

Webinar

Breaking BI Barriers: Live Connectivity from SAP Analytics Cloud to non-SAP Data Sources

October 12, 2023



Today's Session

Key Topics

- Introduction
- SAC Connectivity Options
- Expanded Live Data Connectivity for SAC
- Data Connection
- Data Transformation
- Data Consumption
- New Feature Updates
- Q&A

Today's Presenters



ALLAN PYM

Chief Operating Officer
APOS



ALAN GOLDING

Solution Consulting Manager
APOS

Who is APOS?

- Formed in 1992
- Enabling BI data connectivity, 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**



**EXTEND
SAP ANALYTICS**

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

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 Report Web Intelligence reports
- Success validation
- Controlled, project-based workflow

APOS Solutions for SAP Analytics Cloud



APOS Live Data Gateway

- Live Connectivity from SAC to wide range of data sources



APOS Publisher for Cloud

- Automated broadcasting of personalized SAC reports to targeted users



APOS Insight for Cloud

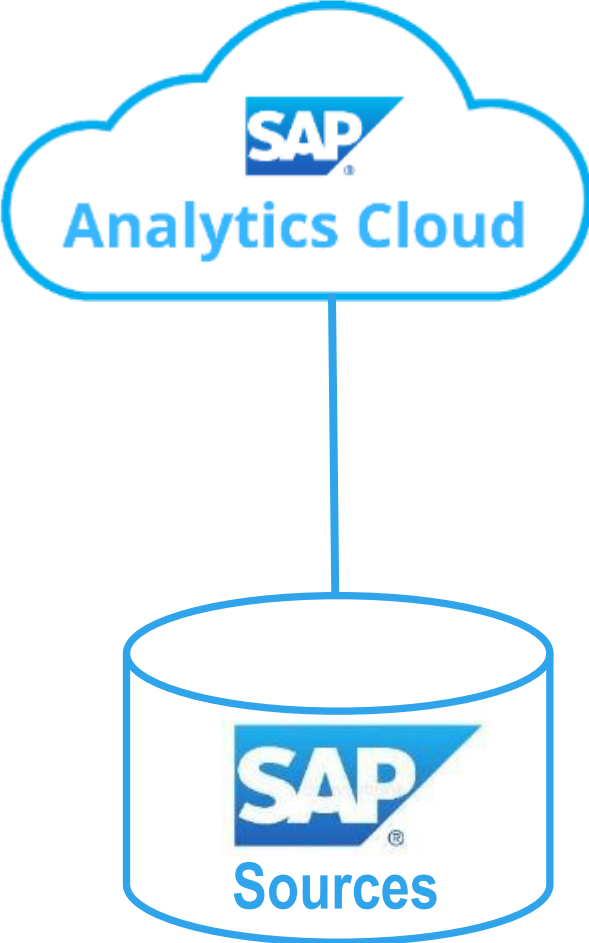
- Enhanced Monitoring, Auditing and Validation of SAP Analytics Cloud



SAC Connectivity – SAP Sources

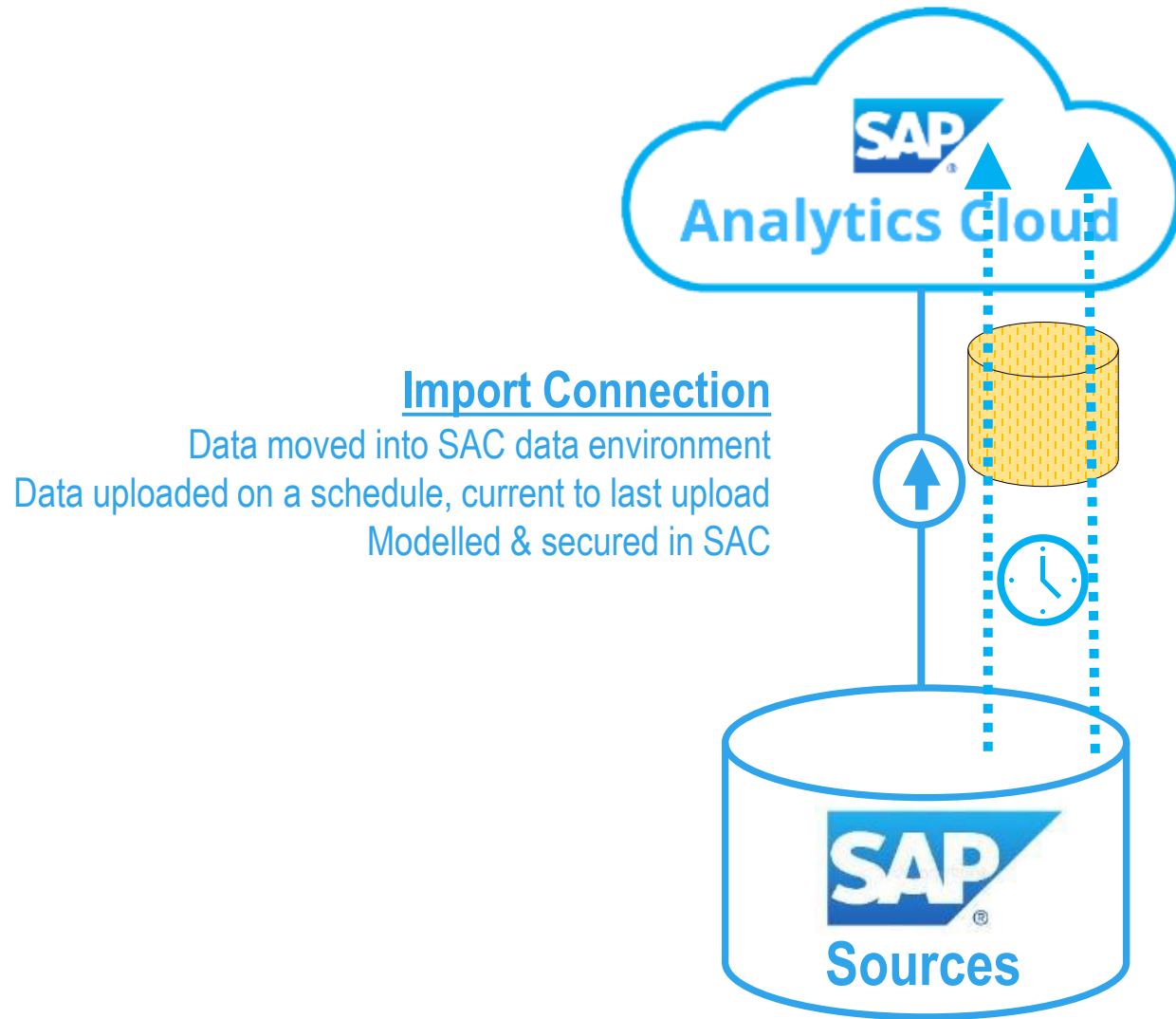


Import Connection

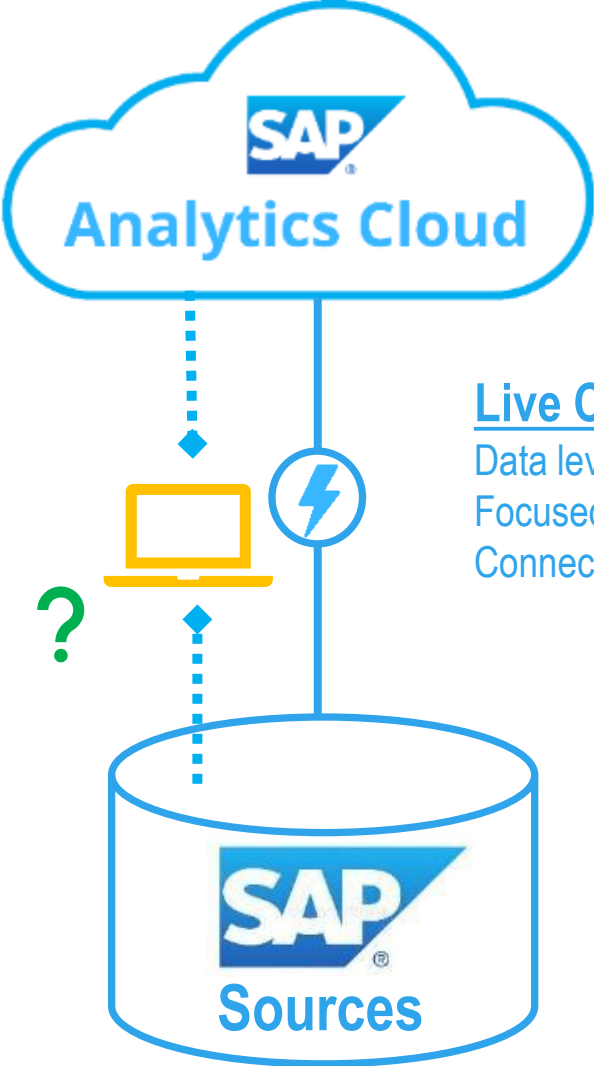


Live Connection

Import Connectivity



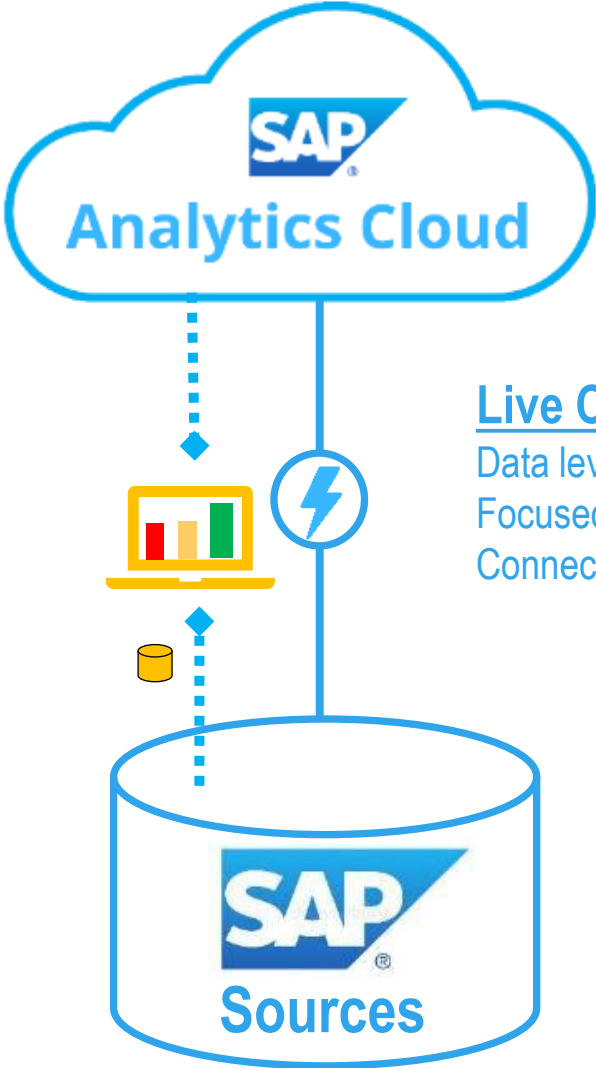
Live Connectivity



Live Connection

Data leveraged from existing location, no data movement
Focused queries against existing source via SAC browser
Connection into existing source modelling & security

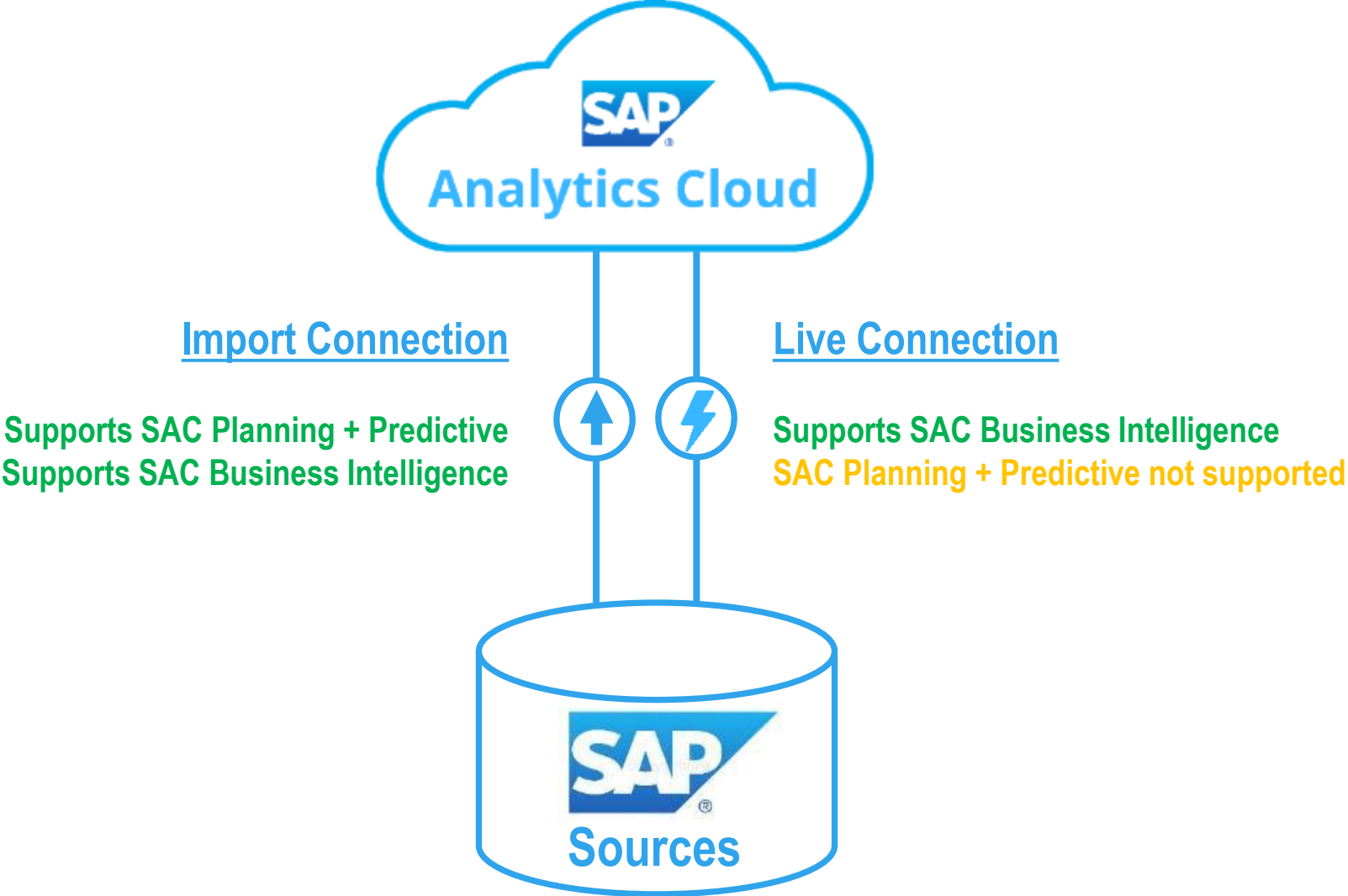
Live Connectivity



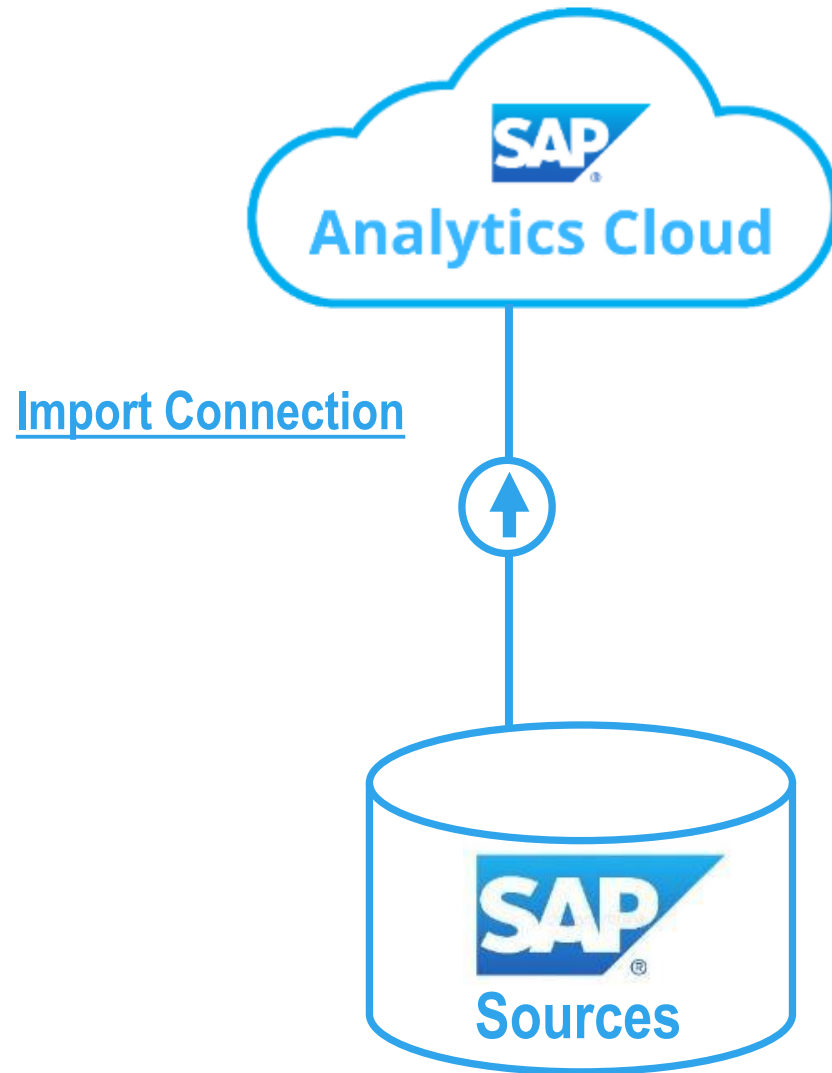
Live Connection

Data leveraged from existing location, no data movement
Focused queries against existing source via SAC browser
Connection into existing source modelling & security

Live & Import Connectivity



Decision Considerations - Import



- Support for Planning & Predictive
- Native support for many sources

- Data replicated into SAC
- Source data security is lost
- Source data modelling is lost
- Data latency – latest upload time
- Data volume limits **
- Data crosses firewall
- Data residency

Import – Data Volume Limits



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SAP Analytics Cloud Connection Guide

The Importance of Managing a Connectivity Project

Choosing a Live Connection or Importing Data

> Live Connections Overview

> Importing Data

> Single Sign-On (SSO)

Data Volume Maximums:

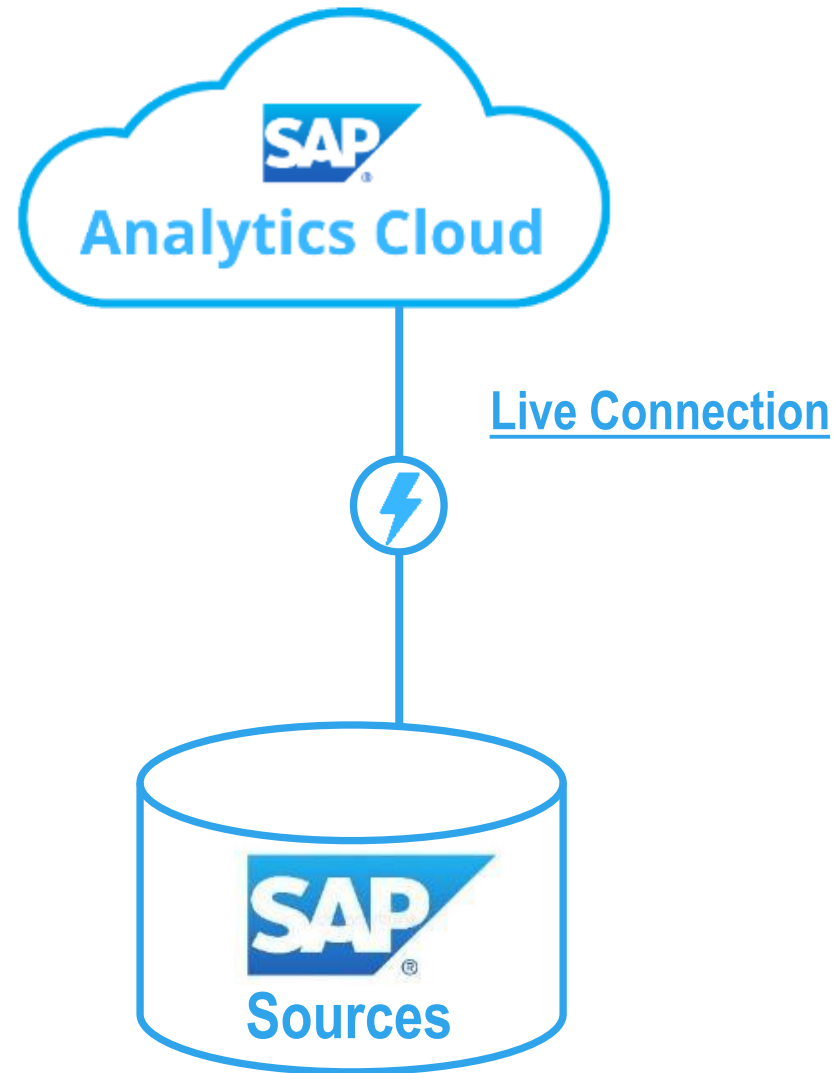
- Columns: 100
- Rows: 800,000
- Dimension members:
 - Planning models: 250,000
 - Analytic models: if there are more than 250,000 unique members, the dimension will be made read-only
- Dimension members with attributes: 150,000
- Dimension members with geo enrichment: 200,000
- Dimension members in hierarchy: 150,000
- Hierarchy depth: 1,000

Decision Considerations - Live



- Data is not replicated
- Database security respected
- Database modelling retained
- Data is current
- No data volume limits
- Data stays behind firewall

- No Planning/Predictive
- Limited sources supported **



Live – Limited Sources Supported



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SAP Analytics Cloud Connection Guide
The Importance of Managing a Connectivity Project
Choosing a Live Connection or Importing Data
> Live Connections Overview
> Importing Data
> Single Sign-On (SSO)

Live Connection

Functional Need	Supported Datasources
Local (Cloud data sources)	<ul style="list-style-type: none">▪ SAP Cloud Platform▪ SAP S4/HANA Cloud
Remote (On-premise data sources)	<ul style="list-style-type: none">▪ SAP HANA▪ SAP BW▪ SAP S/4HANA▪ SAP Universe

APOS Live Data Gateway – Expand Live Options



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Advanced Search

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Setting the Default Language for Live Data Connections

Using the 'None' Authentication Option

Using the APOS Live Data Gateway

Error: Failed to connect to system

- > Creating Import Data Connections
- > Creating Export Data Connections
- > Data Preparation and Wrangling (Datasets and Models)
- > Data Analyzer
- > Data Visualization (Stories)
- > Digital Boardroom Presentation
- > Analytic Application Design (Analytics Designer)
- > Microsoft Office Integration
- > Augmented Analytics (Smart Features)
- > Planning
- > Workflow Organization (Calendar)
- > System Administration

Using the APOS Live Data Gateway

The APOS Live Data Gateway provides live data connectivity from SAP Analytics Cloud to an expanded set of on-premise data sources and cloud data sources.

Data provided through APOS Live Data Gateway is kept safely behind the firewall, with no data replication or data upload requirements, and no need to re-create or duplicate data models or data security.

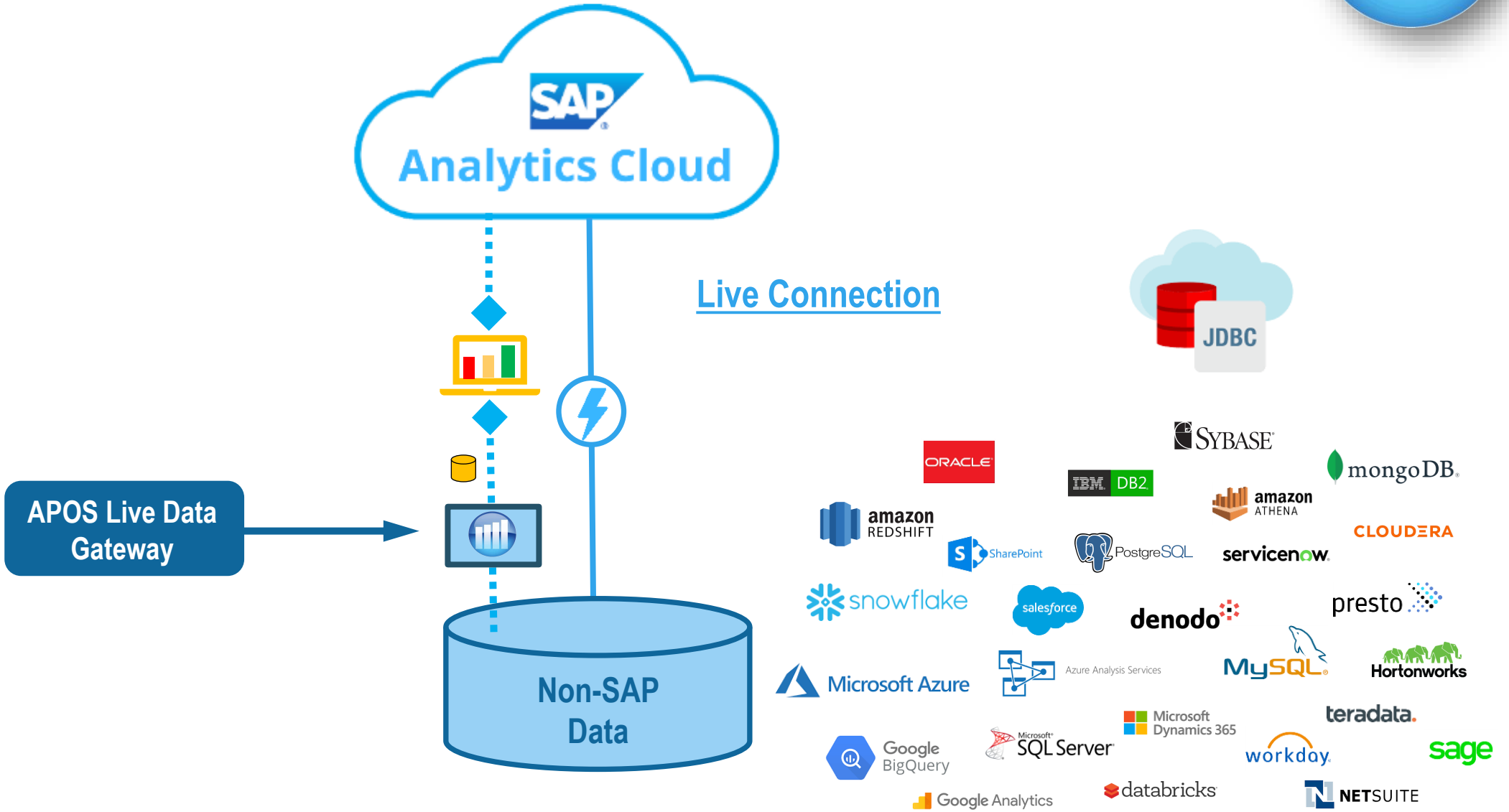
The APOS Live Data Gateway is available on the [SAP App Center](#).

Data Source Types Supported

The APOS Live Data Gateway provides live data connectivity for numerous data sources of OLAP, relational, data appliances, cloud, and legacy SAP data source types:

- Relational Data Sources: Microsoft SQL Server, Oracle, IBM DB2, Sybase IQ, Sybase SQL Anywhere, MySQL
- Data Appliances: Teradata, Netezza

APOS Live Data Gateway – Expand Live Options



APOS Live Data Gateway – Unlock Live Data



APOS Live Data Gateway is a middleware platform which provides virtualized data connection and data transformation to enable live data connectivity and expanded data source options for SAP Analytics Cloud, with a primary focus on **non-SAP data sources**.



Leverage data from its current location



No movement or importing of data



Leverage existing data modelling



Leverage existing security models



Data is always current



Data never leaves the firewall



No added data storage requirements



Reduce data bandwidth requirements



Available on
SAP Store

Customer Success



Major US energy company deploying Live Data Gateway to leverage live connection from SAC to Postgres and SharePoint stored data.



Large global construction equipment manufacturer utilizes Live Data Gateway to enable reporting via live connectivity to Salesforce data and Google Analytics data



European-based mining corporation utilizes Live Data Gateway for live connectivity to their AWS Redshift data assets.



Australian LNG use Live Data Gateway company for connectivity to Snowflake data for financial analytics and key monthly operational reports, alongside S/4HANA reporting.

A global pharmaceutical corporation utilizes Live Data Gateway for live connection to Snowflake meeting strict security (SSO, OAuth) needs.



One of the 'Big 4' consulting firms leverages Live Data Gateway for an internal project that utilizes live connection from SAC to data in residing in Microsoft Azure



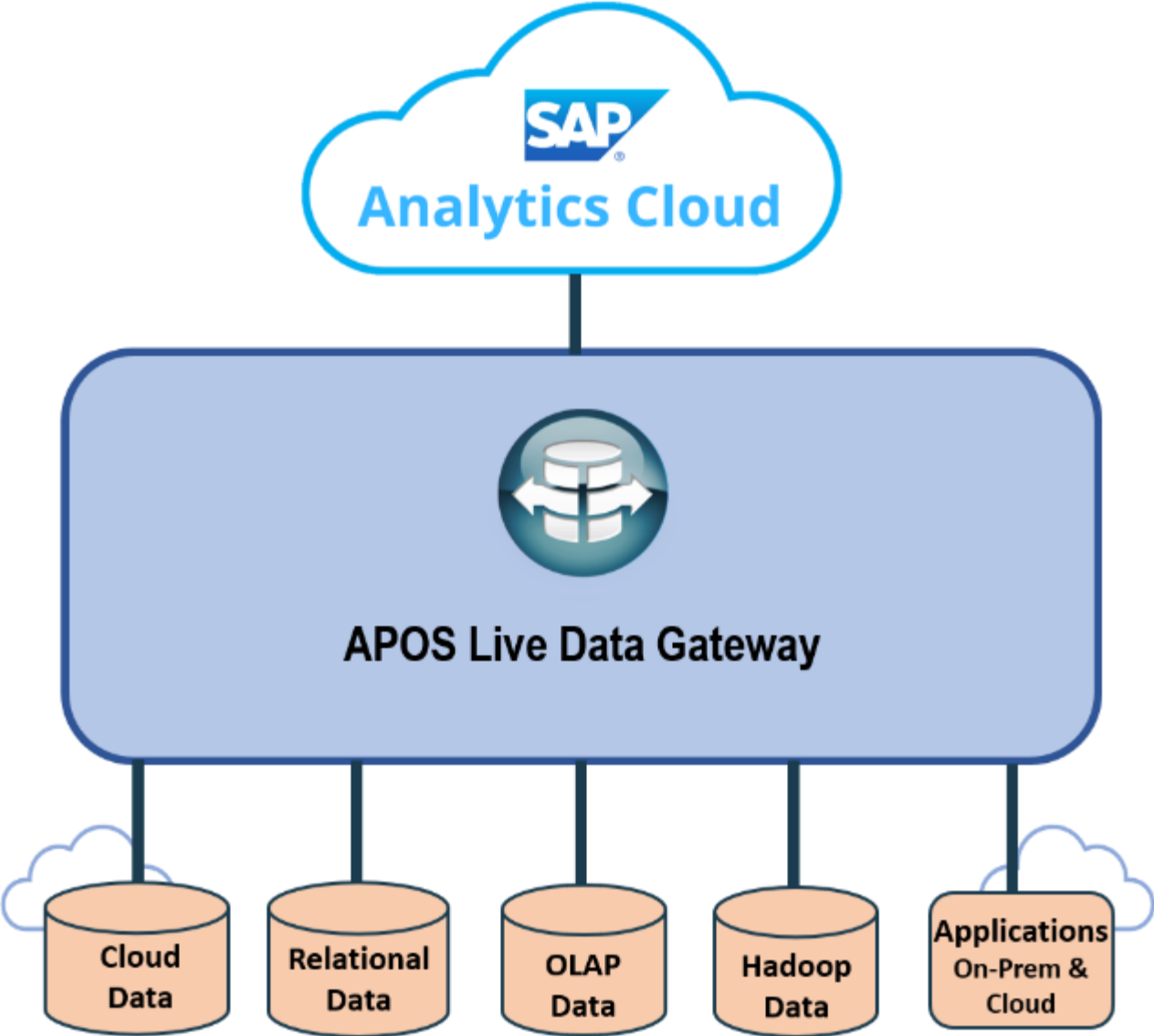
International banking group headquartered in France, utilizes Live Data Gateway for live SAC reporting to SAP Financial Consolidation module data (MS SQL Server)



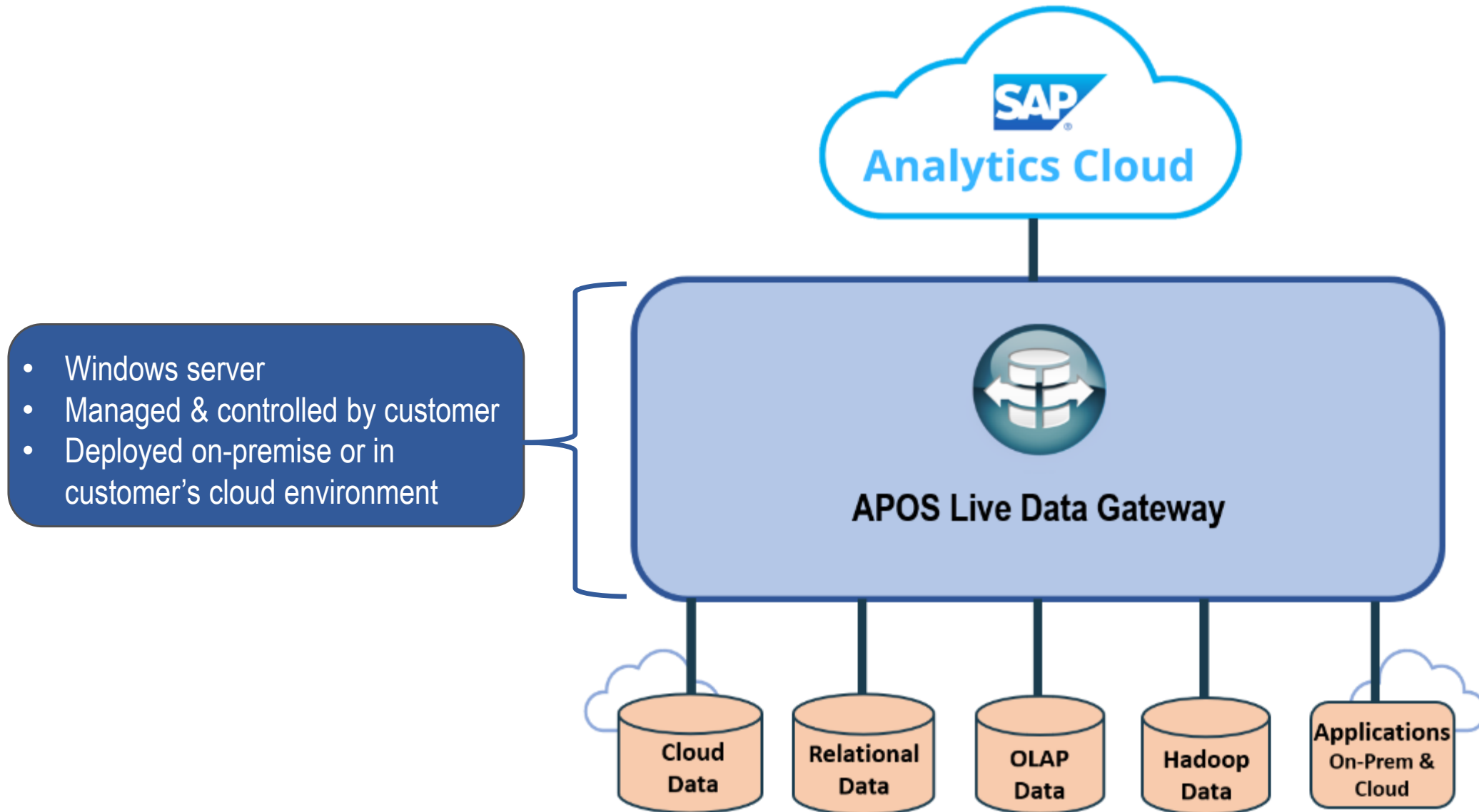


Alan Golding
Solution Consulting Manager
APOS

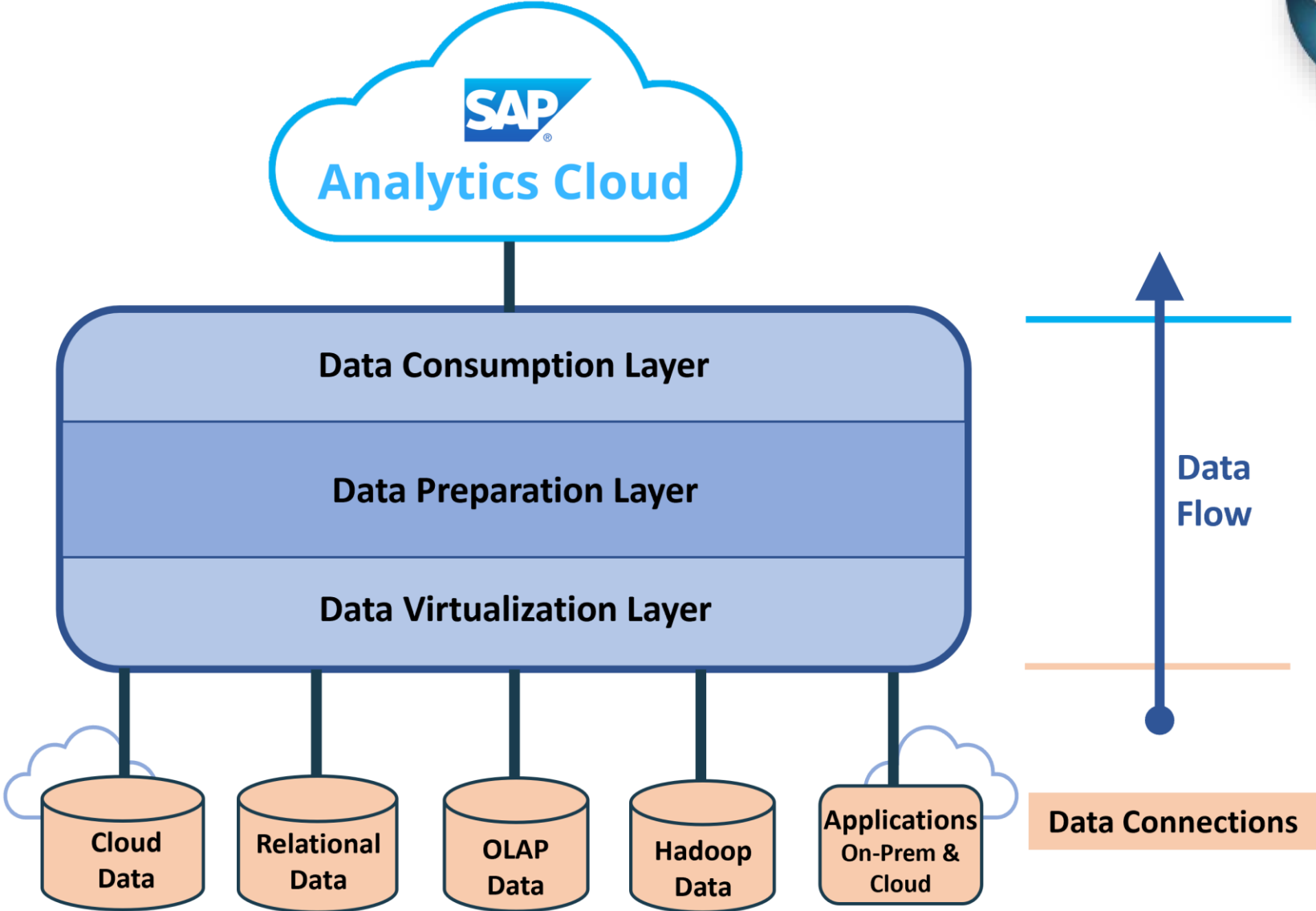
APOS Live Data Gateway



Live Data Gateway Server



APOS Live Data Gateway



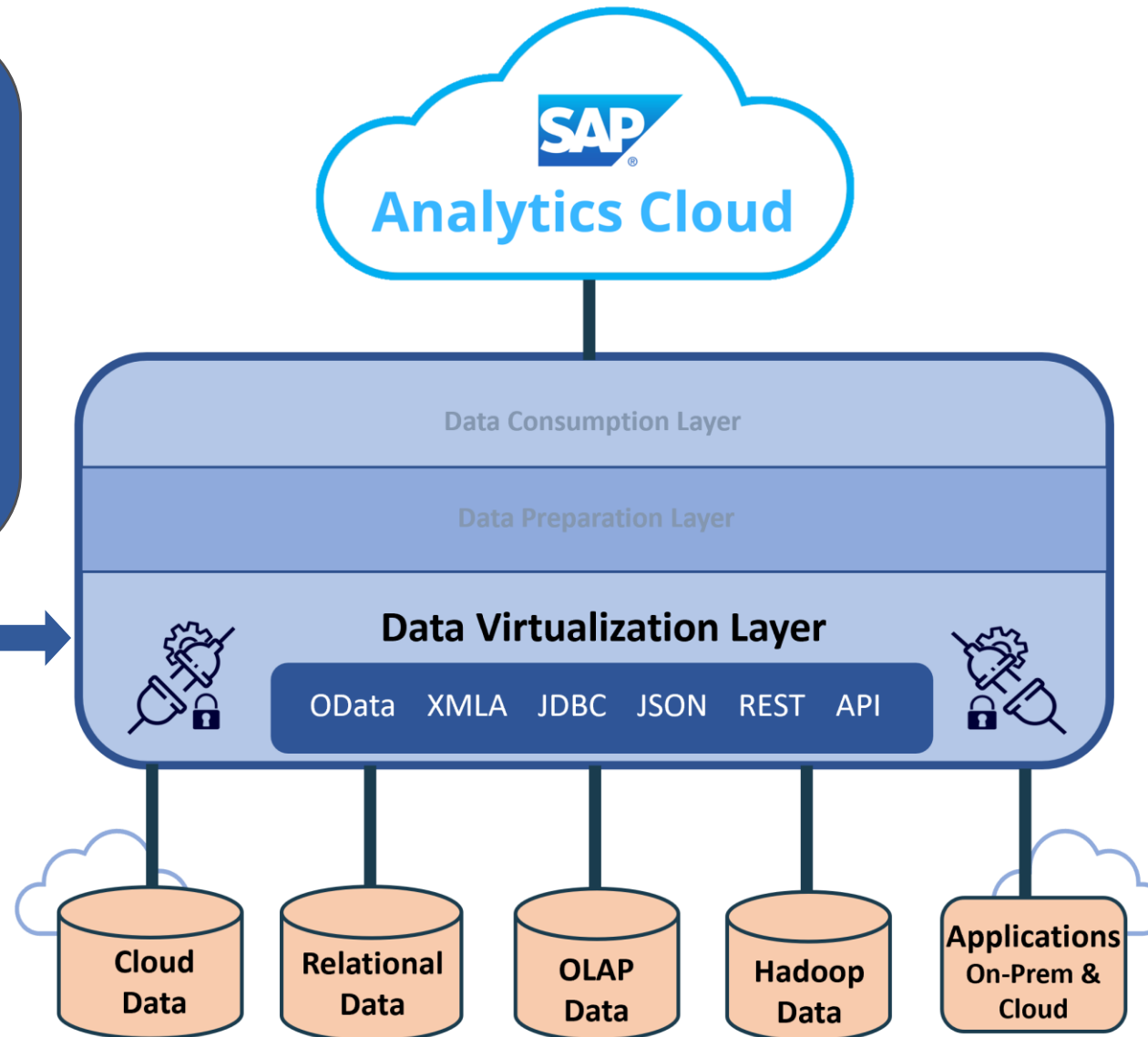
Database Virtualization Layer



Data Virtualization Layer

Key Functions

- Establish direct connectivity and communication with data source
- Communicate query requests and receive query results
- Manage database authentication and security integration, SSO
- Additional connectivity options: (Data, XMLA, JSON, REST, API, etc)



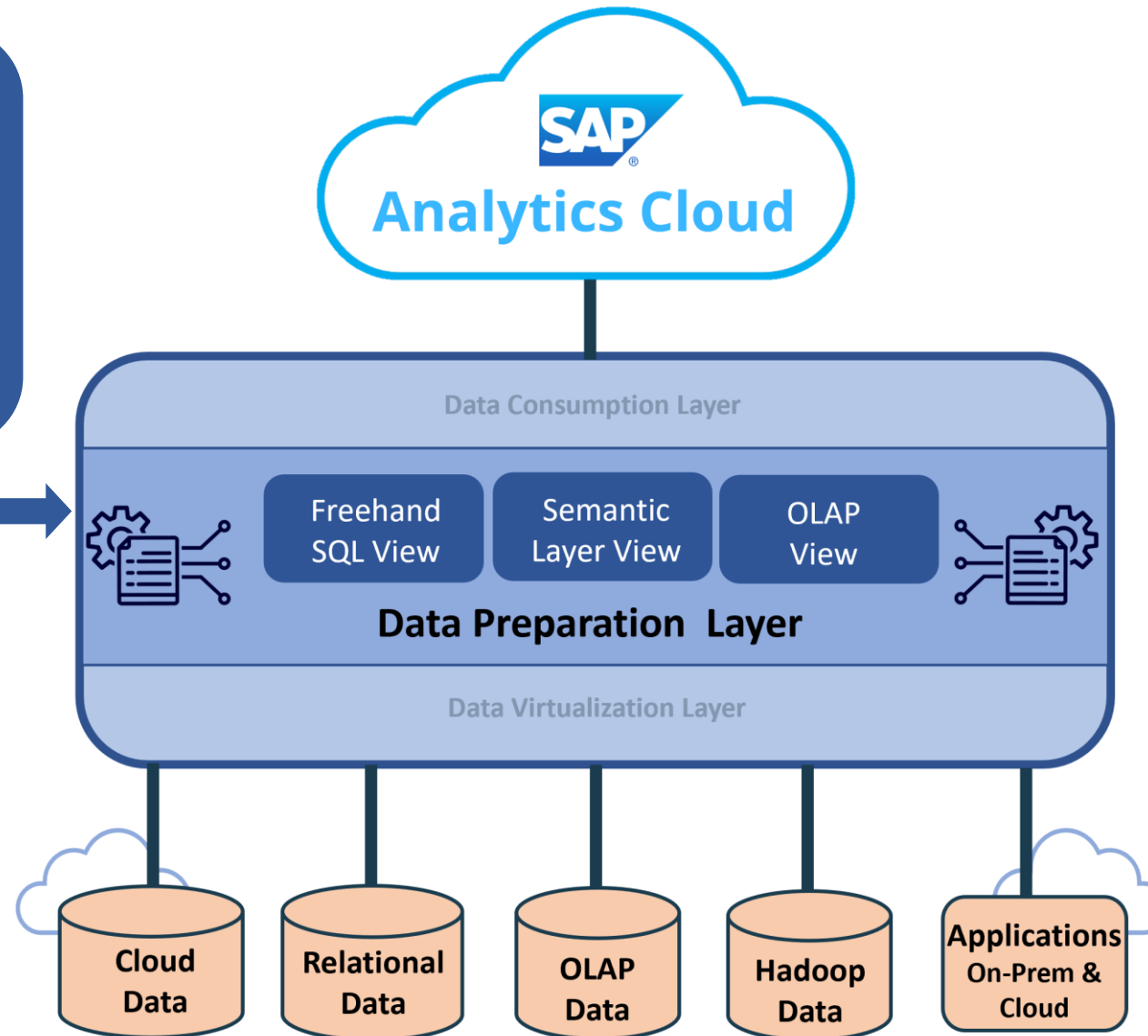
Data Preparation Layer



Data Preparation Layer

Key Functions

- Define Measures and Dimensions
- Define what data fields are exposed
- Manage table links and joins
- Set meaningful field names
- Optimize with data transformations



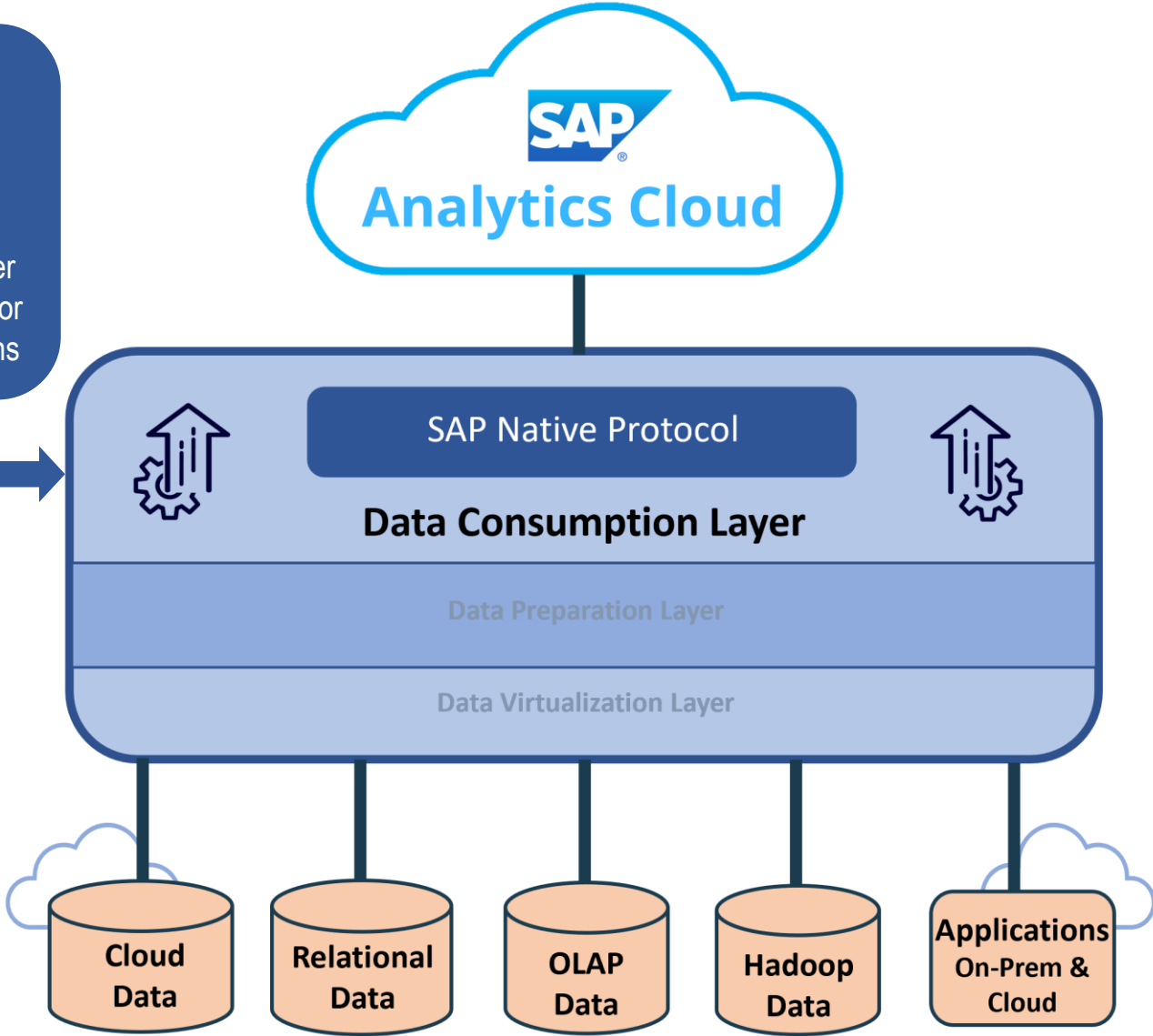
Data Consumption Layer



Data Consumption Layer

Key Functions

- Establish direct connectivity and communication with SAC User browser
- Supply data via SAP Native Protocol for SAC Story and SAC Application actions



5 Simple Steps to Live Connectivity



**Create connection
from Live Data
Gateway to data
source**

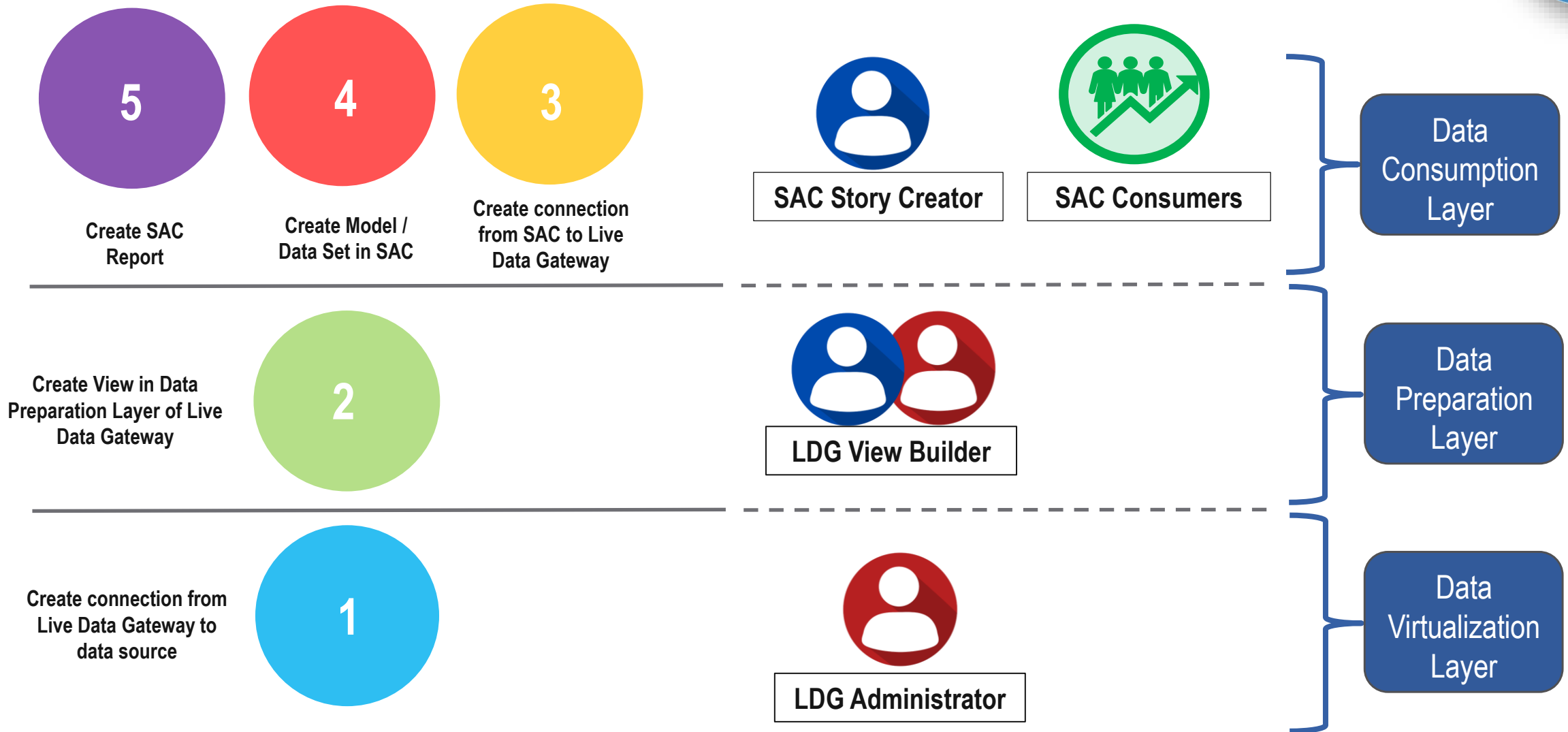
**Create View in
Data Preparation
Layer of Live Data
Gateway**

**Create connection
from SAC to Live
Data Gateway**

**Create Model /
Data Set in SAC**

**Create SAC
Report**

Demonstrating the 5 Steps





Solution Overview



Performance

Performance Considerations



- No data being stored
- Data being read from source database
- No caching of data
- New queries initiated with each data request within SAC

The screenshot shows the Snowflake Worksheets interface. On the left is a sidebar with a tree view of database objects, including 'SNOWFLAKE_SAMPLE_DATA' and 'TPCDS_SF100TCL'. The main area contains a SQL editor with the following query:

```
1 USE DATABASE SNOWFLAKE_SAMPLE_DATA;  
2 USE SCHEMA TPCDS_SF100TCL;  
3 USE WAREHOUSE APOS;  
4 select count(1) from STORE_SALES; --288,010,550,524  
5
```

Below the editor, the 'Results' section shows a 'Data Preview' table with one row:

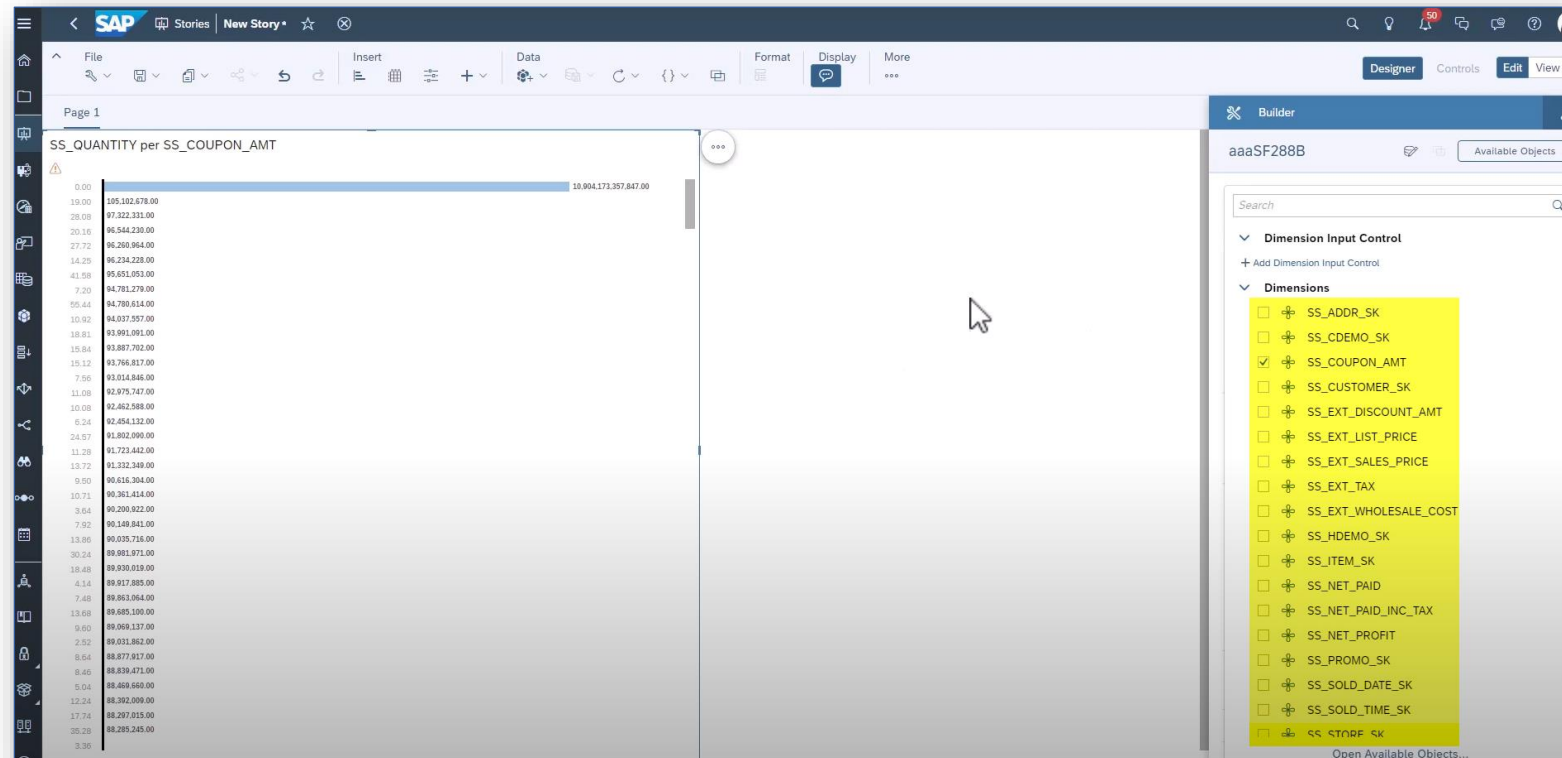
Query ID	SQL	43ms	1 rows
1			288010550524

A modal window titled 'Open History' is overlaid on the right side of the interface. It displays the column name 'COUNT(1)' and the value '288010550524'. A red arrow points from the 'Open History' modal to the 'Data Preview' table, indicating that the modal provides a detailed view of the data returned by the query.

APOS Live Data Gateway – Performance Results



- 288 billion row data set
- 10.5 Terabytes
- On-the-fly aggregated queries
- Sub-2 second response time !



APOS Live Data Gateway



The screenshot shows the Snowflake console interface. At the top, there are navigation tabs for Databases, Shares, Marketplace, Warehouses, Worksheets, and History. The 'Worksheets' tab is active. A notification banner at the top states: "Our updated Worksheets experience now includes autocomplete, an improved object browser, and a new search. Visualize your results with Dashboards and share work with colleagues without leaving the product." Below this, there is a "Go to Snowsight" button and a "Remind me later" link.

The main workspace is titled "New Worksheet" and contains a SQL query editor. The query is:

```
1 USE DATABASE SNOWFLAKE_SAMPLE_DATA;  
2 USE SCHEMA TPCDS_SF100TCL;  
3 USE WAREHOUSE APOS;  
4 select count(1) from STORE_SALES; --288,010,550,524  
5
```

Below the query editor, the "Results" section shows the execution output. It indicates that the query was successful, took 43ms, and returned 1 row. The results table is as follows:

Row	COUNT(1)
1	288010550524

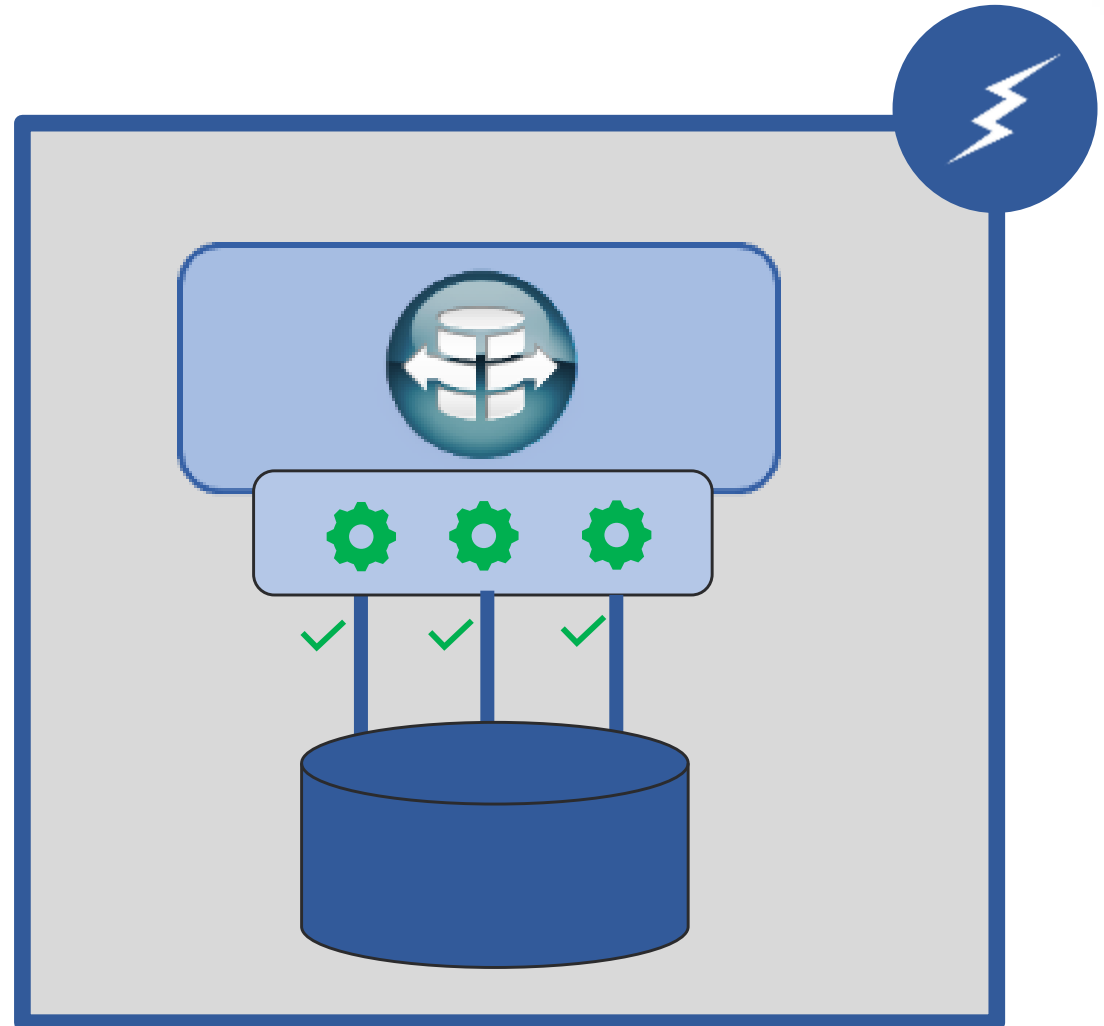
The interface also includes a sidebar for "Find database objects" with a search bar and a tree view showing the database structure, including tables like CALL_CENTER, CATALOG_PAGE, and STORE_SALES. The bottom of the screen shows a Windows taskbar with various application icons and system information like the date and time (10:04 AM, 2022-11-21).

APOS Live Data Gateway – Performance



Connection Optimization

- Intelligent connection management
- Improved connection efficiency
- Reduce connection process overhead
- Improved Live Data Gateway performance and SAC report execution speeds



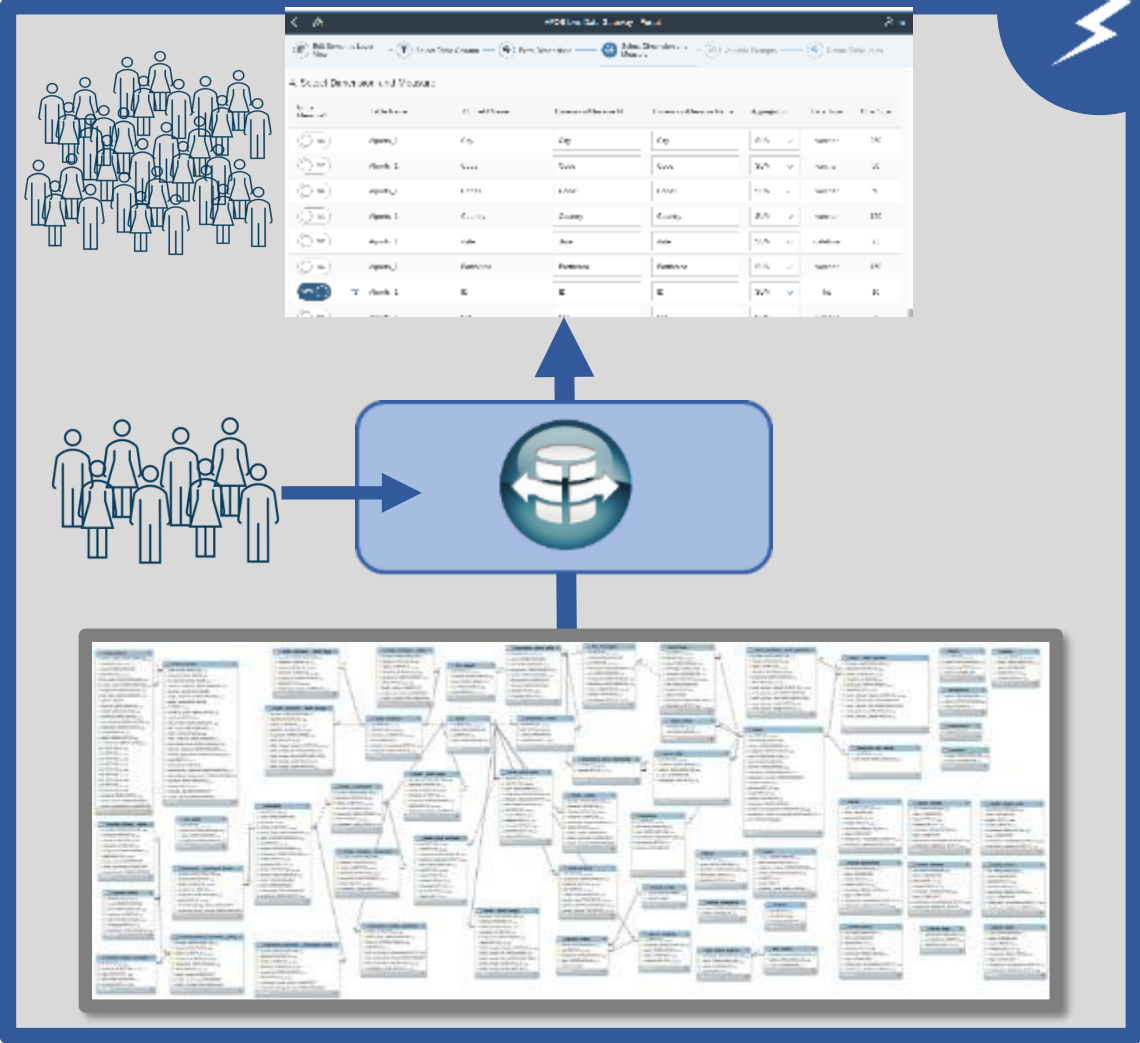


Data Transformations

APOS Live Data Gateway – Data Transformations



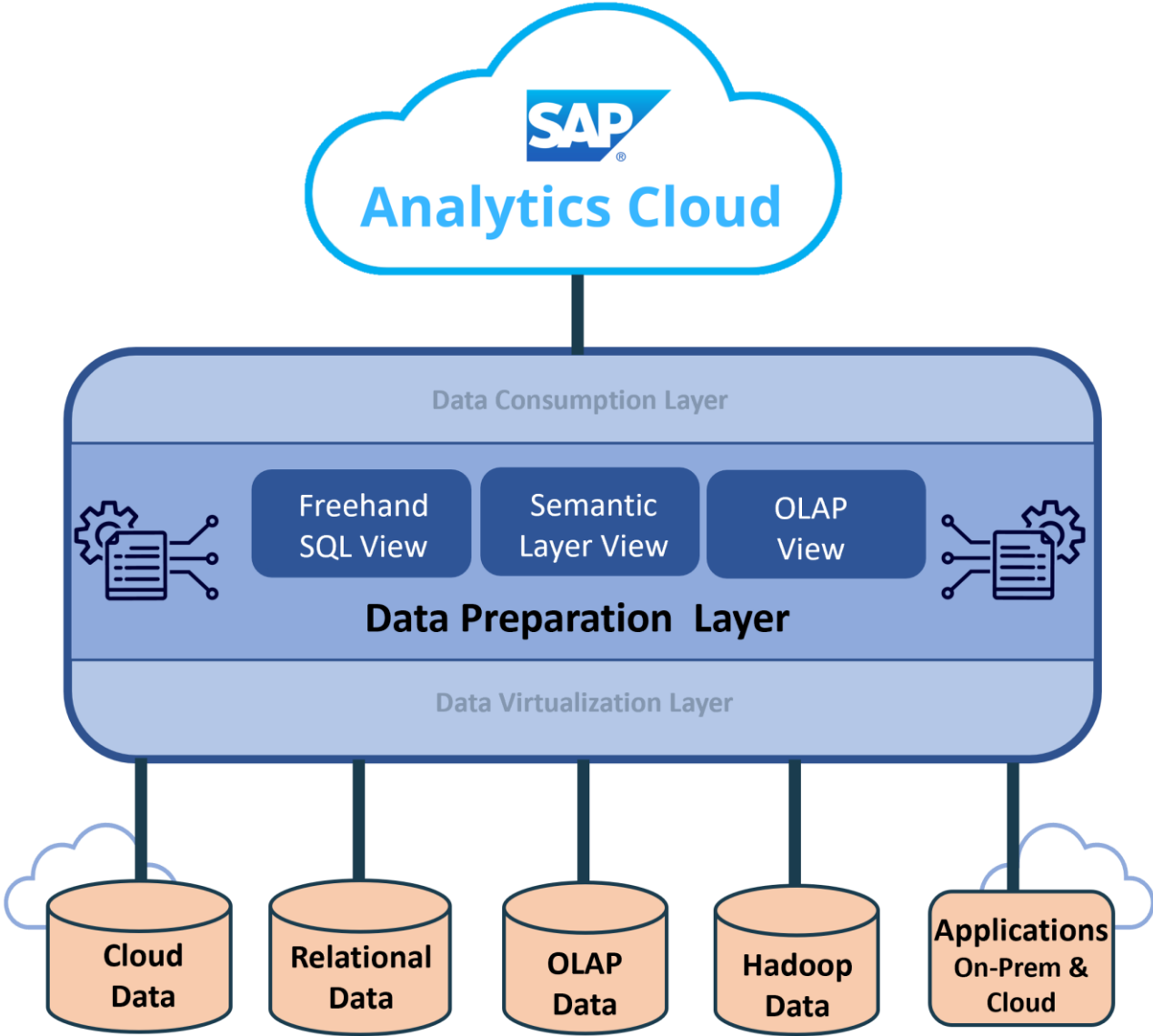
Self-Service Data Modelling



- Self-service creation of data modelling assets
- Expand from self-service analytics to self-service modelling
- Strengthen independence of analytics team
- Reduce IT dependence

- Web-based modelling interface
- Controlled user access to modelling
- SSO enabled
- Multiple options for building views

Data Preparation Layer



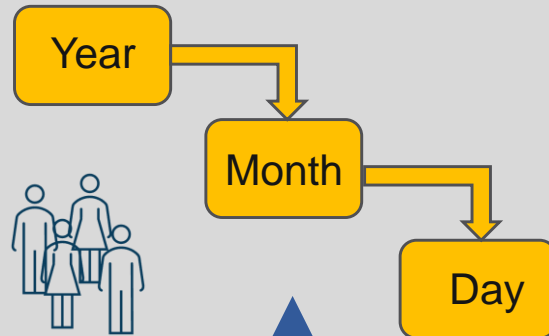
Data Transformations



Date Dimensions

- Create date hierarchies on non-hierarchical data
- Simplified user navigation and experience
- Improved analysis

- Custom date dimensions support
- Hierarchical date dimension support
 - Drill Down
 - Time Series Charts
 - Variance Charts
- Hierarchies available as individual dimensions



Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
1200025833	28/01/2022	5:058:00 PM	22	605	B2677XS	422.47	USD
1200025834	28/01/2022	5:058:00 PM	18	233	CFT1315M	135.72	USD
1200025835	28/01/2022	5:059:00 PM	42	321	B2678M	424.66	USD
1200025836	29/01/2022	8:02:00 AM	57	103	CFP1318XL	115.38	USD
1200025837	29/01/2022	8:02:00 AM	4	477	ARW7767L	294.65	USD
1200025838	29/01/2022	8:03:00 AM	51	76	CFT1315S	135.72	USD

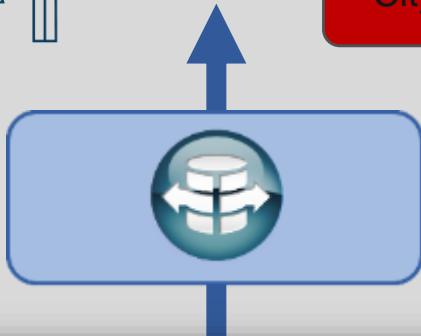
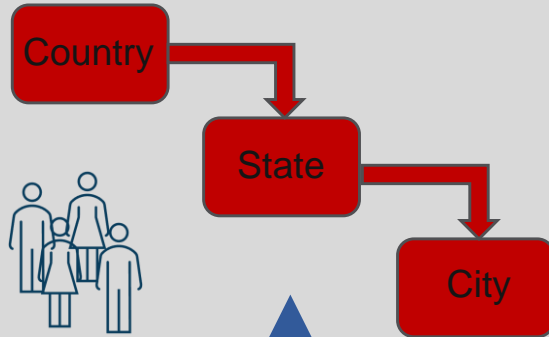
Data Transformations



Custom Hierarchies

- Create custom hierarchies on non-hierarchical data
- Simplified user navigation and experience
- Improved analysis

- Provide ability to create custom dimensions on non-hierarchical data
- Simplified user experience for building and consuming analytics
- Drill down functionality for non-date-based dimensions
- Level Type Hierarchies will be supported



Store Number	Street	City	State	Country	Zip Code	Latitude	Longitude
1	810 Phillips Ln	Louisville	KY	USA	40209	38.1912	-85.74234
2	3515 Lindell Blvd	St. Louis	MO	USA	63103	38.63705	-90.2311
3	2906 Belmont Blvd	Nashville	TN	USA	37212	36.12007	-86.79496
4	1015 Joyce Ln	Nashville	TN	USA	37216	36.23382	-86.72676
5	90 Fairlie St NW	Atlanta	GA	USA	30303	33.75712	-84.39016
6	1310 S Tryon St	Charlotte	NC	USA	28203	35.21848	-80.85469

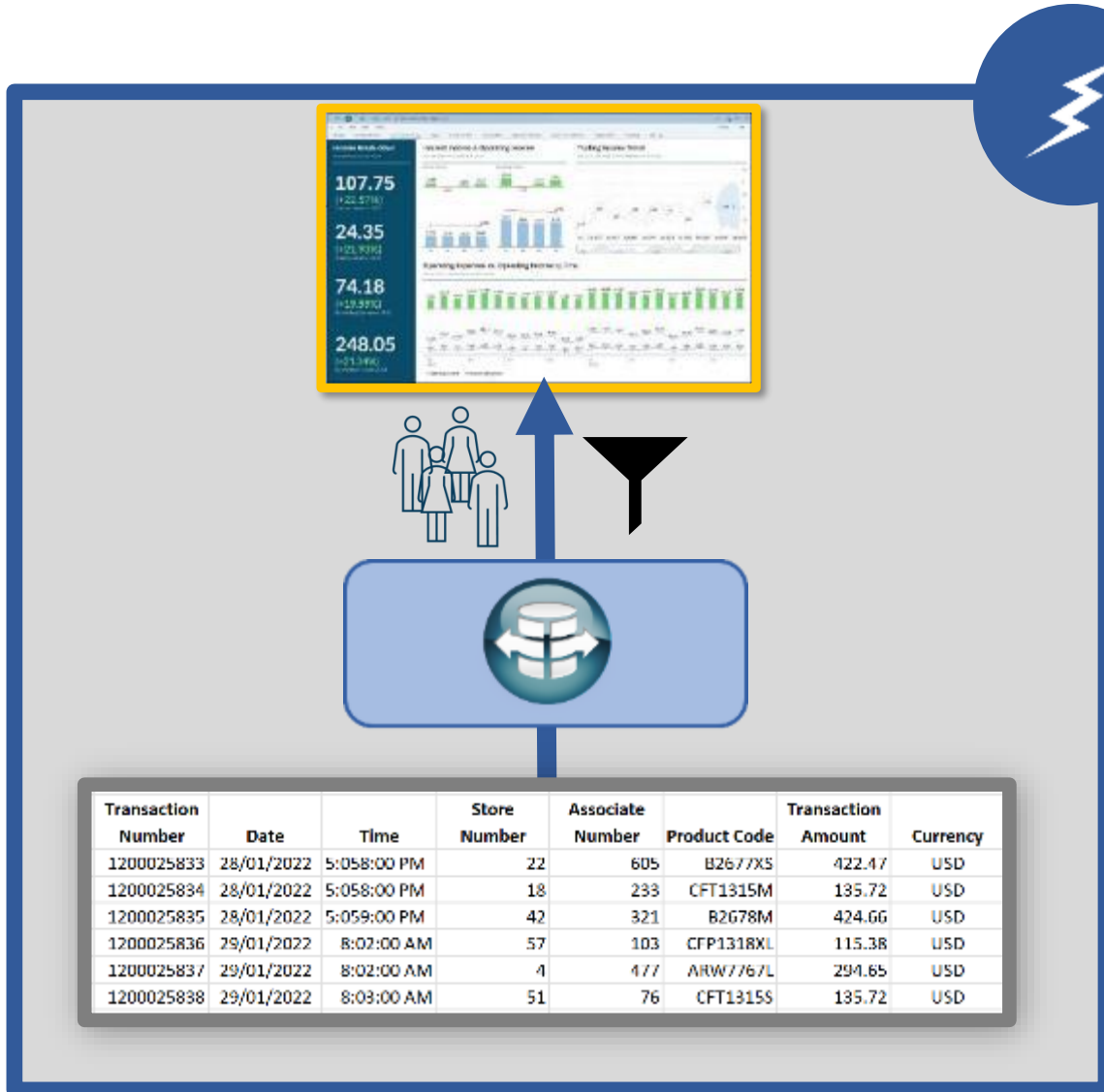
Data Transformations



Variables Support

- Powerful data filtering
- Simplified user experience
- Improved analysis

- Create custom variables
- Supported in both Client Tool and Web UI
- Utilize formulas
- Utilize full set of values or custom set of values



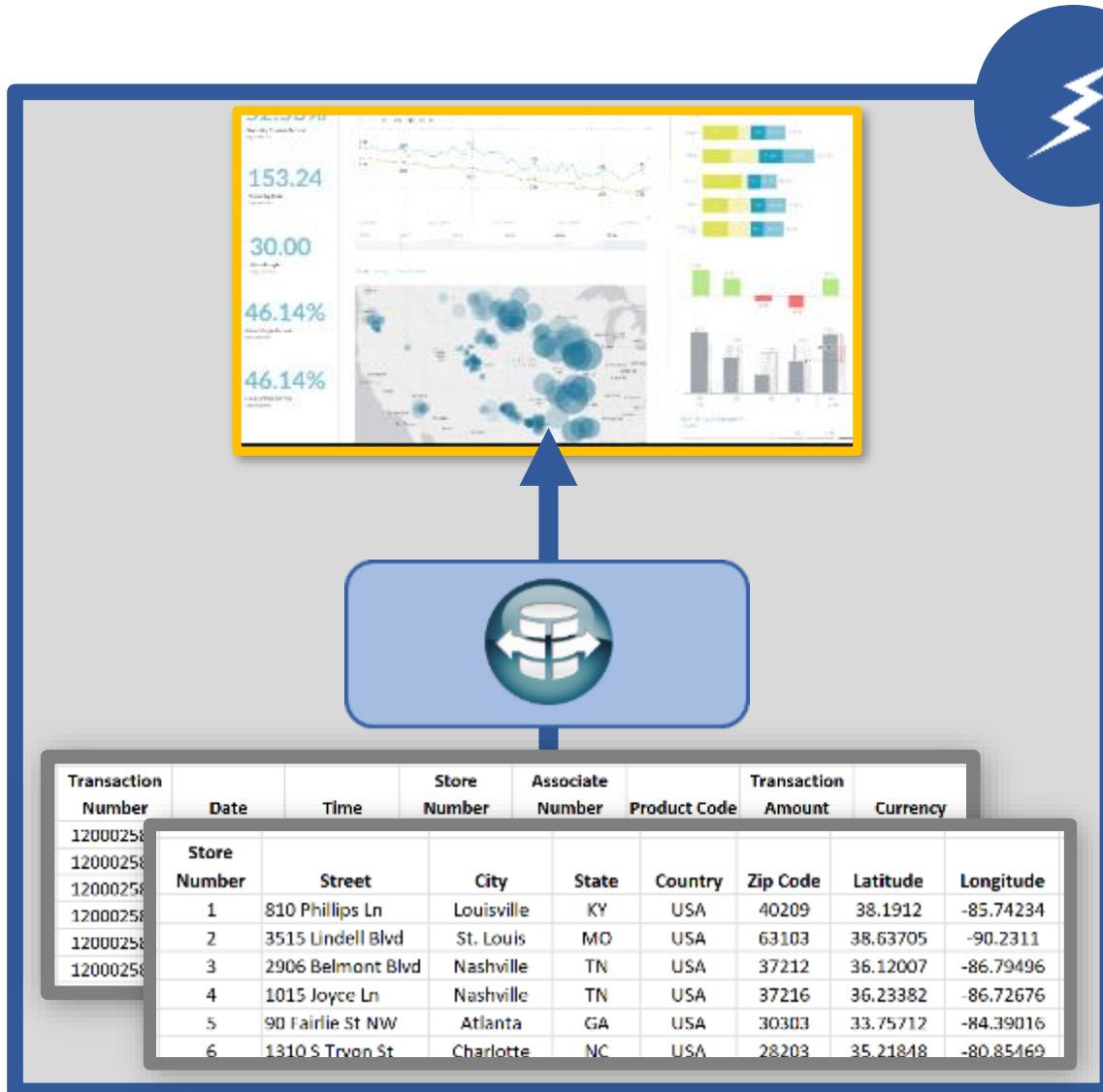
Data Transformations



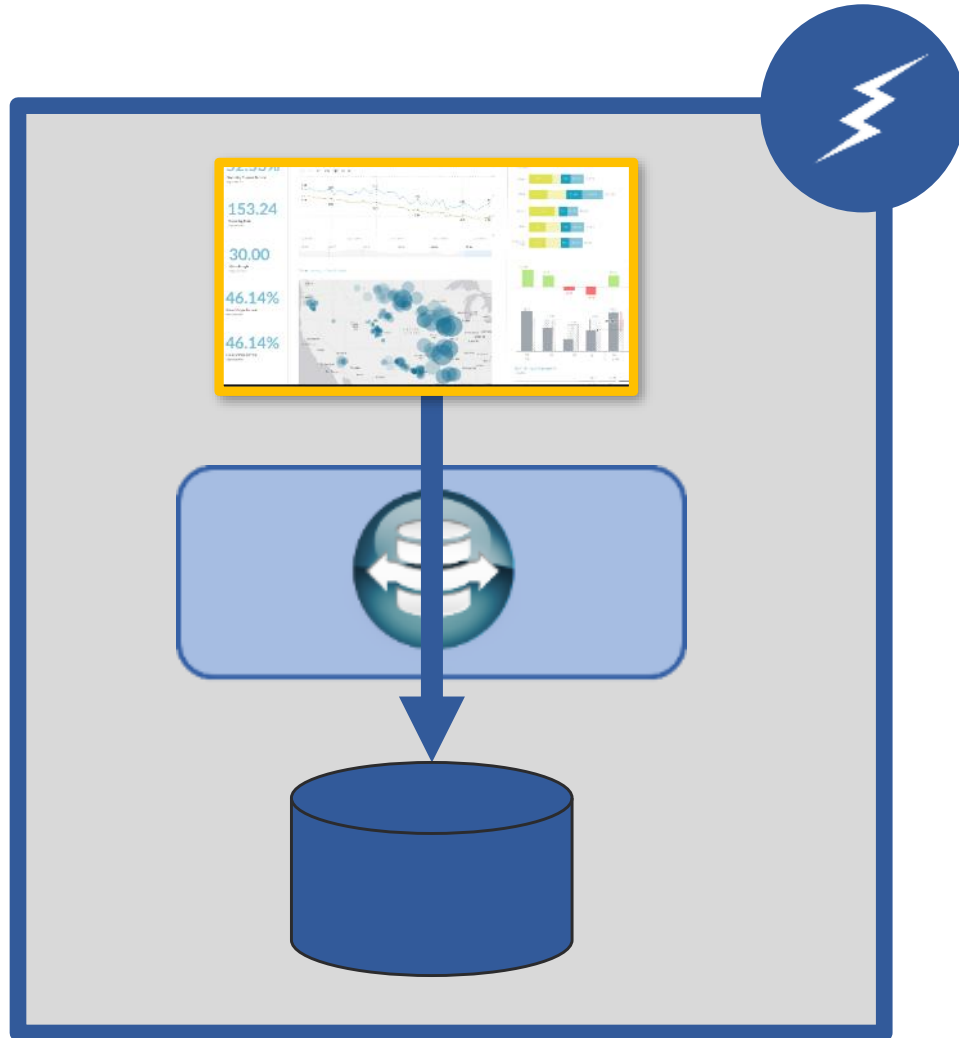
Geospatial Data

- Supply data for representation on a map
- Highly visual analytics
- Improved analysis

- Geospatial dimensions support
- Multiple projections supported
- Multiple datasource types supported
- Configure multiple geo dimensions



Data Transformations



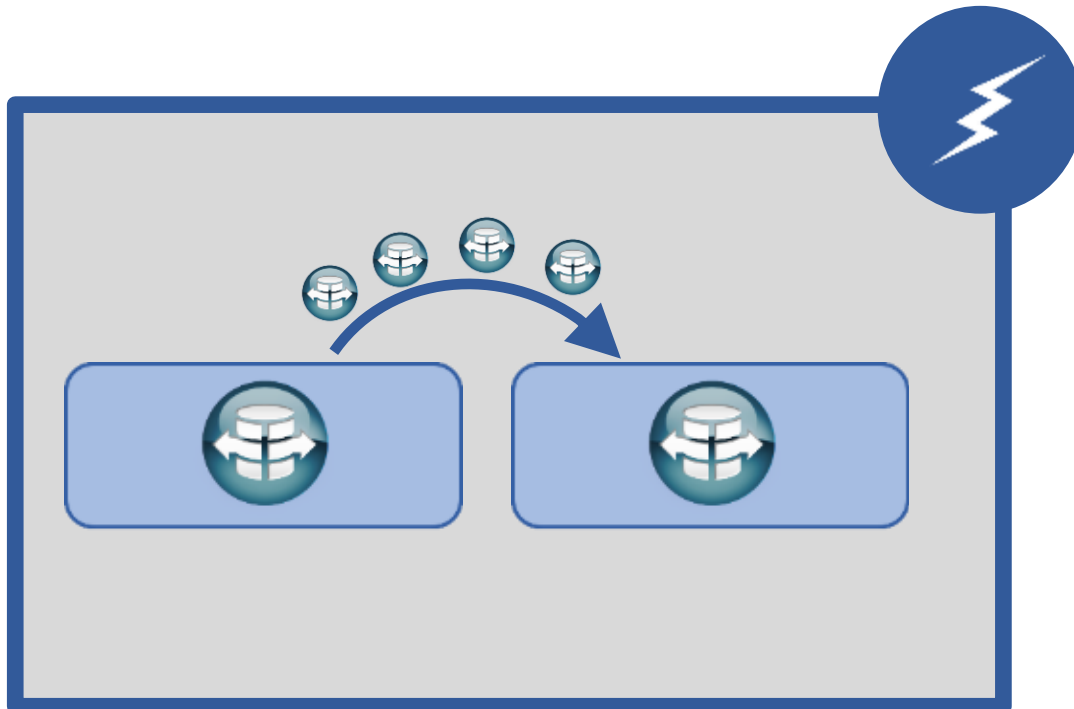
Database Passthrough

- Optional database passthrough rather than building APOS semantic layer views
- Direct access to database tables or views
- Automated defining of measures & dimensions
- Removes need for duplicate modelling when already exists
- Access full database catalogue

Data Transformations



View Management



- Backup and restore of APOS Views
- Seamless migration between Live Data Gateway environments (Dev/Test/Prod)
- APOS View Rollback
- Safeguard Views through development lifecycle

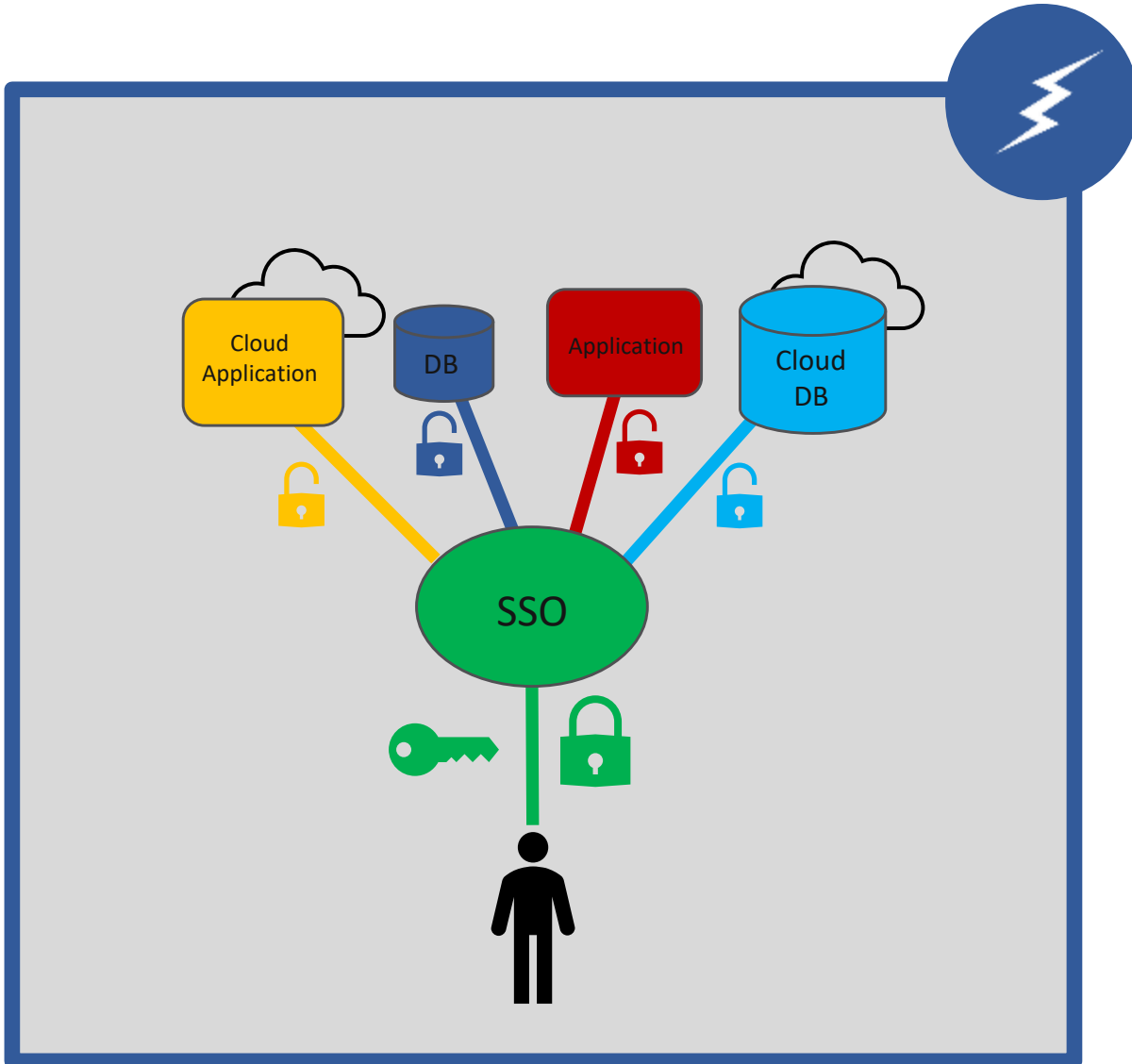


Data Preparation Layer Overview



Security

APOS Live Data Gateway – Security

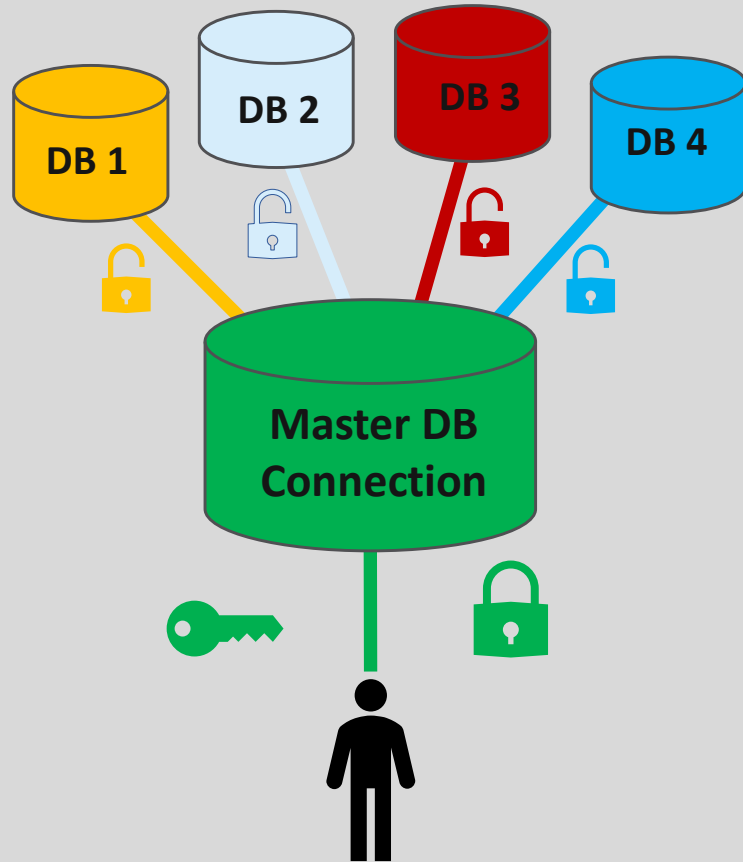


Single Sign On

- Unified security authentication
- Integrated to enforce data base security
- Simplified user experience

- Various SSO options supported
- SSO Technologies we work with:
 - SAML
 - Azure AD
 - OKTA
 - Google Cloud IDP
 - OAuth
 - Kerberos with WinAD
 - Keypair Authentication
 - User Impersonation
 - Pre-Defined Cached User

APOS Live Data Gateway – Security



Shared Connectivity

- Single point of SSO for multiple connections
- Master connection can have multiple child connections associated with it
- Removes need for multiple SAC connections



Connection & Security Overview



Expanded Connections

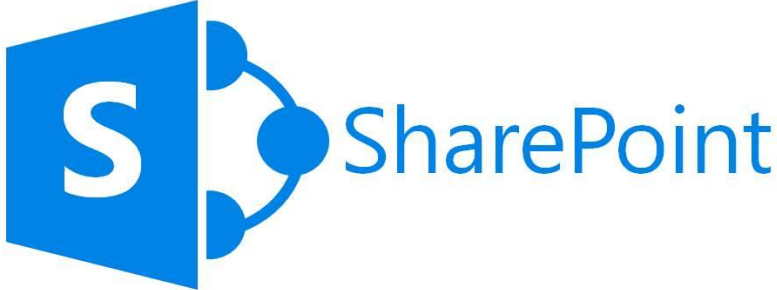
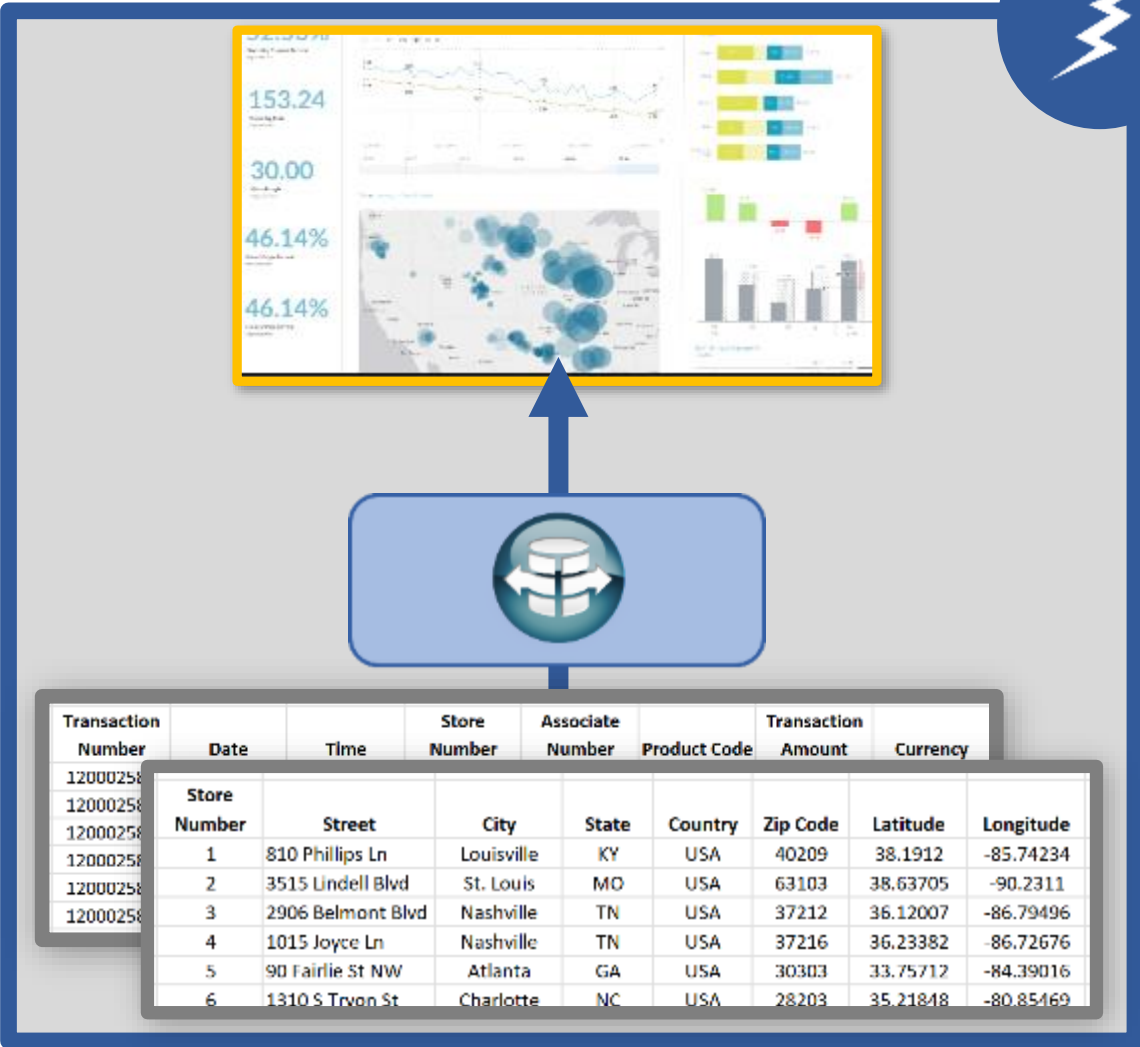
Cloud Data Sources



Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
12000258							
12000258							
12000258							
12000258							
12000258							
12000258							

Store Number	Street	City	State	Country	Zip Code	Latitude	Longitude
1	810 Phillips Ln	Louisville	KY	USA	40209	38.1912	-85.74234
2	3515 Lindell Blvd	St. Louis	MO	USA	63103	38.63705	-90.2311
3	2906 Belmont Blvd	Nashville	TN	USA	37212	36.12007	-86.79496
4	1015 Joyce Ln	Nashville	TN	USA	37216	36.23382	-86.72676
5	90 Fairlie St NW	Atlanta	GA	USA	30303	33.75712	-84.39016
6	1310 S Tryon St	Charlotte	NC	USA	28203	35.21848	-80.85469

Unique Data Sources



- ✓ Sharepoint Site Metadata
- ✓ Sharepoint Lists
- ✓ Sharepoint Storage
 - ✓ Excel
 - ✓ CSV

Unique Data Sources

A screenshot of a dashboard and CRM interface. The top part shows a dashboard with various charts and metrics, including a large number '153.24', '30.00', and '46.14%'. A blue arrow points from a database icon in a blue box below to the dashboard. The bottom part shows a CRM interface with a table of contacts.

NAME	ACCOUNT NAME	TITLE	PHONE	EMAIL	OWN...	OWNER ...
1 <input type="checkbox"/> Carole White (Sample)	Global Media (Sample)	VP Sales	1 (800) 667-6389	info@salesforce.com	Mary	McGuire
2 <input type="checkbox"/> Geoff Minor (Sample)	Global Media (Sample)	President	1 (800) 667-6389	info@salesforce.com	Mary	McGuire
3 <input type="checkbox"/> Howard Jones (Sample)	Acme (Sample)	Buyer	1 (800) 667-6389	info@salesforce.com	Mary	McGuire
4 <input type="checkbox"/> Jennifer Stamos (Sample)	Acme (Sample)	President and CEO	1 (800) 667-6389	info@salesforce.com	Mary	McGuire
5 <input type="checkbox"/> Jon Amos (Sample)	Global Media (Sample)	Sales Manager	1 (800) 667-6389	info@salesforce.com	Mary	McGuire
6 <input type="checkbox"/> Leanne Tomlin (Sample)	Acme (Sample)	VP Customer Support	1 (800) 667-6389	info@salesforce.com	Mary	McGuire
7 <input type="checkbox"/> Marc Benioff (Sample)	salesforce.com (Sample)	Executive Officer	1 (800) 667-6389	info@salesforce.com	Mary	McGuire

- ✓ Salesforce Accounts
- ✓ Salesforce Opportunities
- ✓ Salesforce Customers
- ✓ etc.

Unique Data Sources



 Google Analytics

- ✓ Google site traffic
- ✓ User Information
- ✓ Session Statistics
- ✓ Insights into your applications

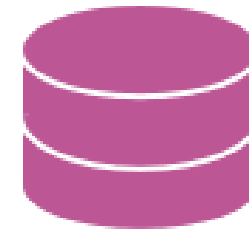


Generic JDBC Connectivity



Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
12000258							
12000258							
12000258							
12000258							
12000258							
12000258							

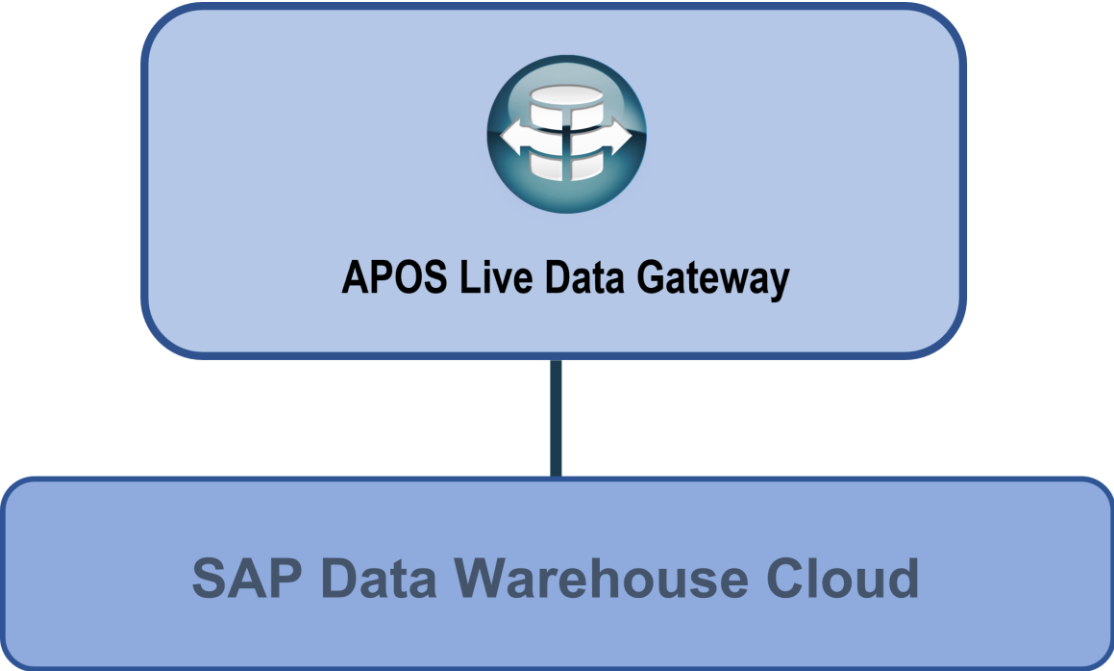
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6	1310 S Tryon St	Charlotte	NC	USA	28203	35.21848	-80.85469



Generic JDBC

- ✓ Live connectivity to other data sources that support JDBC with APOS Live Data Gateway

Live Connectivity to SAP Datasphere



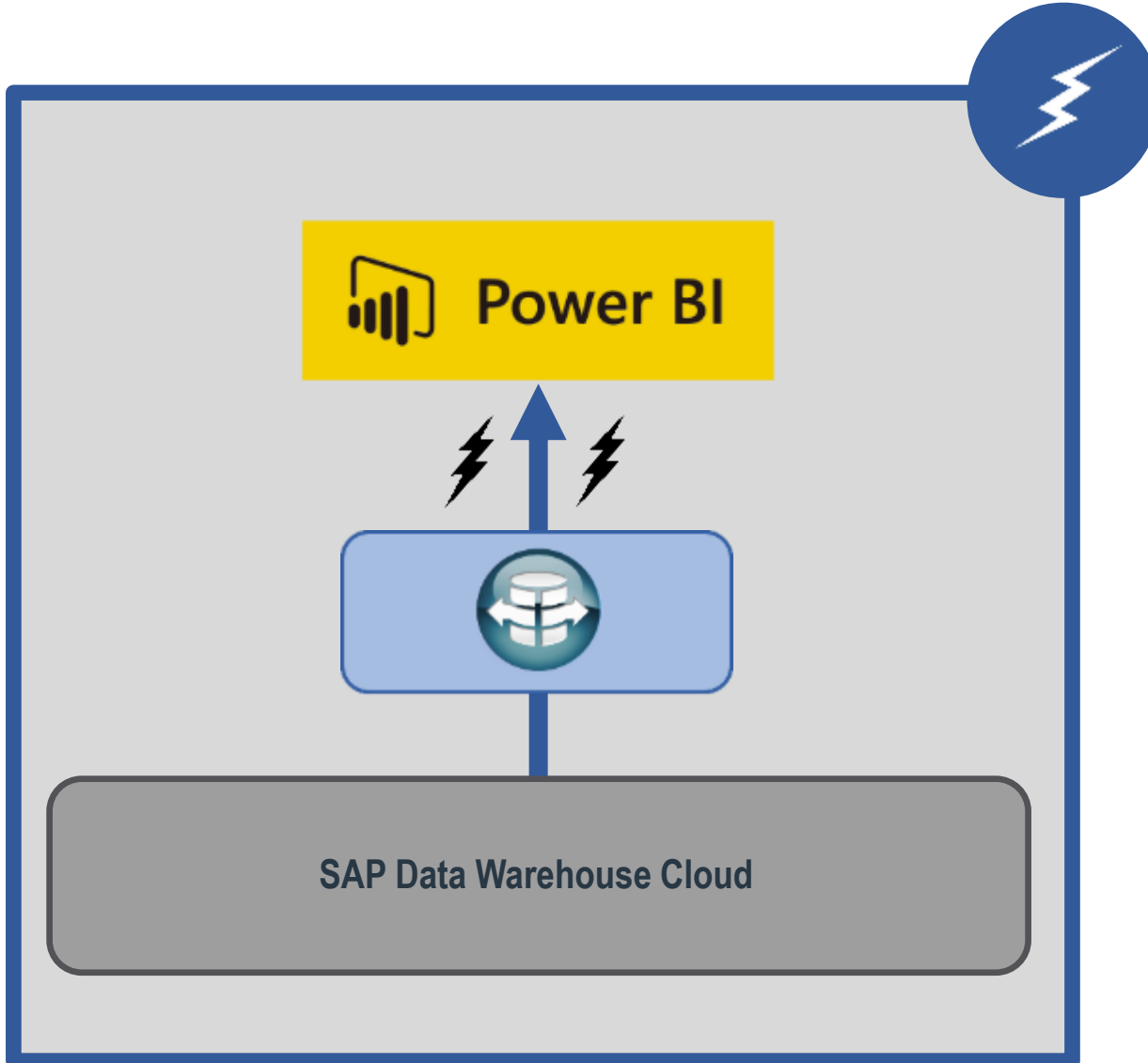


Expanded Consumption

APOS Live Data Gateway



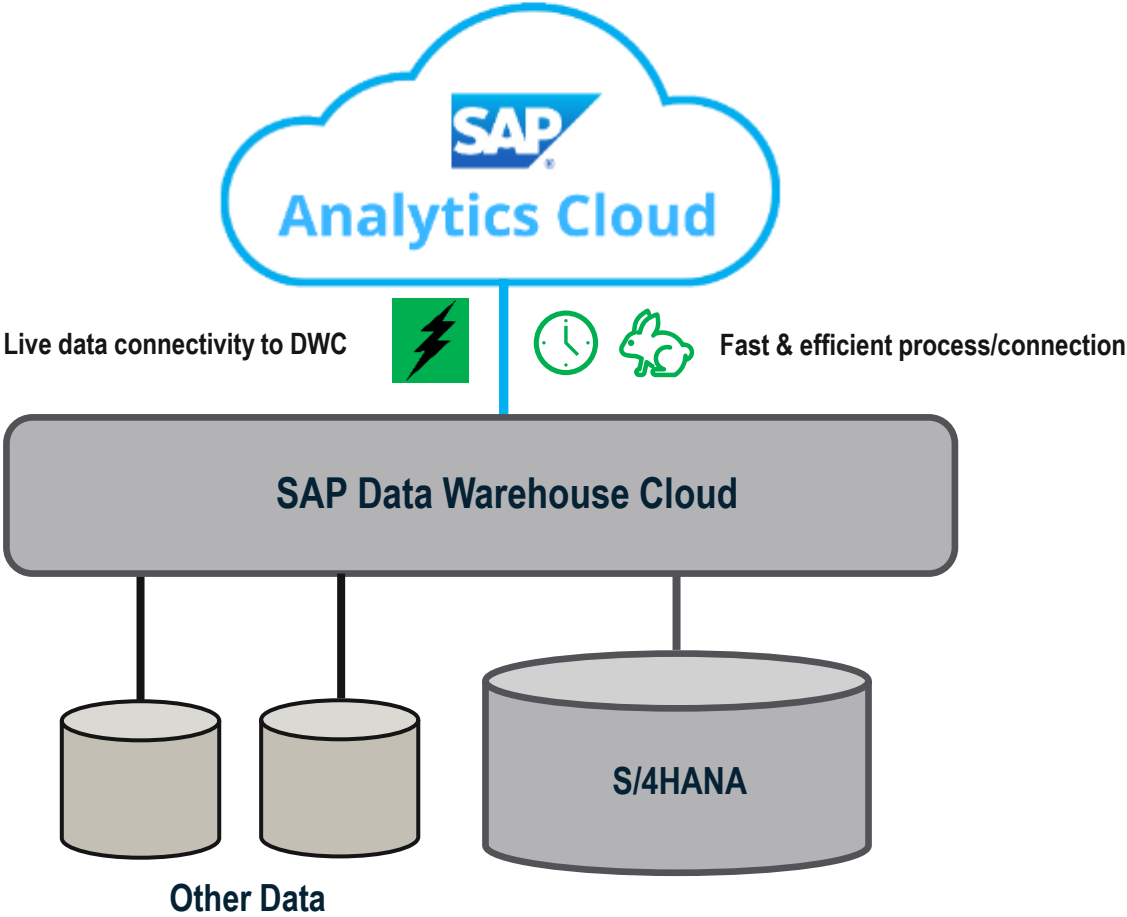
Power BI to SAP Datasphere Support



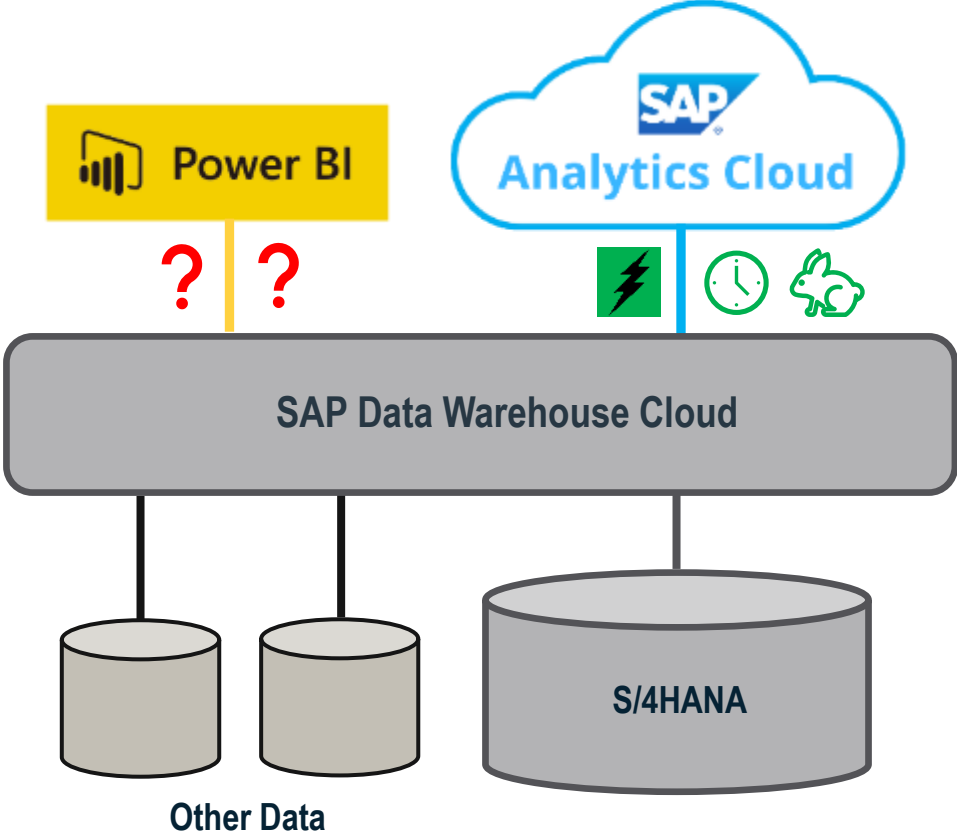
- Connect live from Power BI to SAP Datasphere (Data Warehouse Cloud / DWC)
- Expand how SAP Datasphere data can be leveraged

- Power BI DirectQuery connection support
- Quick access to SAP Datasphere data in Power BI
- No data load wait times
- No movement of data from SAP Datasphere
- Effective connectivity for large data sets

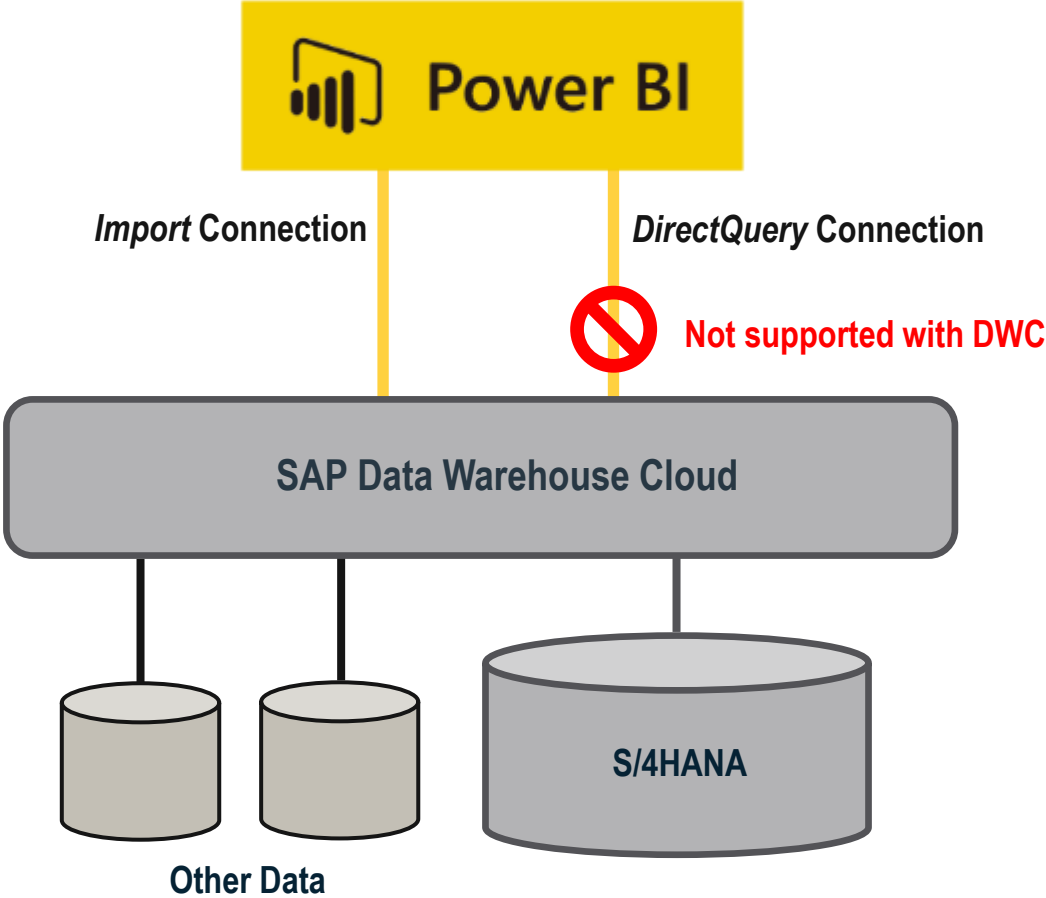
Live Connectivity from SAC to SAP Datasphere



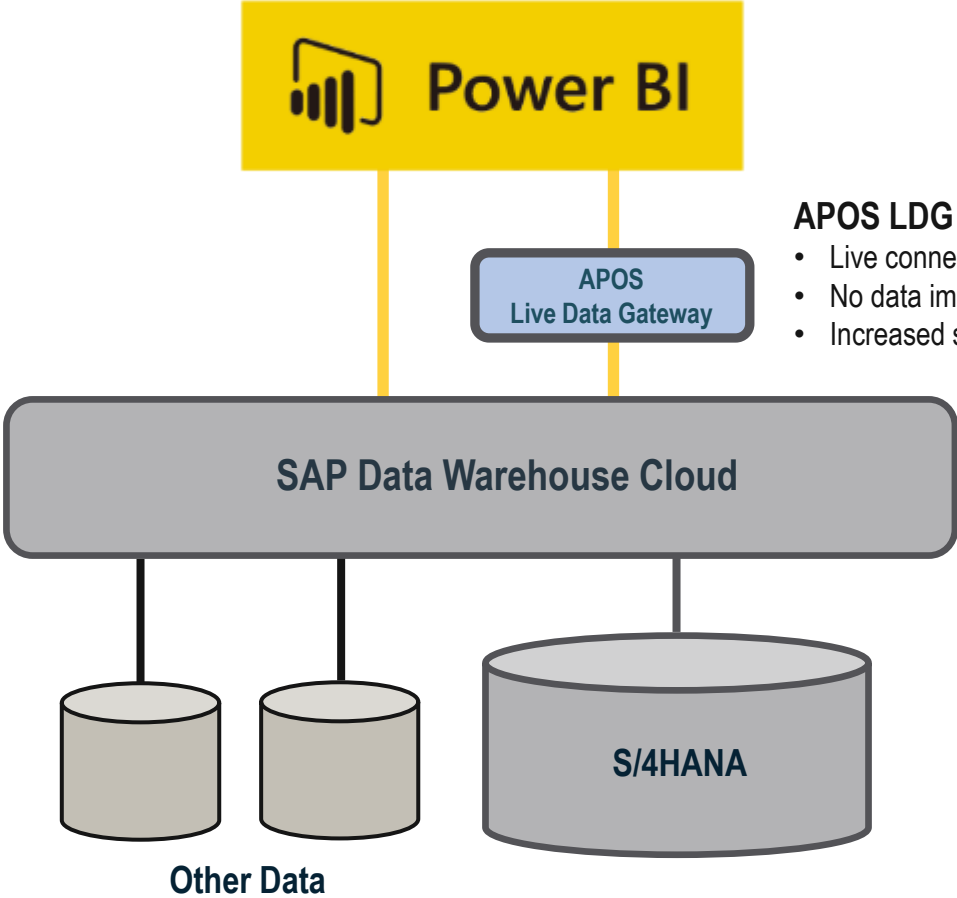
Power BI Connectivity to SAP Datasphere



Power BI DirectQuery to SAP Datasphere

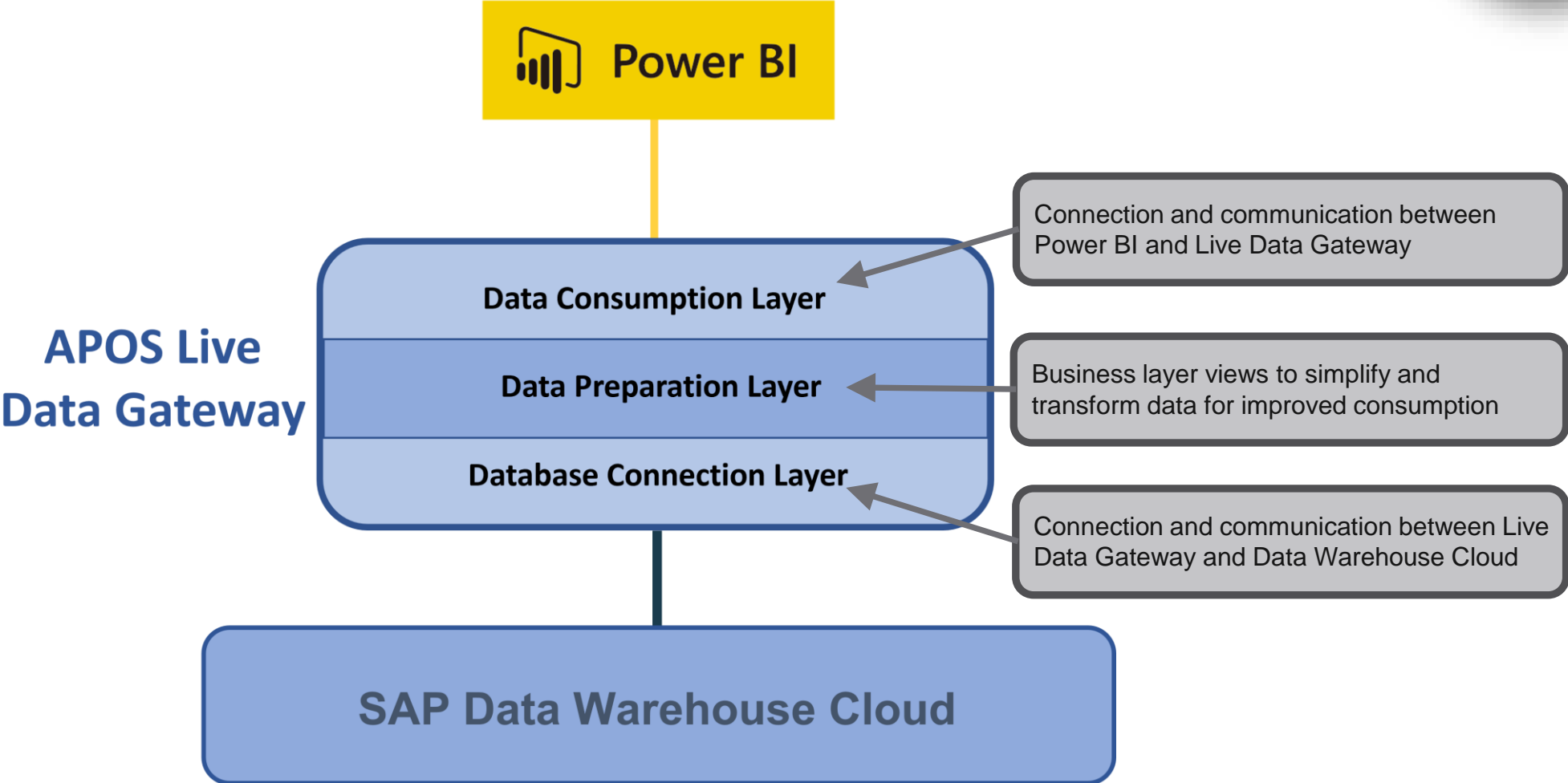


DirectQuery to Datasphere with Live Data Gateway



- APOS LDG enables *DirectQuery* Connection**
- Live connection to DWC with direct, targeted queries
 - No data import into PBI = no data latency or analytics latency
 - Increased speed & efficiency of data process

DirectQuery Connectivity with Live Data Gateway



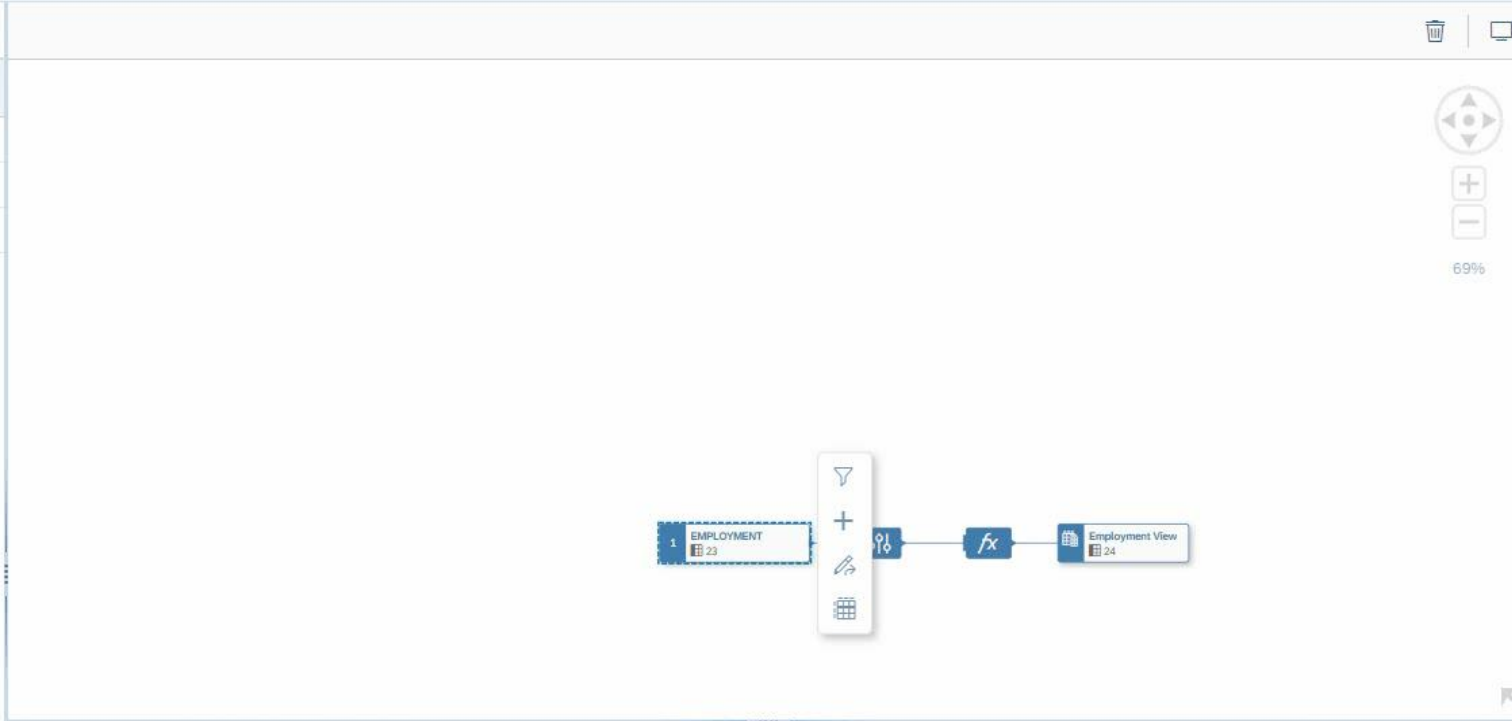
General View Edit

Repository Sources

Search

Tables Views Intelligent Lookups

Details



Remote Table Properties

EMPLOYMENT 23

General

Business Name: EMPLOYMENT

Technical Name: EMPLOYMENT

Alias:

Connection: HANA_RI

Remote Table: "RI_CHRO"."EMPLOYMENT"

Data Access: Remote

Distinct Values: OFF

Status: Deployed

Data Preview: EMPLOYMENT (1000) Errors

AGYSUB	LOC	AGELVL	EDLVL	GSEGRD	LOSLVL	OCC
AF07	US	H	13	12	D	1801
AF07	US	I	13	12	D	1801
AF07	US	I	13	12	D	1801
AF07	US	G	13	12	D	1801
AF07	US	H	13	12	D	1801
AFGS	US	H	13	12	D	1801

Columns

Search Columns

AA AGYSUB

APOS Live Data Gateway – Session Summary

- SAP Analytics Cloud Connectivity Options
- Live Data Gateway for SAC
 - Performance
 - Data Transformation
 - Security
 - Expanded Connections
- Live Data Gateway for Datasphere
 - Supported Power BI Options
 - Power BI DirectQuery





APOS Live Data Gateway

Free 30-Day Evaluation

APOS will provide the software and technical resources needed for you to test drive Live Data Gateway in your environment

www.apos.com

Info@apos.com





**EXTEND
SAP ANALYTICS**

APOS Live Data Gateway

www.apos.com



APOS Solutions for SAP Analytics Cloud



APOS Live Data Gateway

- Live Connectivity from SAC to wide range of data sources



APOS Publisher for Cloud

- Automated broadcasting of personalized SAC reports to targeted users



APOS Insight for Cloud

- Enhanced Monitoring, Auditing and Validation of SAP Analytics Cloud



Upcoming Event



Enhanced Enterprise Broadcasting of SAP Analytics Cloud Reports with APOS Publisher for Cloud Solution - Webinar

October 26, 2023

Join us for this live session looking at how the APOS Publisher for Cloud solution meets and exceeds enterprise-level bursting, broadcasting, publishing and distribution requirements, and how these requirements are driving adoption of APOS Publisher for Cloud. Here's your chance to see how this can work for you.

Learn how to leverage automated, data-driven SAC report broadcasting with:

- Data-driven dynamic rules
- Multiple format options
- Multiple destinations
- Scheduling
- Shared vs private deployments
- Simplified configuration
- Widget level bursting
- Consolidation of multiple reports
- Scheduling/conditional bursting
- Security/filtering/variables
- Optimized presentation support
- High-volume export
- Grid/table Excel consolidation
- System Scalability

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

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 Report Web Intelligence reports
- Success validation
- Controlled, project-based workflow

QUESTIONS?

Please enter your questions in the Q&A panel.



Thank You!

Get in Touch

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