

WEBINAR

Automating Your Upgrade to UNIX Universes



Today's Session

Key Topics

- The UNX Adoption Challenge
- Upgrade Process Steps
- Automation of Process Steps
- Process Controls
- Volume & Scalability
- Field Mapping
- Q&A – see webinar console



Today's Presenters:



FRED WALTHER
Senior Solution Consultant



TOMMASO ALBERGHINI
Solution Consultant



Who is APOS?

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





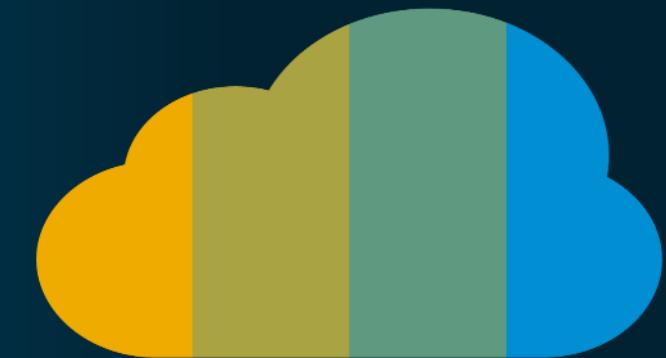
APOS



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

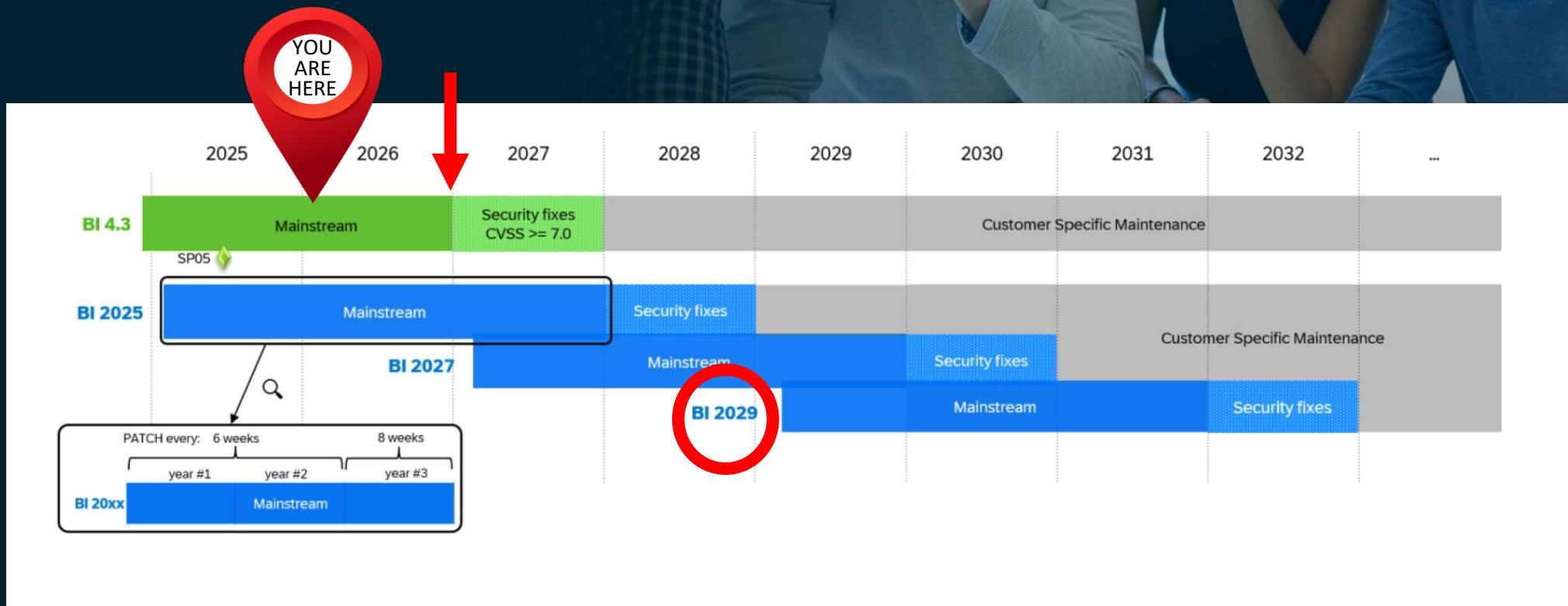


Download the **handouts** in the panel



Tell us how we did in the **survey**

Preparing for BI 2025:



Preparing for BI 2025:

The UNX Adoption Challenge



Upgrade Challenge: UNV Deprecation

Across BusinessObjects deployments, the UNV universe is the most common and prevalent universe format in use.

- Vast amounts of Web Intelligence reports rely on UNV universes
- BI 2025 will not support UNV, so all relevant content must be migrated to UNX format

Solution Requirement: Upgrade Content

Relevant content for upgrade to UNX format includes:

- all UNV universes must be upgraded to UNX format
- all Web Intelligence reports that connect to those universes must have their connection changed from the old UNV universe to the new UNX universe

Solution Barrier: Heavy Manual Process

Manual update of all universes and individual reports is very time consuming, so many organizations have avoided starting the project of UNX adoption.

UNX Adoption Steps

Required process steps include:

- Manual conversion of universes from UNV to UNX format
- Publish new UNX universe
- Manual repointing of Web Intelligence report to new UNX format universe
- Verify and validate the repointed Web Intelligence report results
- Publish the repointed Web Intelligence report

UNX Universe Adoption Considerations

Manual Upgrade Time Estimates

- Manual conversion of universes from UNV to UNX format
 - 5 minutes per universe
- Publish new UNX universe
 - 2 minutes per universe
- Manual repointing of Web Intelligence report to new UNX format universe
 - 10-15 minutes per report
- Verify and validate the repointed Web Intelligence report results
 - 8-10 minutes per report
- Publish the repointed Web Intelligence report
 - 2 minutes per report

UNX Universe Adoption Considerations

Example Manual Upgrade Estimate

Example Scenario:

- 50 universes
- 5000 Web Intelligence reports
- 50 universes @ 7 minutes/universe = 350 minutes
- 5000 reports @ 20 - 27 minutes/report = 100,000 – 135,000 minutes
= ~1700 - 2250 hours
(212 – 281 days)
- Total time of 1700 – 2250 hours @ \$/€ per hour = BIG number \$/€
 - @ \$/€ 40 per hour = 68K – 90K raw project personnel cost

What are the costs if you have a larger deployment??

UNX Universe Adoption Considerations

Automate the upgrade process!

- Massive time savings
- Dramatically reduced costs
- Minimize the use of and distraction of precious team resources
- Control system change risks, remove manual error risks
- Simplify coordination of BI Team and User departments
- Execute a controlled, manageable, successful upgrade project

APOS Web Intelligence Migrator

Customer Profile

Large multi-national financial institution focused on life & health insurance, and investment services

- Global operating units, NA primary focus
- Thousands of geographically distributed locations and advisors serving millions of customers

Landscape & Core Challenge

- SAP BusinessObjects BI 4.3, long-term commitment
- 100+ UNV universes
- 4,000+ Web Intelligence reports

Upgrade UNV universes to UNX, repoint and test
Web Intelligence reports in a structured and orderly fashion



Outcomes & Customer Success

With APOS Web Intelligence Migrator successfully deployed, the centralized BI team:

- Managed project time and resources efficiently
- Coordinated upgrades across multiple BI user departments effectively
- Vastly reduced cost and execution time
- Reduced technical debt and streamlined SAP BusinessObjects administration



"We were able to turn a very large and challenging upgrade project into one that we executed within a very controlled time with few resources. We completed the project well ahead of schedule, and the cost savings were dramatic."

"My BI operations team and our departmental user teams experienced no disruption, and now we are well positioned for our BusinessObjects future. Thanks APOS!"

Technical Director, Data & Business Intelligence Technology



Tommaso Alberghini
Solution Consultant
APOS

APOS Web Intelligence Migrator

(WebI Migrator) - A migration solution focused on automating time and labor-intensive activities of upgrading to the UNX universe within SAP BusinessObjects.

UNV Reports



UNX Reports

Key Upgrade Process Steps

- Scan System and Inventory Content
- Bulk Conversion of Universes
- Bulk Repointing of Reports
- Bulk Validation of Upgrade Success
- Commit Changes



Scan System and Inventory Content

Why scan system and inventory its content?

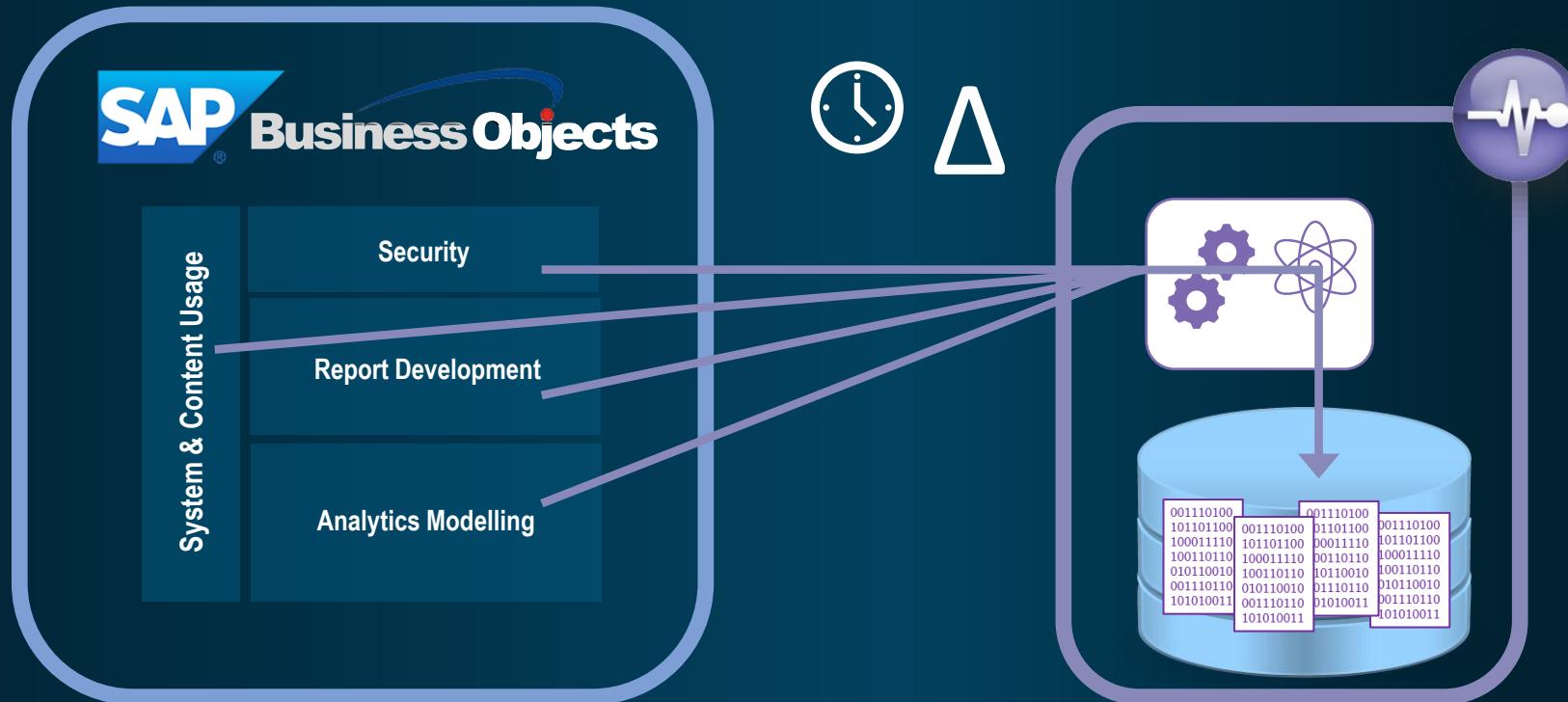
- Get a clear understanding of what content is in your system
- Identify what content can be excluded from the upgrade
- Capture detailed report structure metadata for reference later in process



System Metadata



System Metadata



System Analysis

APOS Insight

List Objects by Type for System: PRODUCTION

| Object Type | Number of Objects |
|--------------------------------|-------------------|
| ClientAction | 469 |
| Webi | 129 |
| Report | 126 |
| Folder | 84 |
| ClientActionUsage | 68 |
| ClientActionSet | 66 |
| MON ManagedEntityStatus | 28 |
| CCIS.DataConnection | 15 |
| PlatformSearchContentExtractor | 11 |
| TaskTemplate | 10 |
| MON Probe | 9 |

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/cfc/customer_dborders.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/cfc/customer_dborders.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/cfc/customer_dborders.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-Reynholm 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\iSAP 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

SAP BI on BI Report

APOS

Concurrent Sessions By Day

For this scenario, we will retrieve the maximum number of concurrent sessions that we saw and then display the max number of concurrent sessions per day.

| Date | Max Logons |
|-----------|------------|
| 8/28/2020 | 20 |
| 8/29/2020 | 18 |
| 8/30/2020 | 15 |
| 8/31/2020 | 18 |
| 9/1/2020 | 15 |
| 9/2/2020 | 18 |
| 9/3/2020 | 15 |
| 9/4/2020 | 20 |
| 9/5/2020 | 18 |
| 9/6/2020 | 15 |
| 9/7/2020 | 18 |
| 9/8/2020 | 15 |
| 9/9/2020 | 18 |
| 9/10/2020 | 15 |
| 9/11/2020 | 18 |
| 9/12/2020 | 15 |
| 9/13/2020 | 18 |
| 9/14/2020 | 15 |
| 9/15/2020 | 18 |
| 9/16/2020 | 15 |
| 9/17/2020 | 18 |
| 9/18/2020 | 15 |
| 9/19/2020 | 18 |
| 9/20/2020 | 15 |
| 9/21/2020 | 18 |
| 9/22/2020 | 15 |
| 9/23/2020 | 18 |
| 9/24/2020 | 15 |
| 9/25/2020 | 18 |
| 9/26/2020 | 15 |
| 9/27/2020 | 18 |
| 9/28/2020 | 15 |
| 9/29/2020 | 18 |
| 9/30/2020 | 15 |
| 10/1/2020 | 18 |
| 10/2/2020 | 15 |

APOS Insight Universe List with Reports

| Provider and Name | Number of Reports |
|---|-------------------|
| APOS Insight/Insight4 - SQL Server | 37 |
| APOS Insight/Insight4 - Oracle | 35 |
| Samples/eFashion.unx | 32 |
| Samples/Rio2016.unx | 14 |
| WebMigrator/UX/WebMigrator.unx | 7 |
| Fun/Test.unx | 4 |
| sharp1/5400/Application_Folder/Root/unconnections/insight4 - SQL Server | 2 |
| Monitoring/TrendData Universes/TrendData Universe | 1 |
| Report Conversion Tool Universes/Version Tool Audit Universe | 1 |
| WebMigrator/WebMigrator | 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 |

Analyze System + Content Metadata

- Find unused reports
- Understand report content

 APOS Insight
Unused Objects in Date Range

Unused Reports from: 01/01/2023 00:00:00 to 08/03/2023 00:00:00

[Insight User to Ignore: APOS_Insight_User](#)

/Report Samples/Demonstration
Comparative Income Statement

 APOS Insight
Webi Impact Analysis

Searched for Table: AP_UsersAndGroups;AP_USERSANDGROUPS

Searched for Column: All Columns

System: BI41SP6FW

Folder: /APOS Insight Reports/Oracle

| Report Name | Universe Name | UniType | TableName | ColumnName |
|------------------------------------|-------------------|---------|-------------------|-------------------|
| Objects - Group Listing with Users | Insight4 - Oracle | UNV | AP_USERSANDGROUPS | AP_TYPE |
| Objects - Group Listing with Users | Insight4 - Oracle | UNV | AP_USERSANDGROUPS | SI_CHANGEPASSWORD |
| Objects - Group Listing with Users | Insight4 - Oracle | UNV | AP_USERSANDGROUPS | SI_NAME |



Bulk Conversion of Universes

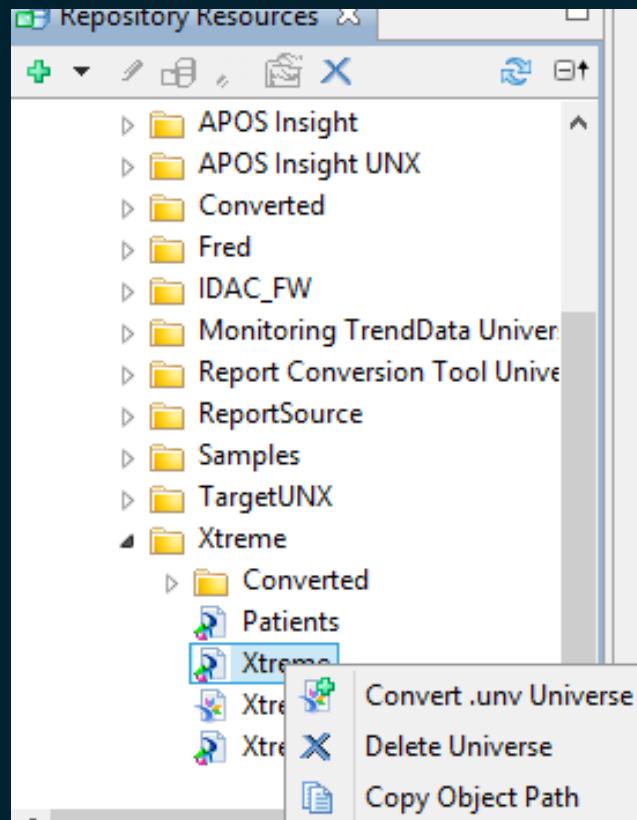
Key Considerations

- Understand which universes need to be converted
- Understand which universes can be ignored due to non-usage
- Convert UNV to UNX quickly and easily



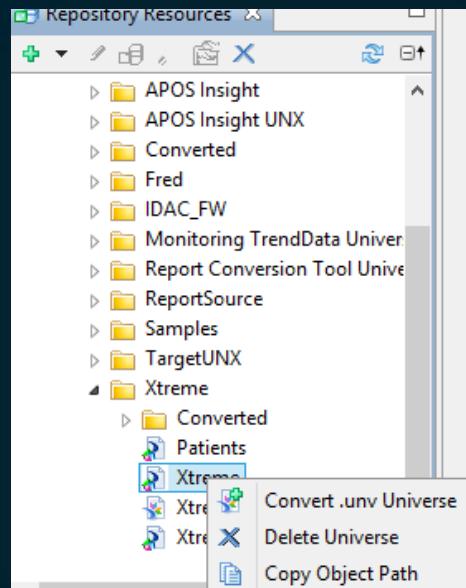
Conversion of Universes

- Convert 1 by 1 in the IDT

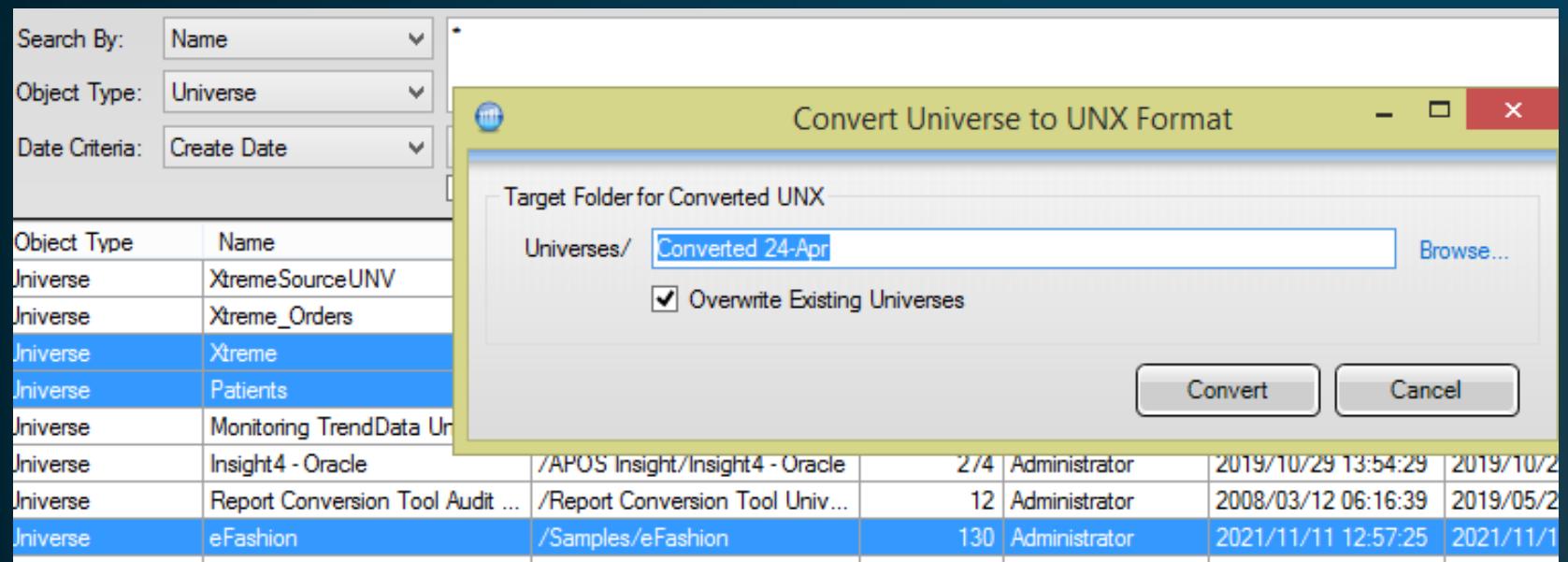


Conversion of Universes

- Convert 1 by 1 in the IDT



- Convert in bulk: WebI Migrator



Bulk Repointing of Reports

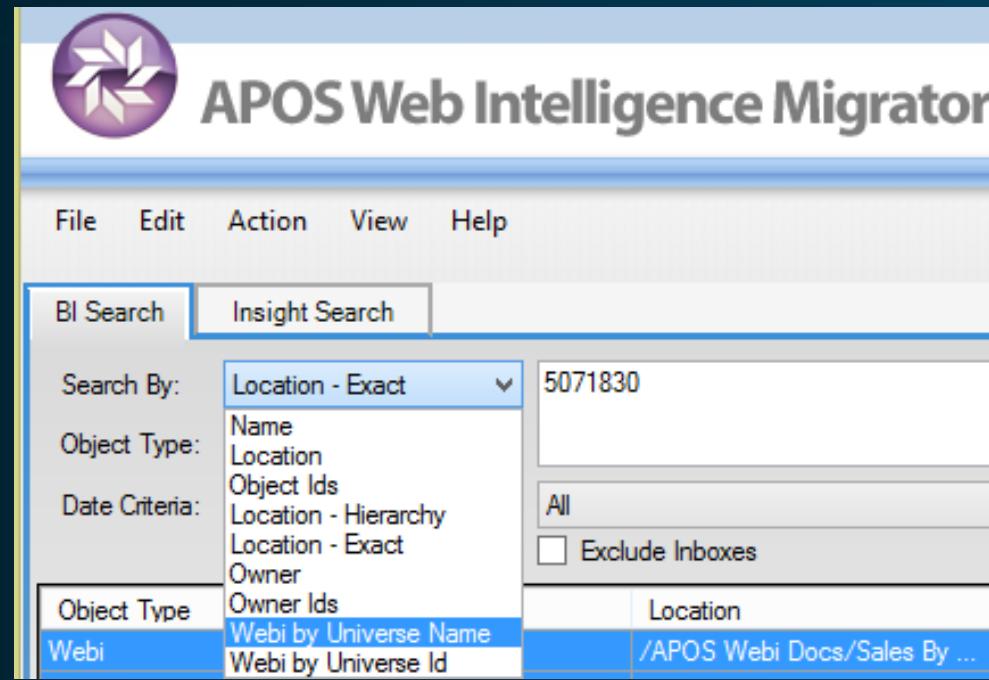
Key Considerations

- Work with manageable chunks of reports
- Retain any Custom SQL that reports are using
- Spread the processing load across multiple machines



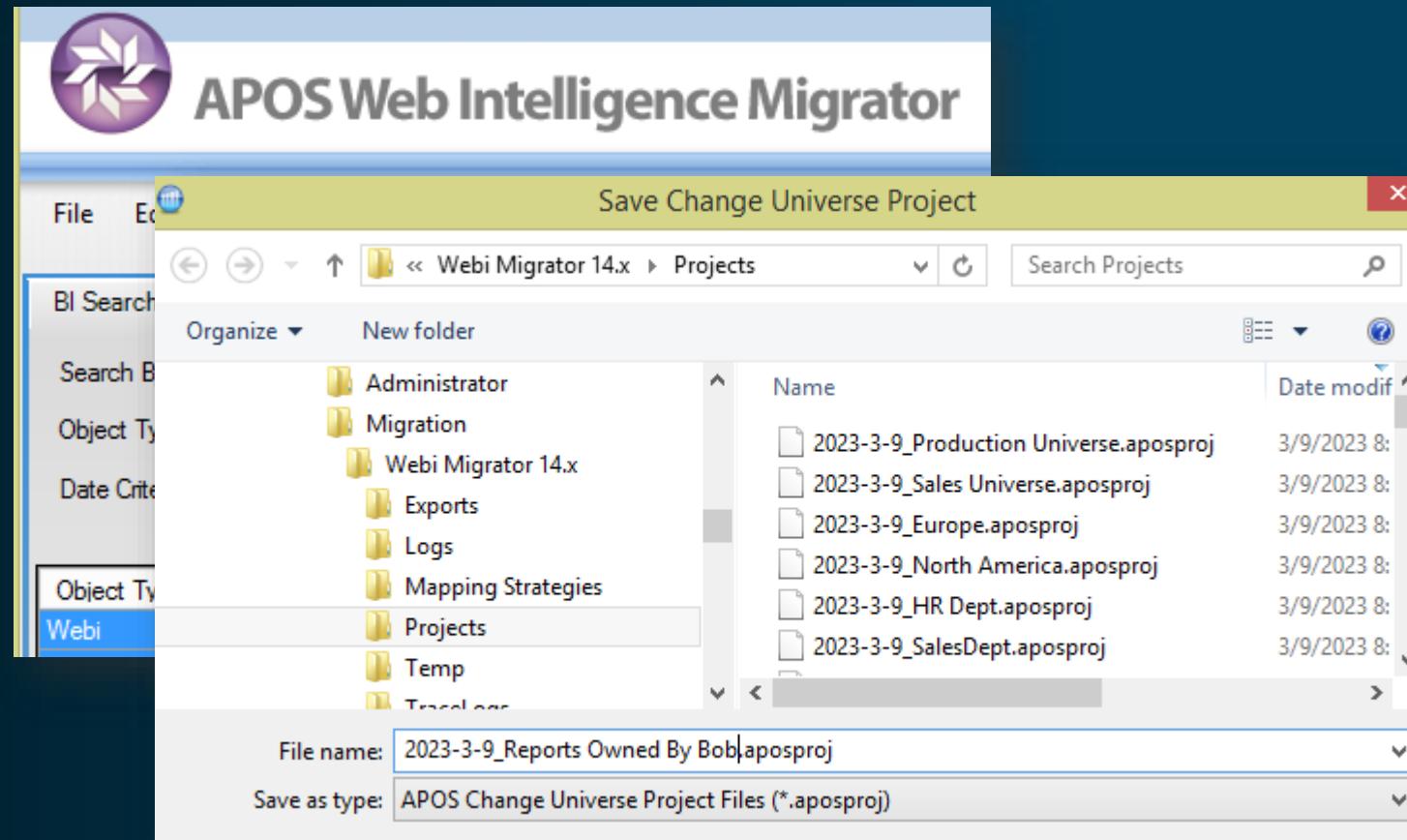
Bulk Repointing of Reports

- Select reports by your choice of criteria
- Use a project-based approach to streamline and control the repointing
- Ensure that only those reports that are being used in the organization are repointed

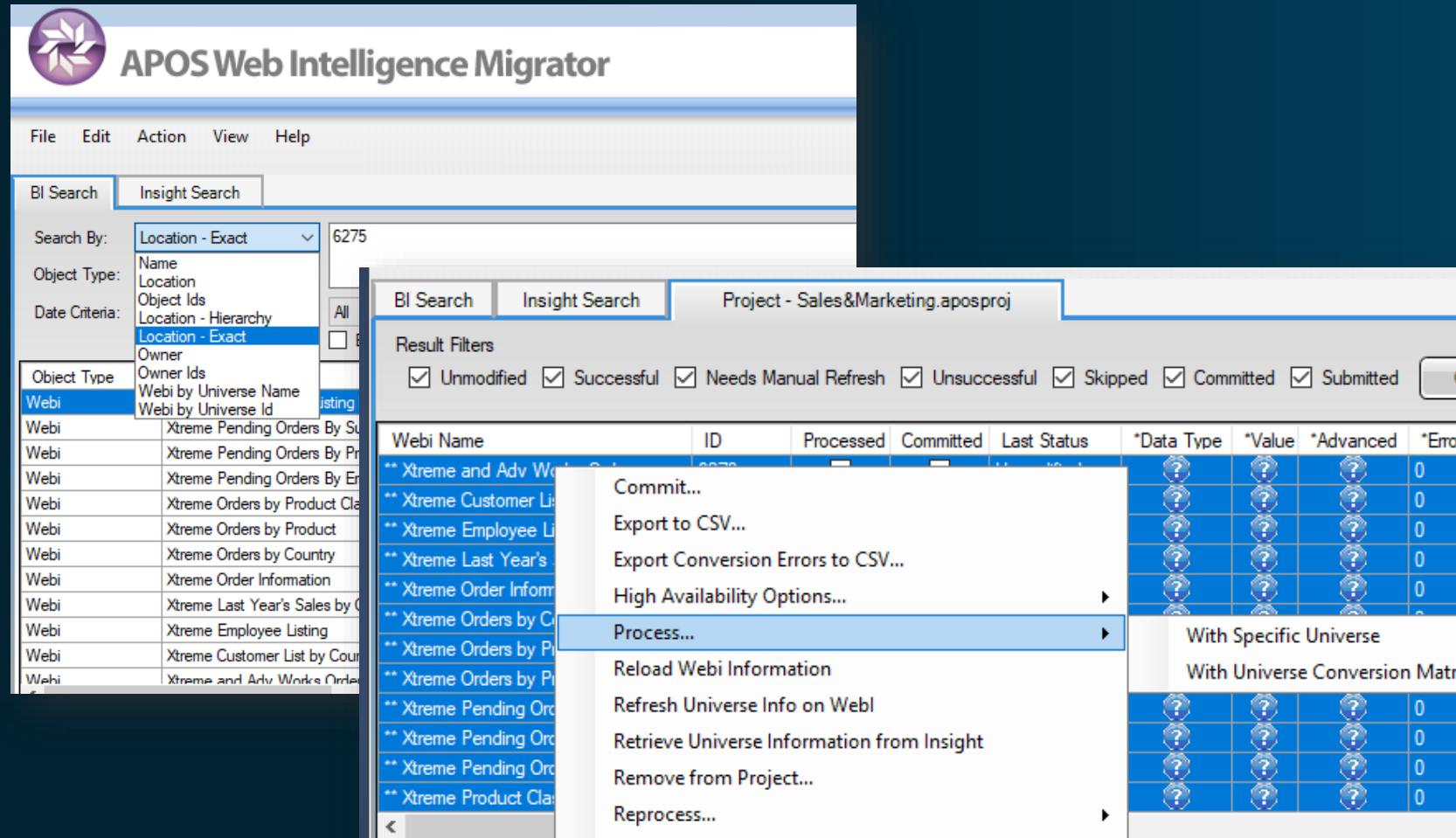


Bulk Repointing of Reports

- Select reports by your choice of criteria
- Use a project-based approach to streamline and control the repointing
- Ensure that only those reports that are being used in the organization are repointed



Bulk Web Intelligence Repointing – Process



The screenshot shows the APOS Web Intelligence Migrator application. The main window title is "APOS Web Intelligence Migrator". The menu bar includes File, Edit, Action, View, and Help. The top navigation bar has tabs for BI Search and Insight Search, with BI Search selected. A search bar shows "Search By: Location - Exact" and "Object Type: Webi". The main content area displays a list of Webi objects, with the first item selected: "Xtreme Pending Orders By Sub". A context menu is open over this item, listing the following options:

- Commit...
- Export to CSV...
- Export Conversion Errors to CSV...
- High Availability Options...
- Process... (selected)
- With Specific Universe
- With Universe Conversion Matrix
- Reload Webi Information
- Refresh Universe Info on Webi
- Retrieve Universe Information from Insight
- Remove from Project...
- Reprocess...

The background shows a second window titled "Project - Sales&Marketing.aposproj" with "BI Search" selected. It displays "Result Filters" and a table of Webi objects with columns: Webi Name, ID, Processed, Committed, Last Status, *Data Type, *Value, *Advanced, and *Errors. The table contains several rows of Webi objects, each with a status icon and a question mark icon.

Bulk Validation of Upgrade Success

Key Considerations

- Reports need to be trusted
- Validation needs to happen quickly
- Validation should be automated



Bulk Validation of Upgrade Success

Project - 2023-3-2

Successful Unsuccessful

| ID | Process |
|---------|-------------------------------------|
| 5071891 | <input checked="" type="checkbox"/> |
| 5071896 | <input checked="" type="checkbox"/> |
| 5071857 | <input checked="" type="checkbox"/> |
| 5071855 | <input checked="" type="checkbox"/> |
| 5071859 | <input checked="" type="checkbox"/> |
| 5071847 | <input checked="" type="checkbox"/> |
| 5071845 | <input checked="" type="checkbox"/> |
| 5071915 | <input checked="" type="checkbox"/> |
| 5071875 | <input checked="" type="checkbox"/> |
| 5071877 | <input checked="" type="checkbox"/> |
| 5071869 | <input checked="" type="checkbox"/> |
| 5071903 | <input checked="" type="checkbox"/> |

Webi Validation Options

Specify Webi Validation Options

Source Document

Webi Document Latest Instance Latest Recurring Instance

Validate As

Current User (administrator) Report Owner Specific User: 

 This feature requires that BI impersonation and trusted authentication be enabled

Basic Validation Options

Validate Data Types Validate Values

Count Errors Sort Result Set Before Validating

Advanced Validation Options (Requires both basic validations be performed)

Maximum number of simultaneous validations:

Restrict validation to

First KB Last KB Ignore invisible characters

Specified columns:

Example: A, C-E, G will validate columns A, C, D, E, G.

Warning: When using both the First KB and the Skip first rows options, if the value of the First KB option isn't large enough to contain more rows than the value of the Skip first rows option, the validation will always be considered as successful, as there will be no rows eligible to validate

Discard results of previous validations

Validate **Cancel**

- Ensure correct user is set
- Select how validation occurs
- Exclude certain rows/ columns



Commit Phase

Key Considerations

- Which Web Intelligence report will be used going forward – original or copy?
- Ensure that recurring schedules are maintained

Now

Later



Commit Phase

Webi Commit Options

Specify Webi Commit Options

Backup original Webi document before committing
 Include Security

Commit Webi document to previously designated Webi Target Path
Selecting this option will result in a new Webi document located in your designated Webi Target Path
 Delete original Webi document

Commit Webi document to original Webi document's location
Selecting this option will cause the original Webi document to be updated with the new universe information.

Maintain original submitter for recurring instances

Commit **Cancel**

Discard results of previous validations

Recurring Instance
User: Felix
Impersonation and trusted authentication be enabled

Set Before Validating
Validations be performed

KB
Ignore invisible characters

Skip first 1 rows
rows
s A, C, D, E, G.
rows options, if the value of the First KB option isn't
Skip first rows option, the validation will always be
e to validate

Validate Cancel

Web Intelligence Migrator Overview

Solution Demonstration

To view this demonstration, watch the webinar on demand [here](#).



Process Control Features

- Projects Structure
- High Availability



APOS Web Intelligence Migrator

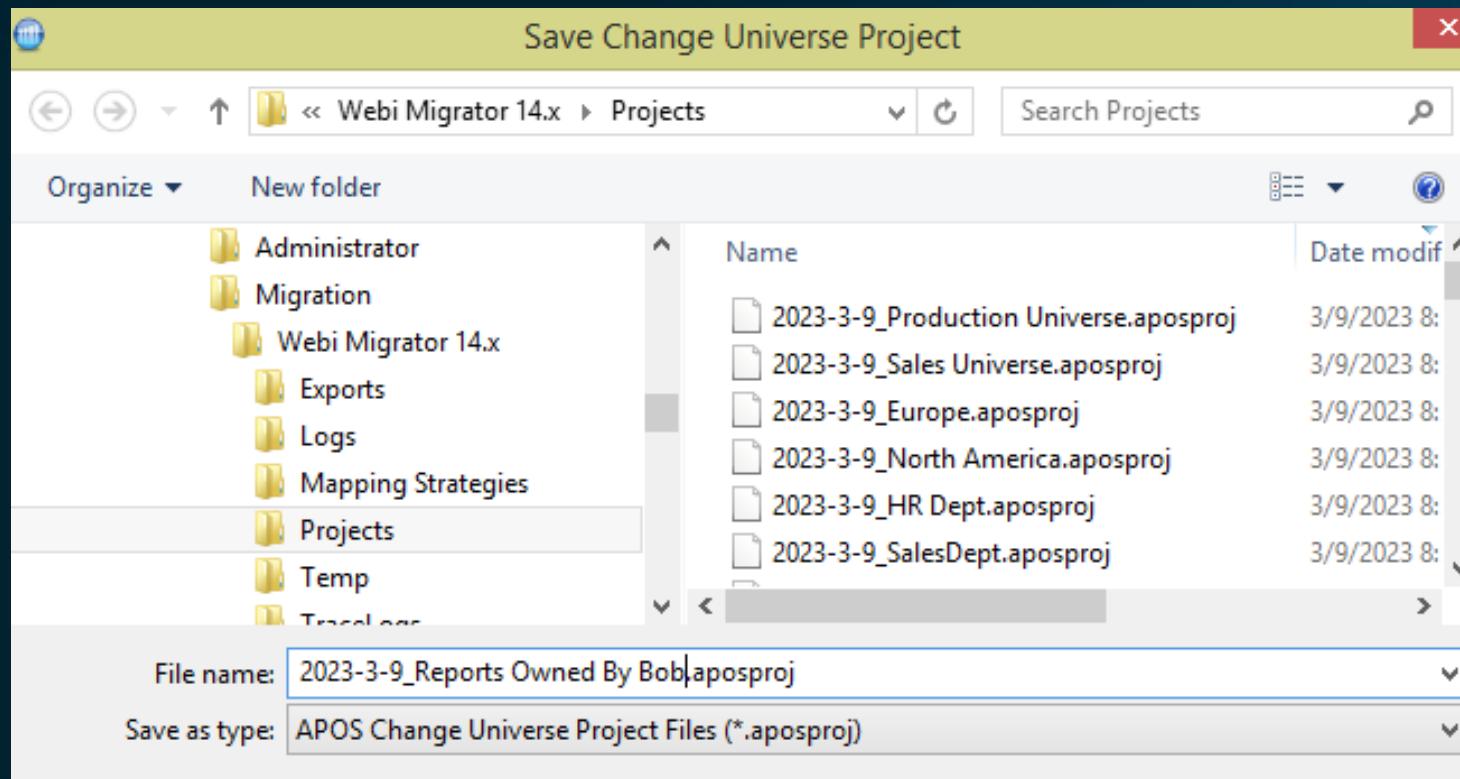
Projects Structure

Key Considerations

- Organized approach to repointing
- Work in manageable chunks



Projects Structure



- Name the projects meaningfully



Projects Structure

Save Change Universe Project

Webi Migrator 14.x > Projects

Organize New folder

Administrator

APOS Web Intelligence Migrator

File Edit Action View Help

BI Search Insight Search Project - 2023-3-7-13-36-14-133.aposproj

Result Filters

Unmodified Successful Unsuccessful Skipped Committed Sub

| Webi Name | ID | Processed | Committed | Last Status | *Data Type | *Value |
|-------------------------------------|---------|-------------------------------------|--------------------------|-------------|------------|--------|
| Customer List By Country | 5071891 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Customer List By Country and Region | 5071896 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Product Class Sold by Country | 5071857 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Product Name Sold by Country | 5071855 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Product Type Sold by Country | 5071859 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Quantity Sold by Country | 5071847 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Sales By Country | 5071845 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Sales By Customer | 5071915 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Sales by Product Class | 5071875 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Sales by Product Name | 5071877 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |
| Sales by Product Type | 5071869 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Successful | | |

- Name the projects meaningfully
- Work on them when you have the time
- Process all reports together or select specific reports





**High Availability
High Scalability**

UNV Reports

UNX Reports

High Availability

Key Considerations

- Need to work with many thousands of reports
- Need to spread the load across multiple machines
- Automate for high volume processing, less user intervention



High Availability

- Batches are executed on multiple machines
- Console allows monitoring of batch status
- Pause/Resume pending batches

Webi Migrator High Availability System Status

Current Status Completed Jobs

Summary

| Job Type | Pending | Processing | Paused | Successful | Failed |
|-----------------|---------|------------|--------|------------|--------|
| Change Universe | 0 | 1 | 0 | 71 | 13 |
| Commit | 0 | 0 | 0 | 35 | 1 |

Details

| Submission Date | Source Machine | Project | Job Type | Time Received | Processing Start Time | Processing End Time | Pending | Processing | Paused | Successful | Failed |
|-----------------------|----------------|--------------------------|-----------------|-----------------------|-----------------------|-----------------------|---------|------------|--------|------------|--------|
| 10/12/2022 1:55:34 PM | BI42SP9 | 2022-10-12-13-53-53-6... | Change Universe | 10/12/2022 1:56:03 PM | 10/12/2022 1:56:36 PM | 10/12/2022 1:56:54 PM | 0 | 0 | 0 | 0 | 1 |
| 9/21/2022 10:46:19 AM | BI42SP9 | 2022-9-21-10-44-15-91... | Change Universe | 9/21/2022 10:46:46 AM | | | 0 | 0 | 0 | 0 | 1 |
| 9/22/2022 9:43:52 AM | BI42SP9 | 2022-9-21-10-44-15-91... | Change Universe | 9/22/2022 9:44:07 AM | | | 0 | 0 | 0 | 0 | 1 |
| 9/22/2022 10:36:21 AM | BI42SP9 | 2022-9-21-10-44-15-91... | Change Universe | 9/22/2022 10:36:37 AM | | | 0 | 0 | 0 | 0 | 1 |
| 9/22/2022 10:47:14 AM | BI42SP9 | 2022-9-21-10-44-15-91... | Change Universe | 9/22/2022 11:37:23 AM | | | 0 | 0 | 0 | 0 | 1 |
| 9/22/2022 1:29:44 PM | BI42SP9 | 2022-9-21-10-44-15-91... | Change Universe | 9/22/2022 1:30:12 PM | | | 0 | 0 | 0 | 0 | 1 |

Show <All Job Types> submitted from <All Source Machines>

Export Details to CSV Pause Pending Resume Paused Close

Automatically update system status every 10 seconds



Customer Profile

Major Telco - a multinational telecommunications company and wireless carrier, one of the largest in the world, with revenues above \$100 billion.

Landscape & Core Challenge

- SAP BusinessObjects BI 4.2
- Multiple SAP BusinessObjects deployments
- Over 160 universes and 400,000 reports
- APOS Insight customer

Upgrading SAP BusinessObjects to BI 4.3, and eventually to BI 2025, in which UNV universes are no longer supported.

Moving from Teradata to Snowflake, which does not support UNV universes.



Requirements

- Conversion of 160+ universes to UNX
- Rationalization and repointing of 400,000+ Web Intelligence reports
- Organization of business units into conversion and repointing projects

Barriers

- Manual Web Intelligence report upgrades are time- and resource-intensive
- Manual repointing and testing are prone to human error
- SAP conversion resources do not enable bulk upgrades

Problems

- The move to Snowflake would be negatively impacted by failure to achieve objectives
- Future SAP BusinessObjects upgrades would be in jeopardy
- Limited resources would be heavily taxed by manual processes

Customer Problem

Outcomes & Customer Success

- Rationalized and reduced number of Web Intelligence reports to be migrated
- Automated conversion of UNV universes to UNX universes
- Repointed Web Intelligence reports to new UNX universes in bulk
- Changed universe settings on reports in bulk
- Established and maintained granular control over conversion and repointing processes



“Recognizing the scale of the conversion and repointing effort required to achieve their reporting and data management objectives, this customer deployed APOS Migrator for Web Intelligence to achieve a highly controlled, project-based upgrade to UNX universes and Web Intelligence reports across multiple deployments.”

- Cathy Ramsli, APOS Account Manager

Expanded Solution Feature

- Custom Field Mapping



APOS Web Intelligence Migrator

Custom Field Mapping

Key Considerations

- Universes may need to be made more user friendly
- Objects may need to be renamed or moved to different folders



Custom Field Mapping

- Map source UNV objects and classes to target UNX

Bl Search | Insight Search | Mapping Project - Xtreme_Source_to_Target.aposumproj

Universe Mappings

| Source Universe Name | Source Universe Path | Target Universe Name | Target Universe Path |
|----------------------|----------------------|----------------------|----------------------|
| XtremeSourceUNV | Universes/Xtreme | XtremeTargetUNX.unx | Universes/TargetUNX |

Universe Mapping Configuration

Source Universe (XtremeSourceUNV - Universes/Xtreme)

| Name | Type | Path |
|-------------|-----------|-----------------------|
| Customer | Folder | \Customer |
| City | Dimension | \Customer\City |
| Country | Dimension | \Customer\Country |
| Customemame | Dimension | \Customer\Customemame |
| Region | Dimension | \Customer\Region |
| Orders | Folder | \Orders |
| Orderdate | Dimension | \Orders\Orderdate |
| Orderid | Dimension | \Orders\Orderid |
| Quantity | Measure | \Orders\Quantity |
| Unitrice | Measure | \Orders\Unitrice |

Hide Items which have been matched to a target item

Target Universe (XtremeTargetUNX.unx - Universes/TargetUNX)

| Name | Type | Path |
|---------------|-----------|--------------------------|
| CustInfo | Folder | \CustInfo |
| City | Dimension | \CustInfo\City |
| Country | Dimension | \CustInfo\Country |
| CustName | Dimension | \CustInfo\CustName |
| Region | Dimension | \CustInfo\Region |
| OrderInfo | Folder | \OrderInfo |
| Order Id | Dimension | \OrderInfo\Order Id |
| OrderDate | Dimension | \OrderInfo\OrderDate |
| Product Class | Dimension | \OrderInfo\Product Class |
| Product Name | Dimension | \OrderInfo\Product Name |

Hide Items which have been matched to a source item

Universe Links

| Source Name | Source Type | Source Path | Target Name | Target Type | Target Path |
|-------------|-------------|-----------------------|-------------|-------------|--------------------|
| Customemame | Dimension | \Customer\Customemame | CustName | Dimension | \CustInfo\CustName |
| Country | Dimension | \Customer\Country | Country | Dimension | \CustInfo\Country |
| Region | Dimension | \Customer\Region | Region | Dimension | \CustInfo\Region |
| City | Dimension | \Customer\City | City | Dimension | \CustInfo\City |



Custom Field Mapping

- Select the target UNX when executing the project

Change Universe on Web Intelligence

Conversion List

| Source Universe | Source ID | Source Path | Target Universe | Target ID | Target Path | Status |
|-----------------|-----------|-------------------------|---------------------|-----------|--------------------------------|--------|
| XtremeSourceUNV | 4933117 | /Xtreme/XtremeSourceUNV | XtremeTargetUNX.unx | 4933776 | /TargetUNX/XtremeTargetUNX.unx | |

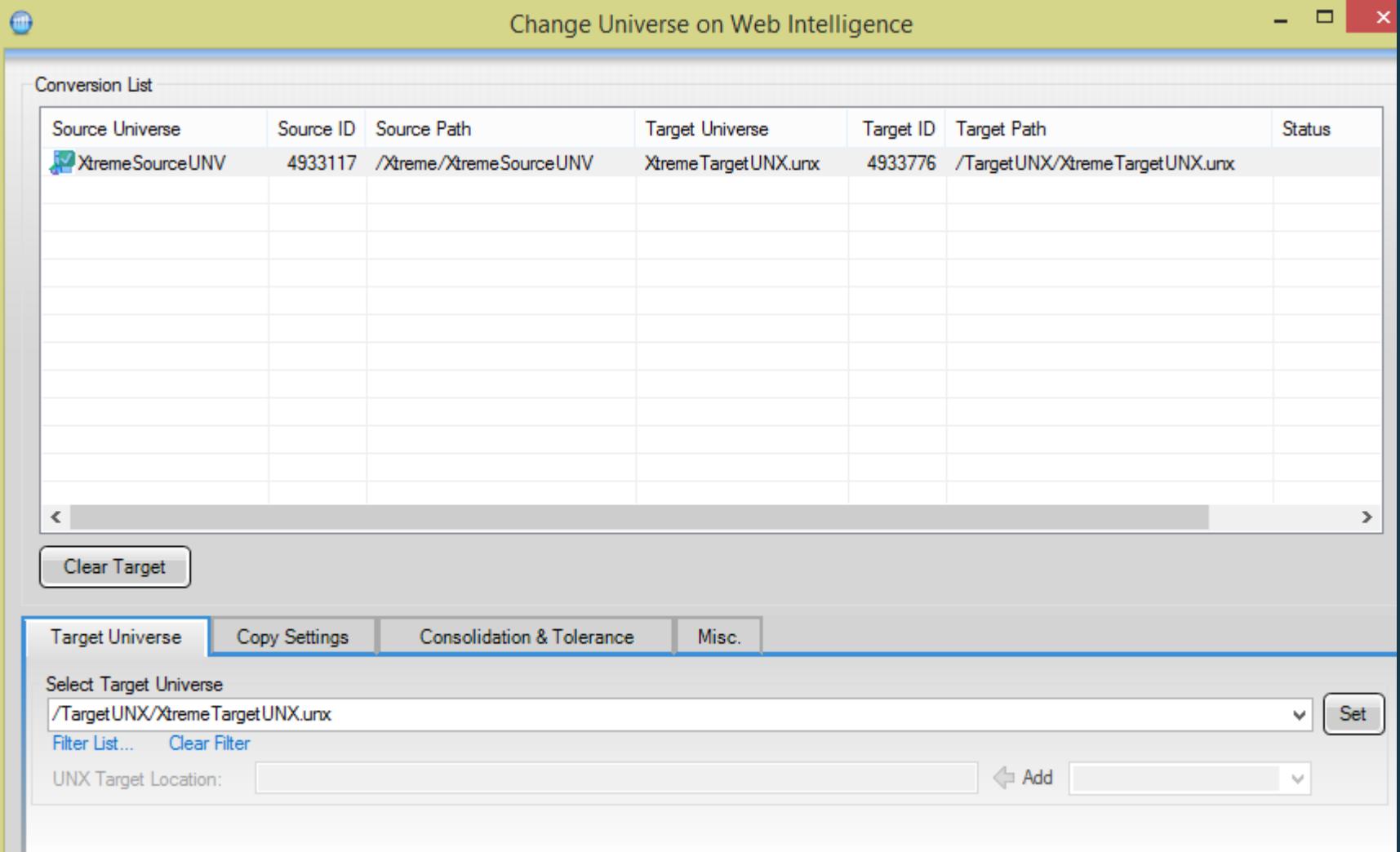
[Clear Target](#)

Target Universe Copy Settings Consolidation & Tolerance Misc.

Select Target Universe: /TargetUNX/XtremeTargetUNX.unx [Set](#)

[Filter List...](#) [Clear Filter](#)

UNIX Target Location: [Add](#)





STREAMLINE YOUR MOVE TO UNX UNIVERSE



INVENTORY SYSTEM CONTENT

- Scan your system for Web Intelligence reports using the criteria you specify
- Accurately plan and prioritize upgrade steps with a deep understanding of your BI system:
 - Report Objects
 - Universe Objects
 - System Objects
 - Report/Universe Usage
 - Report/Universe Structure
 - Schedules & Instances
 - System Structure & Security



HIGH VOLUME REPOINTING OF REPORTS

- Repoint Web Intelligence reports in bulk from old UNV to new UNX
- Update existing reports or create a new copy in a custom location & naming convention
- Project-based approach to select and manage Web Intelligence reports conversion process
- Define a mapping strategy, or create custom mapping
- Scale conversion infrastructure to handle high volume scenarios with multiple conversion processors



BULK CONVERSION OF UNIVERSES

- High volume conversion of universes from UNV to UNX format
- Use system inventory to set project priorities for the most important universes



VALIDATE UPGRADE SUCCESS

- Automated bulk testing and validation
- Ensure a successful and accurate upgrade process
- Take the risk out of migration



STRONG PROCESS CONTROLS

- Synchronize and scale your migration processes
- Enterprise-grade process controls
- Handle massive volumes of reports with distributed project management

More Information – Next Steps

UX Adoption Project Cost Estimator

- Details and [link to instant estimate](#)

UNV to UX Upgrade Freemium Offer

- Information Sheet: [download link](#)

Solution Discovery Call

- Deployment Discussion
- Dedicated Solution Demonstration

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

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



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 Web Intelligence Migrator

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

Upcoming Event

Supercharge Your Report Broadcasting with Agentic AI & Multi-Platform Support



Expand the role of automated and orchestrated report broadcasting in your analytics, and support the adoption and acceleration of agentic AI use cases within your organization.

Our upcoming webinar will show you how Publisher for Cloud's automated processes can work with your analytics platforms, including SAP Analytics Cloud, Analysis for Office, Power BI, Tableau, and Google Looker.

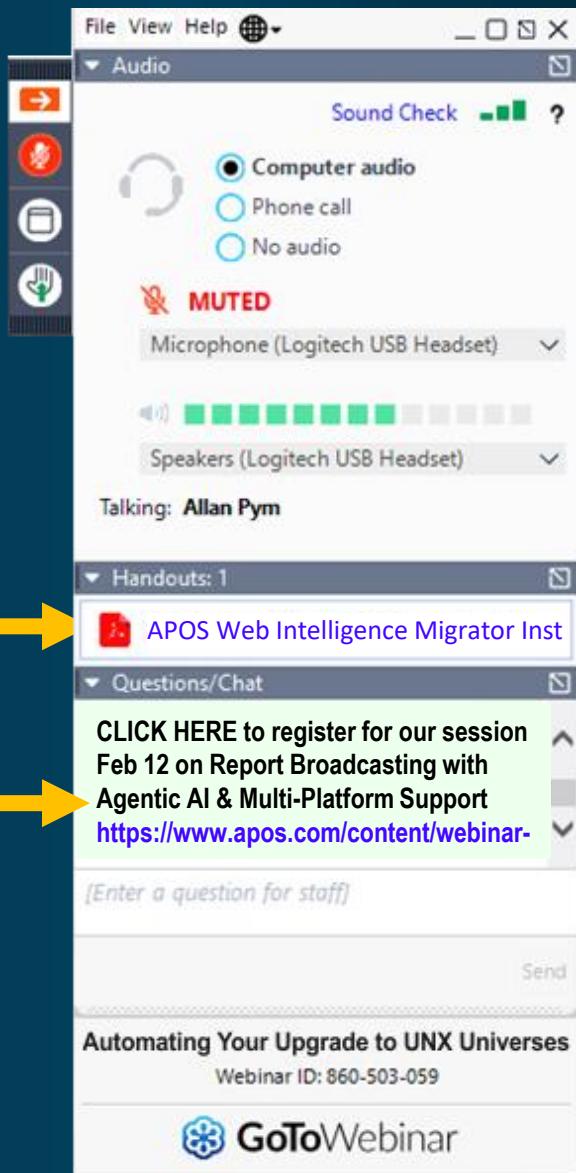
February 12 - 11am EST / 8am PST / 4pm GMT / 5pm CET

Register for Feb. 12

✓ Open the PDF in the Handout panel and click on the webinar link



✓ Open the Question panel and click the link in the message



Register at www.apos.com



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QUESTIONS?

Please enter your questions in the Q&A panel.



Thank you!

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