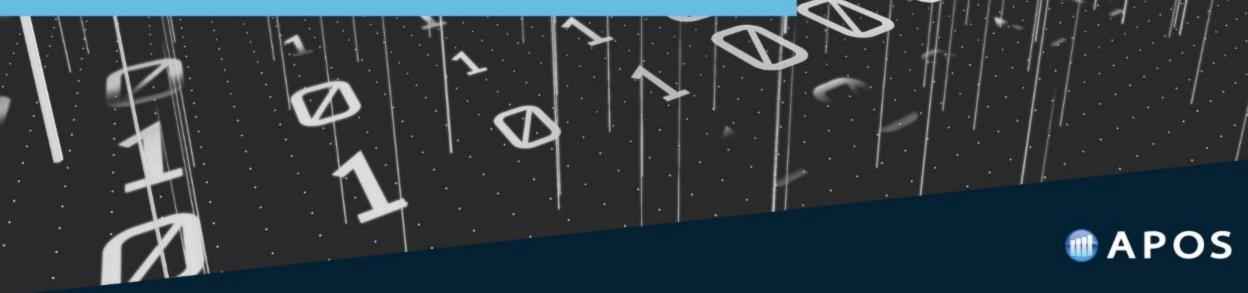
Webinar

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

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Today's Presenters



ALLAN PYM

Chief Operating Officer APOS



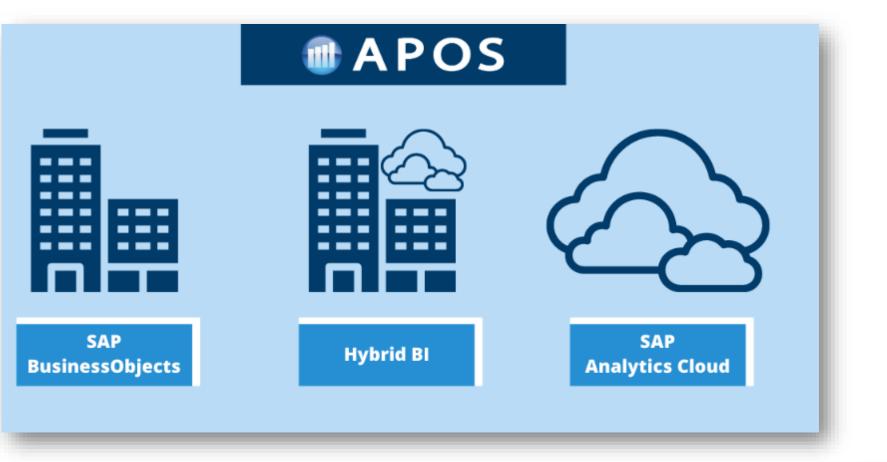
ALAN GOLDING

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

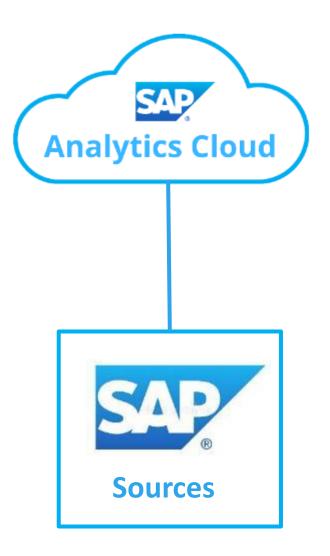








SAC Connectivity



Live & Import Connectivity



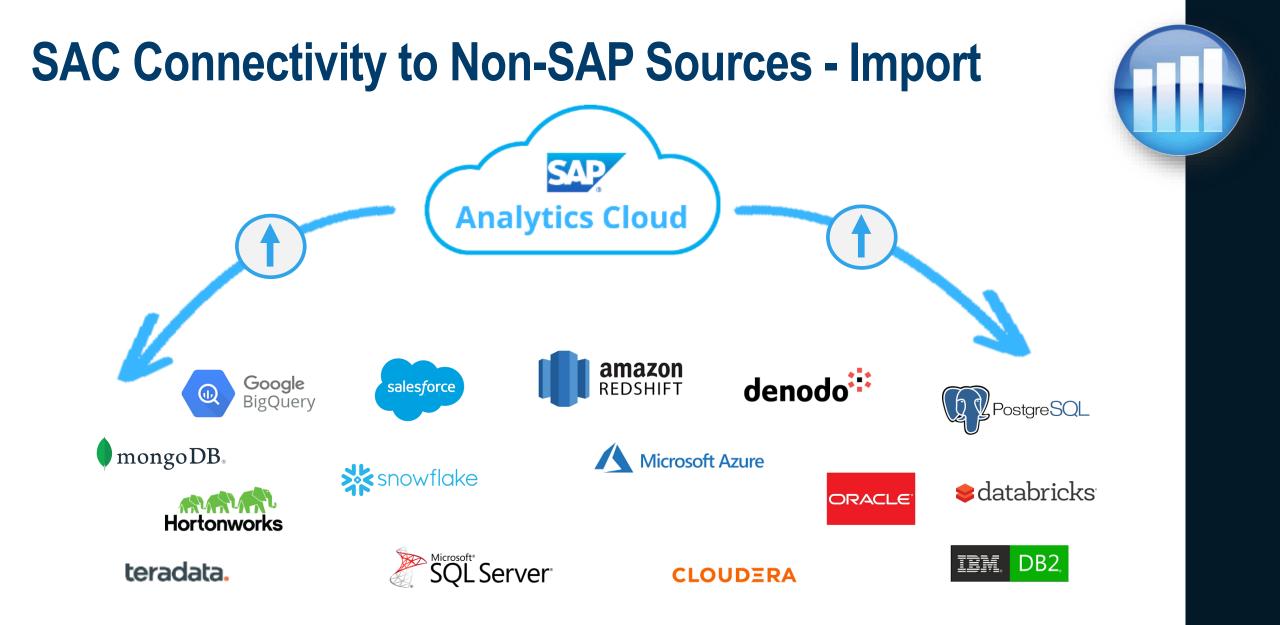
Import Connection

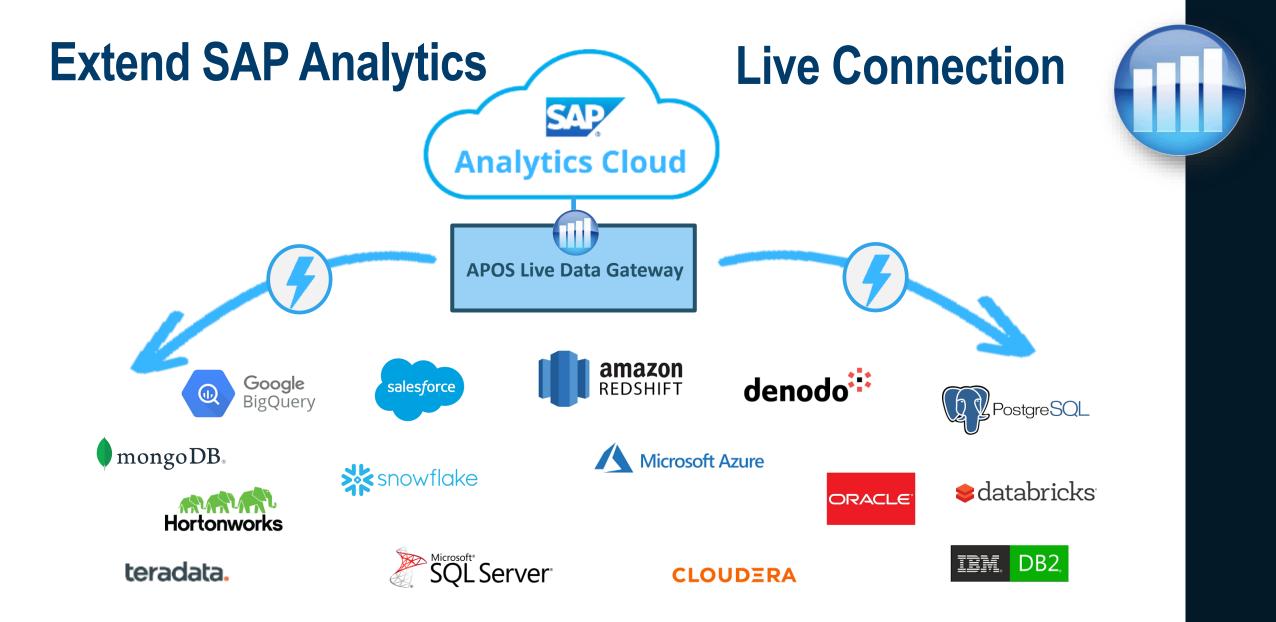
Data moved into SAC data environment Data uploaded on a schedule, current to last upload Modelled & secured in SAC Supports Business Intelligence + Planning

Live Connection

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





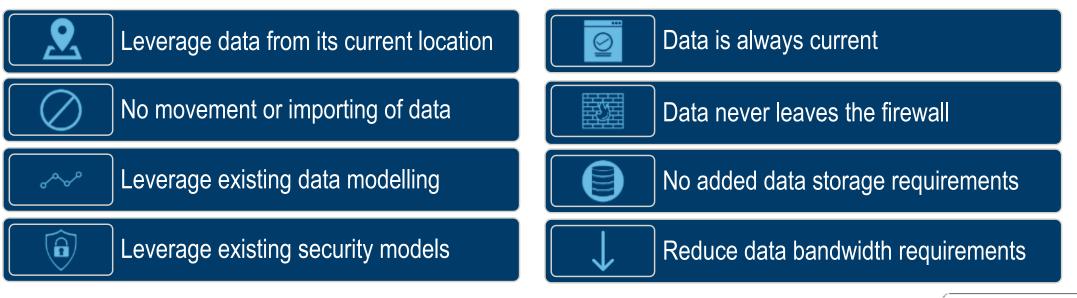


APOS Live Data Gateway – Unlock Live Data





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





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

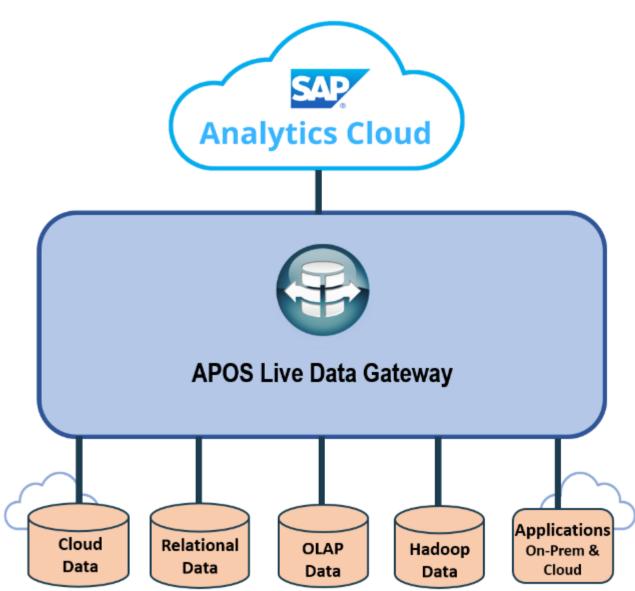
- Oracle Exadata
- Postgres
- Presto
- Salesforce
- Snowflake
- Sybase IQ, Sybase SQL Anywhere
- Teradata
- SAP BusinessObjects Universes (UNV, UNX)
- SAP BW version 7.3 and higher
- JDBC connectivity

Extended Data Sources: 100+ Additional data source and application connection options <u>https://www.apos.com/content/apos-live-data-gateway-data-sources-supported</u>





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

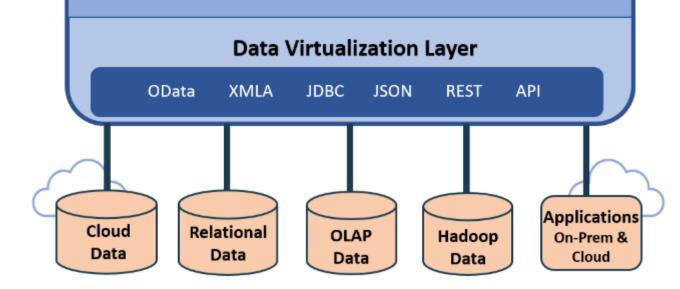


Live Connectivity for SAC



Semantic Data Consumption Layer

Data Preparation Layer





5 Simple Steps to Live Connectivity

Create connection to Data Source

Create view in Data Preparation Layer

9

Create connection

Create Model / Data Set Create Report

5



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

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



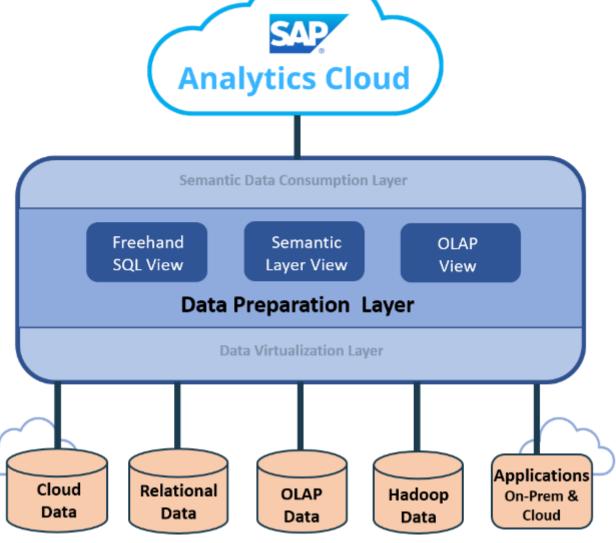
Data Preparation Layer





Data Preparation Layer Key Functions

- Define Measures and Dimensions •
- Define what data fields are exposed •
- Manage table links and joins ٠
- Set meaningful field names ٠



APOS Live Data Gateway – Solution Update

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Self-Service Data Modelling

- Self Service creation of data modelling assets
- Expand from self-service analytics to selfservice 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: <u>www.apos.com/content/webinar-leverage-live-data-analytics-on-demand</u>

Live Data Gateway

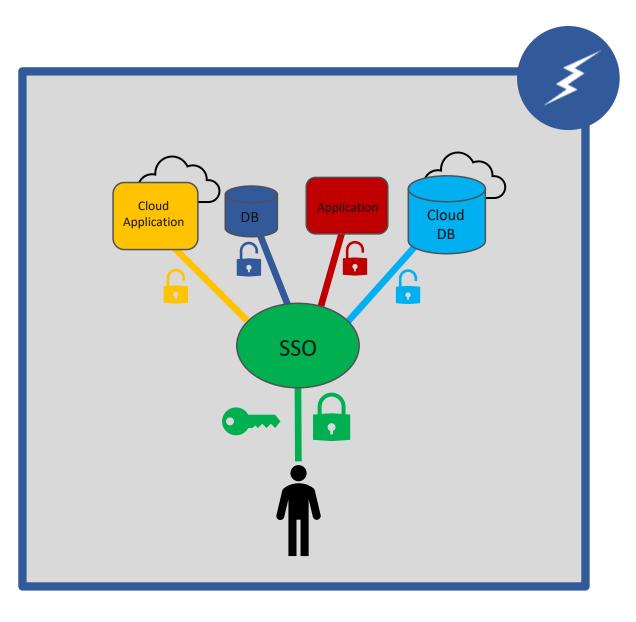
Advanced Features

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

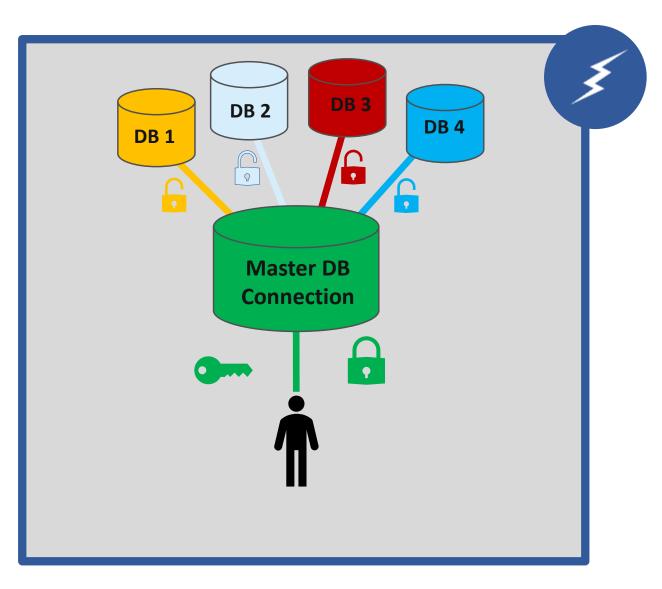
APOS Live Data Gateway – Advanced Features Single Sign On

Example

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

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Connection	SSO Configuration	Date/Time and DB Functions	Extra Properties	
SSO				
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	Authentication Type Option:	OAuth		~
Use	er Can Self Add To The List:		Identity Providers	SSO
	OAuth Information			
	OAuth Client ID			
	OAuth Secret			_
	Oauth Scope	https://aposlivedatagateway.com/4d.	2a8c2b-a5f4-4b86-93ca-294	18574
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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

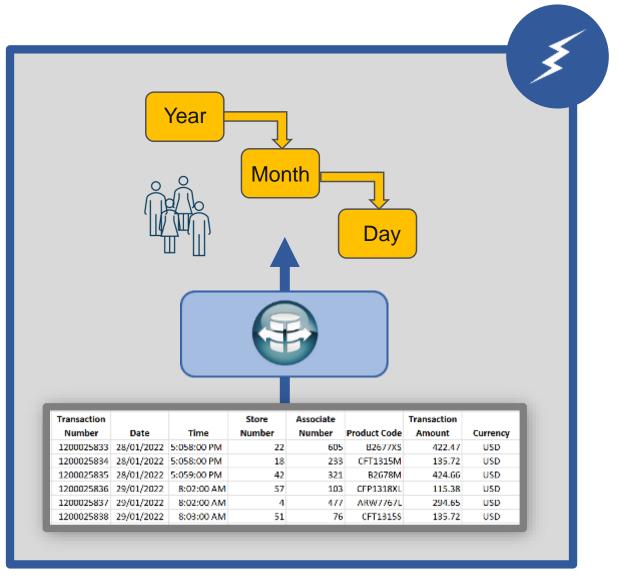
• Select which connection will be the Master then associate other connections to use the Master connection

Connection	SSO Configuration	Date/Time and DB Fur	nctions E	Extra Properties	
- SSO					
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	Authentication Type:	IDENTITY PROVIDERS S	60		\sim
A	uthentication Type Option:	Database User/Password			\sim
User	Can Self Add To The List:			Identity Provide	ers SSO
S	elf Signed User/Password:	\checkmark			
	Override Credentials:				
	- Shared Connection	S			
	No Shar Connections:		r Identity	🔘 Use Master k	dentity ~



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

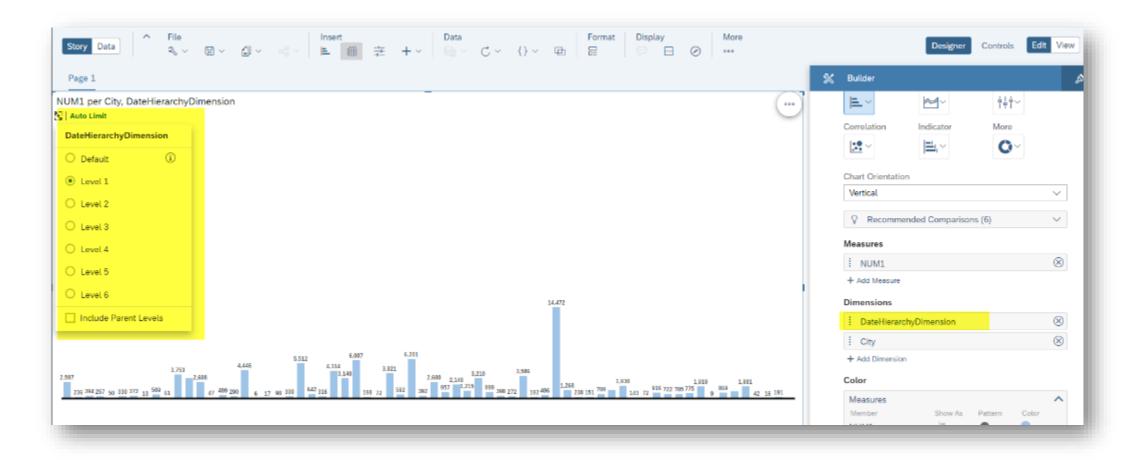
- Select custom level of hierarchy needed
- Each level available as individual dimension also

Edit Semantic Layer - 🗊 Select Table Column — 🚳 Extra Dimensions — 🛞 Select Dimension and - 🛞 Variable Prompts — 🛞 Define Table Joins							
3. Extra Dimensions							
New Time Dimension							
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date 🗸	Year	DateHierarchy	DateHierarchyDimension				
New Geospatial Dimension	Year Year, Quarter						
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GeoSpatialDimension GeoSpat		onNa GeoSpatialDimension A	Aiports_1 V Lat_3857 V				
4. Select Dimension and Measure	Year, Week Year, Week, Day						

APOS Live Data Gateway – Advanced Features Date Dimension Support

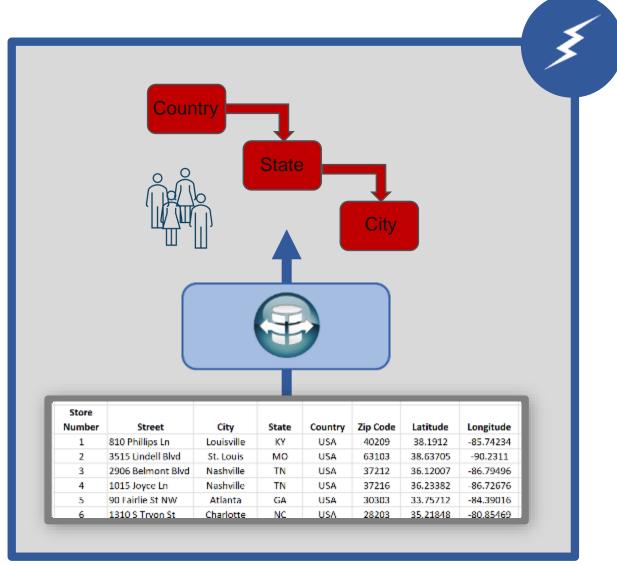
Drill Down

- 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 nonhierarchical data
- Simplified user experience for building and consuming analytics
- Drill down functionality for non-date based dimensions
- Level Type Hierarchies will be supported

• Create custom hierarchies from your fact/dimension tables

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SNOWFLAKE_SAMPLE_DATA		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
CUSTOMER	Preview Data X	7	23883793	Silvia Wells	United States	KY	Brownsville
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USTNAME USTCOUNTRY	VARCHAR(51) VARCHAR(20)	12	23883798	Clarence Haywood	United States	KY	Pine Grove
USTSTATE	VARCHAR(2)	13	23883799	Cassandra Alvarado	United States	MI	Oakdale
USTCITY	VARCHAR(60)	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
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- Level based hierarchy supported
- Can work with parent/child hierarchies also

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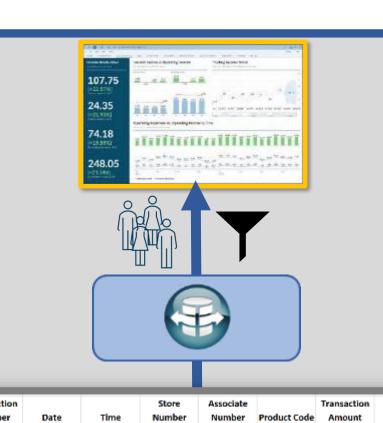
• Drill down using your custom hierarchies in SAC

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• Drill down using your custom hierarchies in SAC



APOS Live Data Gateway – Advanced Features



Transaction			Store	Associate		Transaction	
Number	Date	Time	Number	Number	Product Code	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	CFT13155	135.72	USD

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* Prompt_Variable_0	Source of Prompt Values Dimension (Full Set) Query
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Default Value New York	



APOS Live Data Gateway – Advanced Features

Variables Support

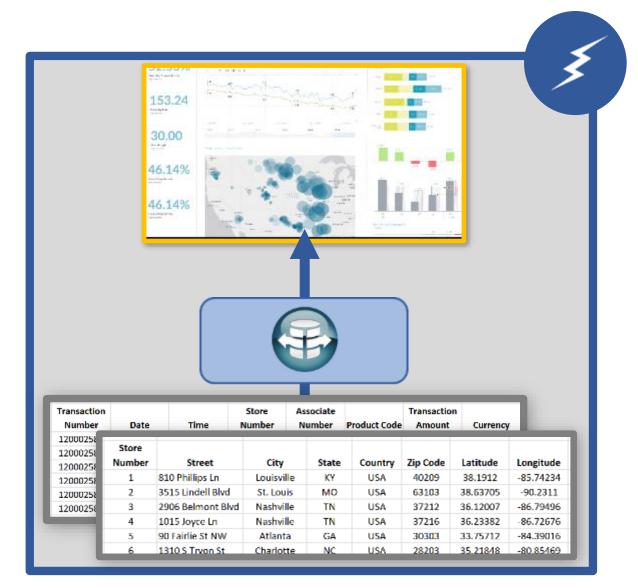
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- Allow multiple values
- Set defaults
- Utilize formulas
- Set full set of values, or query, or static values

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APOS Live Data Gateway – Advanced Features

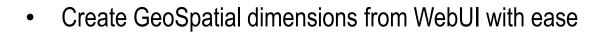




Geospatial Data Support

- 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

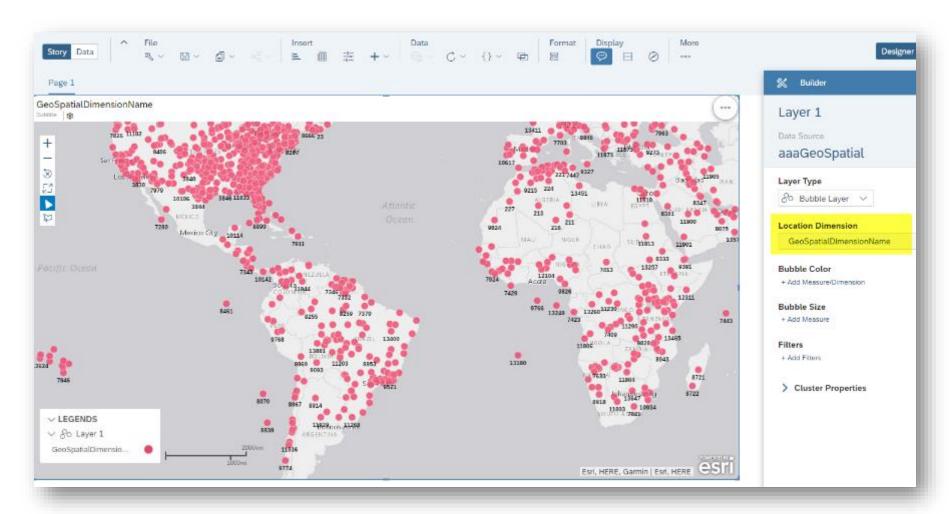


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APOS Live Data Gateway – Advanced Features

Geospatial Data Support

• Create Geo Maps on your stories in SAC



Live Data Gateway

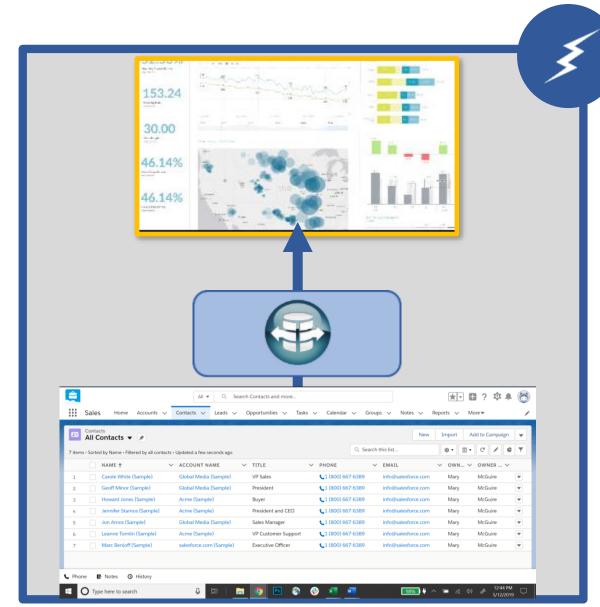
Expanded Live Data Connection Support

- 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 153.24 **SharePoint** 30.00 ----46.14 46.14% ✓ Sharepoint Site Metadata ✓ Sharepoint Lists ✓ Sharepoint Storage ✓ Excel Transaction Store Associate Transaction Date Number Number Product Code Amount Currency Number Time ✓ CSV 1200025 Store 12000258 Number City Latitude Longitude Street State Country Zip Code 1200025 810 Phillips Ln Louisville KY USA 40209 38.1912 -85.74234 12000250 3515 Lindell Blvd St. Louis MO USA 63103 38.63705 -90.231112000258 3 2906 Belmont Blvd Nashville TN USA 37212 36.12007 -86.79496 1200025 1015 Joyce Ln Nashville TN USA 37216 36.23382 86.72676 90 Fairlie St NW Atlanta 33.75712 -84.39016GA USA 30303 1310 S Tryon St Charlotte NC USA 28203 35.21848 -80.85469

APOS Live Data Gateway – Unique Data Sources





- ✓ Salesforce Accounts
- ✓ Salesforce Opportunities
- ✓ Salesforce Customers

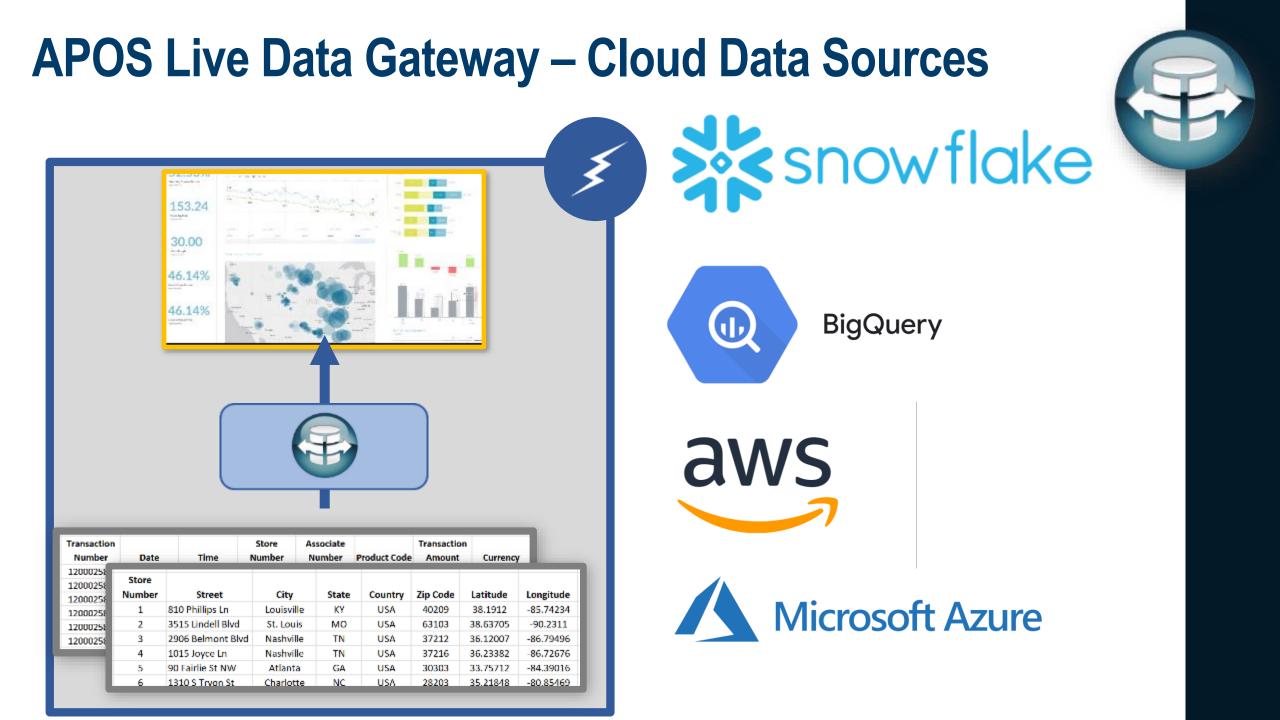
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APOS Live Data Gateway – Unique Data Sources

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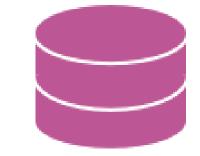
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- ✓ Google site traffic
- ✓ User Information
- ✓ Session Statistics
- \checkmark Insights into your applications



APOS Live Data Gateway – Generic JDBC Connectivity

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Generic JDBC

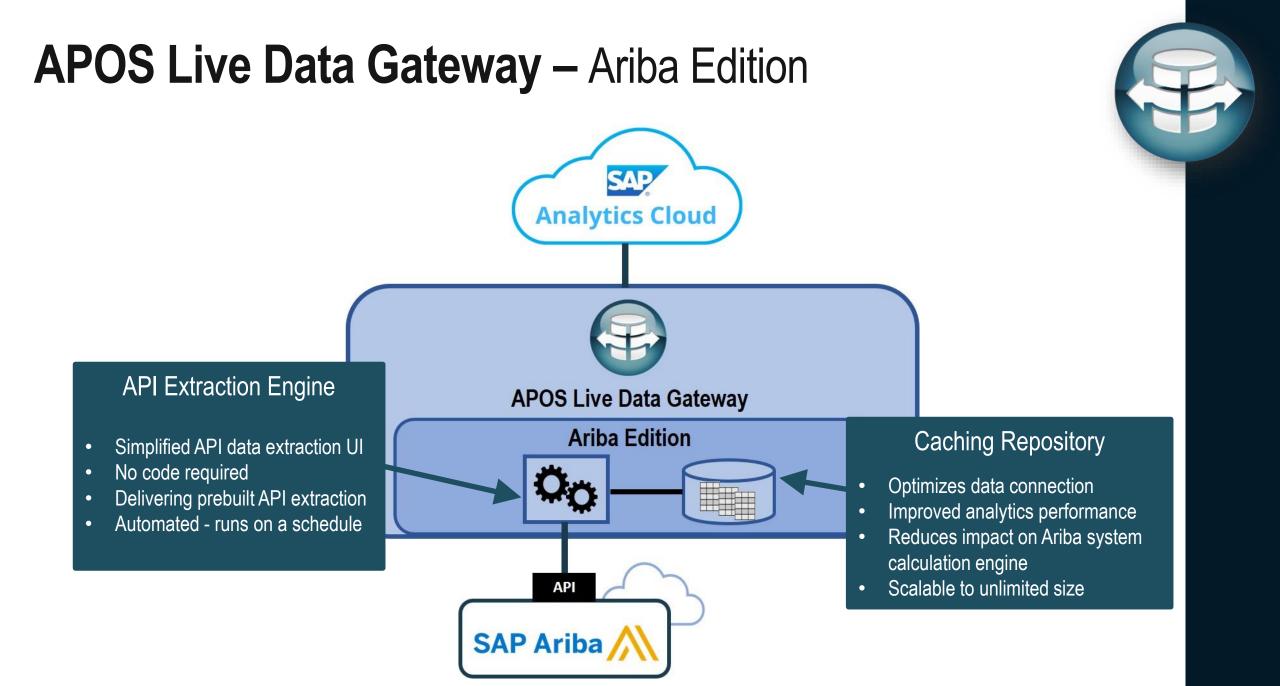
 Live connectivity to other data sources that support JDBC with APOS Live Data Gateway

APOS Live Data Gateway – SAP Ariba

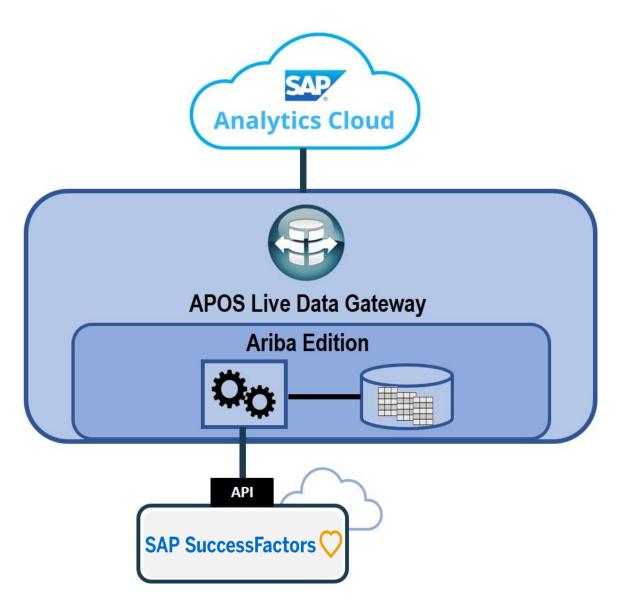
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SAP Ariba

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

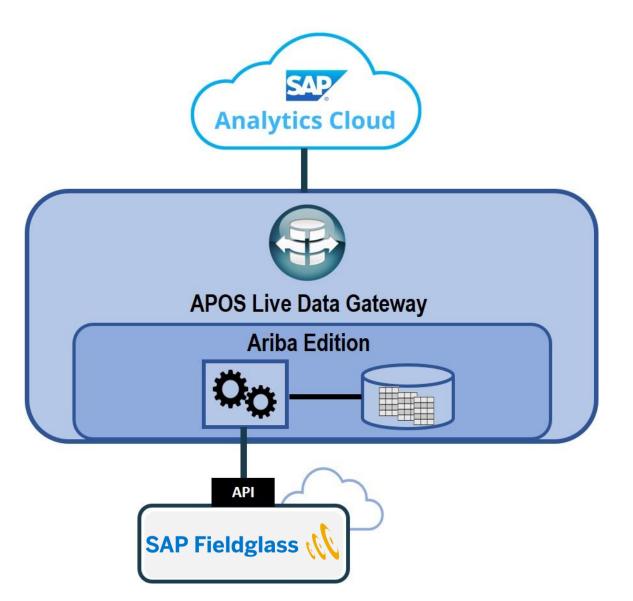


APOS Live Data Gateway

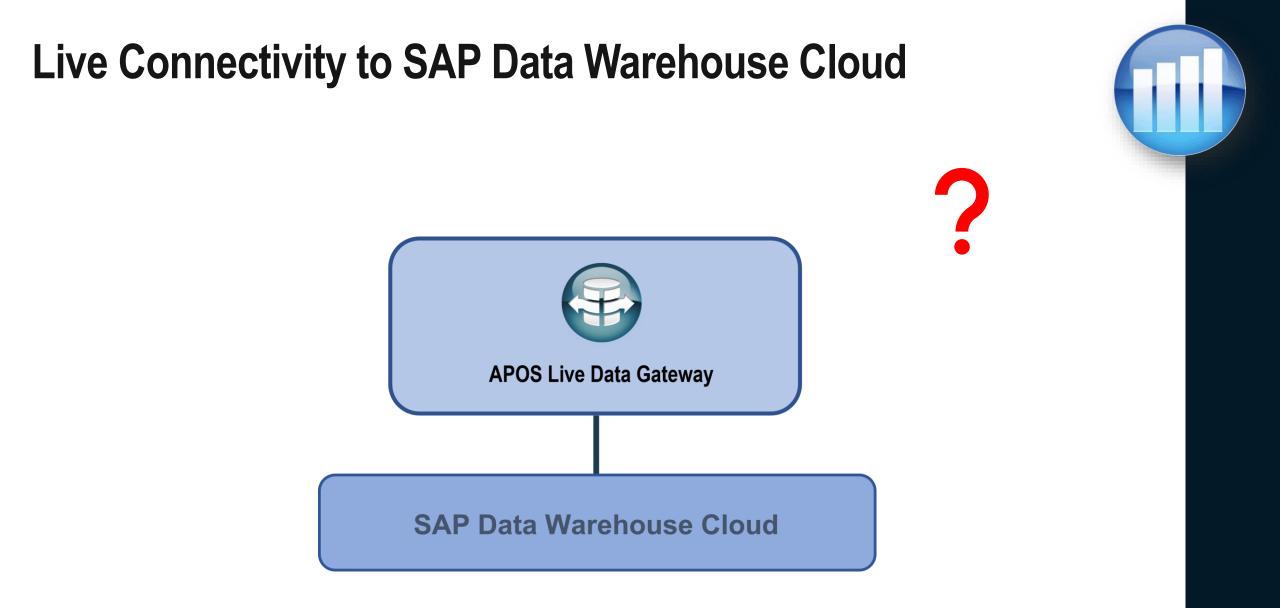




APOS Live Data Gateway







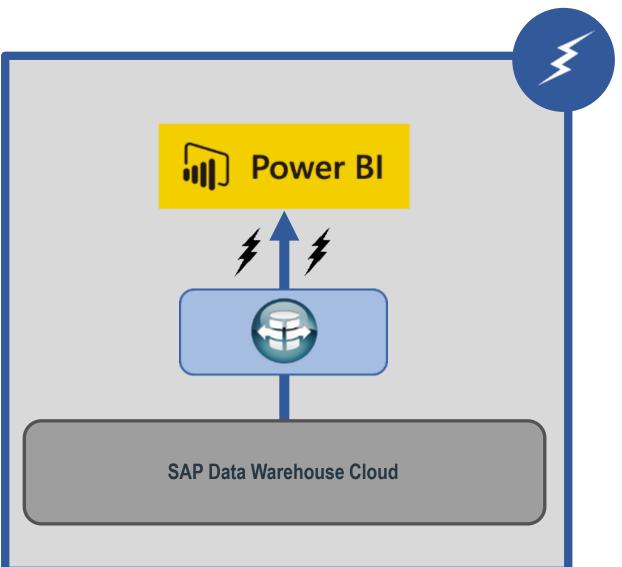
Live Data Gateway

Expanded Live Data Consumption Support

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



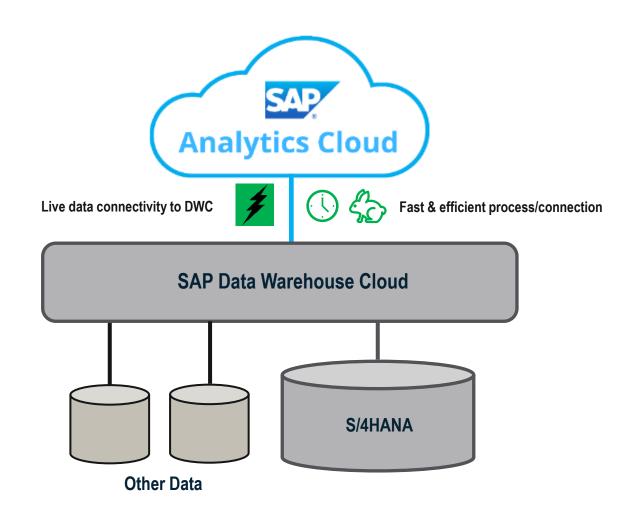
APOS Live Data Gateway – Solution Update



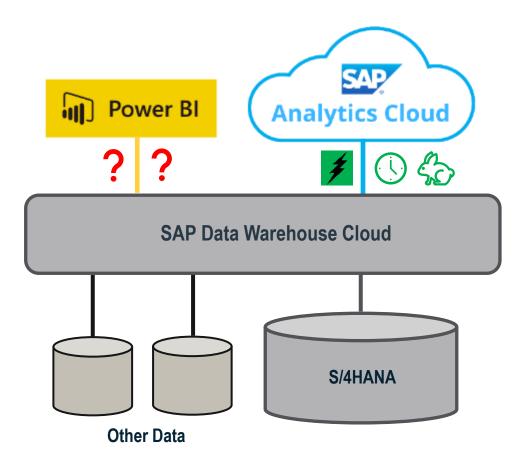
Power BI to SAP DWC Support

- 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

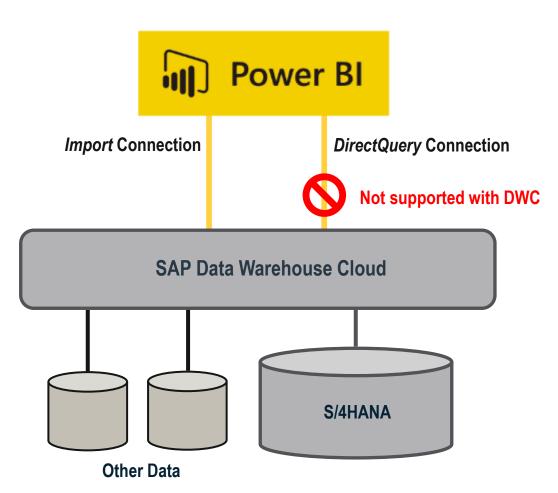


Power BI Connectivity to DWC



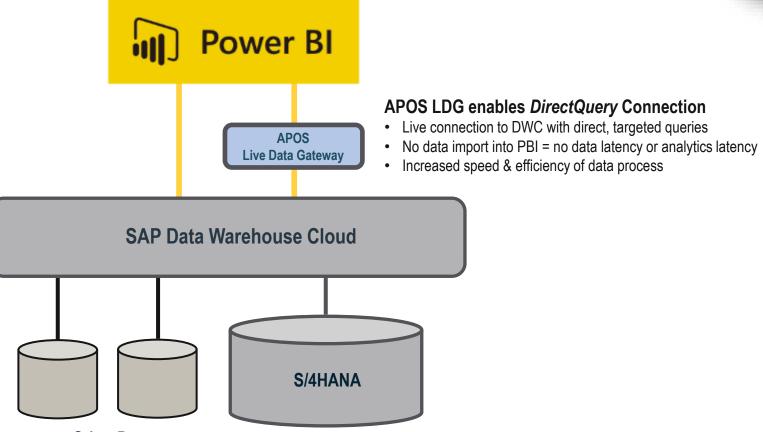


Power BI DirectQuery to DWC

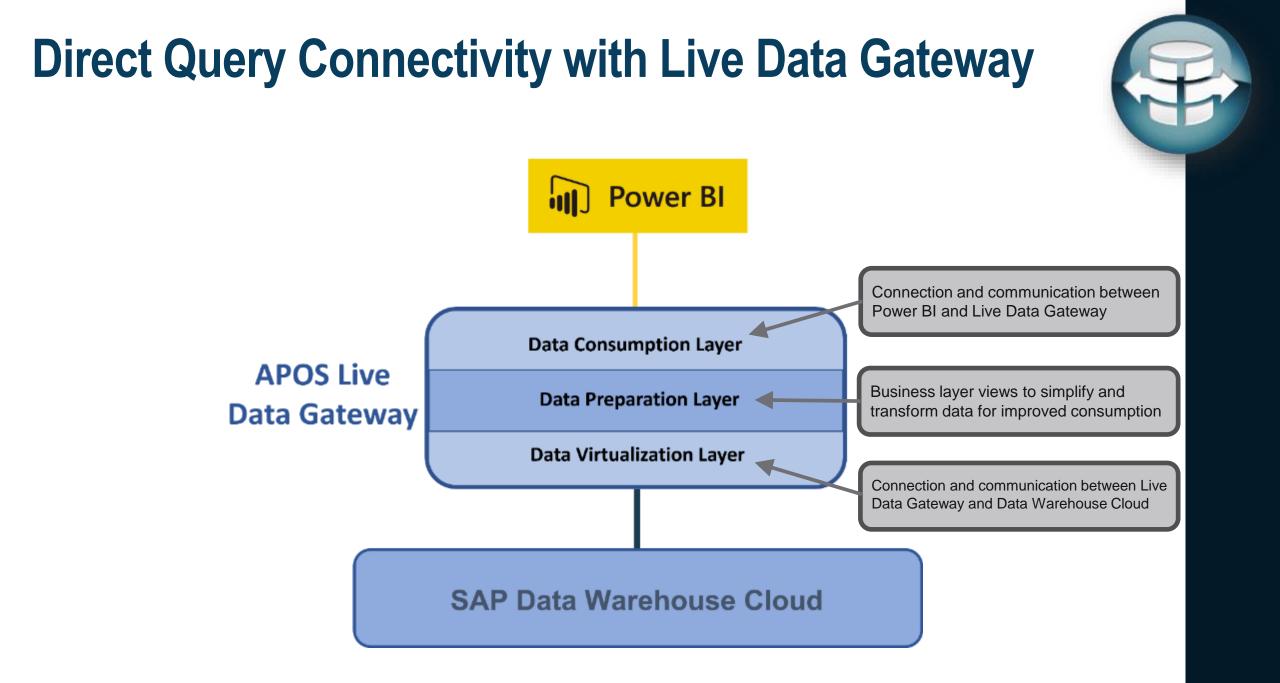




DirectQuery to DWC with Live Data Gateway

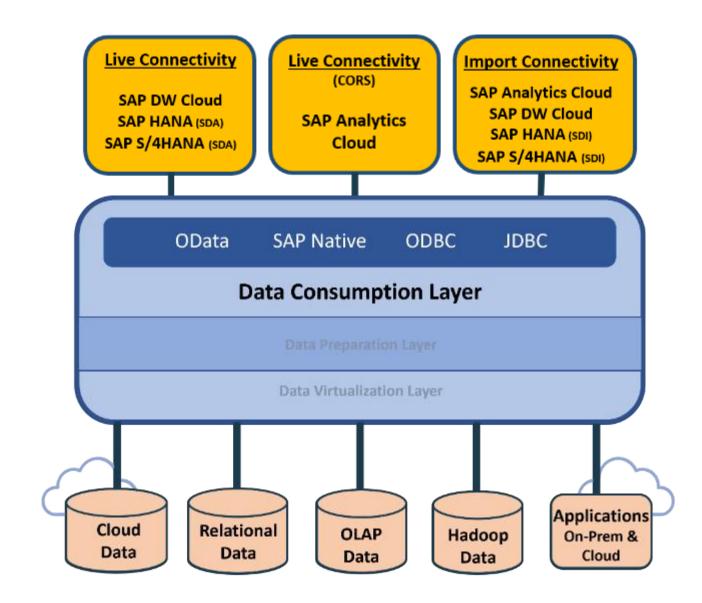


Other Data



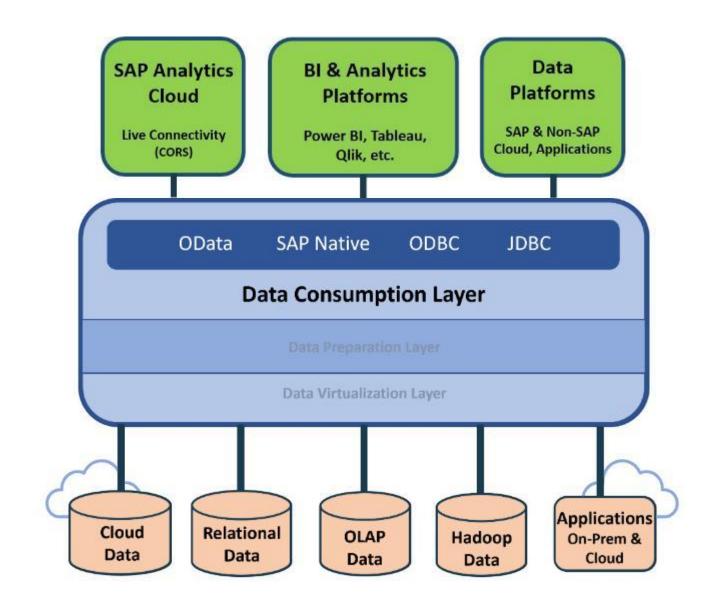
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APOS Live Data Gateway – SAP Landscape





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

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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 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

Instance Management

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

Schedule Management

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

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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QUESTIONS?

Please enter your questions in the Q&A panel.



Thank You!

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