

Webinar

Leverage Live Data Analytics

Unlock Value with APOS Live Data Gateway



Today's Session

Key Topics

- SAC Connectivity Options
- Live Data Connectivity for SAC
- Data Preparation
- Advanced Features
- Expanded Connection Support
- Expanded Consumption Support

- Q&A – see webinar console

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**



HOUSEKEEPING



**You will have
access to the
slides via
email**

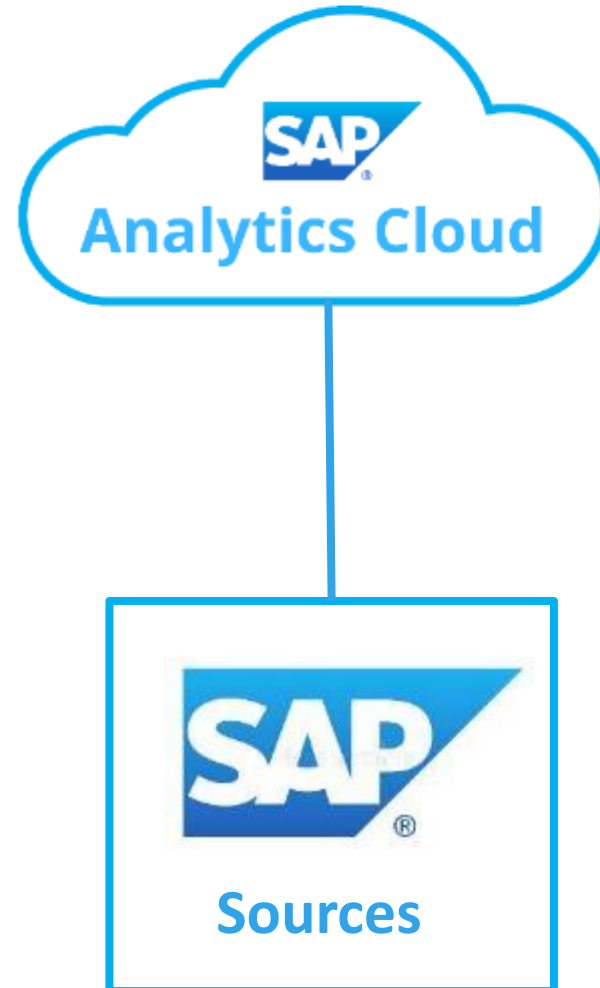


**You will get
the recording
within 24
hours**



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

SAC Connectivity



Live & Import Connectivity



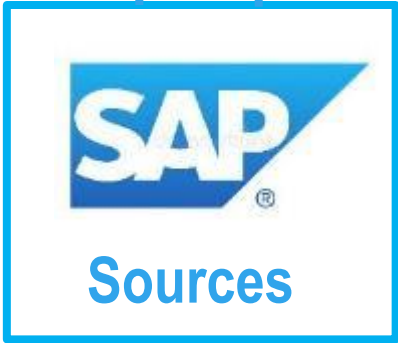
Import Connection

Data moved into SAC data environment
Data uploaded on a schedule, current to last upload
Modelled & secured in SAC
Supports Business Intelligence + Planning

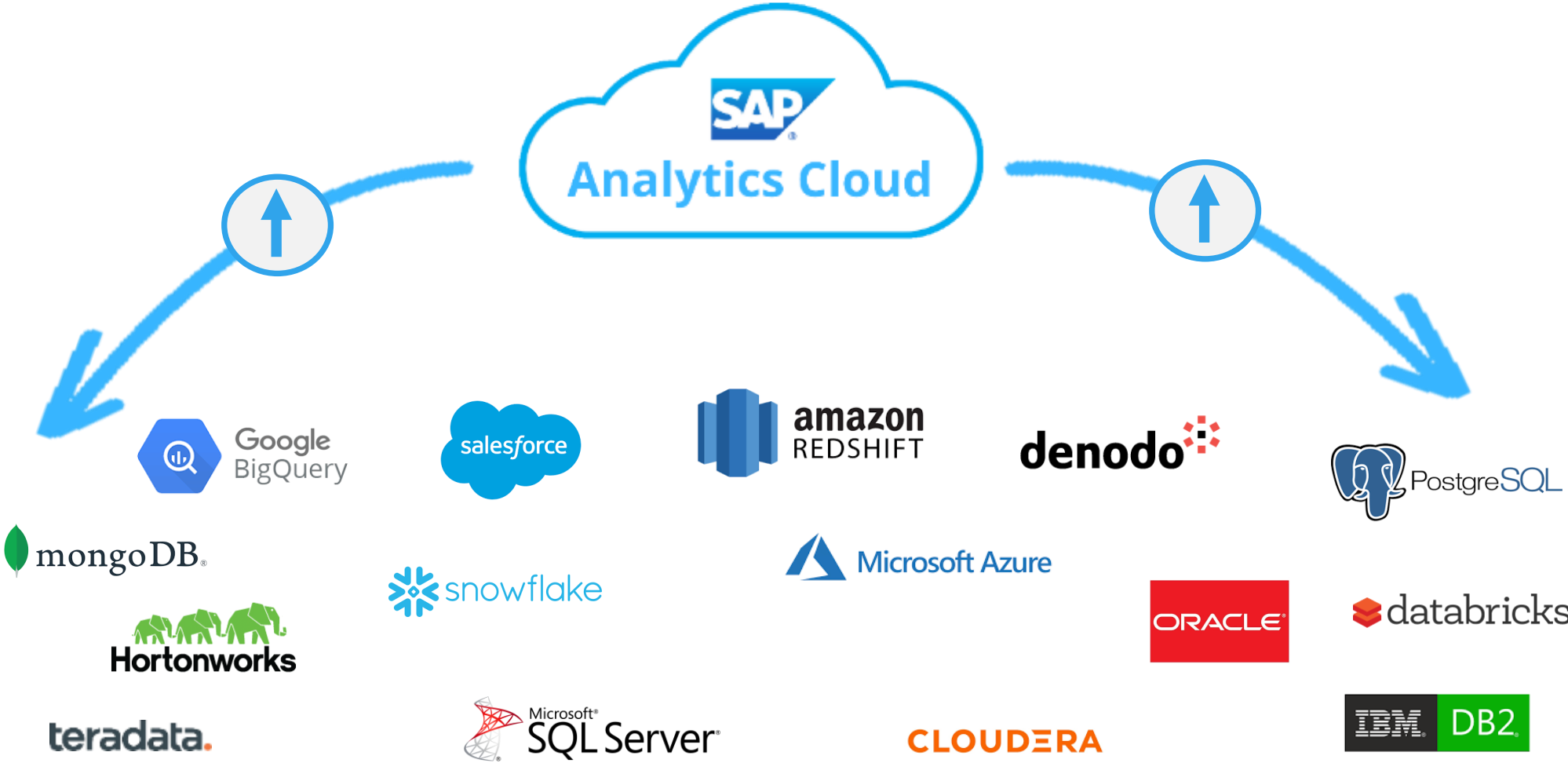


Live Connection

Leverage data from existing location
Data not moved and does not leave, always current
Leverage existing modelling & security
Supports Business Intelligence

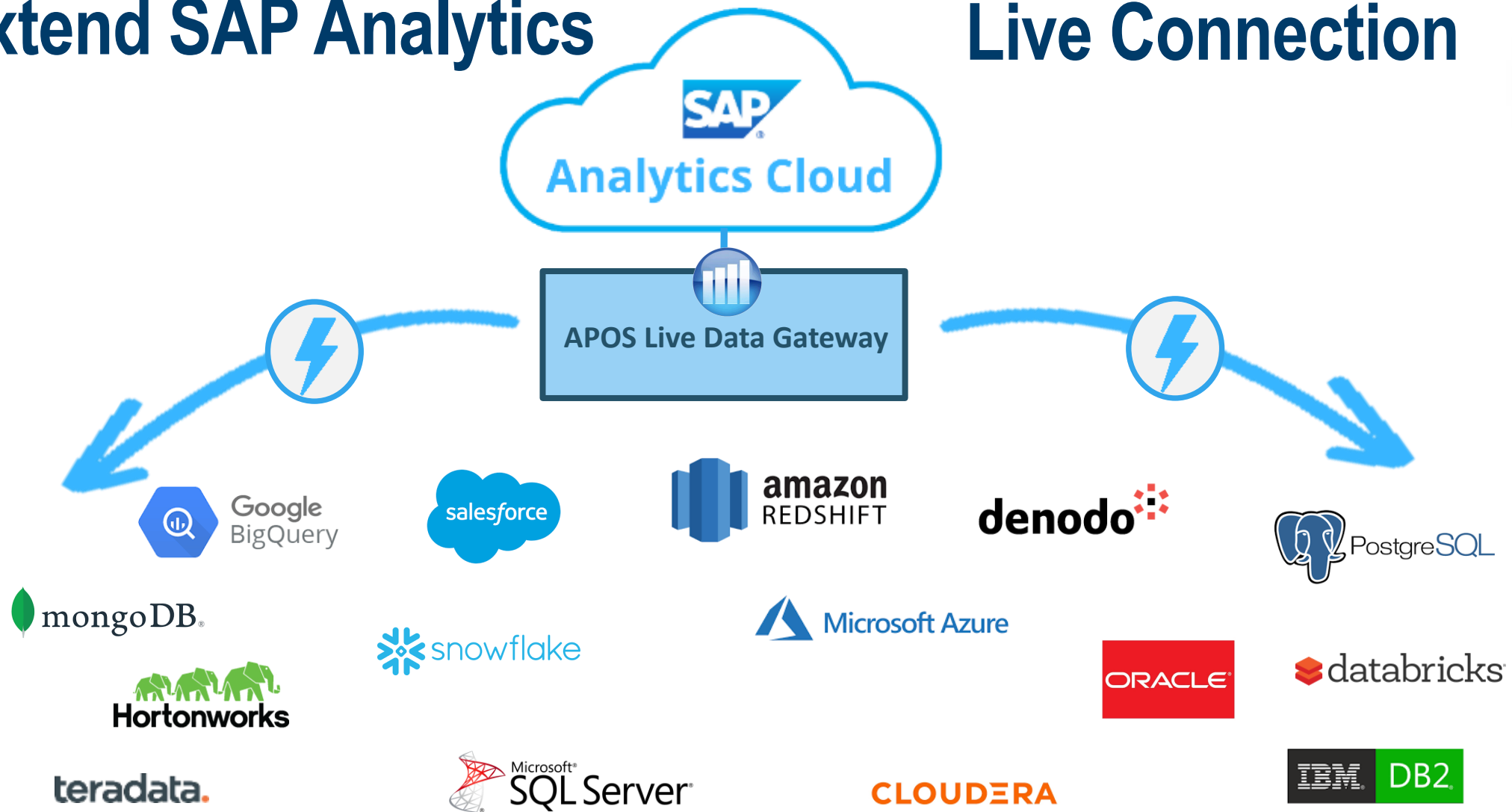


SAC Connectivity to Non-SAP Sources - Import



Extend SAP Analytics

Live Connection



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

APOS Live Data Gateway



Core Supported Data Sources

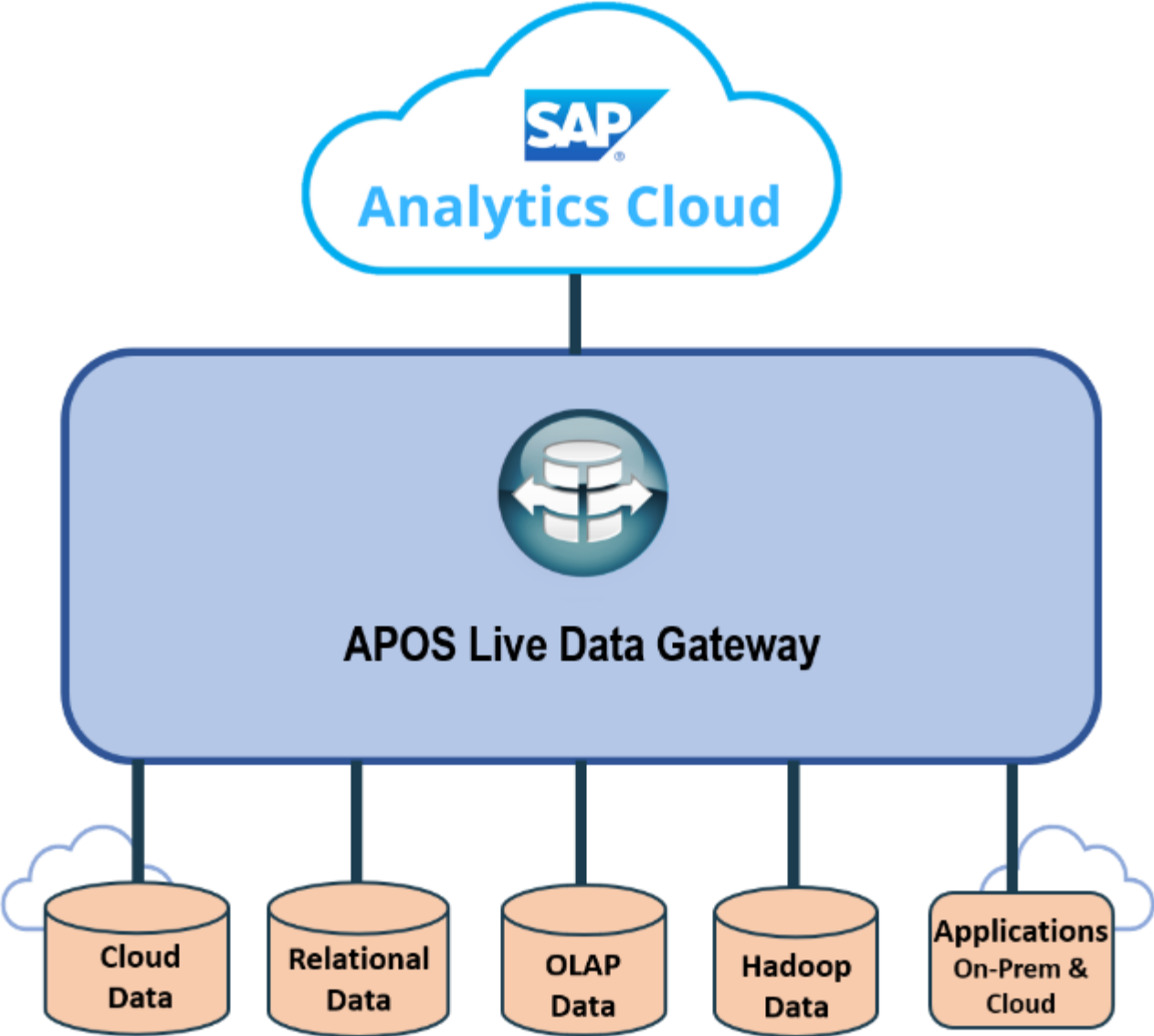
- Amazon Athena
- Amazon Aurora
- Amazon EMR
- Amazon Redshift / Redshift Spectrum
- Amazon S3
- Azure Analysis Services
- Azure Cosmos DB
- Azure Data Lake
- Azure SQL Database
- Azure SQL Data Warehouse
- Cloudera
- Databricks
- DB2
- Denodo
- Google BigQuery
- Google Cloud Platform
- Hortonworks
- Informix
- Microsoft SQL Server
- Microsoft Analysis Services
- Azure Blob
- Mongo DB, Mongo DB Atlas
- MySQL
- Netezza
- Oracle
- Oracle Essbase
- Oracle Exadata
- Postgres
- Presto
- Salesforce
- Snowflake
- Sybase IQ, Sybase SQL Anywhere
- Teradata
- SAP BusinessObjects Universes (UNV, UNX)
- SAP BW - version 7.3 and higher
- JDBC connectivity

Extended Data Sources: 100+ Additional data source and application connection options

<https://www.apos.com/content/apos-live-data-gateway-data-sources-supported>



APOS Live Data Gateway





Alan Golding
Solution Consulting Manager
APOS

Live Connectivity for SAC

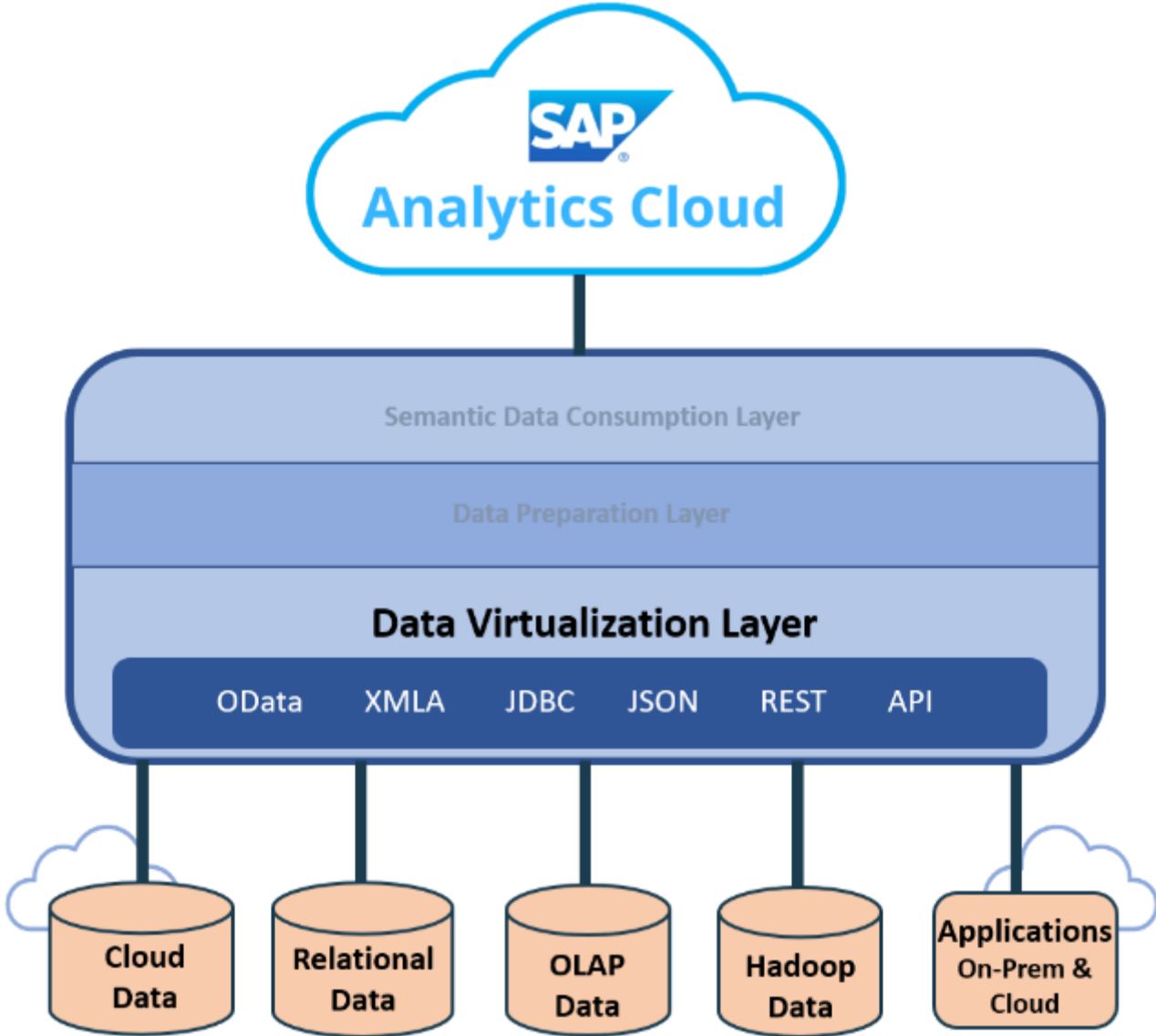


Live Connectivity for SAC

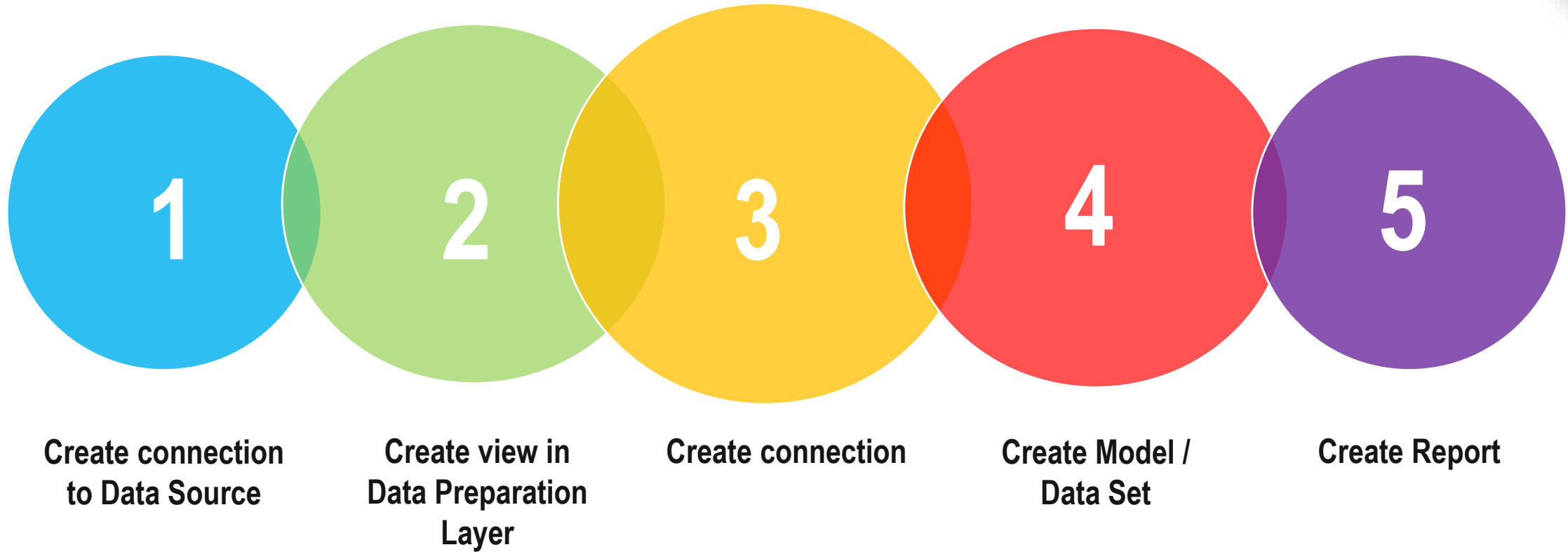
- Server level connectivity
 - Single point of connection to data sources
- Connect to wide range of sources + unique sources
- Data security
 - Respecting database security
 - Integrated SSO



Live Connectivity for SAC



5 Simple Steps to Live Connectivity





Note: to see the demo, please view the webinar on demand at:
www.apos.com/content/webinar-leverage-live-data-analytics-on-demand

Live Data Gateway

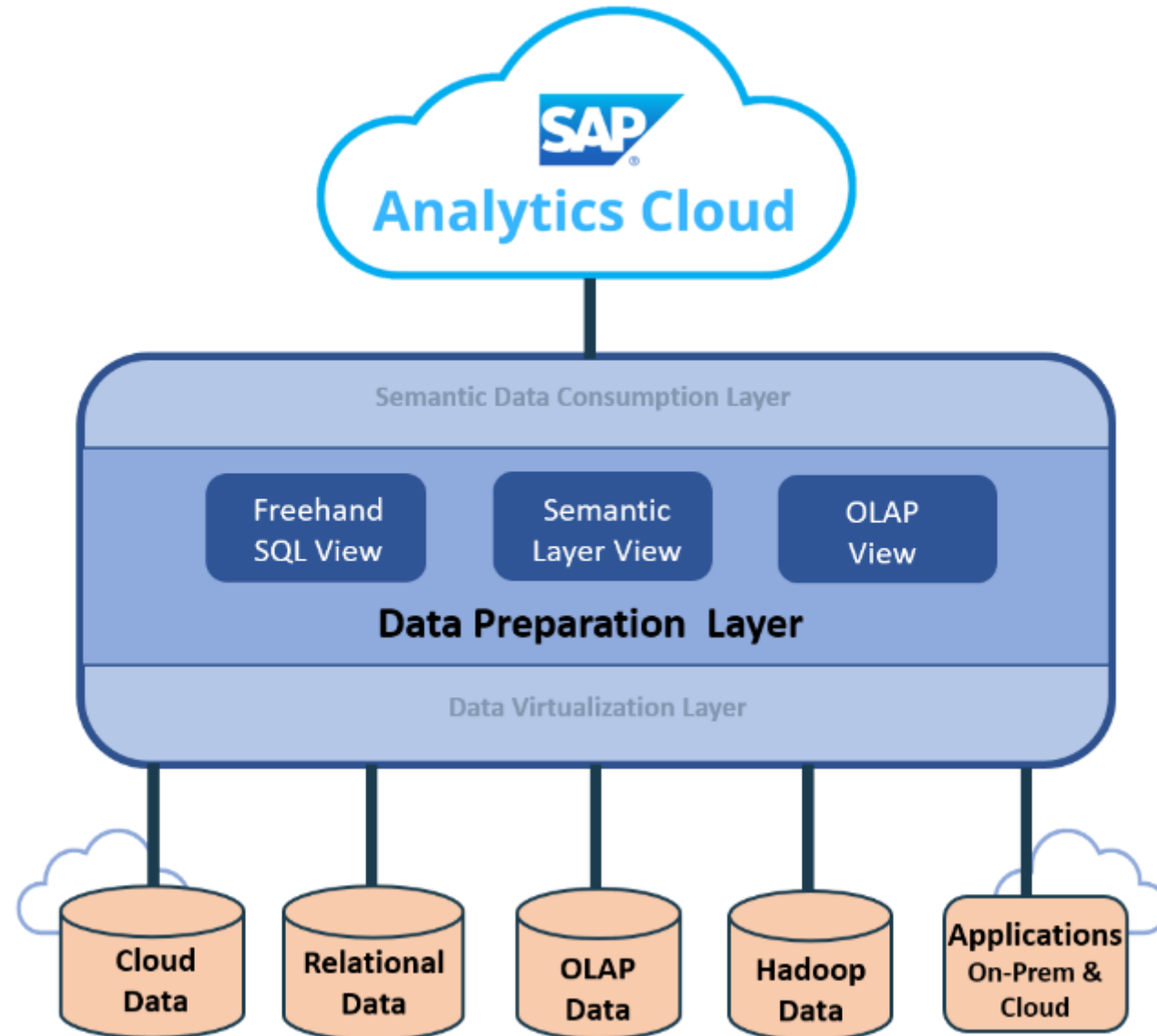


Data Preparation

- Business layer / semantic layer
- Simplify data access for report builders
 - Self-service data modelling
- Control and govern access to data



Data Preparation Layer



Data Preparation Layer

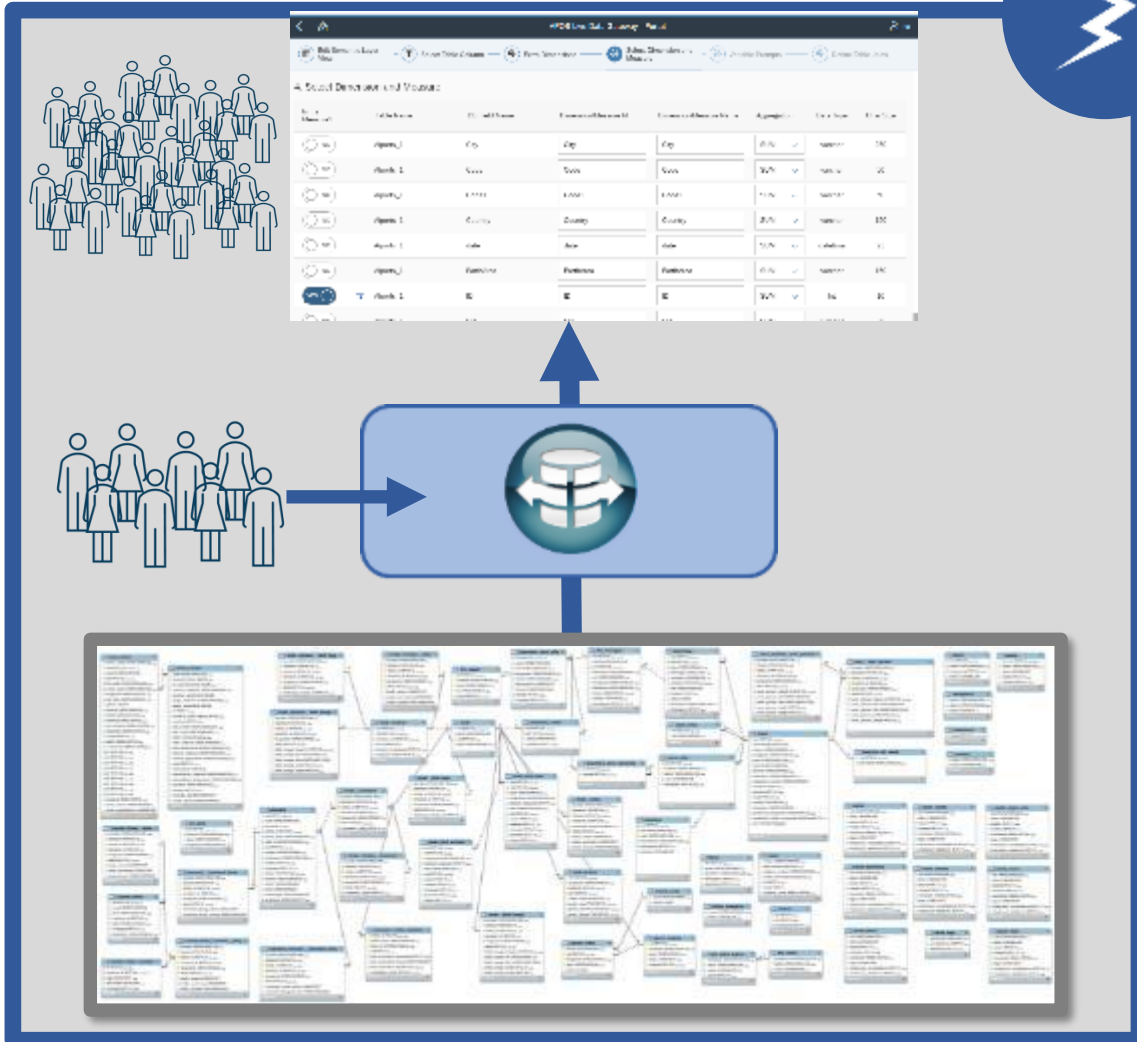
Key Functions

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

APOS Live Data Gateway – Solution Update



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



Note: to see the demo, please view the webinar on demand at:
www.apos.com/content/webinar-leverage-live-data-analytics-on-demand

Live Data Gateway

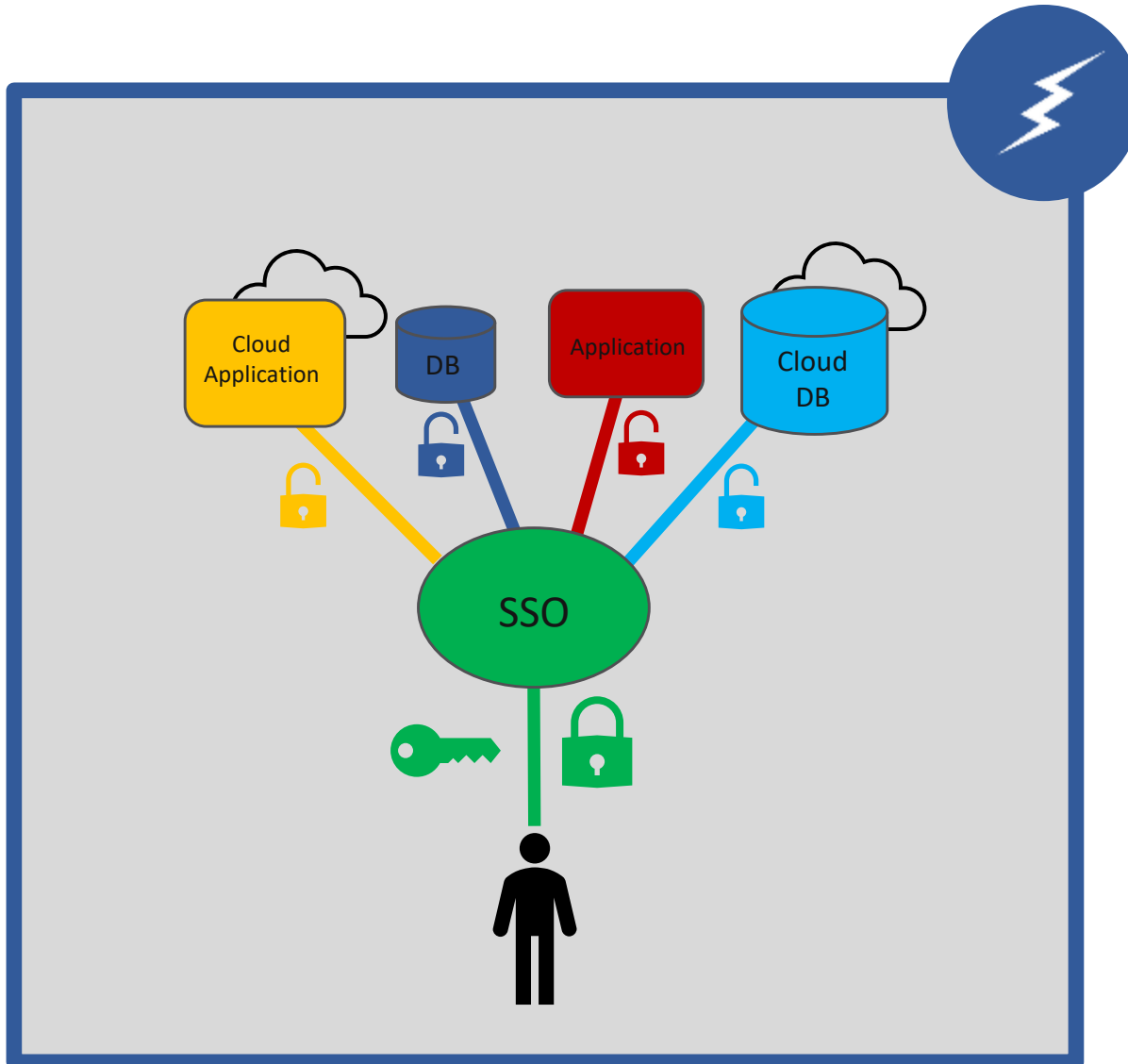


Advanced Features

- .SSO
- .Shared Connections
- .Custom & Date Hierarchies
- .Variables
- .Geospatial Support



APOS Live Data Gateway – Advanced Features



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 – Advanced Features

Single Sign On

Example

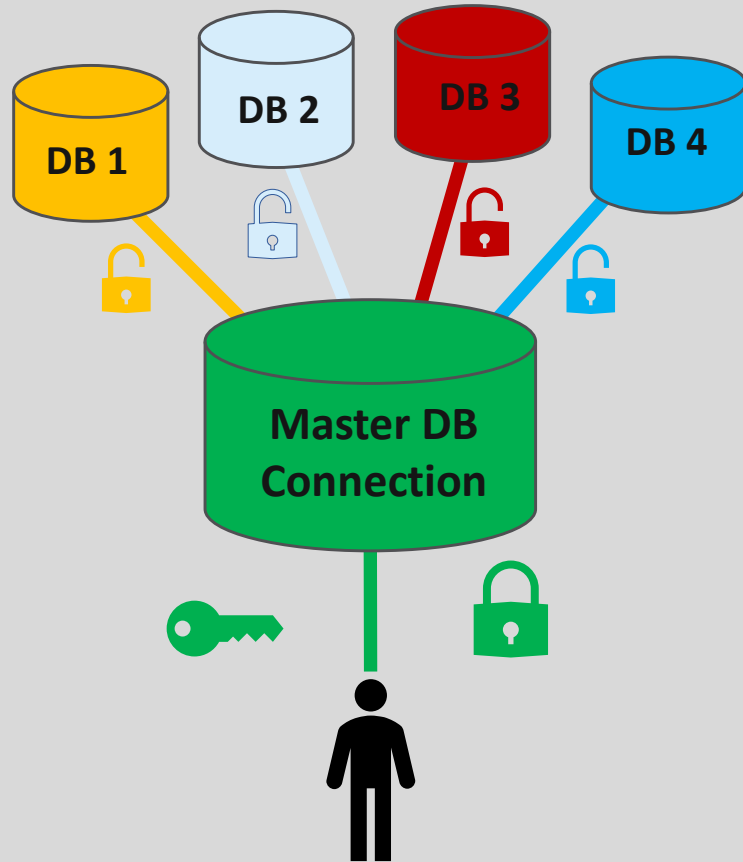
- End to End SSO with SAC and Snowflake
- Integrating SAML with oAuth and Azure AD



The screenshot shows the 'APOS Live Data Gateway Admin' interface. The 'SSO Configuration' tab is active, displaying the following settings:

- SSO**
- Use SSO:
- SAC Authentication User Source: NTLM SAML
- Authentication Type: IDENTITY PROVIDERS SSO
- Authentication Type Option: OAuth
- User Can Self Add To The List:
- Identity Providers SSO button
- OAuth Information**
- OAuth Client ID: [Redacted]
- OAuth Secret: [Redacted]
- OAuth Scope: https://aposlivedatagateway.com/4d2a8c2b-a5f4-4b86-93ca-294185f4 [Refresh]
- OAuth Profile: AzureAlan

APOS Live Data Gateway – Advanced Features



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

APOS Live Data Gateway – Advanced Features



Shared Connectivity

- Select which connection will be the Master then associate other connections to use the Master connection

Connection | **SSO Configuration** | Date/Time and DB Functions | Extra Properties

SSO

Use SSO SAC Authentication User Source: NTLM SAML

Authentication Type: IDENTITY PROVIDERS SSO

Authentication Type Option: Database User/Password

User Can Self Add To The List: Identity Providers SSO

Self Signed User/Password:

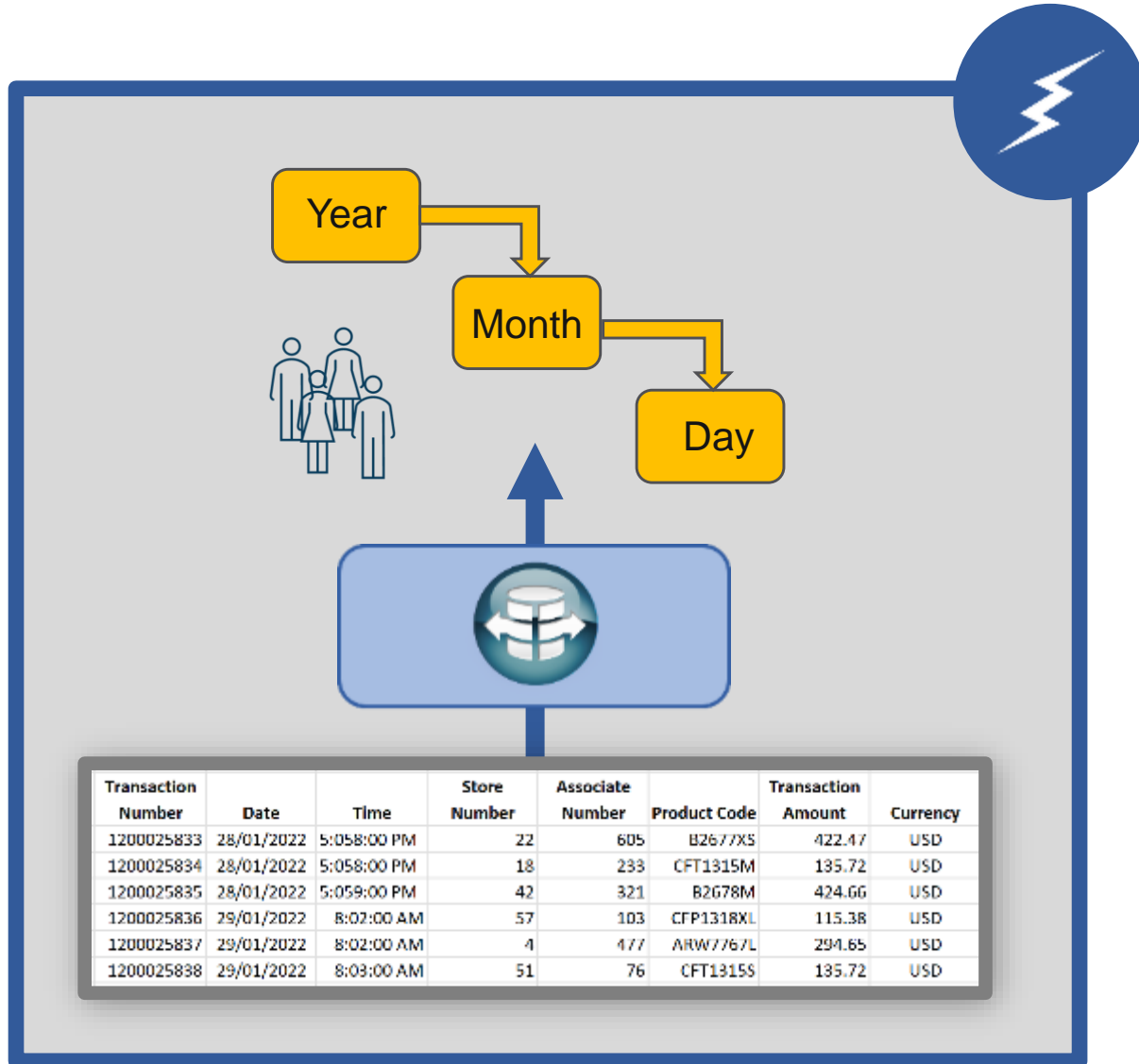
Override Credentials:

Shared Connections

No Shared Identity Master Identity Use Master Identity

Connections:

APOS Live Data Gateway – Advanced Features



Date Dimension Support

- 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

APOS Live Data Gateway – Advanced Features



Date Dimension Support

- Select custom level of hierarchy needed
- Each level available as individual dimension also

The screenshot displays the 'Extra Dimensions' configuration step in the APOS Live Data Gateway. The interface includes a navigation bar with icons for 'Edit Semantic Layer View', 'Select Table Column', 'Extra Dimensions', 'Select Dimension and Measure', 'Variable Prompts', and 'Define Table Joins'. The main area is titled '3. Extra Dimensions' and contains a 'New Time Dimension' section. A table lists the configuration for a time dimension:

<input type="checkbox"/>	Date/Time Field	Time Definition	Time Dimension ID	Time Dimension Name
<input type="checkbox"/>	date	Year	DateHierarchy	DateHierarchyDimension

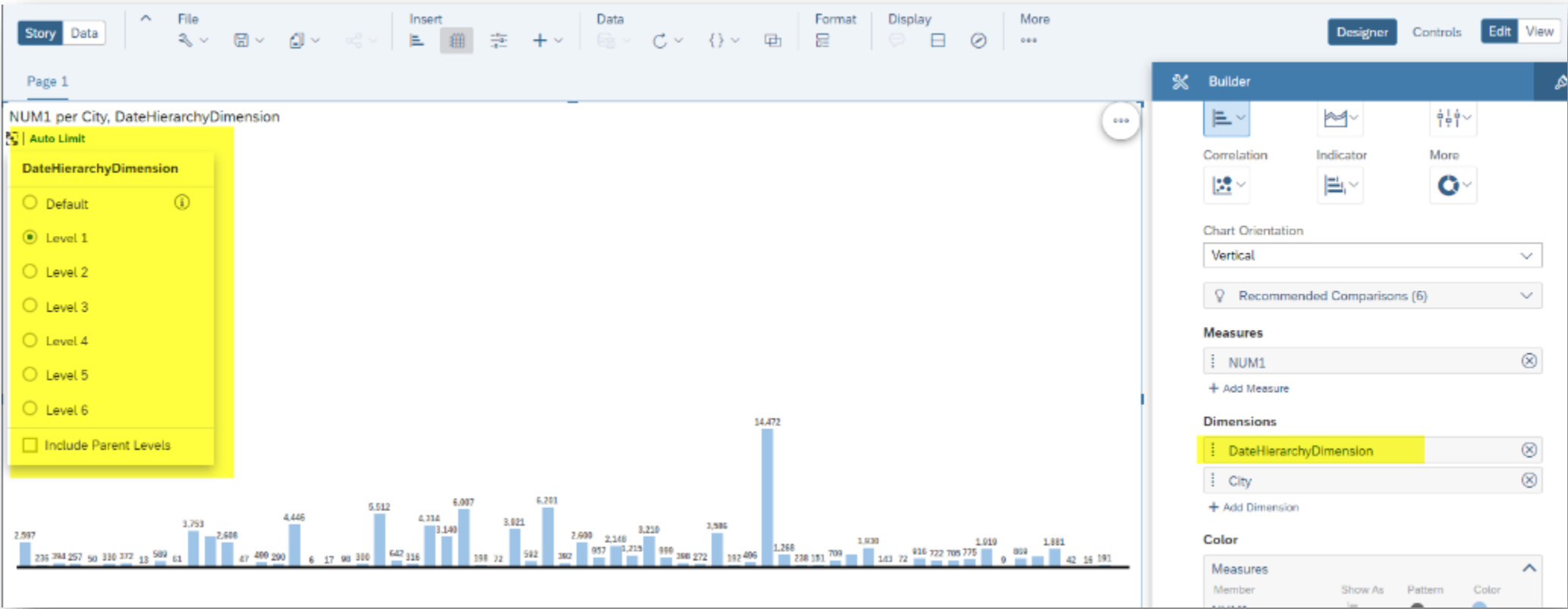
A dropdown menu is open for the 'Time Definition' field, showing a list of hierarchy levels: Year, Year, Quarter, Year, Quarter, Month, Day, Year, Quarter, Month, Week, Day, Year, Month, Day, Year, Week, and Year, Week, Day. The 'Year' option is currently selected. Below this, the 'New Geospatial Dimension' section is partially visible, showing a table with columns for 'View Name', 'Location Name', 'Identifier for Mapping', 'Select Table', and 'Column Name - Latitude'. The 'GeoSpatialDimension' is configured with 'Aiports_1' as the table and 'Lat_3857' as the column name. The bottom of the interface shows the next step: '4. Select Dimension and Measure'.

APOS Live Data Gateway – Advanced Features



Date Dimension Support

- Drill Down
- Time Series Charts
- Variance Charts

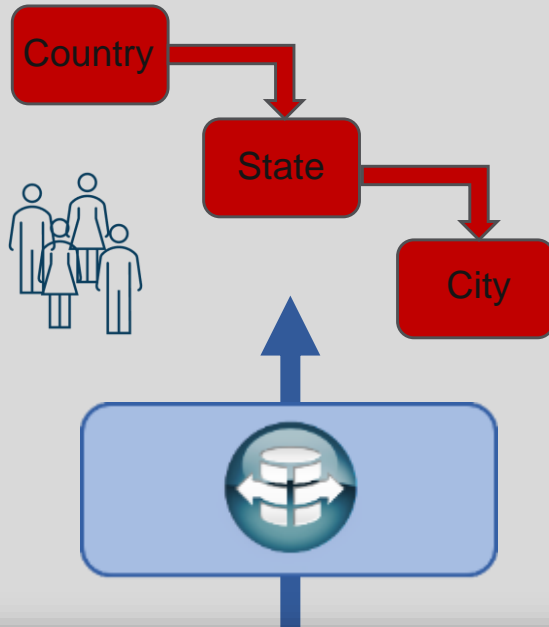


APOS Live Data Gateway – Advanced Features



Custom Hierarchy Support

- 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	35.21818	-80.85169

APOS Live Data Gateway – Advanced Features

Custom Hierarchy Support



- Create custom hierarchies from your fact/dimension tables

The screenshot shows the APOS Live Data Gateway interface. On the left, a navigation pane displays a tree view of database objects under the 'APOS' schema, including 'ALANG', 'CUSTOMER', 'CUSTOMER_FACT', 'INFORMATION_SCHEMA', 'PUBLIC', 'APOSTEST', 'SNOWFLAKE', and 'SNOWFLAKE_SAMPLE_DATA'. The 'CUSTOMER' table is selected, and its schema details are shown below, including columns like CUSTKEY, CUSTNAME, CUSTCOUNTRY, CUSTSTATE, and CUSTCITY with their respective data types.

The main area displays a 'Data Preview' for the 'APOS.ALANG.CUSTOMER' table. The table has 17 rows and 7 columns. The columns are: Row, CUSTKEY, CUSTNAME, CUSTCOUNTRY, CUSTSTATE, and CUSTCITY. The data is as follows:

Row	CUSTKEY	CUSTNAME	CUSTCOUNTRY	CUSTSTATE	CUSTCITY
1	23883787	Crystal Headley	United States	GA	Lakeview
2	23883788	Sherry Small	United States	MI	Harmony
3	23883789	Kenneth Wilson	United States	IN	Bennett
4	23883790	Bobby Harmon	United States	MO	Star
5	23883791	Kendrick Christensen	United States	GA	Denmark
6	23883792	Polly Allen	United States	SC	Pleasant Valley
7	23883793	Silvia Wells	United States	KY	Brownsville
8	23883794		United States	TX	Florence
9	23883795	Margaret Lee	United States	IA	Wildwood
10	23883796	Janet Griffin	United States	GA	Antioch
11	23883797	Chester Hickman	United States	VA	Ashland
12	23883798	Clarence Haywood	United States	KY	Pine Grove
13	23883799	Cassandra Alvarado	United States	MI	Oakdale
14	23883800	Thomas Rogers	United States	ID	Jerome
15	23883801	Shawn Falk	United States	CA	Walnut Grove
16	23883802	Joe Simpson	United States	OR	Pleasant Grove
17	23883803	Mathew Miller	United States	CA	Woodville

APOS Live Data Gateway – Advanced Features



Custom Hierarchy Support

- Level based hierarchy supported
- Can work with parent/child hierarchies also

Hierarchy Name: CustomerHierarchies

Configure Hierarchy Levels

Level Name	Field For Name	Field For Key
CustomerCountry	CUSTCOUNTRY	CUSTCOUNTRY
CustomerState	CUSTSTATE	CUSTSTATE
CustomerCity	CUSTCITY	CUSTCITY

Level Definition

Level Name:

Field For Name: CUSTKEY

Field For Key: CUSTKEY

Apply

Review

APOS Live Data Gateway – Advanced Features

Custom Hierarchy Support



- Drill down using your custom hierarchies in SAC

The screenshot displays the SAP Analytics Cloud (SAC) interface. The main view shows a horizontal bar chart titled "CUSTKEY per CustomerHierarchies". The chart is currently set to "Level 3" of a custom hierarchy, with a dropdown menu open showing options for "Default", "Level 1", "Level 2", "Level 3" (selected), "Level 4", and "Include Parent Levels". The chart shows values for various states (MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD). The right-hand panel shows the "Builder" view with the "Data Source" set to "aaaAGSF22PROD" and the "Chart Structure" panel showing the selected measure "CUSTKEY" and dimension "CustomerHierarchies".

CustomerHierarchy	CUSTKEY
Default	8,062,882,476.00
Level 1	9,346,276,696.00
Level 2	22,611,677,479.00
Level 3	5,763,598,852.00
Level 4	13,085,488,768.00
Level 4	12,521,331,076.00
Level 4	13,515,934,967.00
Level 4	16,115,150,196.00
Include Parent Levels	7,416,384,848.00
MA	1,977,999,009.00
MD	3,702,624,510.00
ME	2,337,473,644.00
MI	10,280,942,179.00
MN	10,590,979,170.00
MO	14,989,912,329.00
MS	11,623,785,218.00
MT	7,226,367,992.00
NC	14,139,595,477.00
ND	6,158,468,584.00
NE	12,102,551,768.00
NH	982,445,703.00
NJ	2,898,535,599.00
NM	5,032,718,086.00
NV	1,761,607,849.00
NY	7,319,844,855.00
OH	13,146,522,481.00
OK	11,095,659,418.00
OR	3,773,751,245.00
PA	9,895,608,143.00
RI	755,273,787.00
SC	6,170,707,177.00
SD	

APOS Live Data Gateway – Advanced Features



Custom Hierarchy Support

- Drill down using your custom hierarchies in SAC



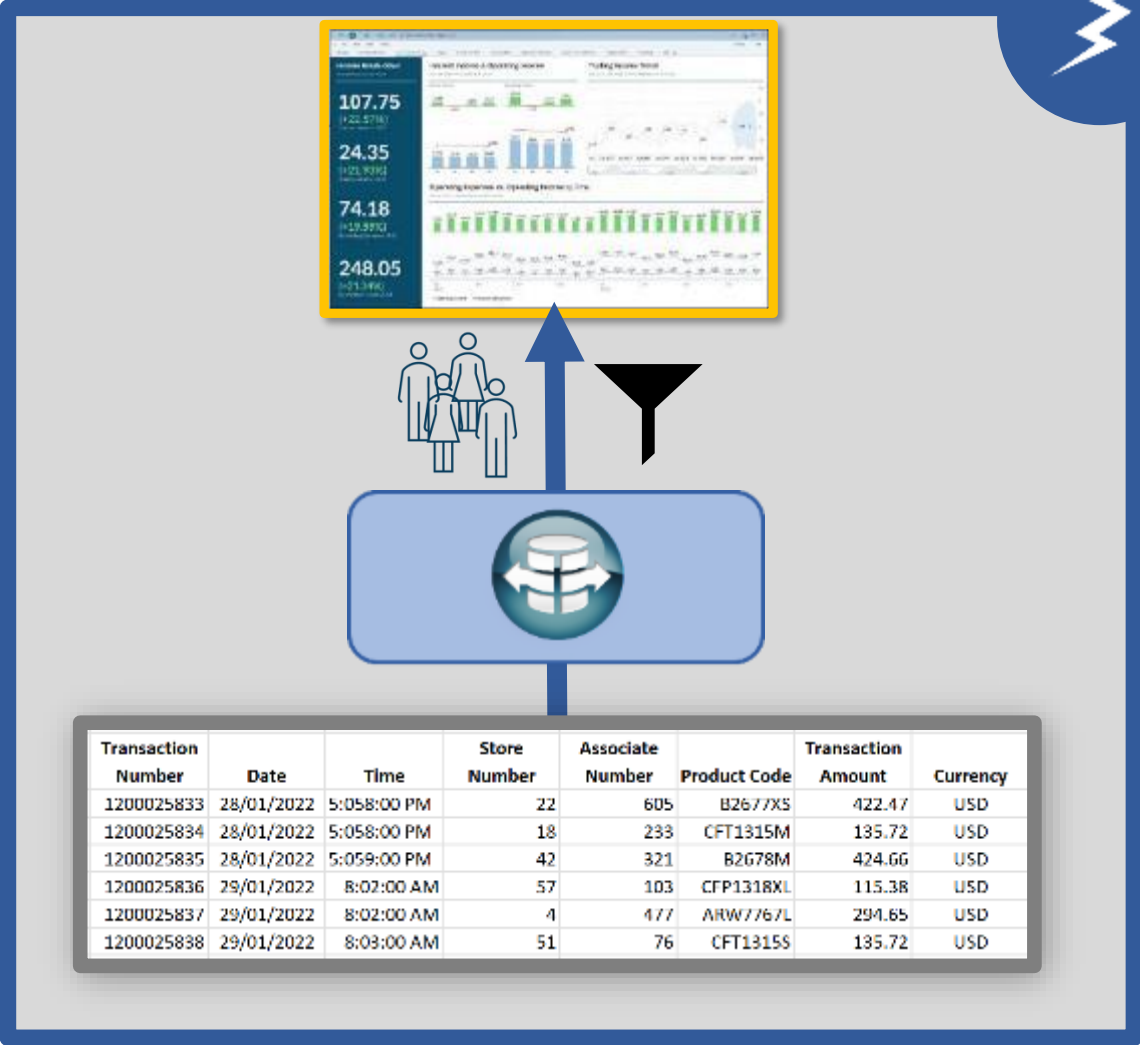
APOS Live Data Gateway – Advanced Features



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



APOS Live Data Gateway – Advanced Features



Variables Support

- Choose dimension
- Allow multiple values
- Set defaults
- Utilize formulas
- Set full set of values, or query, or static values

Edit Prompt Variable Definition

Variable Name*

Variable Caption*

Associated Dimension*

Source of Prompt Values

Dimension (Full Set)

Query

Static Values

Multiple Values

YES

Default Values* + Add X Delete

<input type="checkbox"/>	Default Value
<input type="checkbox"/>	<input type="text" value="New York"/>

APOS Live Data Gateway – Advanced Features

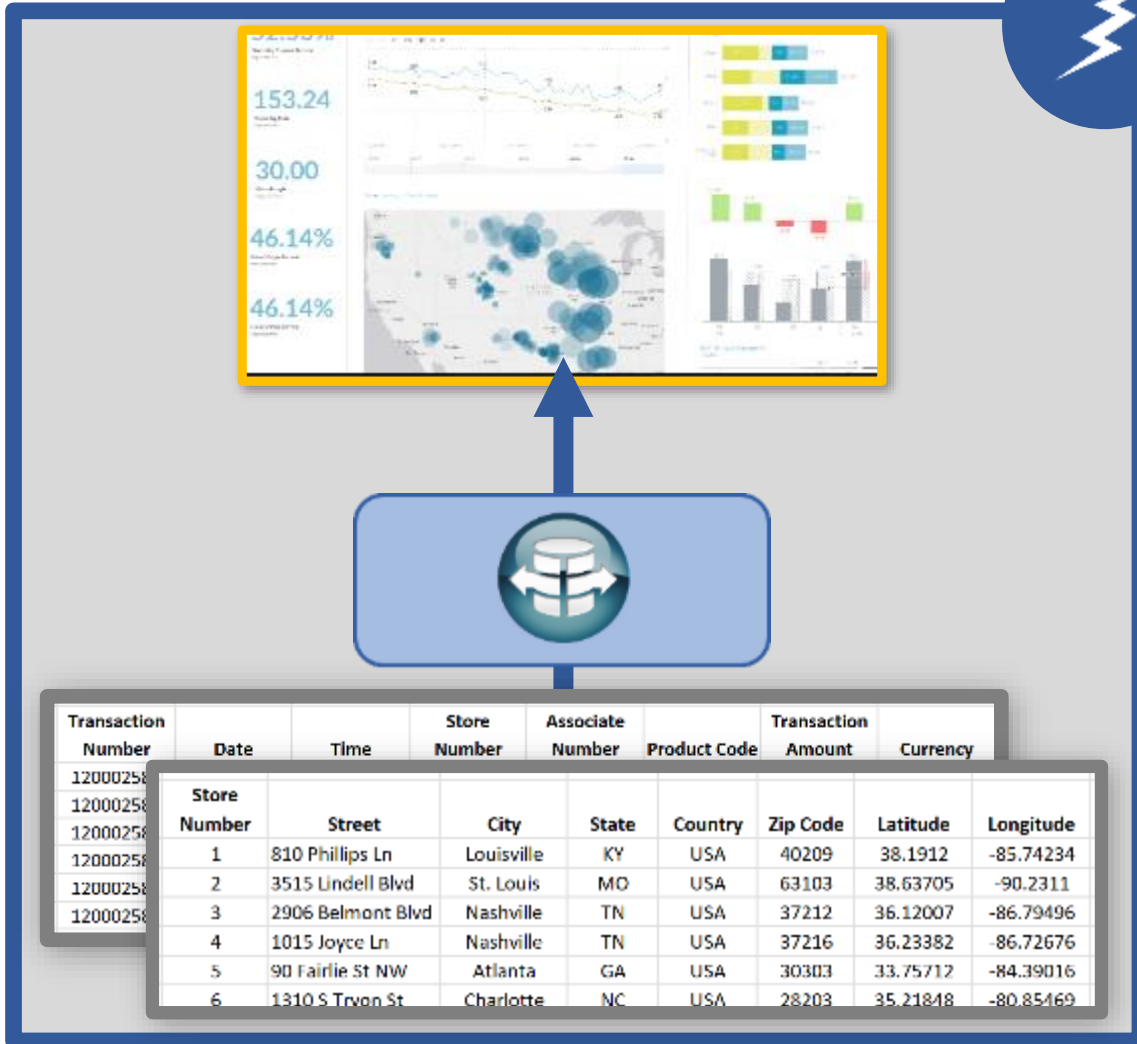


Variables Support

- Choose dimension
- Allow multiple values
- Set defaults
- Utilize formulas
- Set full set of values, or query, or static values

The screenshot shows a software interface with a dark grey background. At the top, there is a dropdown menu labeled 'Distribution' with a downward arrow. Below it is a white dialog box titled 'Set Variables for Regional sales'. Inside the dialog box, there is an information icon (i) followed by the text: 'The underlying model contains variables. Please enter the details for these variables.' Below this text, the word 'Region' is displayed in bold. Underneath 'Region', the word 'Member' is displayed. A text input field contains the word 'Nevada' and has a small 'x' icon on its right side. At the bottom right of the dialog box, there are two buttons: 'Set' (highlighted in blue) and 'Cancel'. Below the dialog box, there is a section labeled 'Edit Prompts' with a downward arrow. Underneath, there is a 'File Name' label and a text input field containing 'Regional_Sales_Analysis.pdf'. Below that is a 'PDF Settings' label. At the bottom left of the interface, there is a '+ Add Another View' button. At the bottom right, there are 'OK' and 'Cancel' buttons.

APOS Live Data Gateway – Advanced Features



Geospatial Data Support

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

- Geo Spatial Dimensions support
- Multiple Projections supported
- Multiple Datasource Types supported
- Configure Multiple Geo Dimensions

APOS Live Data Gateway – Advanced Features



Geospatial Data Support

- Create GeoSpatial dimensions from WebUI with ease

The screenshot displays the 'Extra Dimensions' configuration step in the APOS Live Data Gateway WebUI. The navigation bar at the top includes: Edit Semantic Layer View, Select Table Column, Extra Dimensions (active), Select Dimension and Measure, Variable Prompts, and Define Table Joins.

Under the '3. Extra Dimensions' heading, there are two options: '<> New Time Dimension' and '<> New Geospatial Dimension'. The 'New Geospatial Dimension' option is selected.

The configuration table below shows the following details:

<input type="checkbox"/>	View Name	Location Dimension Id	Location Dimension Name	Identifier for Mapping	Select Table	Column Name - Latitude
<input type="checkbox"/>	GeoSpatialDimension	GeoSpatialDimensionNa...	GeoSpatialDimensionNa...	GeoSpatialDimension	Aiports_1	Lat_3857

APOS Live Data Gateway – Advanced Features



Geospatial Data Support

- Create Geo Maps on your stories in SAC

The screenshot displays the APOS Live Data Gateway interface. The main view is a geospatial map showing data points (red bubbles) across South America and Africa. The interface includes a top toolbar with tabs for 'Story', 'Data', 'File', 'Insert', 'Data', 'Format', 'Display', and 'More'. A 'Designer' tab is active on the right, showing a 'Builder' panel with settings for 'Layer 1'. The 'Layer 1' settings include 'Data Source' (aaaGeoSpatial), 'Layer Type' (Bubble Layer), 'Location Dimension' (GeoSpatialDimensionName), 'Bubble Color' (+ Add Measure/Dimension), 'Bubble Size' (+ Add Measure), 'Filters' (+ Add Filters), and 'Cluster Properties'. The map shows a grid of red bubbles with numerical values, overlaid on a map of South America and Africa. A legend in the bottom left identifies the layer as 'GeoSpatialDimension...' with a red bubble icon. A scale bar at the bottom indicates 2000km. The Esri logo is visible in the bottom right corner of the map area.

Live Data Gateway

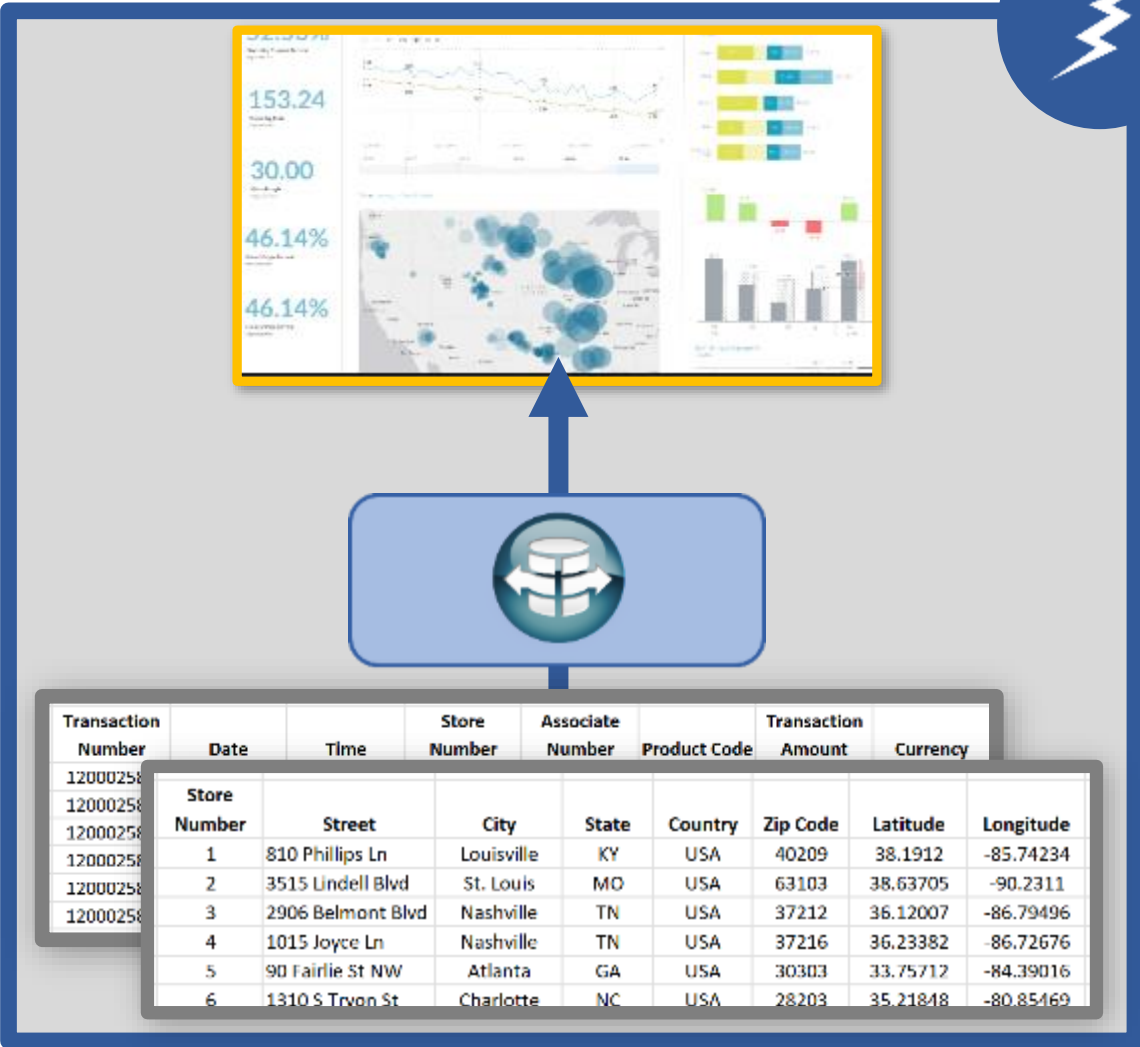


Expanded Live Data Connection Support

- Unique Data Sources
 - Sharepoint, Salesforce, Google Analytics
- Cloud Data Sources
 - Snowflake, Google BigQuery, AWS, Azure
- JDBC Connectivity
- SAP Ariba
- SAP Data Warehouse Cloud



APOS Live Data Gateway – Unique Data Sources



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

APOS Live Data Gateway – Unique Data Sources



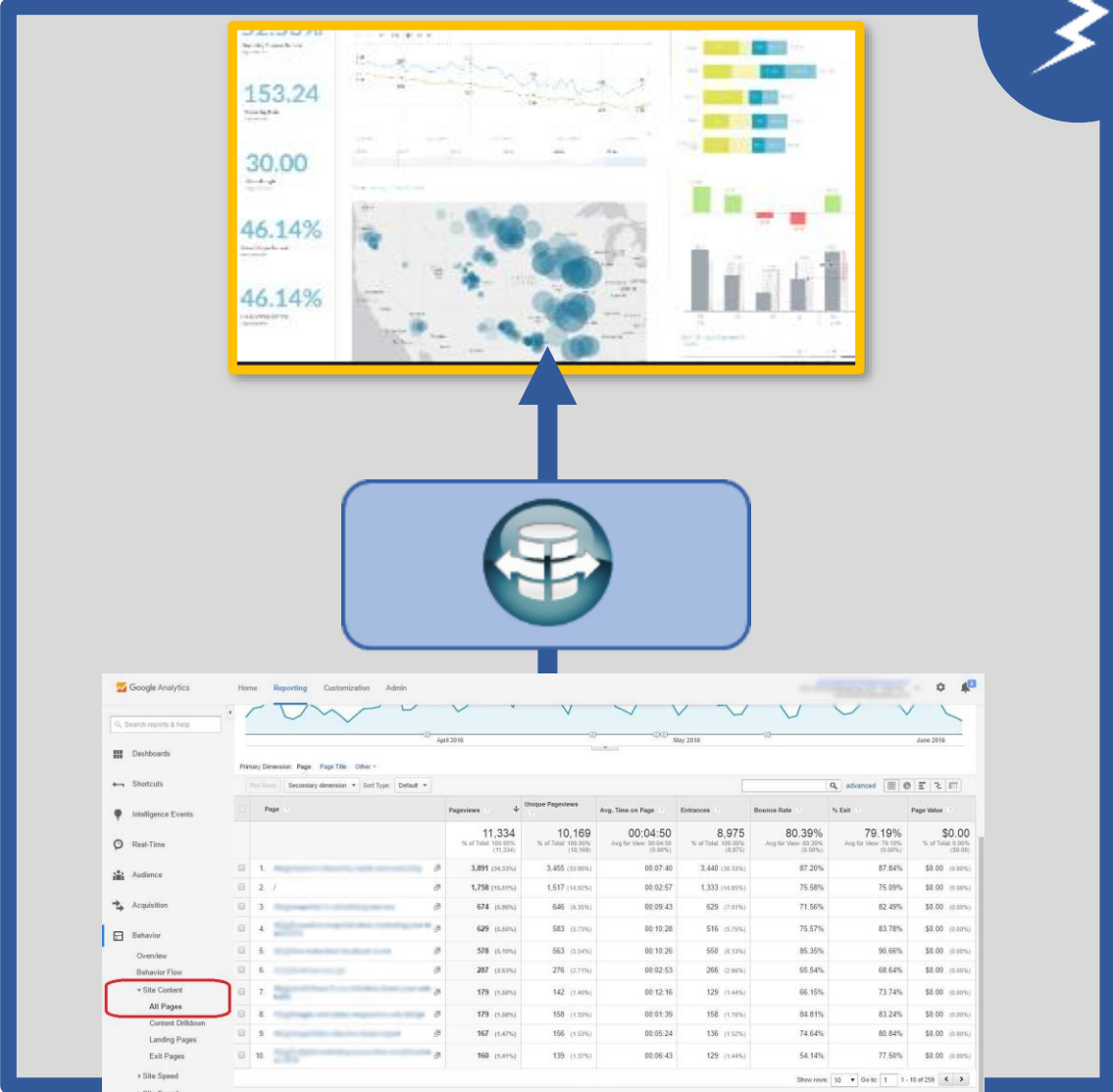
- ✓ Salesforce Accounts
- ✓ Salesforce Opportunities
- ✓ Salesforce Customers
- ✓ etc.

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

APOS Live Data Gateway – Unique Data Sources



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



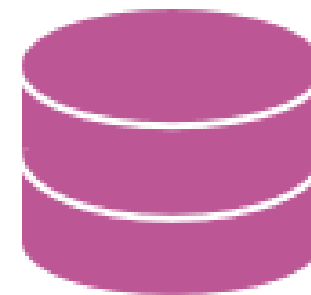
APOS Live Data Gateway – Cloud Data Sources



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

APOS Live Data Gateway – Generic JDBC Connectivity



Generic JDBC

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

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

APOS Live Data Gateway – SAP Ariba



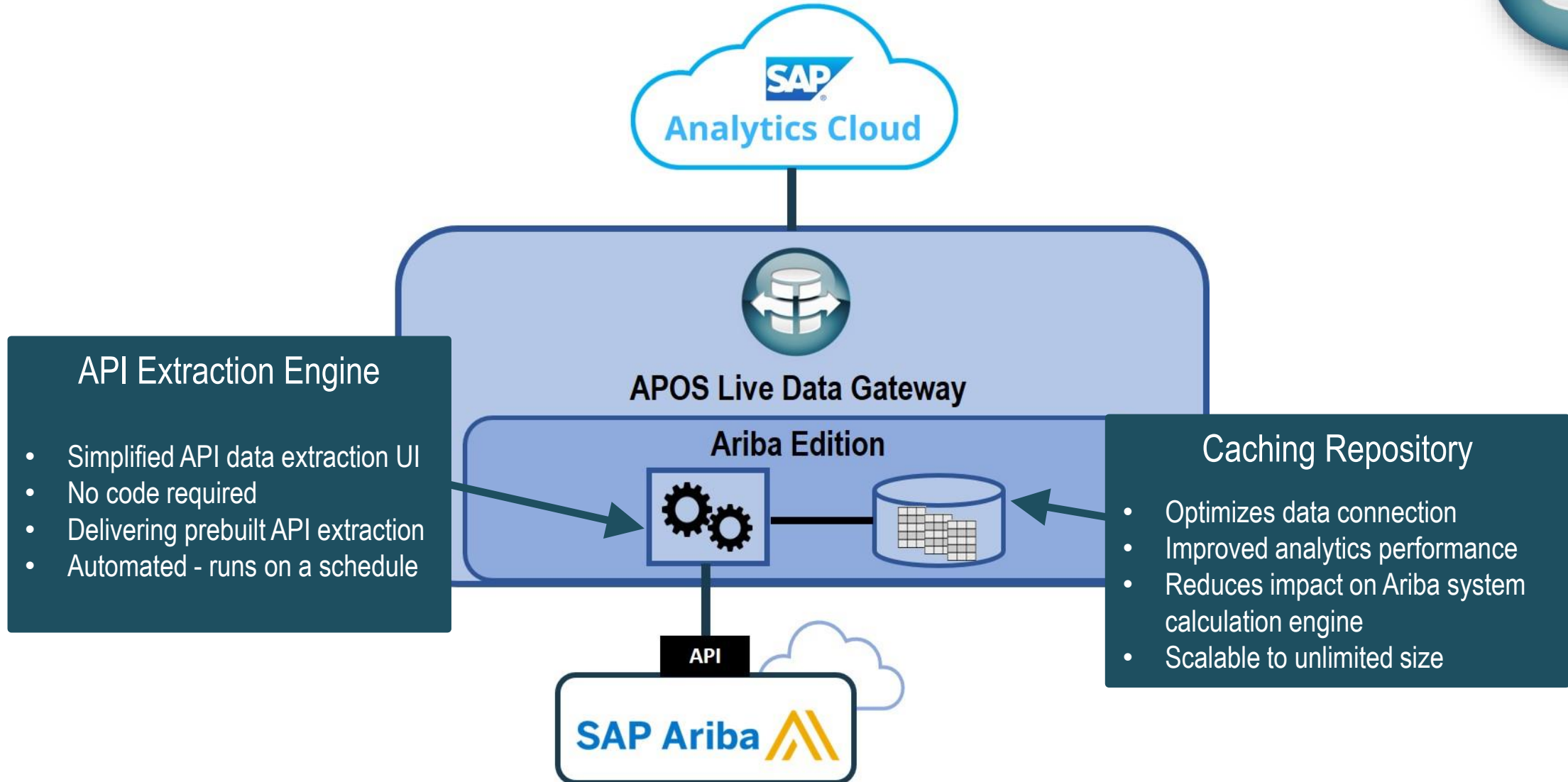
Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
12000258							
12000258							
12000258							
12000258							
12000258							
12000258							

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

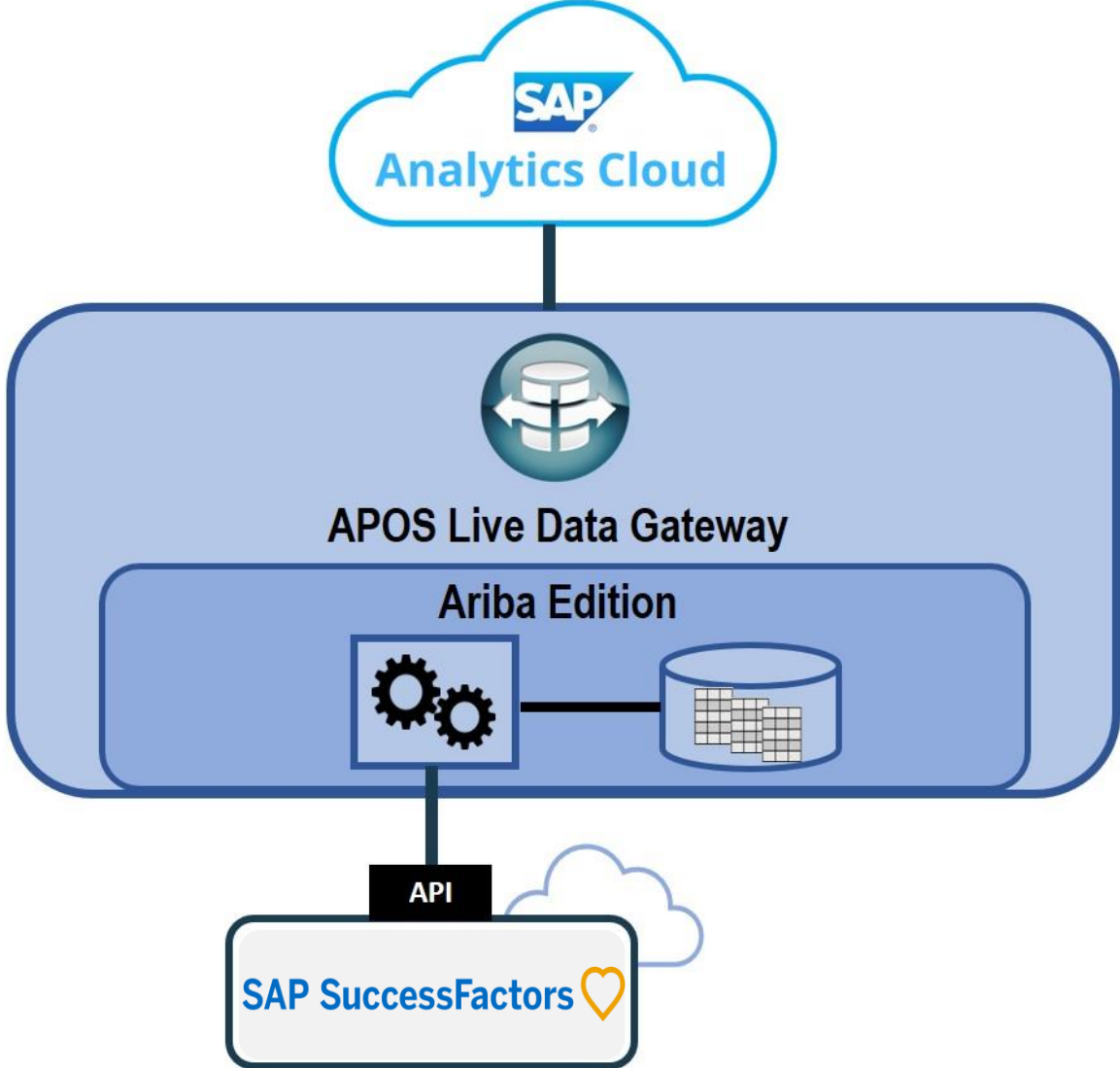
SAP Ariba 

- Connectivity for SAP Ariba
 - Procurement
 - Direct Spend
 - Supplier Management
 - Strategic Sourcing
 - etc.
- Live Mode with Caching
 - API Extraction Engine
 - Caching Repository

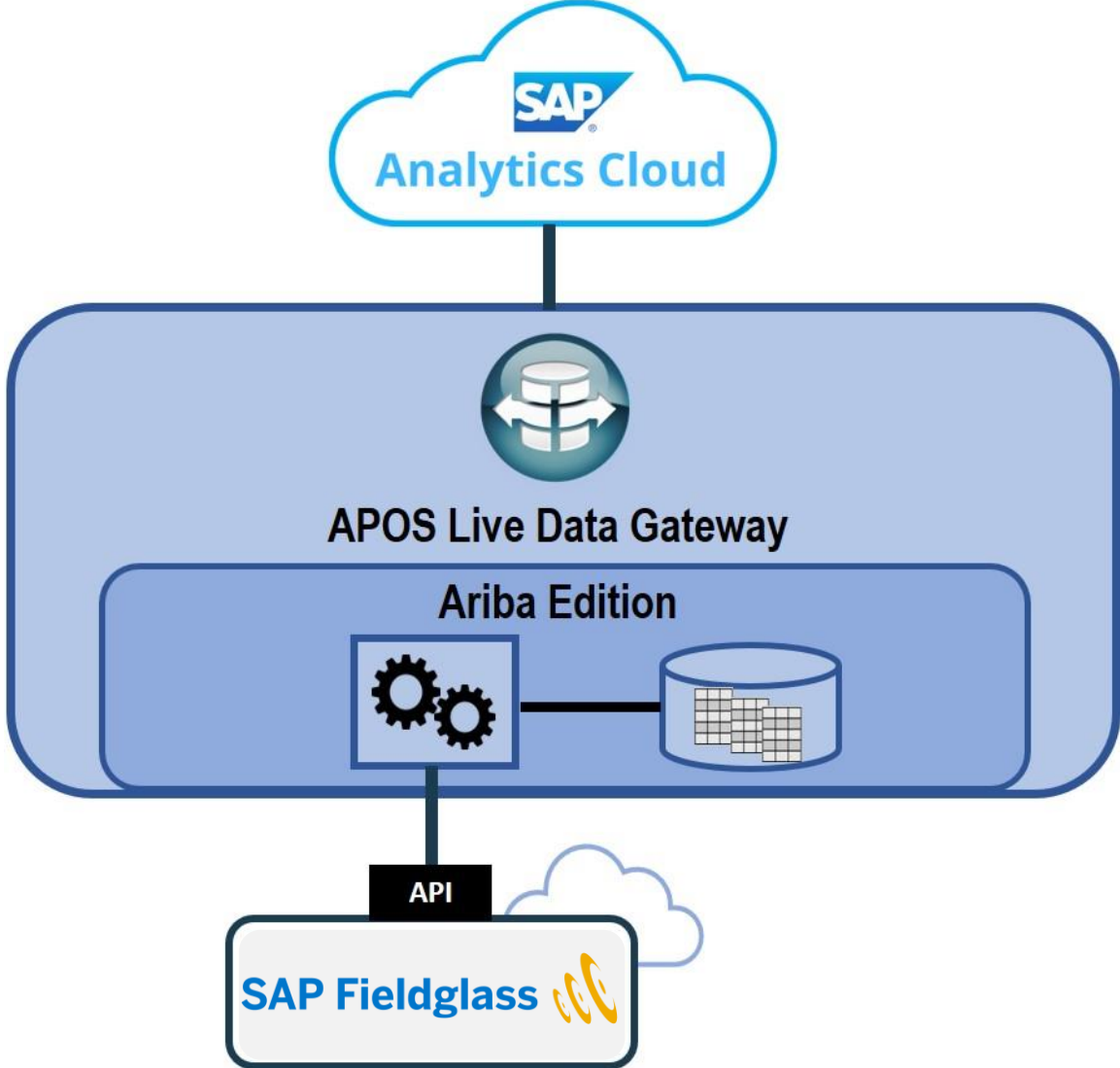
APOS Live Data Gateway – Ariba Edition



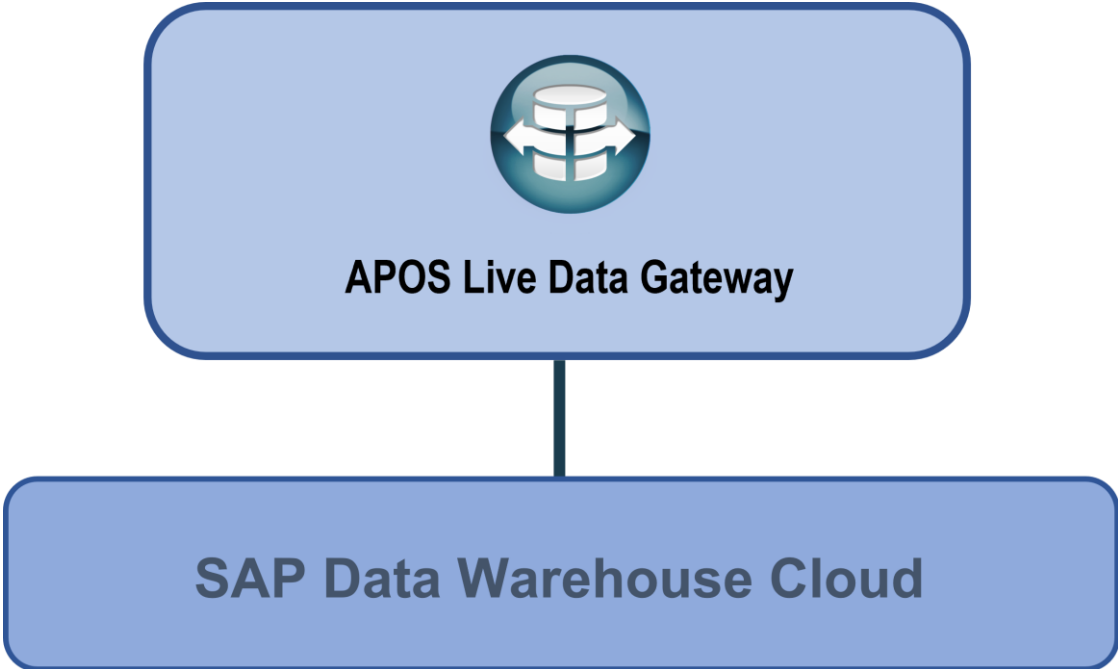
APOS Live Data Gateway



APOS Live Data Gateway



Live Connectivity to SAP Data Warehouse Cloud



Live Data Gateway



Expanded Live Data Consumption Support

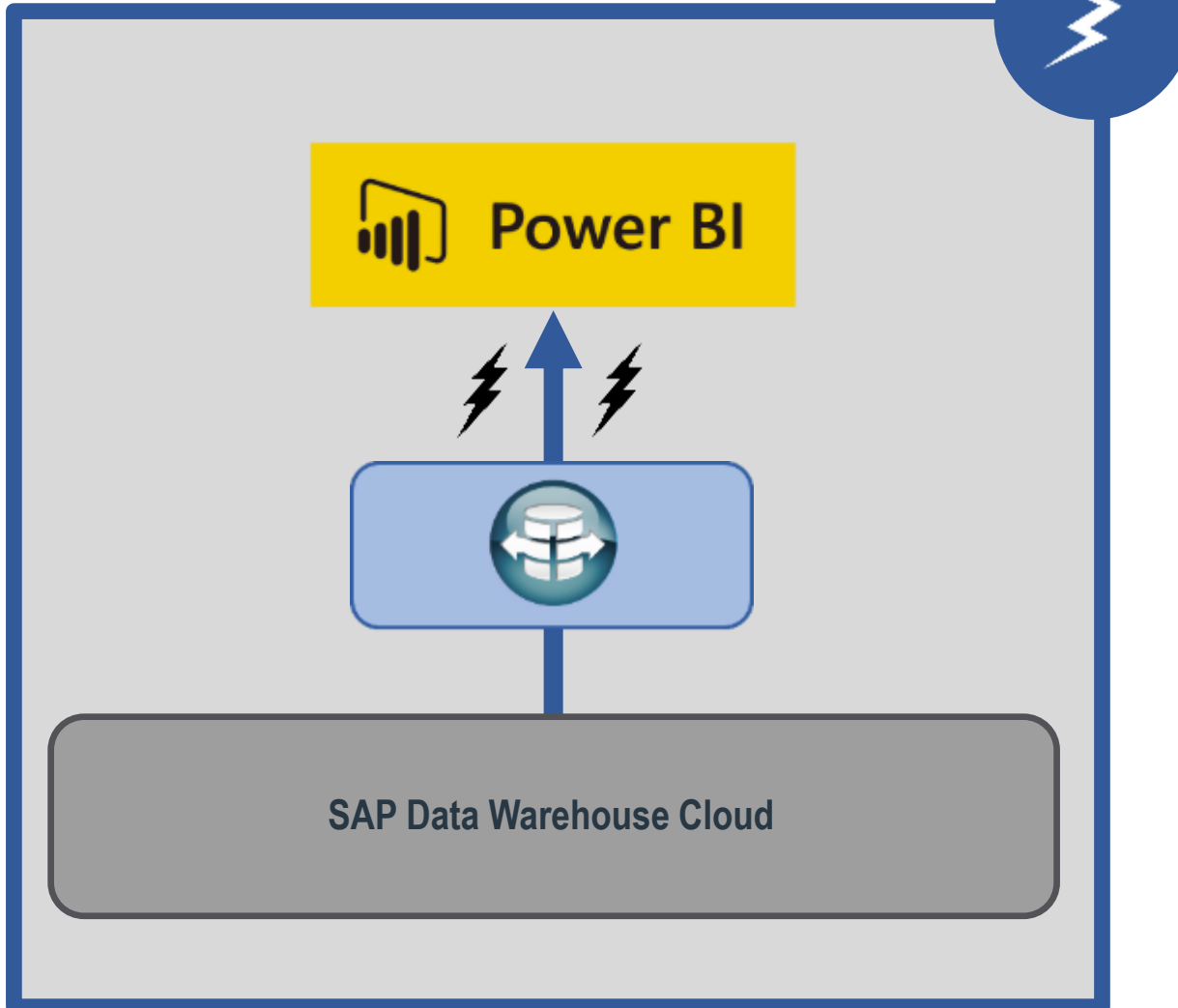
- Power BI to SAP Data Warehouse Cloud (Live)
- Additional Consumption protocols
 - SAP landscape
 - Other data platforms
- Unified Semantic Layer



APOS Live Data Gateway – Solution Update



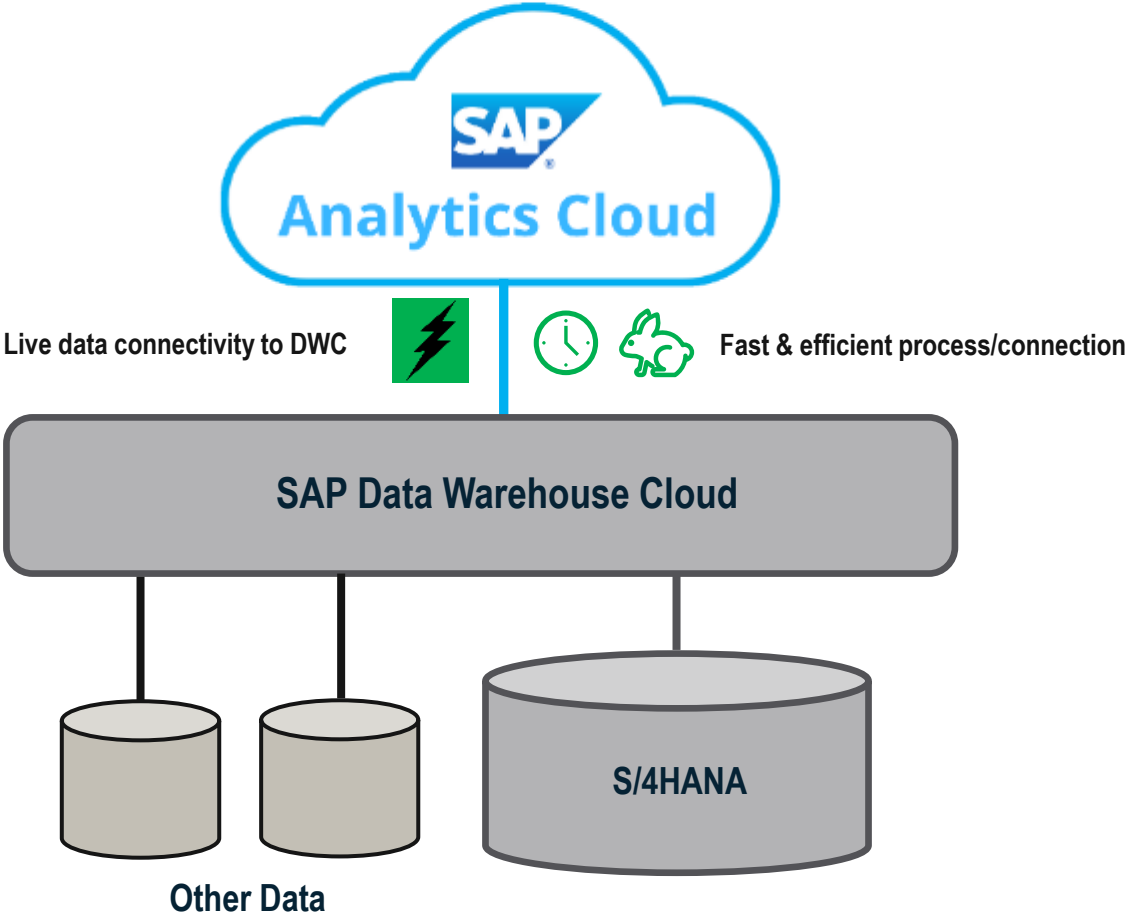
Power BI to SAP DWC Support



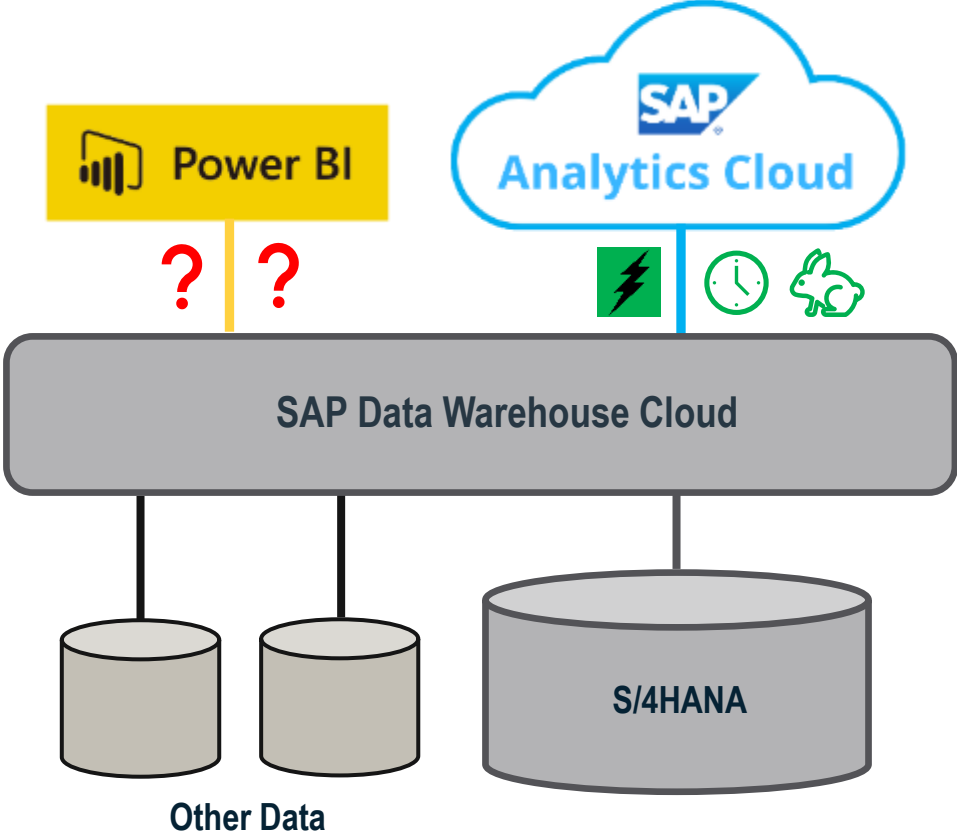
- Connect live from Power BI to SAP DWC (Data Warehouse Cloud)
- Expand how SAP DWC data can be leveraged

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

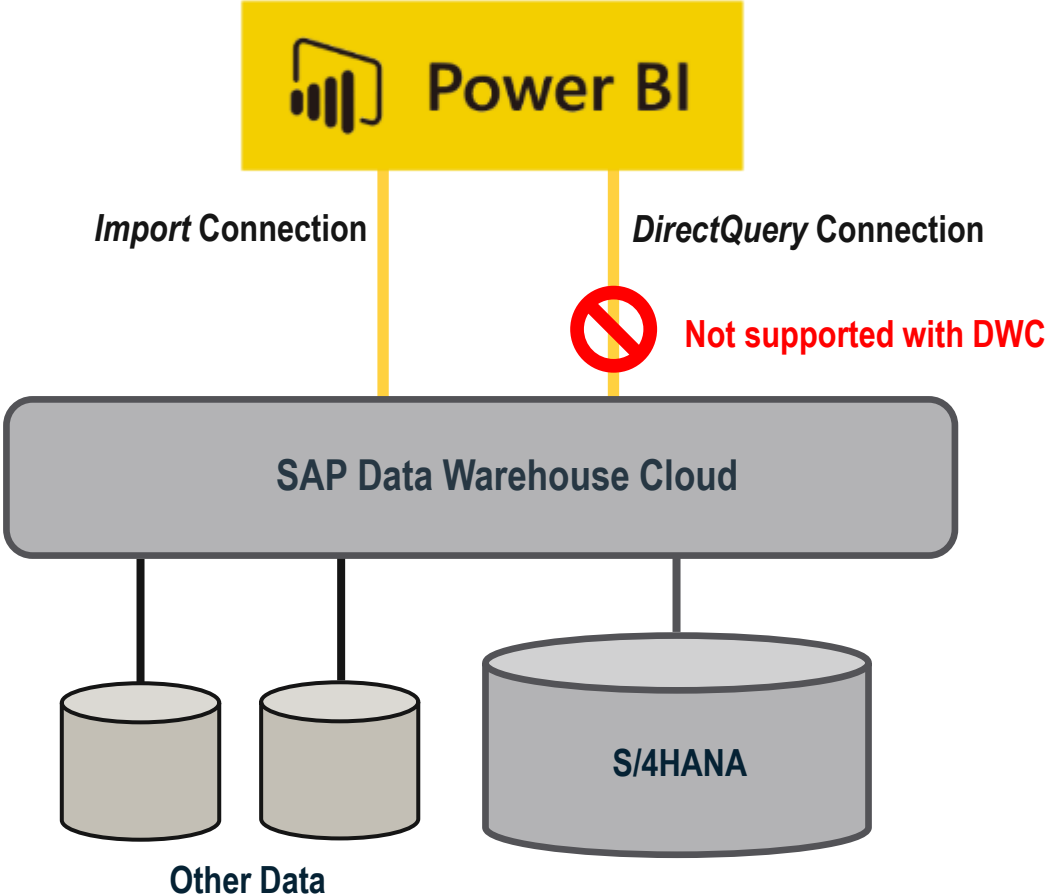
Built-in Live Connectivity from SAC to DWC



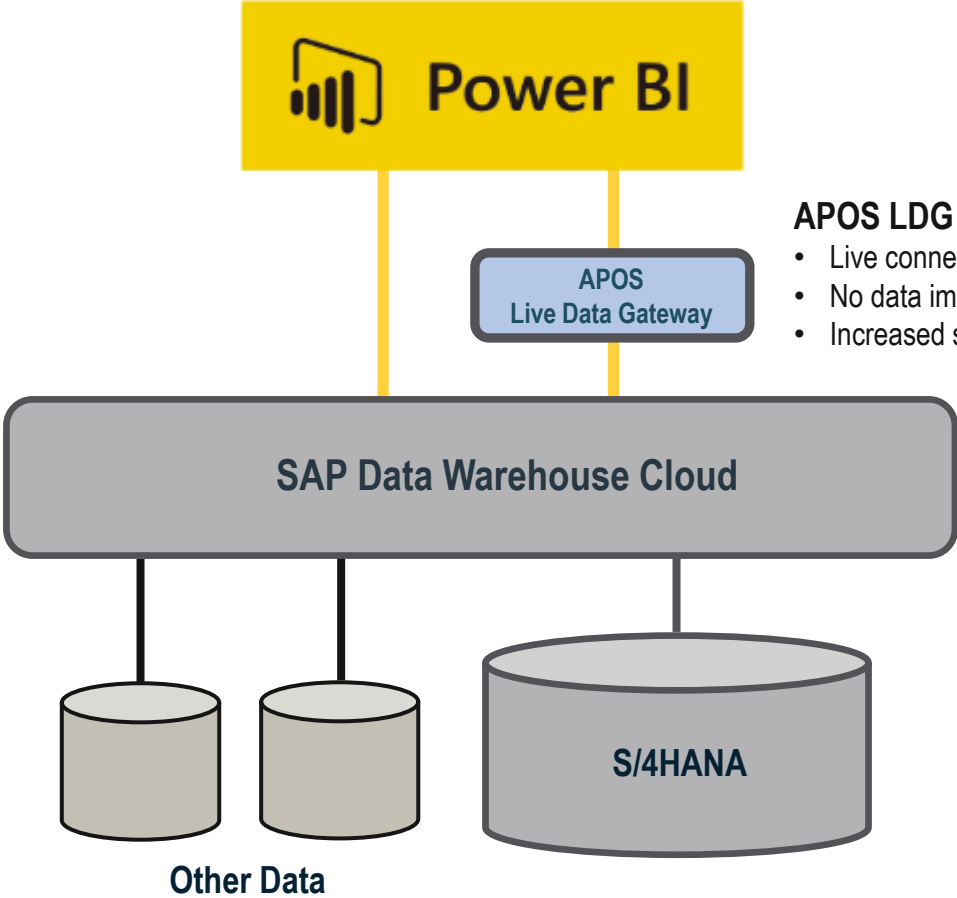
Power BI Connectivity to DWC



Power BI DirectQuery to DWC



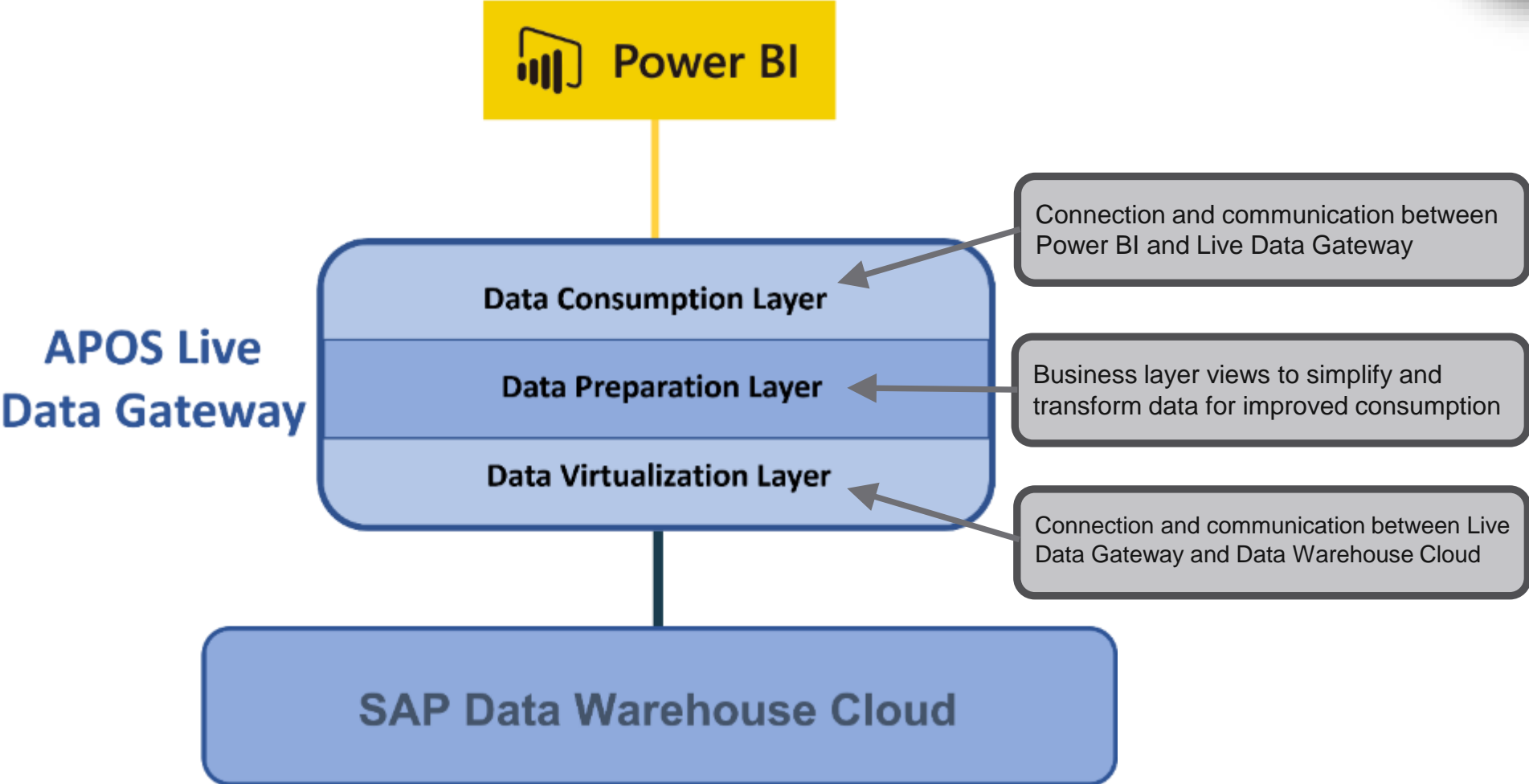
DirectQuery to DWC with Live Data Gateway



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

Direct Query Connectivity with Live Data Gateway



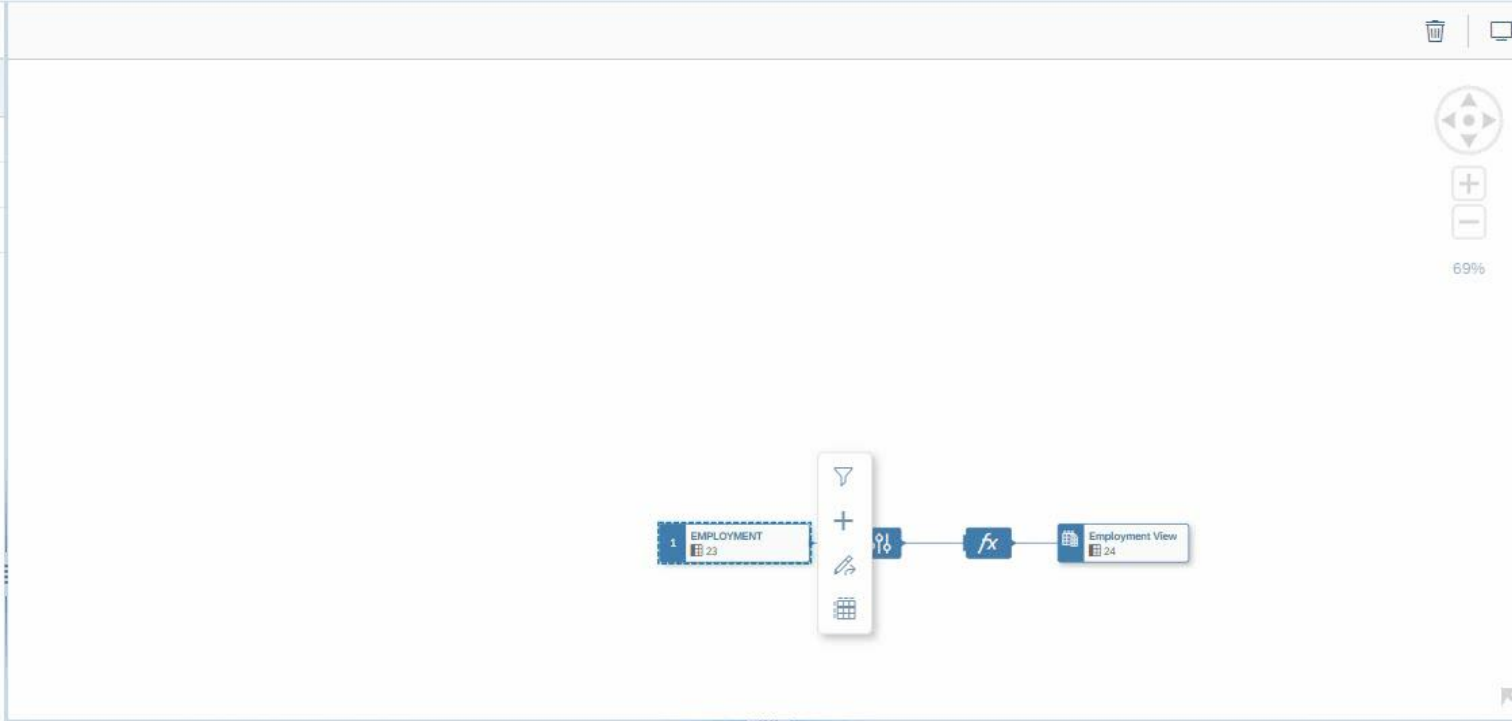
General View Edit

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

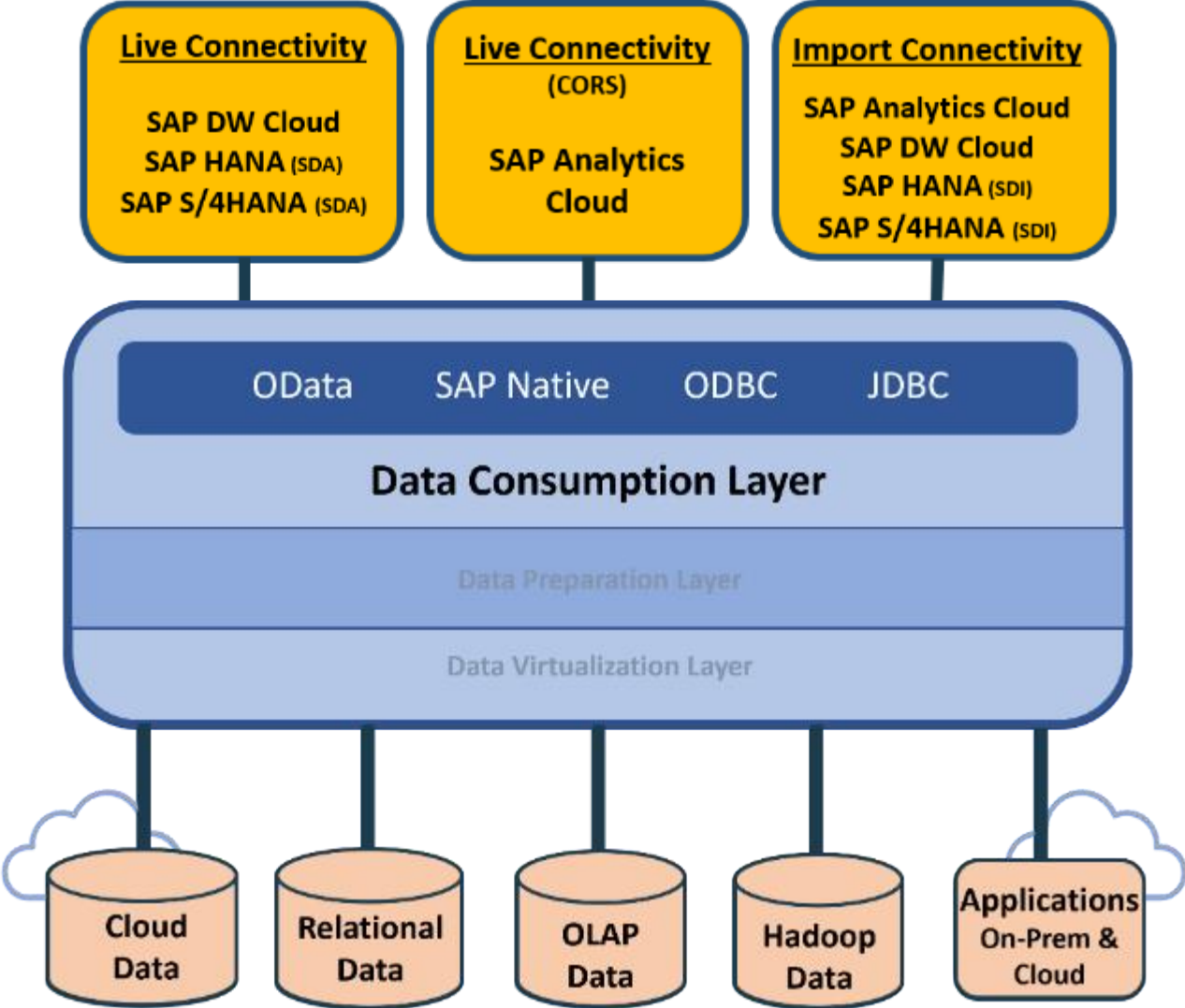
AGYSUB	LOC	AGELVL	EDLVL	GSEGRD	LOSLVL	OCC
AF07	US	H	13	12	D	1801
AF07	US	I	13	12	D	1801
AF07	US	I	13	12	D	1801
AF07	US	G	13	12	D	1801
AF07	US	H	13	12	D	1801
AFGS	US	H	13	12	D	1801

Columns

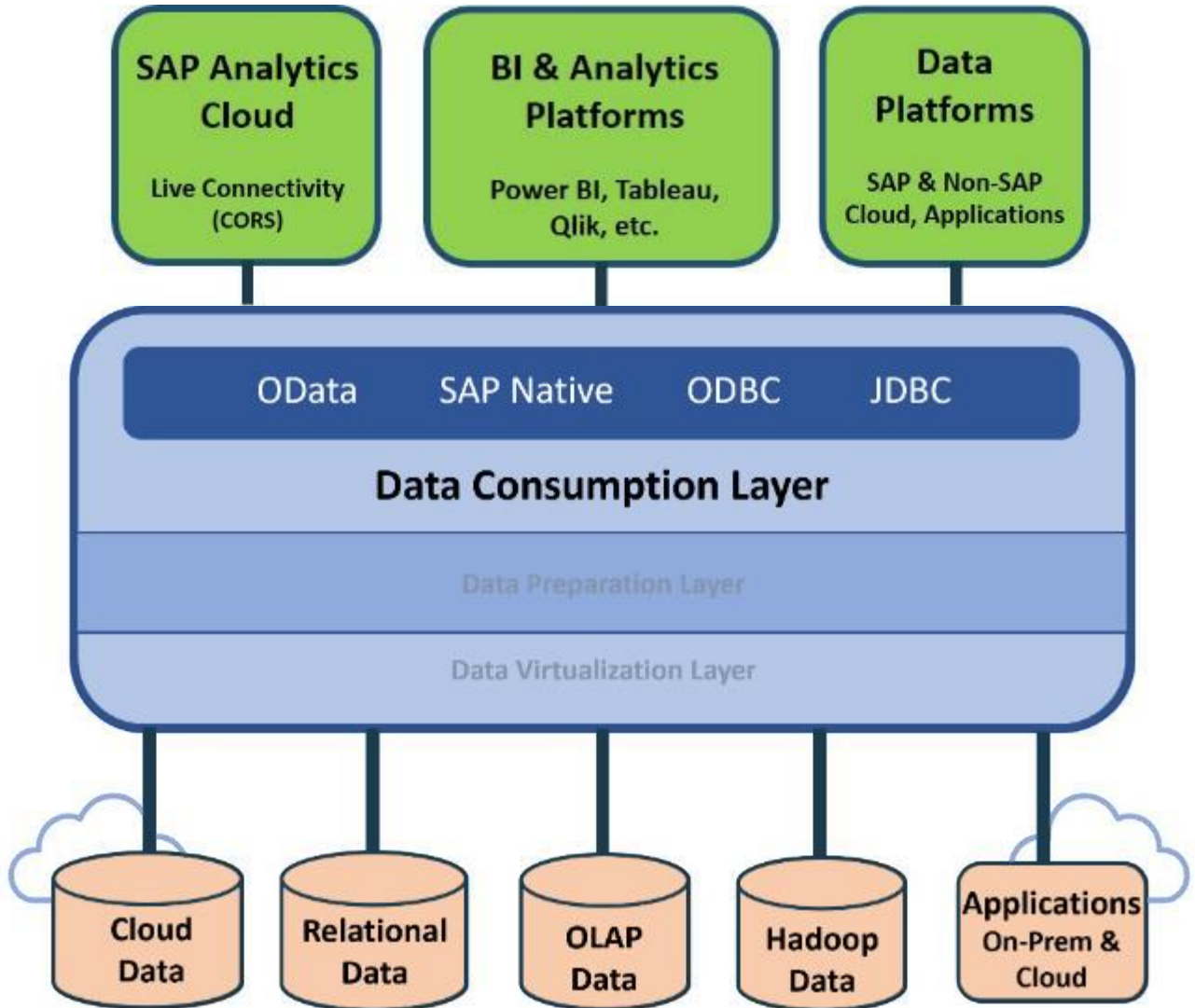
Search Columns

AA AGYSUB

APOS Live Data Gateway – SAP Landscape



APOS Live Data Gateway – Unified Semantic Layer



APOS Live Data Gateway – Session Summary

Live Data Gateway Overview

Live Data Connectivity from SAC to non-SAP Sources

- Direct, Fast, Efficient
- Data Virtualization Layer
- Data Preparation Layer
- Data Consumption Layer

Feature Overview

- Advanced Features
 - SSO Options Support
 - Shared Connectivity
 - Date & Custom Dimension Support
 - Variables Support
 - Geospatial Data Support
- Expanded Connection Support
- Expanded Consumption Support



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



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



Upcoming Events



Advancements for SAC Broadcasting: APOS Publisher for Cloud Solution Update - Webinar

Oct 27th, 2022 - 11am EDT

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 broadcasting with:

- Data-driven dynamic rules
- Multiple format options
- Multiple destinations
- Consolidation of multiple reports
- Scheduling/conditional bursting
- Security/filtering/variables

The latest updates and new capabilities of APOS Publisher for Cloud, including:

- Shared vs private deployments
- MFA support
- Simplified configuration
- Widget level bursting
- Optimized presentation support
- High-volume export
- Grid/table Excel consolidation



Register at www.apos.com

Upcoming Events



Right-Sizing SAP BusinessObjects for Your Next Step - Webinar

Nov 17th, 2022 - 11am EST

Right-sizing your SAP BusinessObjects environment is important regardless of whether you are planning a platform upgrade, adopting SAP Analytics Cloud, moving to a hybrid BI deployment, or making some other change or shift in your SAP BI deployment. This webinar will highlight ways to achieve your right-sizing objectives for such changes, and ensure your system runs efficiently and cost-effectively.

Join us for this live session highlighting APOS products that can help you achieve your right-sizing objectives. Learn how to automate system cleanup, and much more.

You'll learn:

- **Rationalizing** – Assess necessary and unnecessary content, users, licenses and infrastructure
- **Reducing** – Find and remove unnecessary users and content from the system
- **Restructuring** – Make your infrastructure and licensing fit your needs



Register at www.apos.com

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LinkedIn!

QUESTIONS?

Please enter your questions in the Q&A panel.



Thank You!

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