WEBINAR

MOVE IT OR LOSE IT ! Automating Your Upgrade to UNX Universes



Today's Session Key Topics

- SAP BusinessObjects Update SAP
- UNX Adoption Challenges
- APOS Automation
- Process Controls
- Field Mapping
- Expanded Webl Visualization Options Need4Viz
- Q&A see webinar console



Guest Speakers:







PATRICK SIMS

Senior Director, SAP BTP Global Center of Excellence - Analytics **SAP**



JÉRÔME MAILLARD

Co-founder Need4Viz

Today's Presenters:



ALLAN PYM Chief Operating Officer 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 Analytics Cloud, SAP BusinessObjects, and SAP data analytics
- Strategic SDK development and consulting
- Hundreds of customers globally

MAPOS

Hybrid Bl



SAP BusinessObjects

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



Updated Statement of Direction – SAP BI & Analytics



PUBLIC

SAP ANALYTICS

Business Intelligence Statement of Direction

October 2023



Guest Speaker:



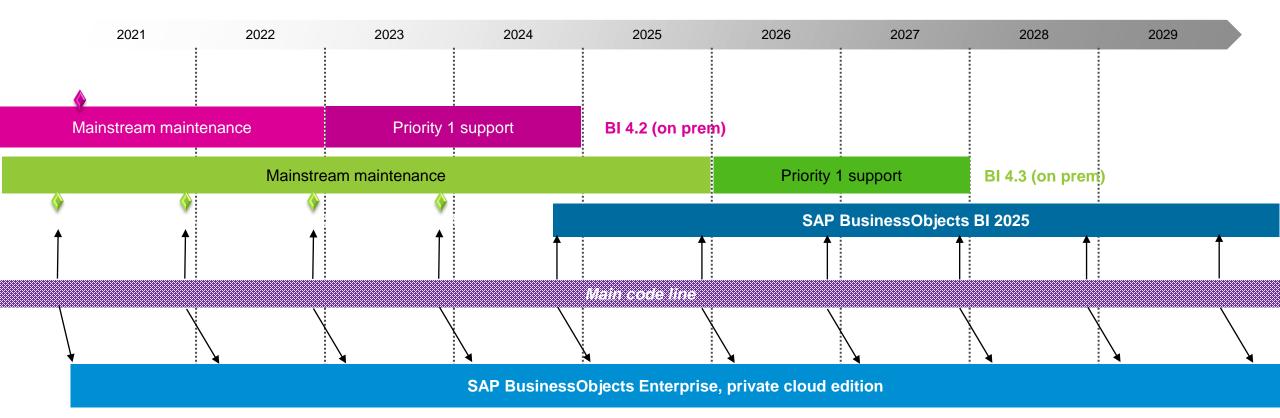


PATRICK SIMS

Senior Director, SAP BTP Global Center of Excellence - Analytics **SAP**

SAP BusinessObjects

Timelines



SAP Analytics Statement Of direction > HERE

SAP BusinessObjects BI 4.3 SP04



Extend the scope of specific key features:

- Crystal Reports enhancements
- Improve stability of the core BI Workspace
- Web Intelligence Data Mode
 enhancements:
 - Export your transformed data
 - New combine operators
 - Reuse cubes and objects from Data Flow in different joins
 - In Formula editor, prefix objects' name with the combined cube ID
- Cascading refresh for Web Intelligence document as a source & Web Intelligence OData Service



Deliver most wanted customers enhancements:

- Hide column when Empty or Dynamically in Web Intelligence document
- IntraDocument link: filter the target report by using complex input controls
- Support SAP Datasphere OLAP data
 BI Platform :
 - Information Classification capabilities
 - Authentication and Password Policy
 - Handle multiple Events while Scheduling
 - Improve update experience
 - SQL Parameterization

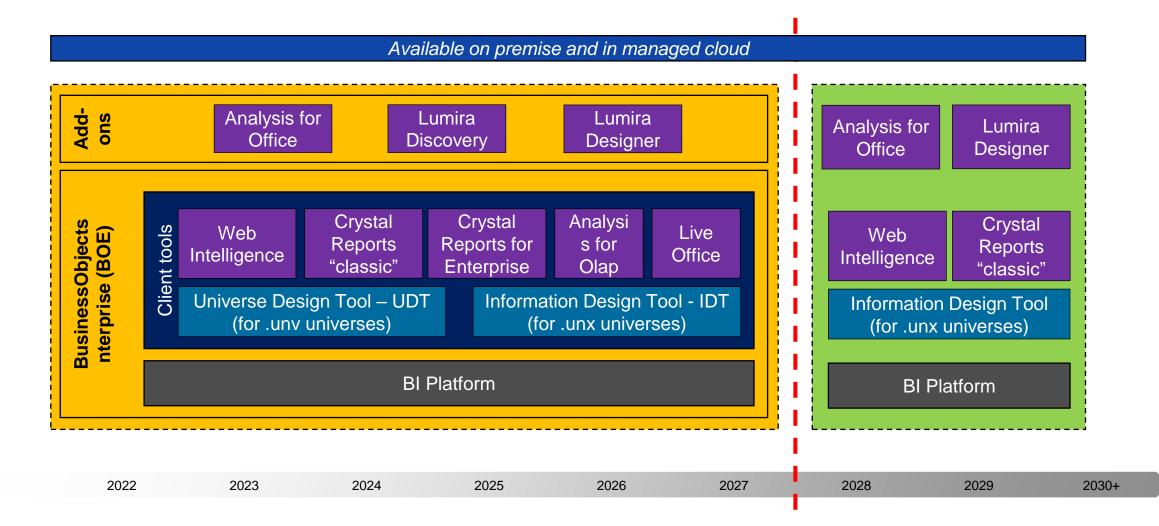


Continue to improve user experience:

- Charts improvements
- Web Intelligence : "Send to Email/FTP/SFTP/File Server"
- New functions in the formula language
- Continuous user interface enhancements
- Grouping prompts in Web Intelligence
- Define and consume Formatting specified on objects, in Web Intelligence designer
- Improve Universes' conversion performance (".unv" to ".unx")
- BILaunchpad: page display improvements
- New SDKs (custom Properties)

SAP BusinessObjects

Rationalization Strategy: right-size portfolio to focus on most-used tools after BOBJ 4.3 EOM



SAP BusinessObjects

Portfolio

Component	Go to solution
Lumira Discovery	Web Intelligence or SAP Analytics Cloud
Crystal Reports for Enterprise	Web Intelligence or Crystal Reports "classic" (CR2013, CR2016, CR2020, CR202x)
Analysis for OLAP	SAP Analytics Cloud
Live Office	Web Intelligence Document OData Access (4.3 SP2)
Universe Design Tool (and .unv)	Information Design Tool (and .unx)
Multi-source universes and associated connectivity	Data blending in Web Intelligence or at the DB level

Supported platforms

- We plan to stop the support of AIX and Solaris platform after BI 4.3
- Preferred OS are Windows and Linux



Regrouping for your SAP BusinessObjects Future

Regrouping for your SAP BusinessObjects Future



Recommendations:

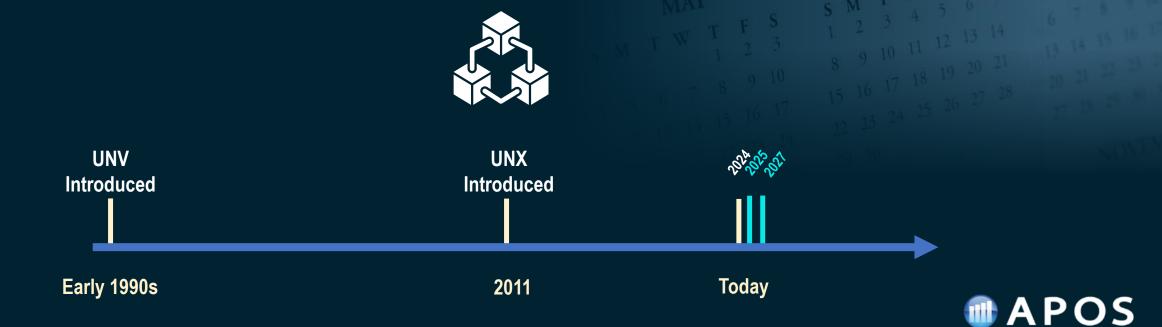
- Take stock of what you have
- Assess & action unsupported content
- Right-size your system content
- Upgrade platform to Version 4.3
- Upgrade universes to UNX format
- Automate for efficient management



SAP BusinessObjects Universe

Universe Format Timelines

- UNV universe introduced in early versions of BusinessObjects in the1990s
- UNX universe introduced as UNV replacement in 2011 with SAP BI 4.0



FEBRUARY

UNX Adoption Challenges – Manual Upgrade

Not enough budget

- Upgrading all universes and reports can be a large, time-consuming project
- Many organizations have thousands, tens of thousands, or hundreds of thousands of reports

Not enough time

- BI Team and BI User department resources are all too busy right now
- Lack of resources and competing projects

Too hard to coordinate BI User departments

- BI User departments are all on different schedules, timelines, priorities
- Many organizations have extensive list of BI User departments to coordinate

Introduces system risk

Upgrading all these objects introduces system change risks and manual error risks

"Let's just wait until next year..."

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UNX Upgrade Steps

- 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



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



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??

"We don't have the budget for that project..."

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"We can do this!"

What is the answer for upgrading to UNX??

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





APOS Web Intelligence Migrator

RSS Feed

SAP Commun	ity	
Home > Community > Blogs	Ask	a Ques
Product Information		
	Laura VEGA ☞ February 10, 2023 3 minute read Automating UNX Adoption – Overview	
Follow	In my recent post, UNV is dead, long live UNX, I made the point that the Universe Design Tool (UDT) and the UNV universe will not be supported after 2027. That may sound like a long time, but it is not, especially	1

if you want to make an orderly and efficient transition to UNX.

In my post, I mentioned that an SAP partner solution could help make that transition easier and more orderly. A few days later, I had a conversation with the people from our long-time partner **APOS**, who offer

Blog Link: Automating UNX Adoption



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

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Requirements

- Upgrade universes, repoint reports and test results
- Administer upgrades across business units
- Centralize management within a dedicated team

Barriers

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

Problems

- Limited resources make timely upgrade difficult with manual processes
- Costs of resources for manual upgrade would be significant
- Coordination of multiple business unit upgrades is difficult to manage

Customer Problem

Outcomes & Customer Success

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

- Managed project time and resources efficiently
- Coordinated upgrades across multiple Bl 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



Fred Walther Senior Solution Consultant APOS

APOS Web Intelligence Migrator

(Webl 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

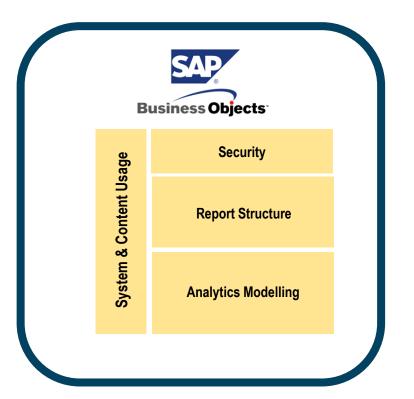
APOS Web Intelligence Migrator

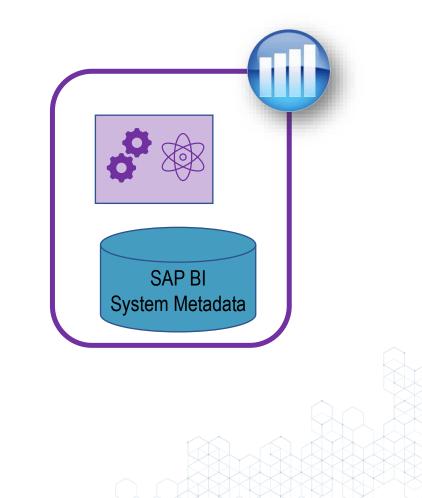
Scan System and Inventory Content

Why scan system and inventory its content?

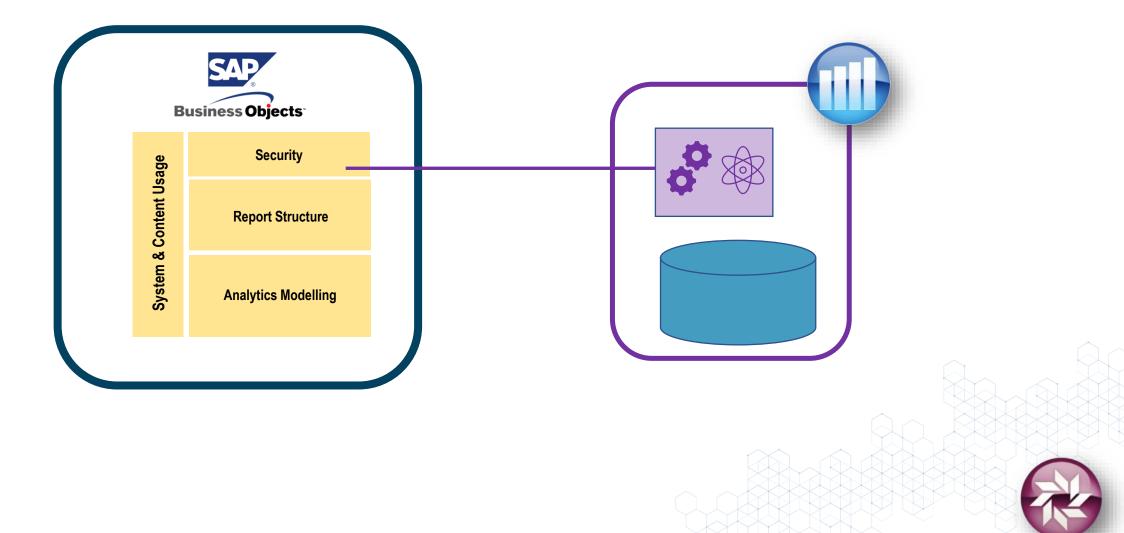
- Get a clear understanding of what content is in your system
- Identify what content can be excluded from the upgrade
- Capture detailed report structure metadata for reference later in process

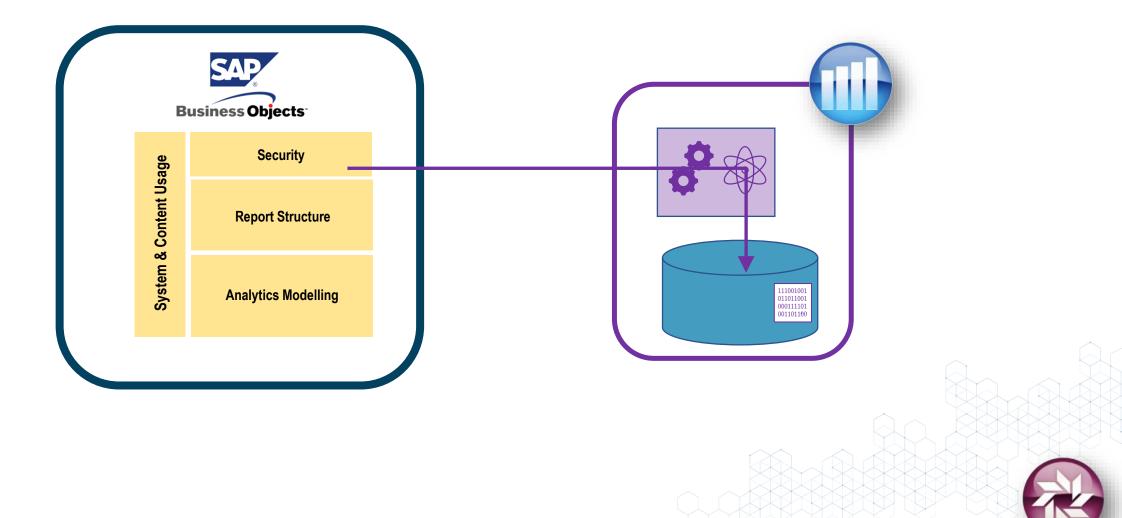


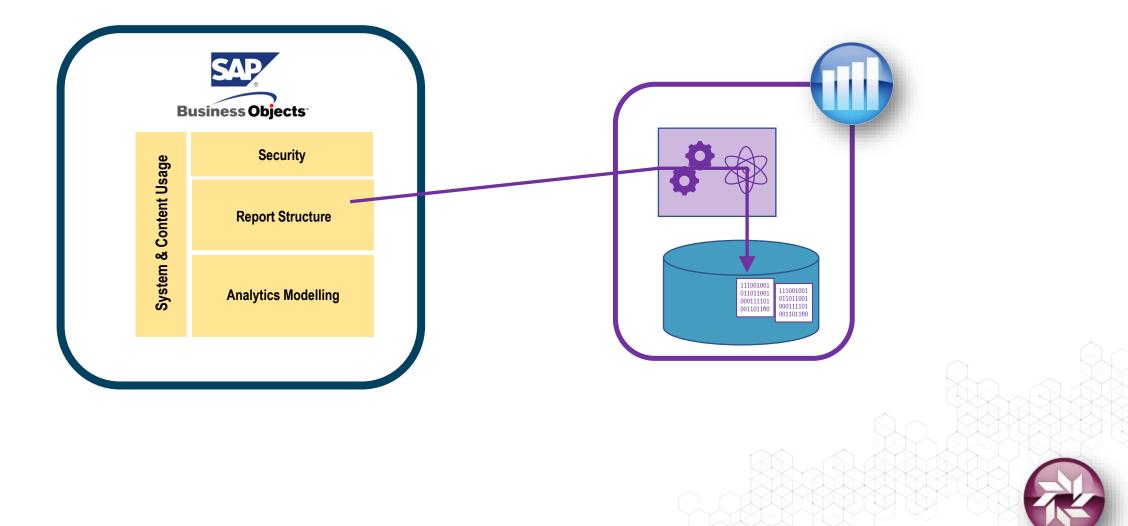


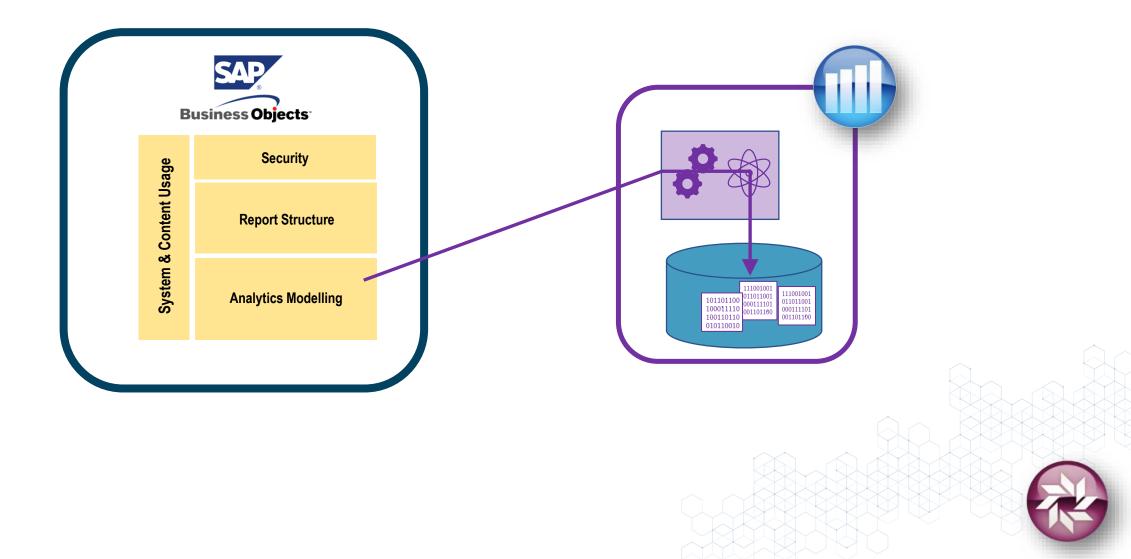


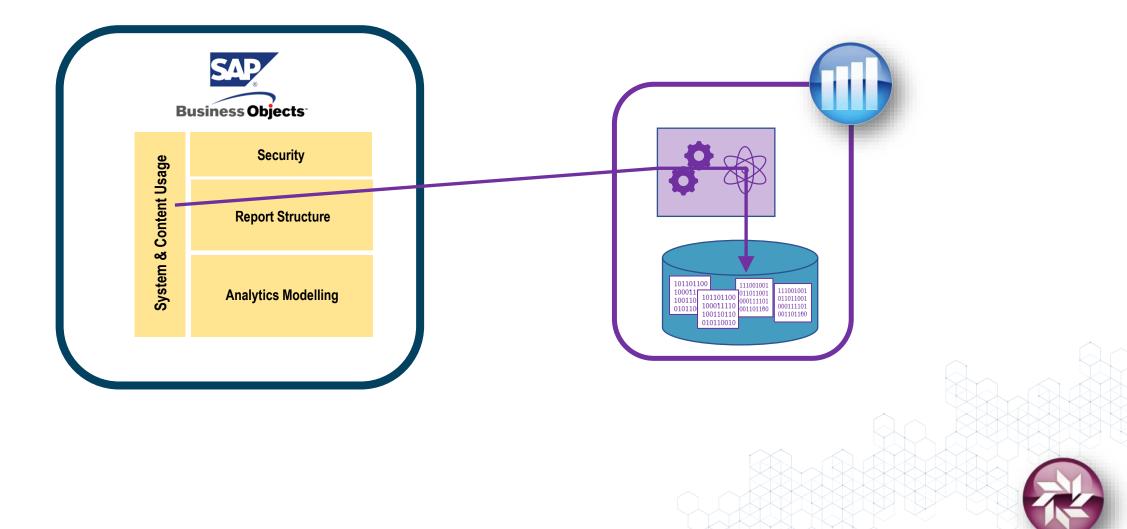










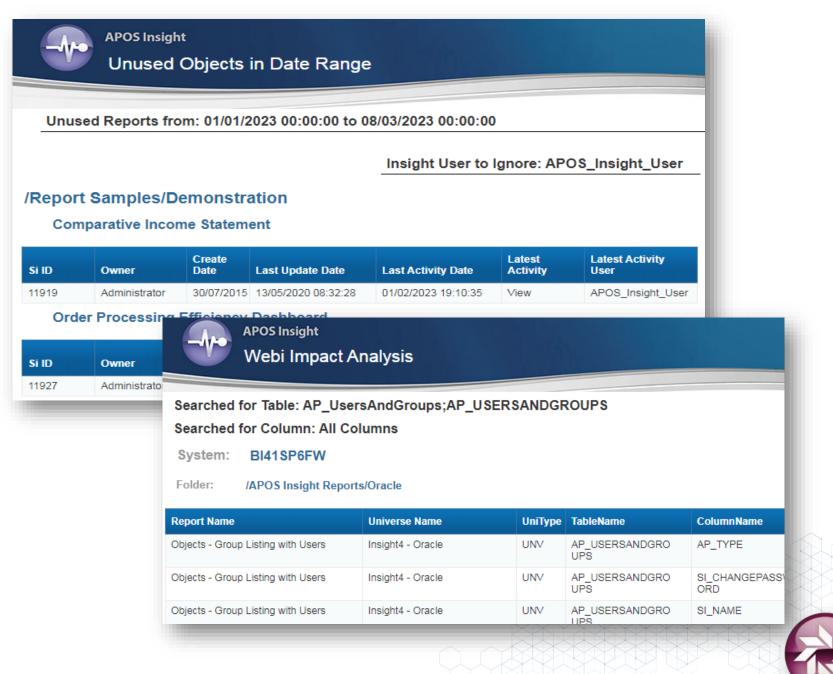


Analyze System + Content Metadata



Analyze System + Content Metadata

- Find unused reports
- Understand report content

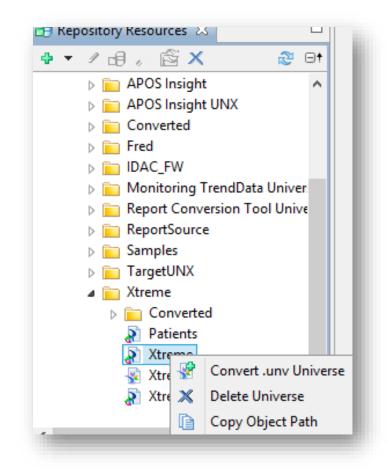


Bulk Conversion of Universes

Key Considerations

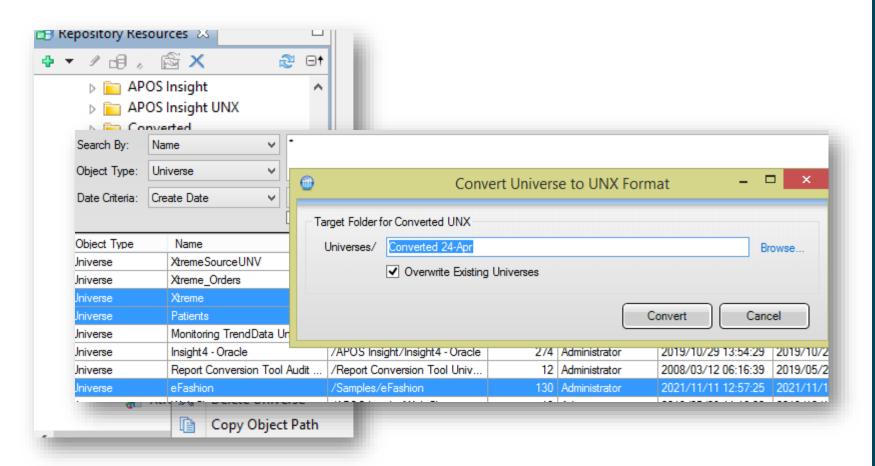
- Understand which universes need to be converted
- Understand which universes can be ignored due to non-usage
- Convert UNV to UNX quickly and easily





Bulk Conversion of Universes

Convert 1 by 1 in the IDT



Bulk Conversion of Universes

- Convert 1 by 1 in the IDT
- Convert in bulk in 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

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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

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Exclude Inboxes

Location

/APOS Webi Docs/Sales By

Object Type:

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Object Type

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Name

Owner

Owner Ids

Location Object Ids

Location - Hierarchy Location - Exact

Webi by Universe Id

Webi by Universe Name

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

APOS Web Intelligence Migrator

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Bulk Validation of Upgrade Success

Key Considerations

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



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50718		This feature requires that BI impersonation and trusted authentication be enabled
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50718		✓ Count Errors ✓ Sort Result Set Before Validating
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50718 50719		First 1 🖨 KB 🛛 Last 1 🖨 KB 🔄 Ignore invisible characters
50715		Skip first 1 + rows
		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

Bulk Validation of Upgrade Success

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



Commit Phase

Key Considerations

- Which Webi will be used going forward original or copy?
- Ensure that recurring schedules are maintained

Later –®



Web Intelligence Migrator Overview

Solution Demonstration

Note: to see the demonstration, view the webinar on demand



Customer Profile

US Ivy League University with multiple undergraduate and graduate schools

- 5,000+ faculty
- 20,000+ students

Landscape & Core Challenge

- SAP BusinessObjects 4.2 SP08
- 80 UNV universes
- 50,000 Web Intelligence reports

Plans to upgrade their SAP BusinessObjects CMS data platform to Oracle 19c were delayed by the discovery that UNV universes are not supported in later Oracle versions.

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Requirements

- Conversion of 80 UNV universes to UNX
- Repointing of 50,000 Web Intelligence reports to the UNX universes
- Validation of repointed Web Intelligence reports

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

- Limited resources make timely upgrade difficult with manual processes
- Timing of database upgrade could be negatively impacted

Customer Problem

Outcomes & Customer Success

With APOS Web Intelligence Migrator successfully deployed, this customer:

- Completed their UNX upgrade within a compressed timeline in support of their data platform upgrade
- Achieved controlled, high-speed, high-volume processing of universes and Web Intelligence reports
- Changed universe settings on reports in bulk
- Established and maintained granular control over conversion and repointing processes



"It was especially important for this customer to find a programmatic means to convert their universes and repoint their Web Intelligence reports to the new universes. With limited resources and a compressed project schedule, they needed to ensure their conversion project would not delay their planned database upgrade."

- Peter Warren, APOS Account Manager

Process Control Features

Projects Structure

• High Availability

APOS Web Intelligence Migrator

Projects Structure

Key Considerations

- Organized approach to repointing
- Work in manageable chunks



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Projects Structure

• Name the projects meaningfully



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Projects Structure

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



UNV Reports

Imm

High Availability High Scalability

UNX Reports

High Availability

Key Considerations

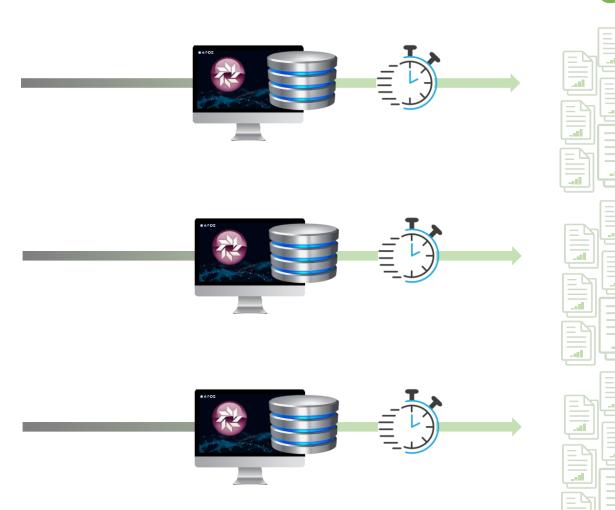
- Need to work with many thousands of reports
- Need to spread the load across multiple machines
- Automate for high volume processing, less user intervention



High Availability – High Scalability

UNV Reports





UNX Reports



High Availability

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

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9/22/2022 10:36:21 AM BI4	42SP9	2022-9-21-10-44-15-91	Change Universe	9/22/2022 10:3	6:37 AM			0	0	0	0	1
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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.

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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 resourceintensive
- 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

Source	Universe Name	Source Univ	verse Path		-	Target Universe Name		Target Un	iverse Path		
tremeS	SourceUNV	Universes/X	reme			tremeTargetUNX.unx		Universes/	/TargetUNX		
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~	Region	Dimension	\Customer\Region			Region		Dimension	\CustInfo\Region		
	Orders	Folder	\Orders			OrderInfo		Folder	\OrderInfo		
~	Orderdate	Dimension	\Orders\Orderdate			Order Id		Dimension	\OrderInfo\Order Id		ł
~	Orderid	Dimension	\Orders\Orderid			OrderDate		Dimension	\OrderInfo\OrderDate		
~	Quantity	Measure	\Orders\Quantity			Product Class		Dimension	\OrderInfo\Product Class		
<i></i>	Unitorice			~		Product Name			\OrderInfo\Product Name		1
Hid	de Items which have been matche	ed to a target item				Hide Items which have been	matched to a source ite	m			
Unive	erse Links										ð
Sour	rce Name	Source Type	Source Path		Target	Name	Target Typ	e Ta	arget Path	^	Ľ
Custor	memame	Dimension	\Customer\Customername		CustNan	ne	Dimension	\Cı	ustInfo\CustName		
Count	ry	Dimension	\Customer\Country		Country		Dimension	\Cı	ustInfo\Country		
Regio	n	Dimension	\Customer\Region		Region		Dimension	\Cı	ustInfo\Region		
City		Dimension	\Customer\City		City		Dimension	\Cu	ustInfo\City		



Custom Field Mapping

• Apply custom mapping to the repointing project

Result Filters Image: Constraint of the second se	essful 🗹 Unsuccessful 🗹 Skipped 🗹 Committed 🗹 Submitted
Webi Name	ID Processed Committed Last Status *Data Type *Value *Advanced *Errors Last Updated
rices_By_Country_and_Region Products sold in Country Sales By Country	5019569 Unmodified Image: Constraint of the second
Sales By Product Class Sales By Product Type	50 Mapping Strategy 50 Employee
	 If no mapping strategy is provided here, the mapping strategy provided in the settings will be applied. If neither is provided, the BI default mapping strategy will be applied. Universe Mapping Projects
	strator\Documents\APOS\Migration\Webi Migrator 14x\Projects\Xtreme_Source_to_Target.aposumproj
	 Universe mapping projects will overwrite mapping strategies and apply the matches specified within the project. Mapping strategies are still used when no matches are specified.
1	Close
* denotes a validation co	

Custom Field Mapping

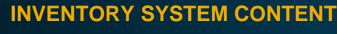
• Select the target UNX when executing the project

Source Universe	Source ID	Source Path	Target Universe	Target ID	Target Path	Statu
Xtreme Source UNV	4933117	/Xtreme/XtremeSourceUNV	XtremeTargetUNX.unx	4933776	/TargetUNX/XtremeTargetUNX.unx	
<						
Clear Target						
Target Universe Co	opy Settings	Consolidation & Tolerance	e Misc.			
Select Target Universe						
/TargetUNX/XtremeTarge Filter List Clear Filter						~
FILLER LISL Clear FILLER					I Add	~
UNX Target Location:						
						XX
	-					
	-		Â			

APOS Web Intelligence Migrator



STREAMLINE YOUR MOVE TO UNX UNIVERSE



- 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
 - Schedules & Instances



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

STREAMLINE YOUR MOVE TO UNX UNIVERSE Freemium Upgrade Offer

Automate UNX Adoption with APOS Web Intelligence Migrator

APOS Web Intelligence Migrator helps you reduce risk, reduce cost, and increase speed of UNX upgrades through rapid, high-volume conversion, bulk repointing, automated testing and strong process controls.

APOS Freemium offer includes:



- ✓ Free Production deployment use of APOS Web Intelligence Migrator
- ✓ Scan and inventory your SAP BI systems
- Bulk convert all UNV universes to UNX
- ✓ Bulk repoint a target set of 200 WebI reports
- ✓ Validate migration success
- ✓ 100 days of free use
- Inventory multiple systems
- Guidance and support

Access now at apos.com/freemium

💷 Α Ρ Ο S



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Jérôme Maillard Co-founder Need4Viz



We are experts data analysis visualization dissemination **BusinessObjects**





Partner



a solution Fast&4Y0U







PU6 NPLAY

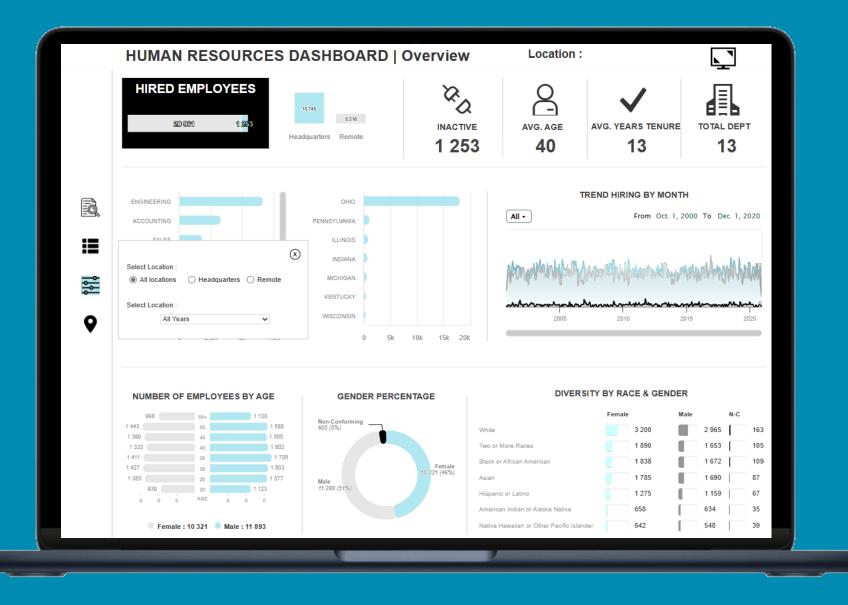


widgets

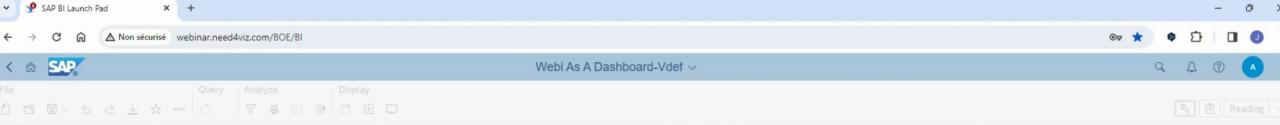


Dataviz Cartography Data Analysis **Export HTML**

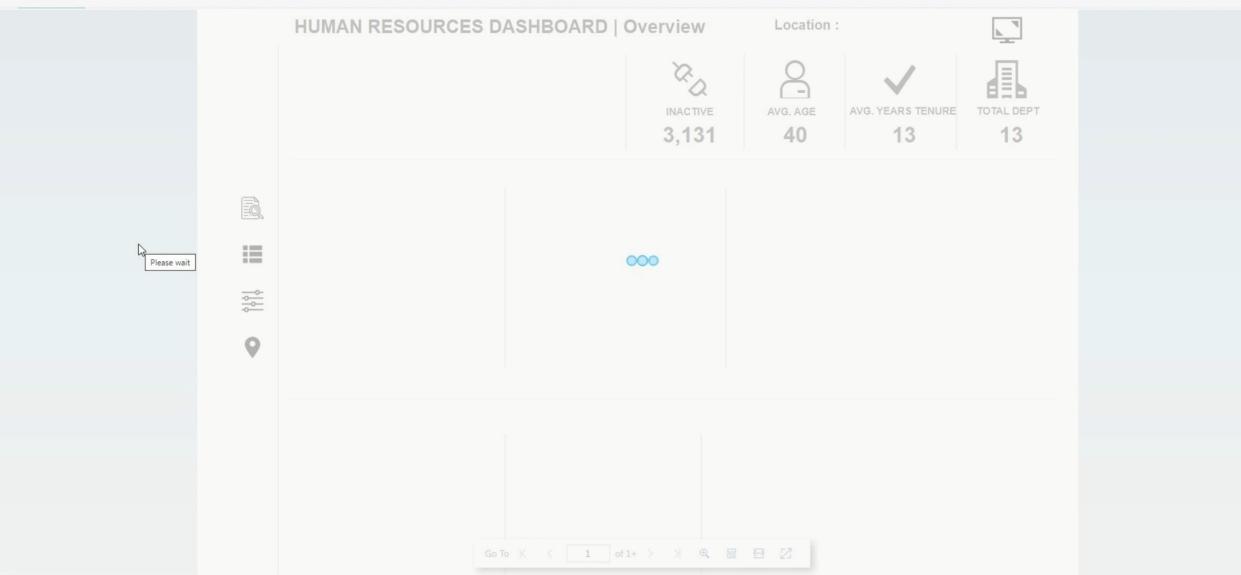




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Dashboard





Only possible with N4V FOR WEBI





Robolo Guickvin

SAP[®] Partner







Saves costs licences, infrastructures, training

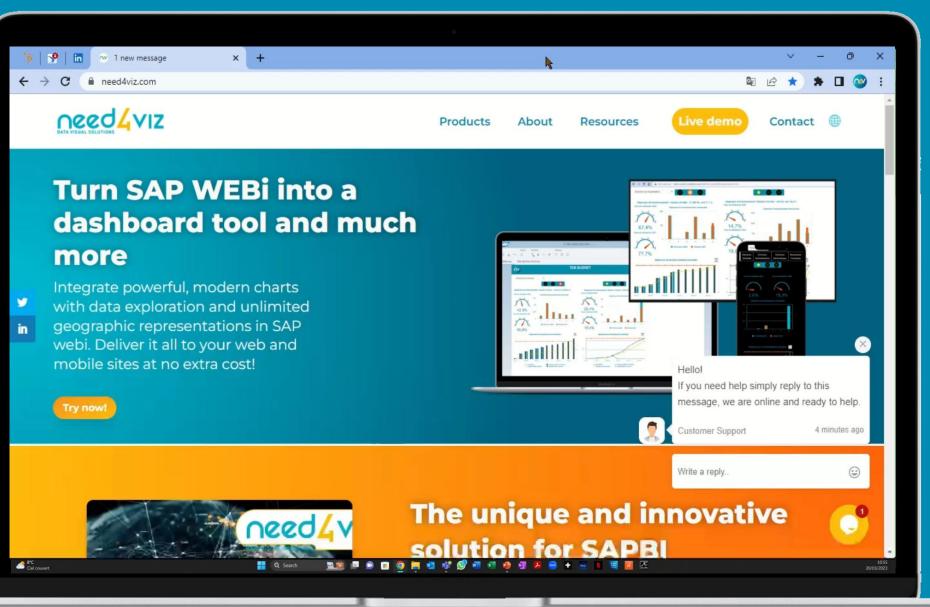


N4V 🤉 full demo at www.need4viz.com



Live demo

From need4viz.com, you have access to the demo mode of all N4V components.





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APOS Solutions for SAP BusinessObjects



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



Systematic Content Delivery

APOS Publisher

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



APOS Solutions for SAP Analytics Cloud



APOS Publisher for Cloud

• Automated broadcasting and distribution of personalized SAC reports to target user groups



APOS Live Data Gateway

• High performance, live data connectivity from SAC to wide range of data sources



Upcoming Event

Ignite Your Analytics Expand Connectivity from SAP Analytics Cloud to non-SAP Data Sources



How APOS Live Data Gateway helps you leverage non-SAP data assets from your:

- Cloud data environments, such as Snowflake, Databricks, Google, AWS, and Azure
- Relational sources such as SQL, Oracle, Teradata and DB2, and many more sources

Latest updates and new capabilities of APOS Live Data Gateway, including:

- Seamless security integration SSO, Oauth
- Self-service modelling, and management of modelling assets
- Data transformations: geospatial, dimensions, hierarchies, prompts
- New: Expanded and simplified options for Import of data into SAC (Salesforce, Sharepoint, and more)
- New: Export SAC Planning data to other strategic environments

Thursday, Feb. 8 - 11am Eastern Time

Register at www.apos.com





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Please enter your questions in the Q&A panel.





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