APOS

Fast Forward Your BI:
Automate Web Intelligence UNX Adoption
for Database Upgrades & More

Today's Session

Key Topics

Automating UNX Adoption

- UNX Adoption Motivators
- UNX Adoptions Considerations
- APOS Automation - Customer Scenarios
  - Universe Conversion
  - Web Intelligence Report Migration
  - Universe Object Mapping
- Q&A – see webinar console

APOS

Today's Presenters

ALLAN PYM

Chief Operating Officer
APOS

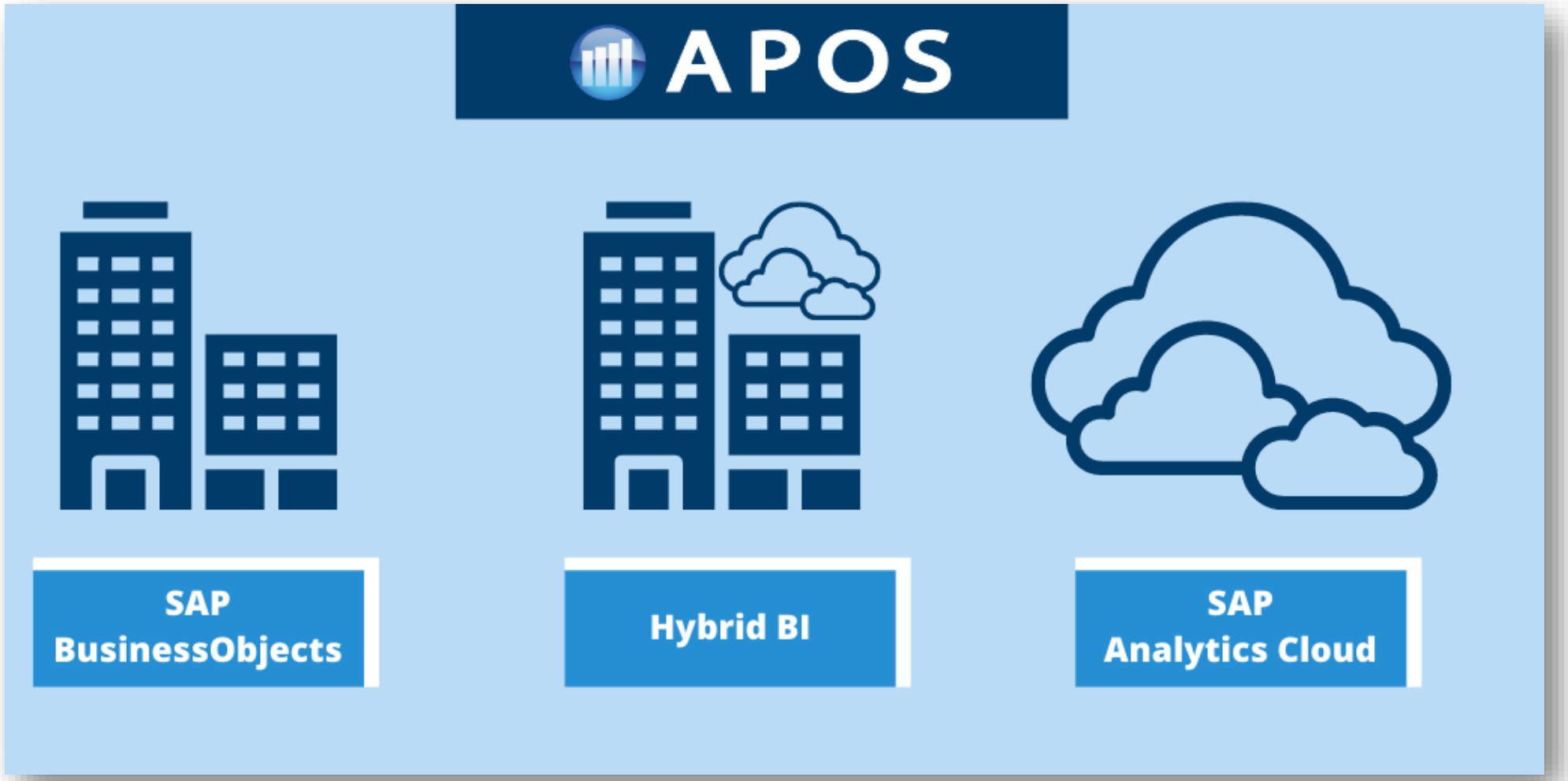
ALAN GOLDING

Solution Consulting Manager
APOS

Who is APOS?

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

SAP Partner


APOS
SAP BusinessObjects
Hybrid BI
SAP Analytics Cloud

HOUSEKEEPING

You will have access to the slides via email

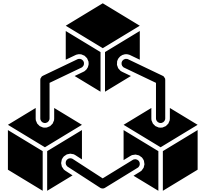
You will get the recording within 24 hours

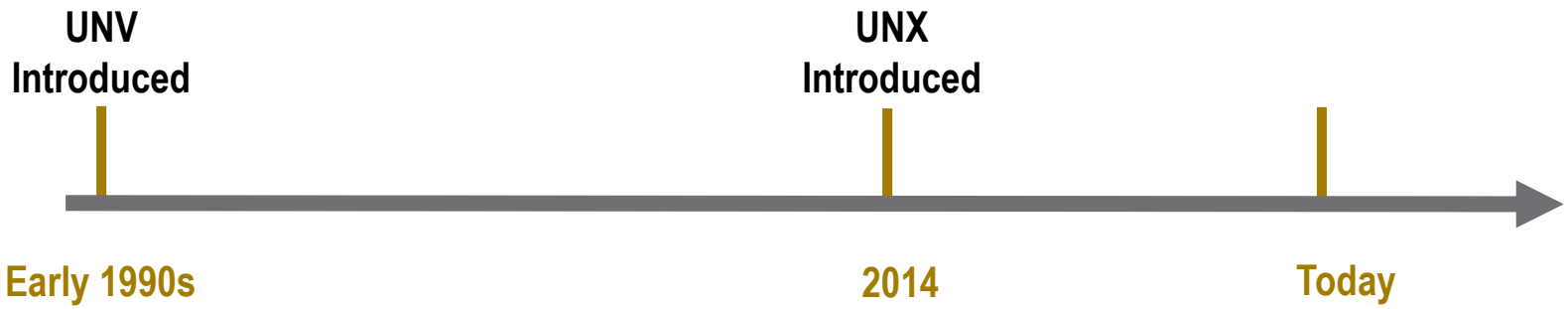
Tell us how we did in the survey

SAP BusinessObjects Universe

Universe Format Timelines

- UNV Universe introduced in early versions of BusinessObjects in the1990s
- UNX Universe introduced in SAP BusinessObjects with SAP BI 4.0 in 2014



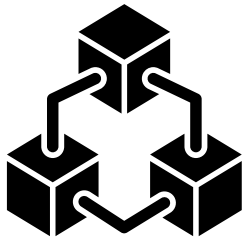


2015 UNX Universe Webinar Flashback

Why UNX Universe? - Adoption Motivators

- Improved methodology and structure with various expanded features
- Primary format for future vendor development focus
  - Ongoing feature development
  - UNV support questions

What was your decision?



Where are you today?

Stay fully on UNV

- No immediate action
- Falling behind, not current technology
- Missing opportunity with new capabilities

Move fully to UNX

- Use new capabilities and stay current
- Updating skill sets
- Universe conversion effort
- Report re-pointing effort

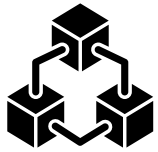
Run both UNV and UNX

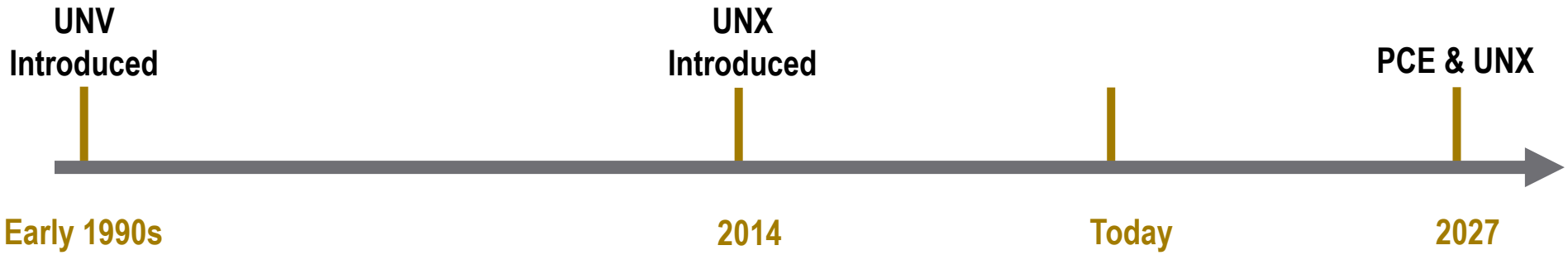
- New content on UNX, retain current UNV
- Double Maintenance
  - Field change maintenance
  - New reports on old UNVs
  - Two tool sets, two skill sets
  - Two documentation sets
  - Two testing processes

UNX Universe Adoption Considerations

Adoption Motivators - Today

- SAP BusinessObjects Platform Upgrades
  - address upgrade during upgrade process
  - future support in PCE
- Development Focus and Features is UNX
- Database version Support



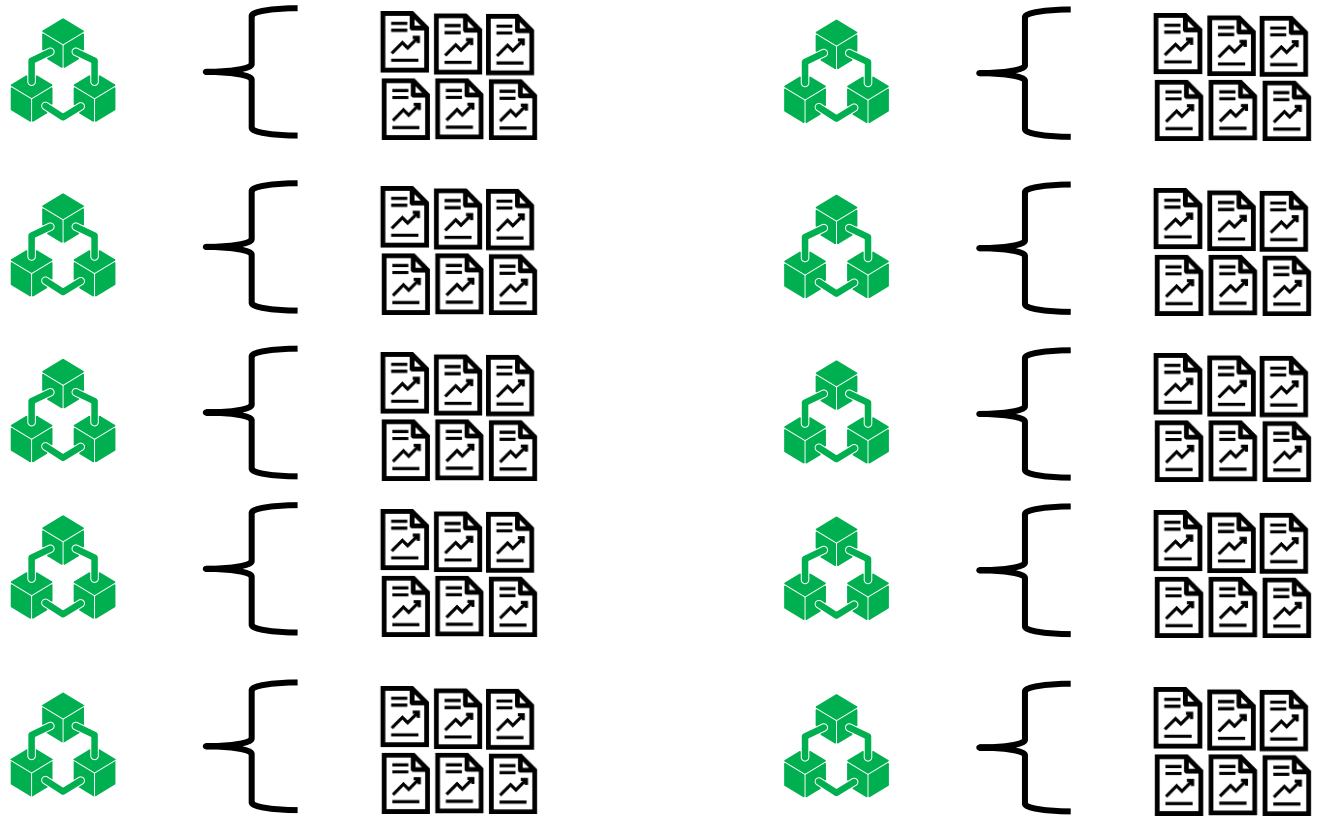


UNX Universe Adoption Considerations

Adoption Challenges

- Time and effort required
  - Updated approach to building new universes
  - Managing upgrade of existing content
    - Convert Universes to UNX
    - Repointing existing WebI reports to the new UNX universes
- UNX adoption introduces system change
  - adds an element of risk
- Risk management requires:
  - proper planning
  - proper controls
  - automation

Size of Adoption Challenge



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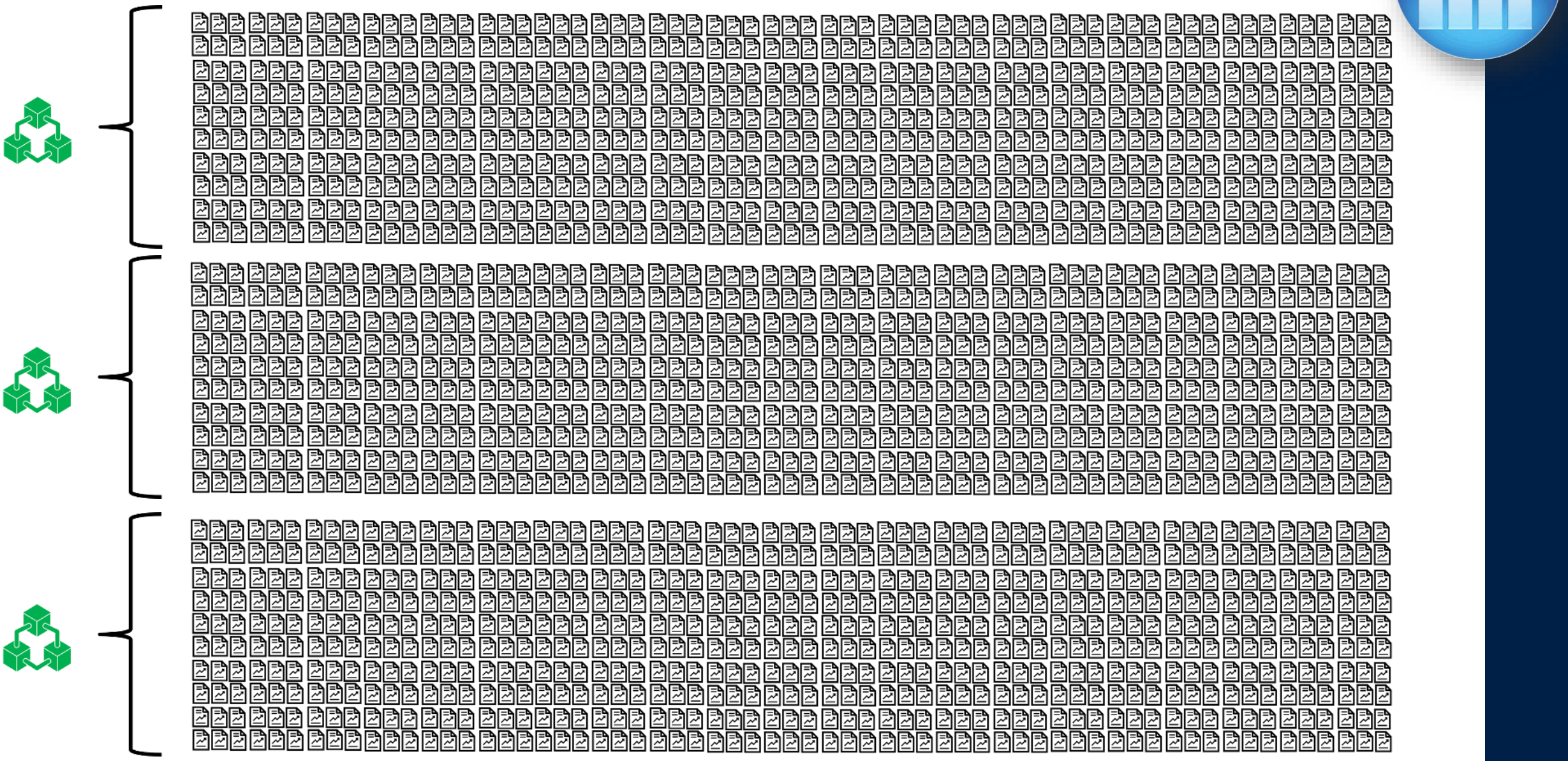

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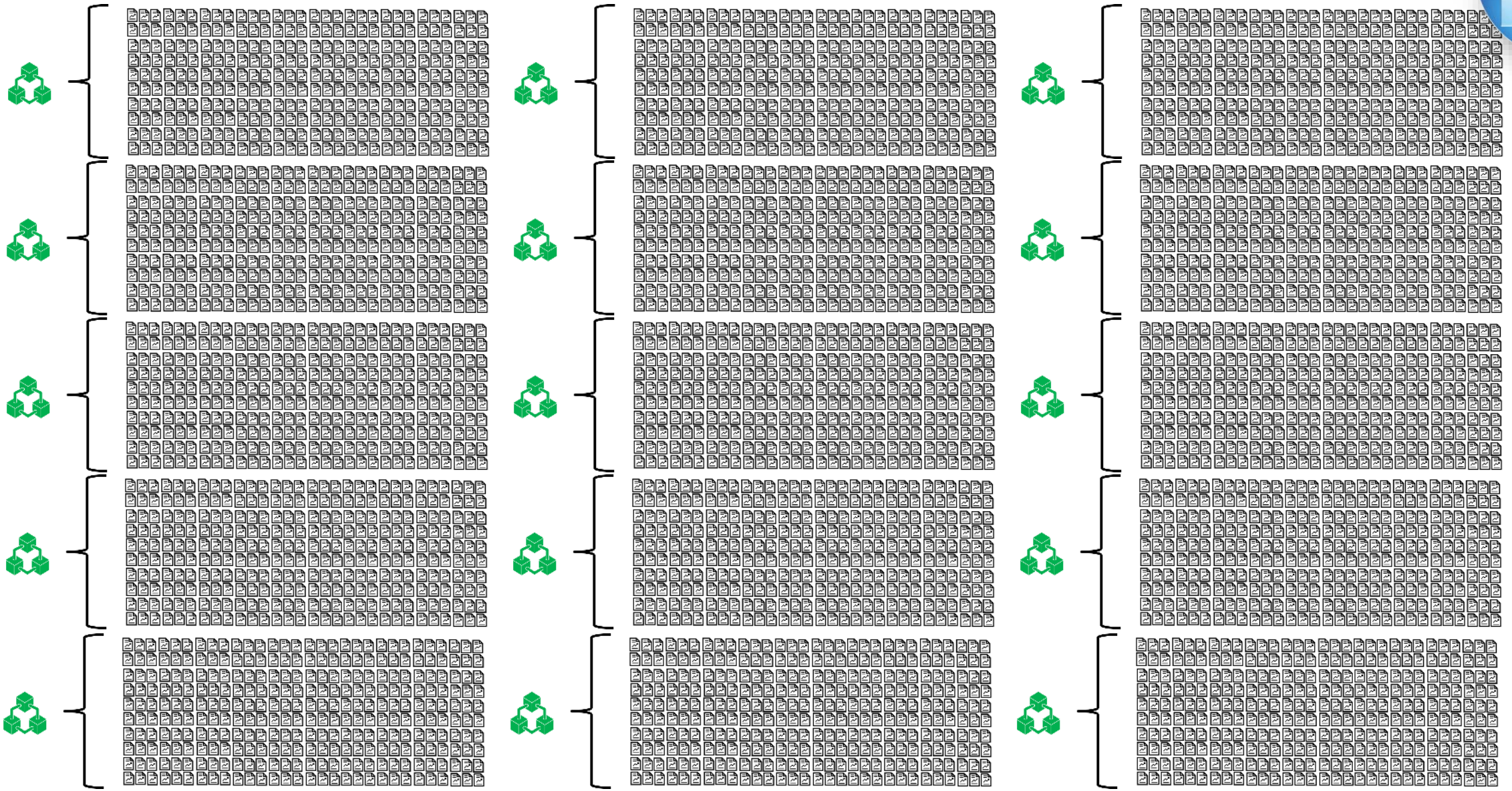

Size of Adoption Challenge

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Size of Challenge = Volume of Content

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Size of Challenge = Volume of Content

Small size deployments – address manually?

Medium size deployments – automation brings big efficiencies

Large and Extra-large deployments – automation is a must

APOS Web Intelligence Migrator

EXTEND
SAP ANALYTICS

Alan Golding
Solution Consulting Manager
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.

- Time Savings
- Timely Project Execution
- Accurate Project Execution
- Project Controls

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.

- BI Platform Upgrades
  - SP Version upgrades (Sp1 to Sp8)
  - Major Version upgrades (4.1 to 4.3)
- Database Upgrades
  - Version upgrades
  - Platform migration
  - Database vendor changes

Customer Scenario #1

- **Customer:** US Division 1 University
- **BusinessObjects:**
  - Version 4.2 Sp8
  - 80 UNV Universes
  - 50,000 Web Intelligence Reports
- **Key Motivator:**
  - Moving to Oracle version 19c
    - UNV connectivity not fully supported
- **Key Objectives:**
  - Convert 80 UNV Universes to UNX
  - Repoint 50,000 Web Intelligence reports to the UNX Universes
  - Validate to make sure nothing is broken
  - Execute the upgrade with limited personnel resourced available
  - Complete the project in a timely manner, without extensive project timelines

Key Upgrade Process Considerations

- Bulk Conversion of Universes
- Bulk Repointing of Reports
- Bulk Validation of Upgrade Success
- Strong Process Controls

APOS Web Intelligence Migrator

Demonstration

Customer Scenario #2

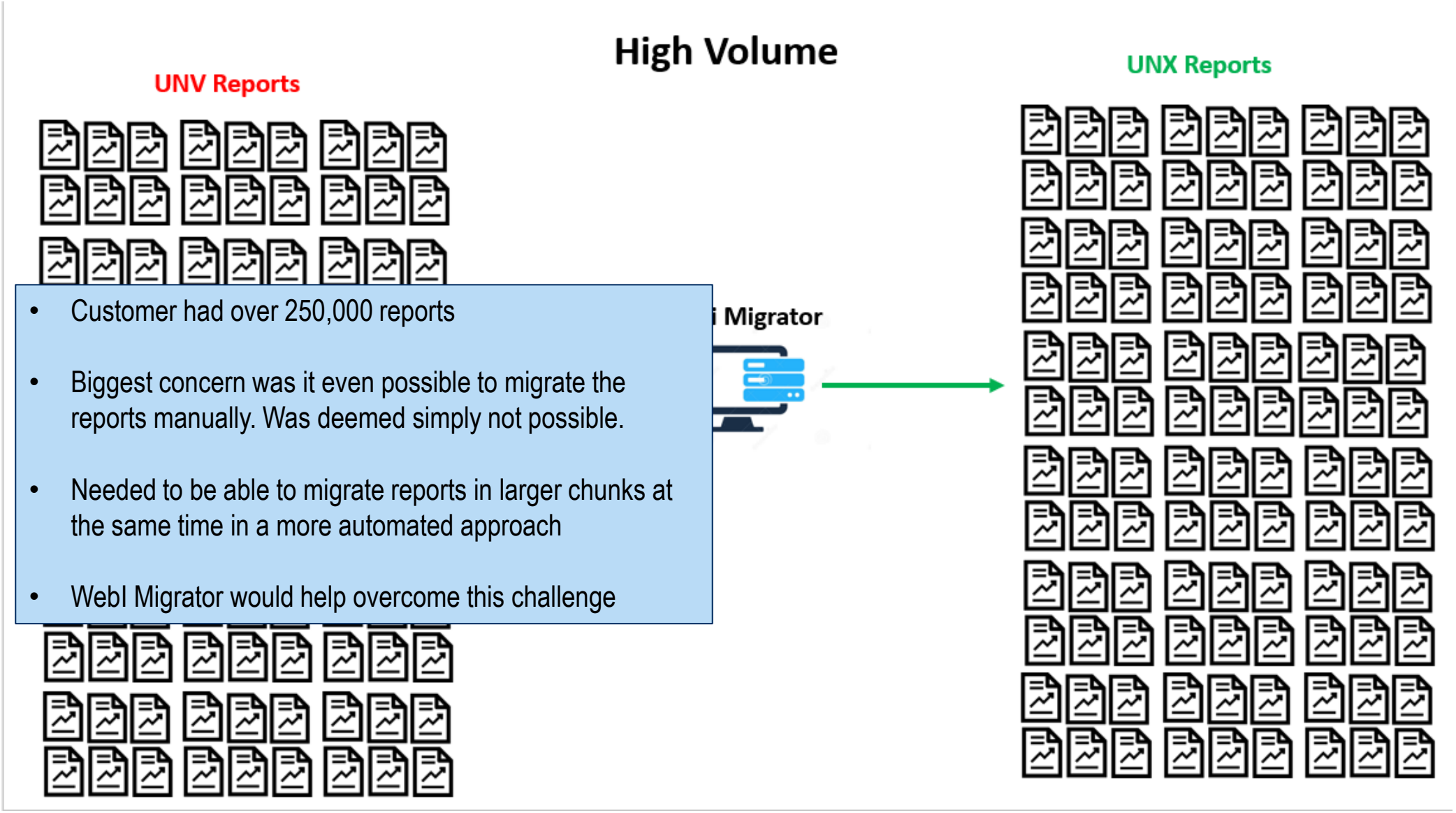
Customer: Global Technology Manufacturer

- **BusinessObjects:**
  - Version 4.2
  - 250,000 Web Intelligence reports
- **Key Motivator:**
  - Moving from legacy data warehouse to Snowflake DW
- **Key Objectives:**
  - Migrate all 250,000 reports to leverage UNX
  - Aggressive upgrade process timelines
  - Massive volumes of reports requires rapid execution of report connection upgrades
  - Massive volumes of content requires multiple personnel involved
  - Needing strong content and project controls
  - System metadata integration

Key Upgrade Process Considerations

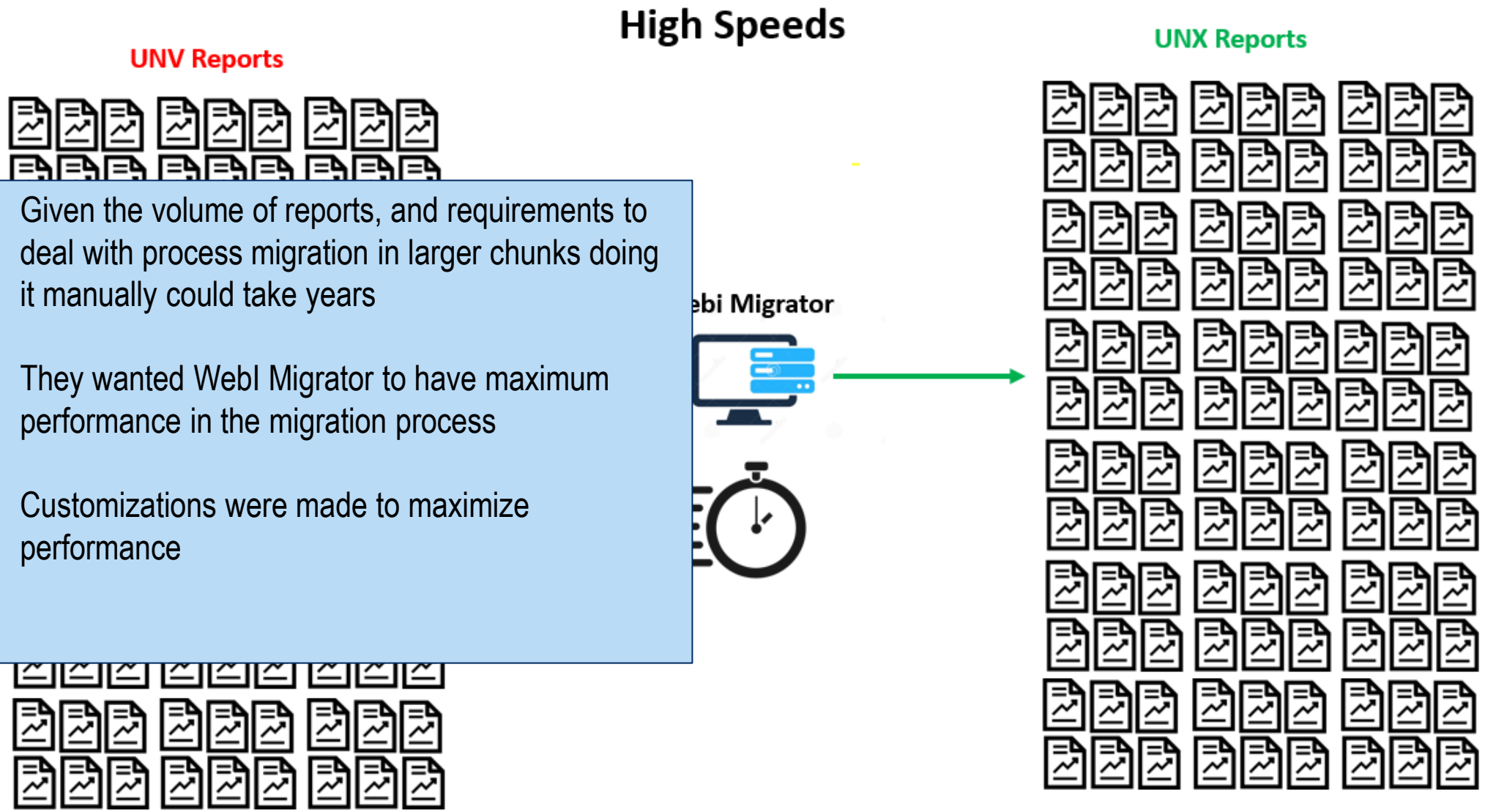
- High Volume of Content
- High Speed Needed
- High Scalability Needed
- High Process Controls & Integration

High Volume Requirements



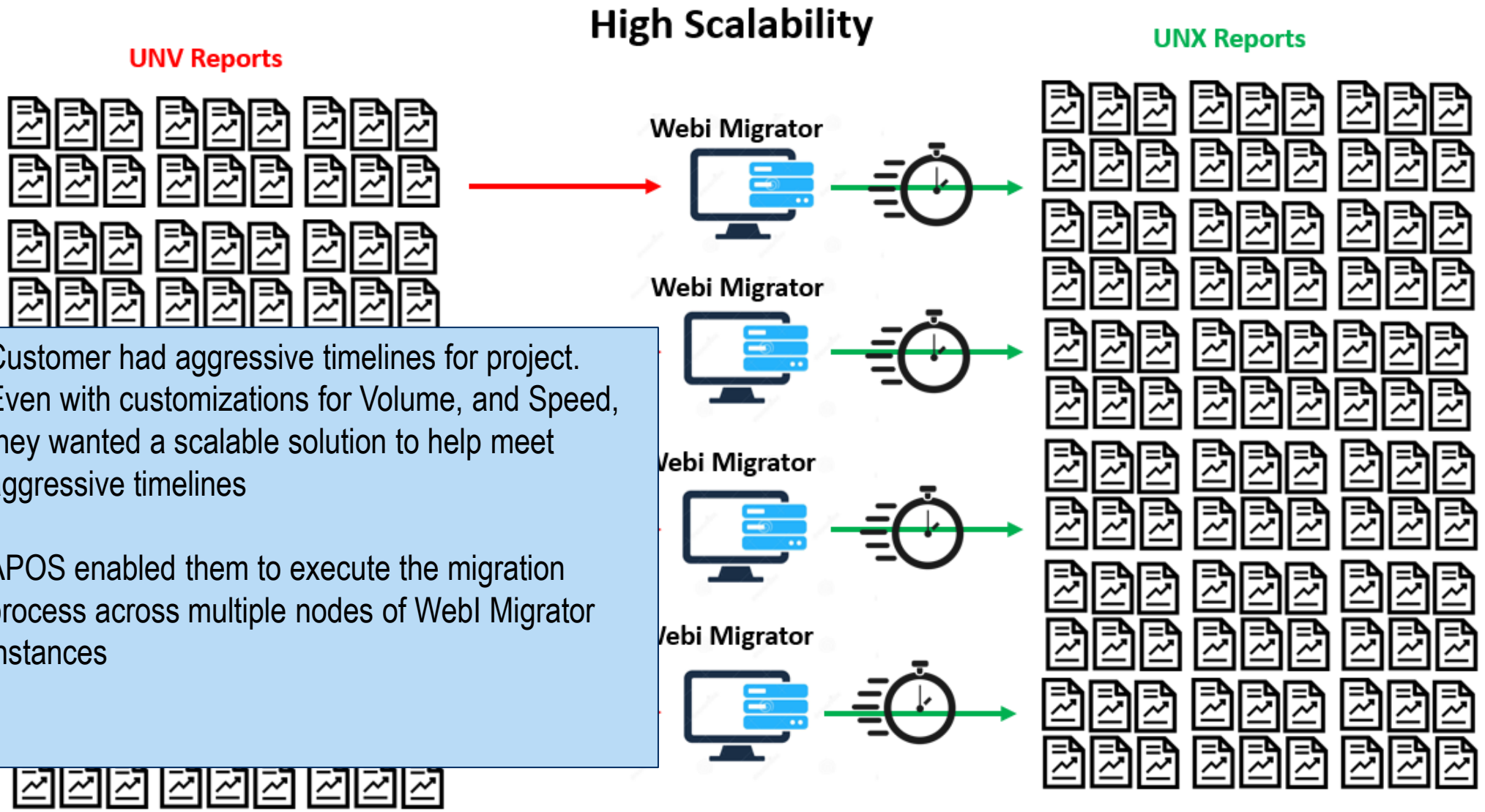
- Customer had over 250,000 reports
- Biggest concern was it even possible to migrate the reports manually. Was deemed simply not possible.
- Needed to be able to migrate reports in larger chunks at the same time in a more automated approach
- WebI Migrator would help overcome this challenge

High Speed Requirements



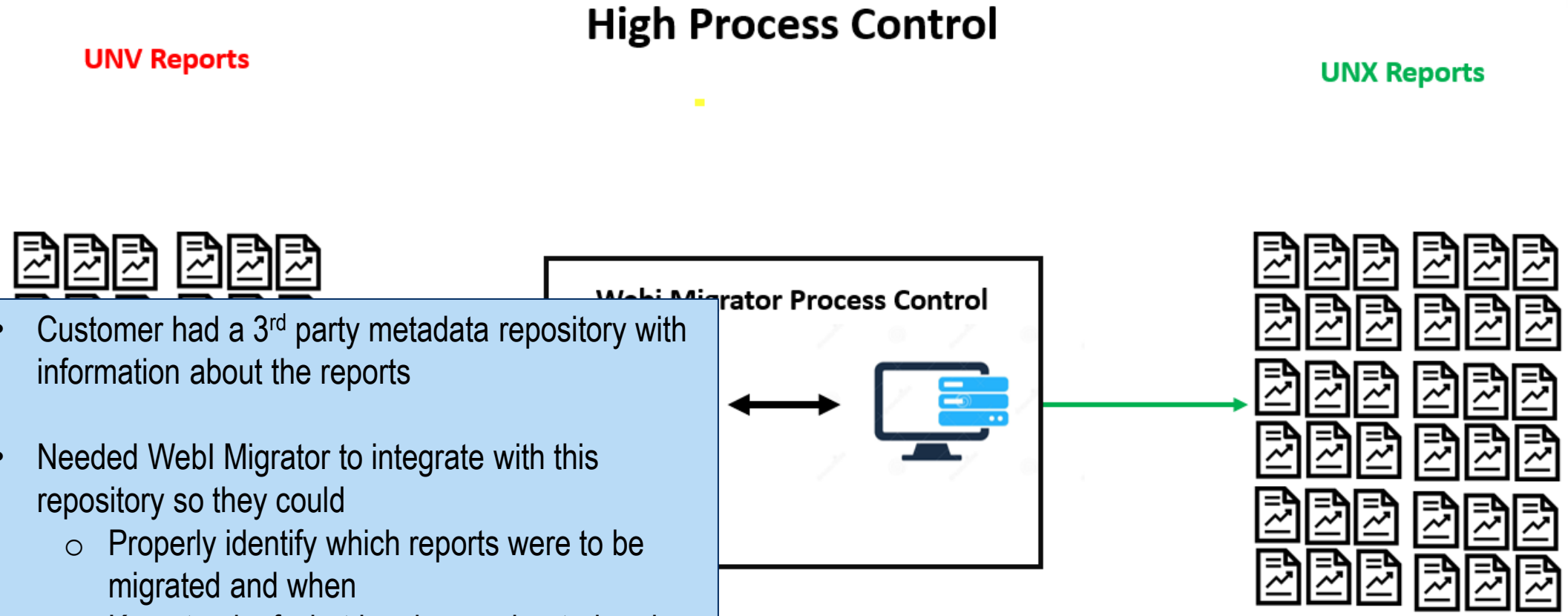
- Given the volume of reports, and requirements to deal with process migration in larger chunks doing it manually could take years
- They wanted WebI Migrator to have maximum performance in the migration process
- Customizations were made to maximize performance

High Scalability Requirements



- Customer had aggressive timelines for project. Even with customizations for Volume, and Speed, they wanted a scalable solution to help meet aggressive timelines
- APOS enabled them to execute the migration process across multiple nodes of WebI Migrator instances

High Process Control Requirements



- Customer had a 3rd party metadata repository with information about the reports
- Needed WebI Migrator to integrate with this repository so they could
  - Properly identify which reports were to be migrated and when
  - Keep track of what has been migrated and what has not, given volume

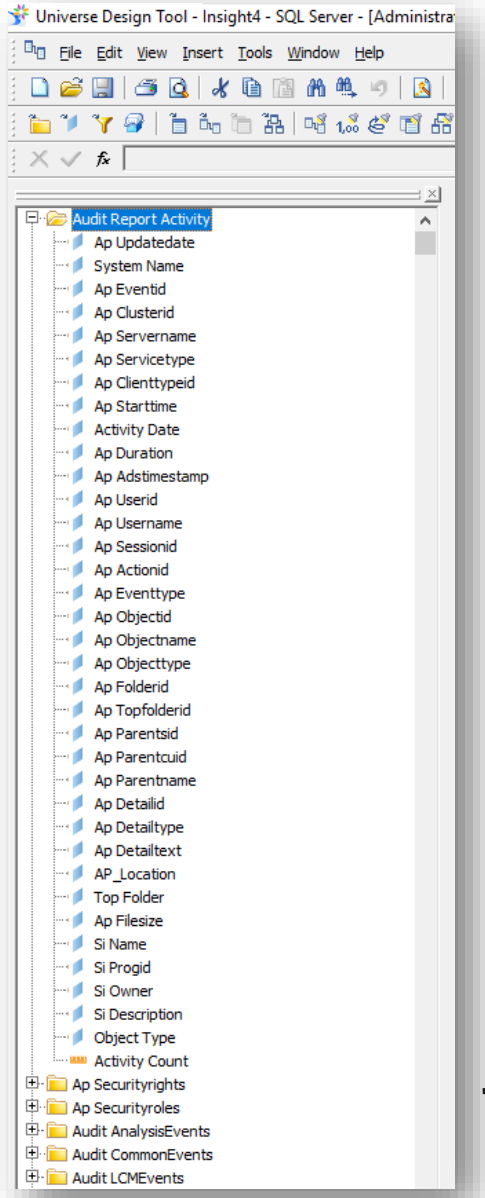
Customer Scenario #3

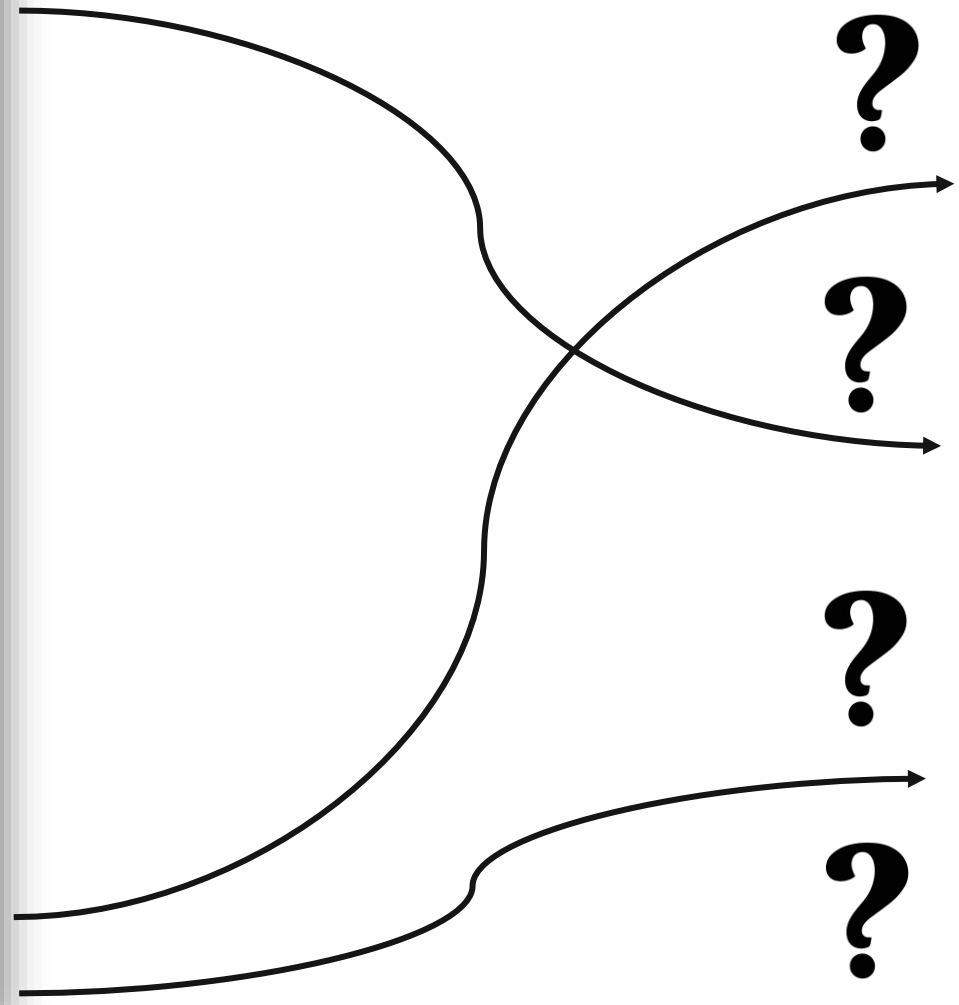
- **Customer:** Large Financial Institution
- **BusinessObjects:**
  - Version 4.2
- **Key Motivator:**
  - Building new versions of UNX Universes to replace the UNV version, including field/object changes
- **Key Objectives:**
  - Migrate the Web Intelligence reports from the old UNV to the newly created UNX Universes
  - Somehow apply a mapping strategy between the universe objects as they are completely different on the UNV than they are on the UNX

Key Upgrade Process Considerations

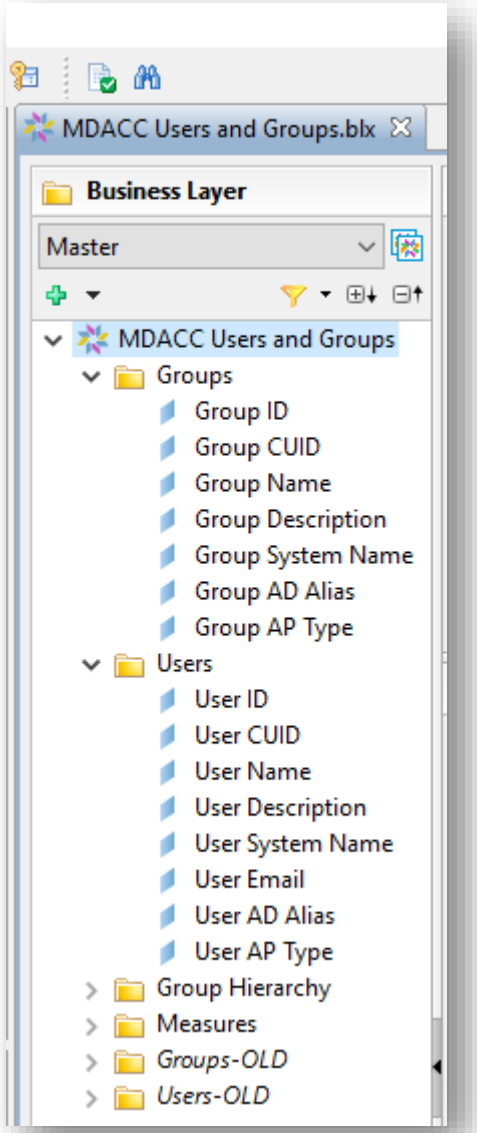
- Creating fresh new UNX Universes
- Objects/Classes differ from UNV to UNX
- Need way to automate mapping
- Need way to apply mapping strategy

UNV Universe

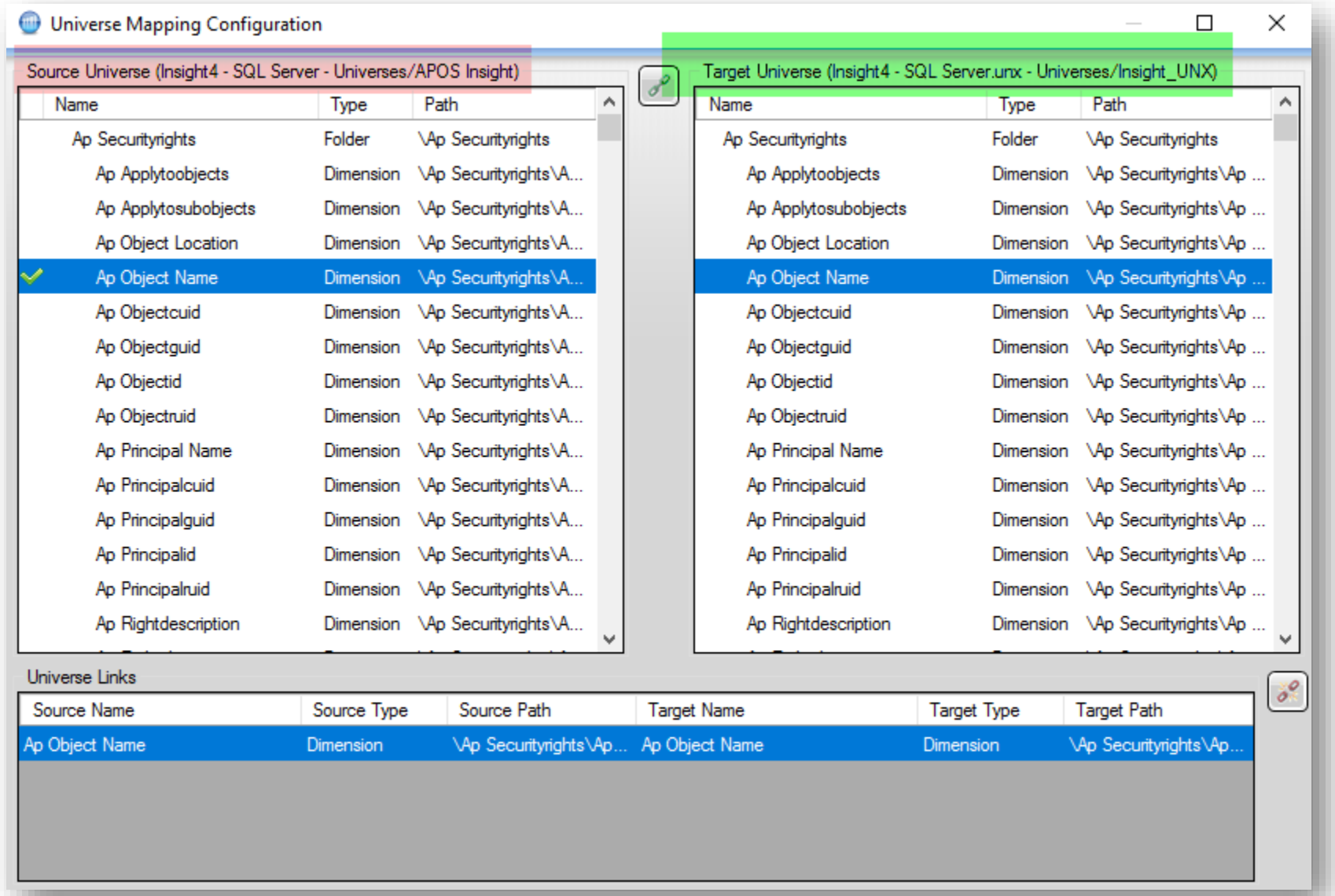




UNV Universe



Mapping Strategy applied during migration process



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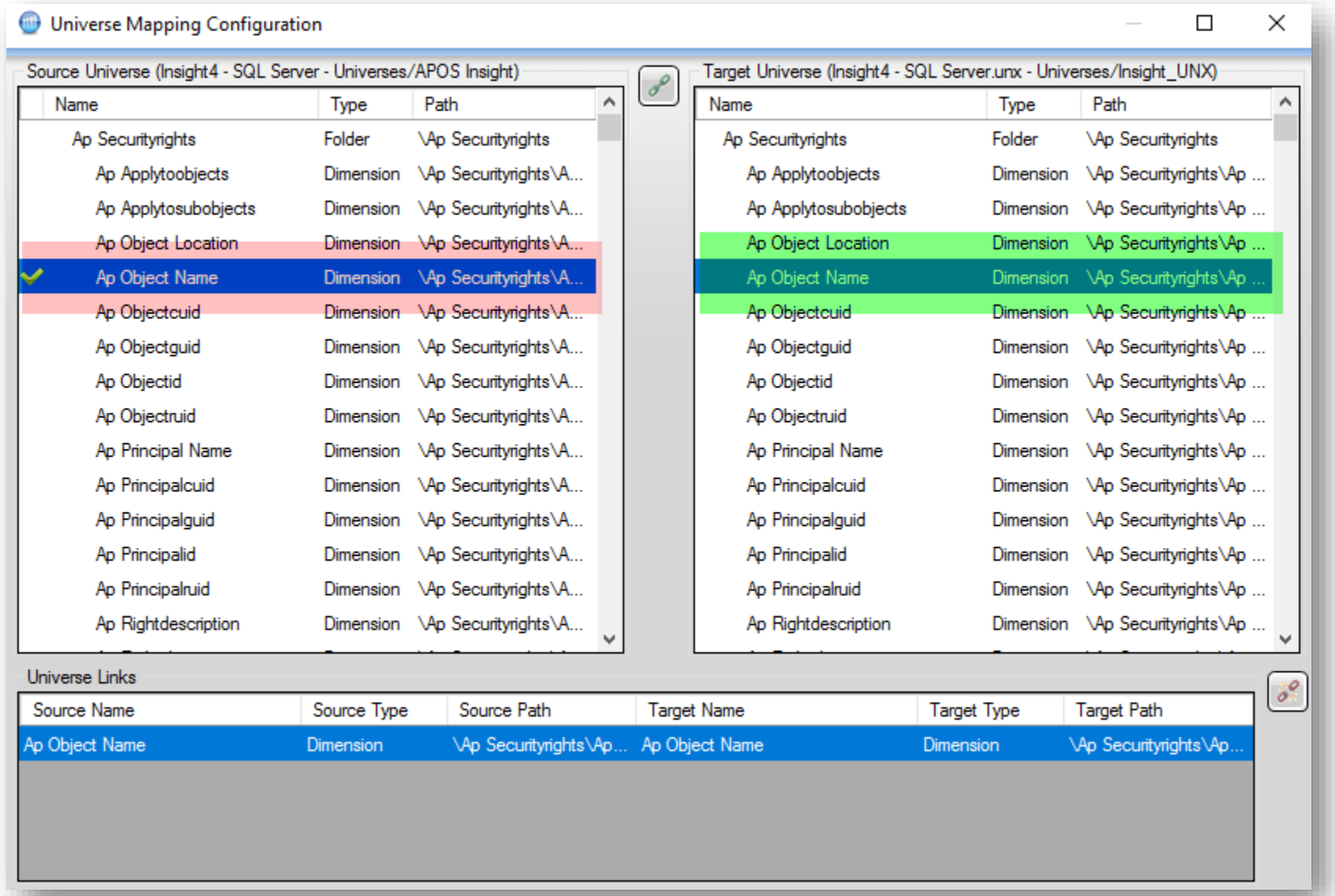

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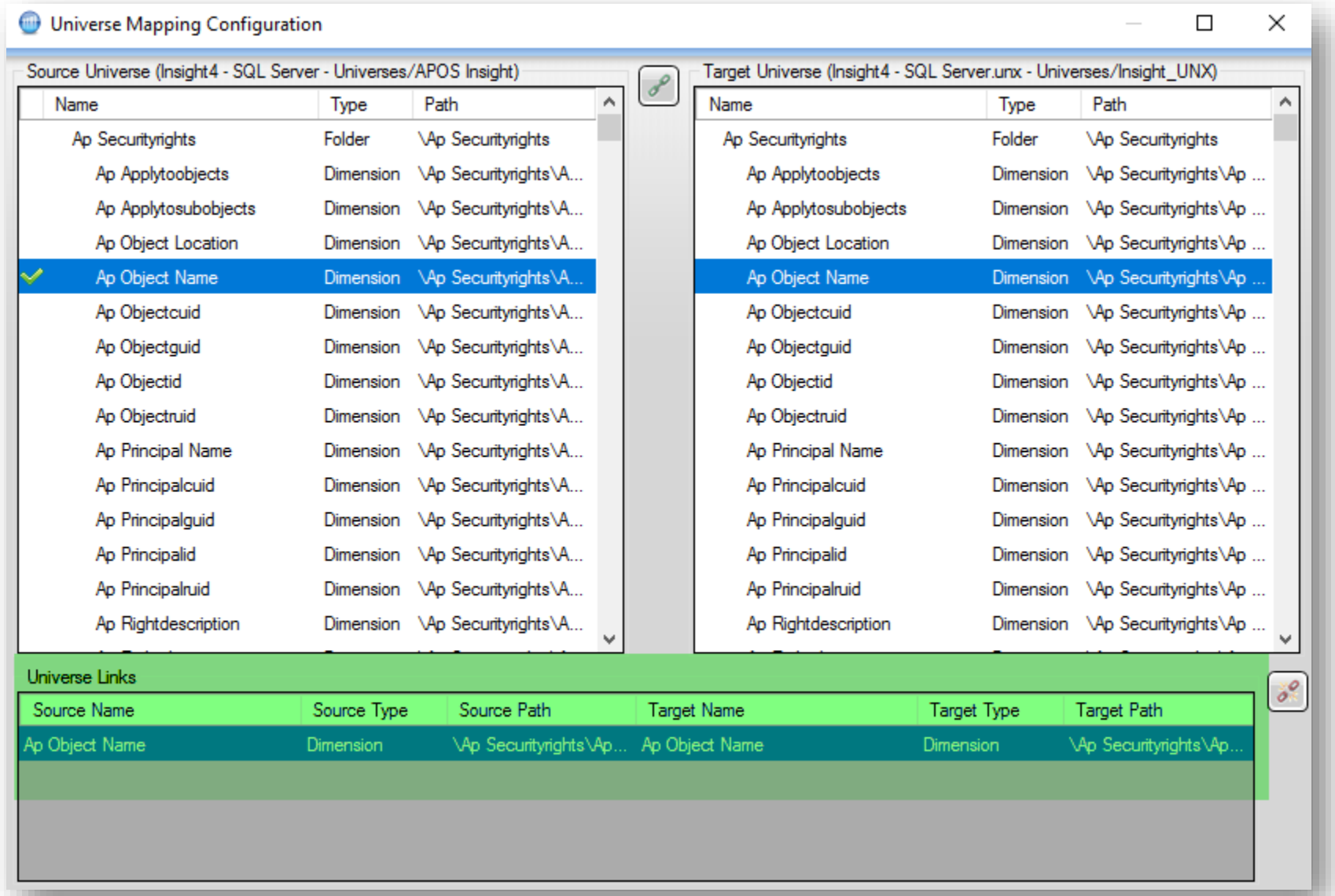

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APOS Solutions for SAP BusinessObjects

APOS Insight

BI System Auditing

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

BI Report Testing

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

BI System Monitoring

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

BI Query Surveillance

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

APOS Administrator

Object Management

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

Schedule Management

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

Instance Management

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

Web Intelligence Migration

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

APOS Storage Center

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

APOS Publisher

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

APOS Solutions for SAP Analytics Cloud

APOS Live Data Gateway

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

APOS Publisher for Cloud

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

APOS Insight for Cloud

Monitor – tracking & alerting for:

- SAC story performance
- System response measures

Validation automated comparisons across SAC versions of:

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

Impact analysis – granular auditing of SAC story structure metadata

APOS Semantic Layer Migration

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

Upcoming Events

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

December 2, 2021 – 11 am EST

- Content validation is a necessary step in the implementation of new versions and SPs of **SAP BusinessObjects**. Automated report testing ensures your reports stay the same through environmental changes (database, universe, operating system/software upgrades), compliance, upgrade testing, and day to day testing, while eliminating much of the drudgery of this part of the process.
- Topics
  - We will discuss:
  - Regression Testing
  - Upgrade/Migration Testing
  - Report Modification Governance
  - … and more

Register at www.apos.com

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