

APOS Insight Group Listing with Users	
HR	
Concurrent	
User Name	User Full Name
Harold	Harold
Harriet	Harriet
Harry	Harry
Helen	Helen
Henry	Henry
Count	5
Management	
Total for Group: 5	
Concurrent	
User Name	User Full Name
Harry	Harry
Mike	Mike
Peter	Peter
Roger	Roger
Sarah	Sarah
Count	5



Test Plan

- The final step in preparing for the migration is to develop a test plan
- By using all of the information gathered in the previous steps you can validate that the migrated system meets or exceeds all of the critical operational values
 - Are report run-times within tolerances?
 - Are BI or other critical services consuming the appropriate amount of system resources?
 - Has the appropriate Content Backup strategy been implemented?
 - Can backed up objects and archived report instances be restored on an as-needed basis?
 - Has group membership been verified and compared against security settings on the BI folder structure?
 - Are data connections validated?
 - Has report output been validated between original and migrated system?



Test Plan– Report Validation

- Automate Report Content between the original system and the migrated system

Search **Project - 2016-2-19-9-41-10-203.avp**

BI Connection Info
Source: Validation Manager@bi41sp5dvn **Change** **Target:** Administrator@sql2008r2dvn **Change**

Filters
 Show Not Attempted Show Successful Show Successful With Warnings Show Failed **Check All** **Uncheck All**

Webi Objects

UID	Source Parameters	Schedules	Instances	Target Name	Target Path	Target CUID	Target Parameters
vZZII...	Enter value(s) for Ope...	0	0	efashion - 1 datetime 1 bool...	/Testing/Webi Migrator/efa...	AW4gH2wZZII...	Enter value(s) for Ope...
nedLn...	Enter value(s) for City....	0	0	efashion - 2 prompts default ...	/Testing/Webi Migrator/efa...	Ac0G_x_fnedLn...	Enter value(s) for City....
uHVFI...	Enter value(s) for City....	0	0	efashion - 2 string op prompt	/Testing/Webi Migrator/efa...	AS.kUwduHVFI...	Enter value(s) for City....
tcQhF...		0	0	efashion - Purged	/Testing/Webi Migrator/efa...	AUTJcDntcQhF...	
Y99Gi...		0	0	efashion - Refresh on Open	/Testing/Webi Migrator/efa...	AXiLXuSAY99Gi...	
hdg9V...	Enter value(s) for Ope...	0	0	Webi - 2 UNV - 1 date prom...	/Testing/Webi Migrator/We...	ASQnPm9dg9V...	Enter value(s) for Ope...
_JcK2...	Enter value(s) for Ope...	0	0	Webi - 2 UNV - 1 date prom...	/Testing/Webi Migrator/We...	Adsk_jk.q_JcK2...	Enter value(s) for Ope...

Legend
Object Not Found In BI System Value Doesn't Match BI System Value Doesn't Match Source Value Doesn't Match Source or BI System

APOS Solutions for SAP BusinessObjects



Insight

- System Inventory
- Security Analysis
- System Usage Analysis
- Report Impact Analysis
- Advanced System Monitoring
- Operating Environment Monitoring



Administrator

- Rapid Security Management
- High-Volume System Management
- Object Settings and Preferences Management
- Object Promotion
- Schedule Management
- Instance Management



Storage Center

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



IDAC

- BI Query Governance
- Real-time BI Query Monitoring
- Query Performance Alerting
- Query Intervention; Remote Cancelling
- Query Processing and Pattern Analysis
- Sensitive Data Audit



Publisher

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



Validation Manager

- Automated Report Testing
- Regression Testing
- BI Migration and Upgrade Testing
- Validation of Report Data – Schedules, Instances
- Report Performance Testing



Web Intelligence Migrator

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



Live Data Gateway

- Live Data connectivity for Analytics Cloud & Analysis Office
- Expanded data source options
- Simplified data discovery experience
- Flexible data selection
- Data does not leave firewall

APOS Upgrade BI S³ Bundle



- Bundle of key upgrade and migration focused technologies from APOS
 - Effective automation for all stages of upgrade - Preparation, Execution, Validation
- Licensed solely for use during the migration process stages
 - Streamline, speed, and stabilize your upgrade
 - Upgrade-focused pricing; excellent value
- Upgrade Smart
 - Build deep system knowledge; understand content priorities
- Upgrade Strong
 - Automate bulk transition and upgrade administrative operations
 - strong system content management
- Upgrade Safe
 - Mitigate risk; validate content; optimize security

UpgradeBI S³
Smart.Strong.Safe.





APOS BI on BI Service

In collaboration with the SAP Analytics Center of Excellence, APOS has developed the BI on BI application to deliver a system scan and analysis service designed to provide SAP BusinessObjects customers with a snapshot of their BI deployment, answering questions such as:

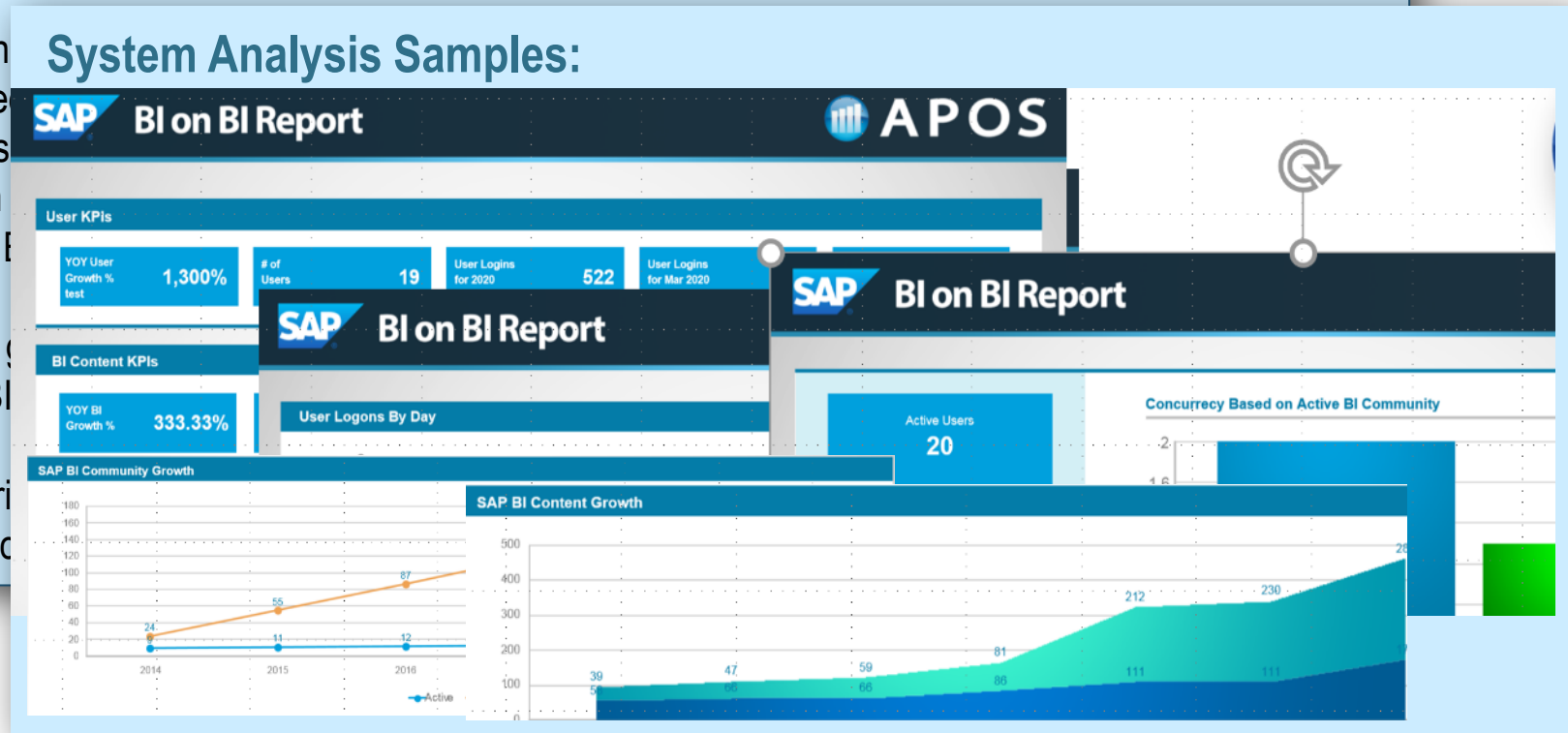
- What is the activity level on
- How have activity levels be
- Who are my most active us
- What reports in my system
- What is the makeup of the

This is a no-fee service which

BI deployment to assist with BI

For system right-sizing scenari

capabilities that the customer c



APOS Solutions for SAP Analytics Cloud



APOS Live Data Gateway - *Unlock Live Data for SAP Analytics Cloud*

- Live data connectivity from SAC to a wide range data sources
- Leverage data from many industry standard relational, OLAP, Cloud & Hadoop sources
- No need to replicate data or duplicate data security; Data doesn't leave the firewall



APOS UMMA - *Translate SAP BI modelling to HANA modelling*

- Automated, project-based workflow to translate SAP BusinessObjects modelling to HANA
- Leverage investment in SAP BI modelling and content assets; Leverage HANA investment
- Speed adoption of SAP Analytics Cloud and Hybrid BI; Run SAP BI and SAC in parallel



APOS Publisher for Cloud – *Burst and Distribute SAP Analytics Cloud content*

- Dynamic, data-driven bursting of SAP Analytics Cloud content to end users
- Flexible, customized, secure distribution of personalized report content
- Powerful range of destinations and formats; Security and encryption



APOS Insight for Cloud - *SAP Analytics Cloud Monitoring & Auditing*

- Monitor availability and performance of SAP Analytics Cloud system and stories
- Set performance thresholds criteria to trigger monitoring alerts
- Analyze and compare metrics across user locations and tenants

Upcoming Events



Extend Analytics Data Connectivity - Unified Data Access - *Webinar*

February 25, 2021 –11 am EST

SAP Analytics Cloud has native connectivity for SAP HANA, SAP Data Warehouse Cloud and other SAP data sources, but most organizations will require data connectivity to other data sources for complete analytics.

This webinar will discuss ways you can use **APOS Live Data Gateway** and **APOS UMMA** to extend and unify data access, including:

- Importing to SAC for planning using APOS OData
- Consuming connections using APOS OData
- Convert SAP BI Universes to APOS Views



Register at www.apos.com

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Join easily by searching "SAP Analytics Cloud (SAC)" & Request to Join on
LinkedIn!

QUESTIONS?

Please enter your questions in the Q&A panel.



Thank You!

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