

Webinar

Leistungsstarke Live-SAC-Konnektivität
zu all Ihren Unternehmens-Datenquellen



Today's Session

Key Topics

- SAP Analytics Cloud Connectivity Options
- Live Data Connectivity for SAC
- APOS Live Data Gateway
 - Overview
 - Security
 - Performance
 - Data Transformation
 - Expanded Connections
 - Expanded Consumption

- Q&A – see webinar console

Today's Presenters



MICHAEL MÜLLER

Sales Development
APOS



ALAN GOLDING

Solution Consulting Manager
APOS

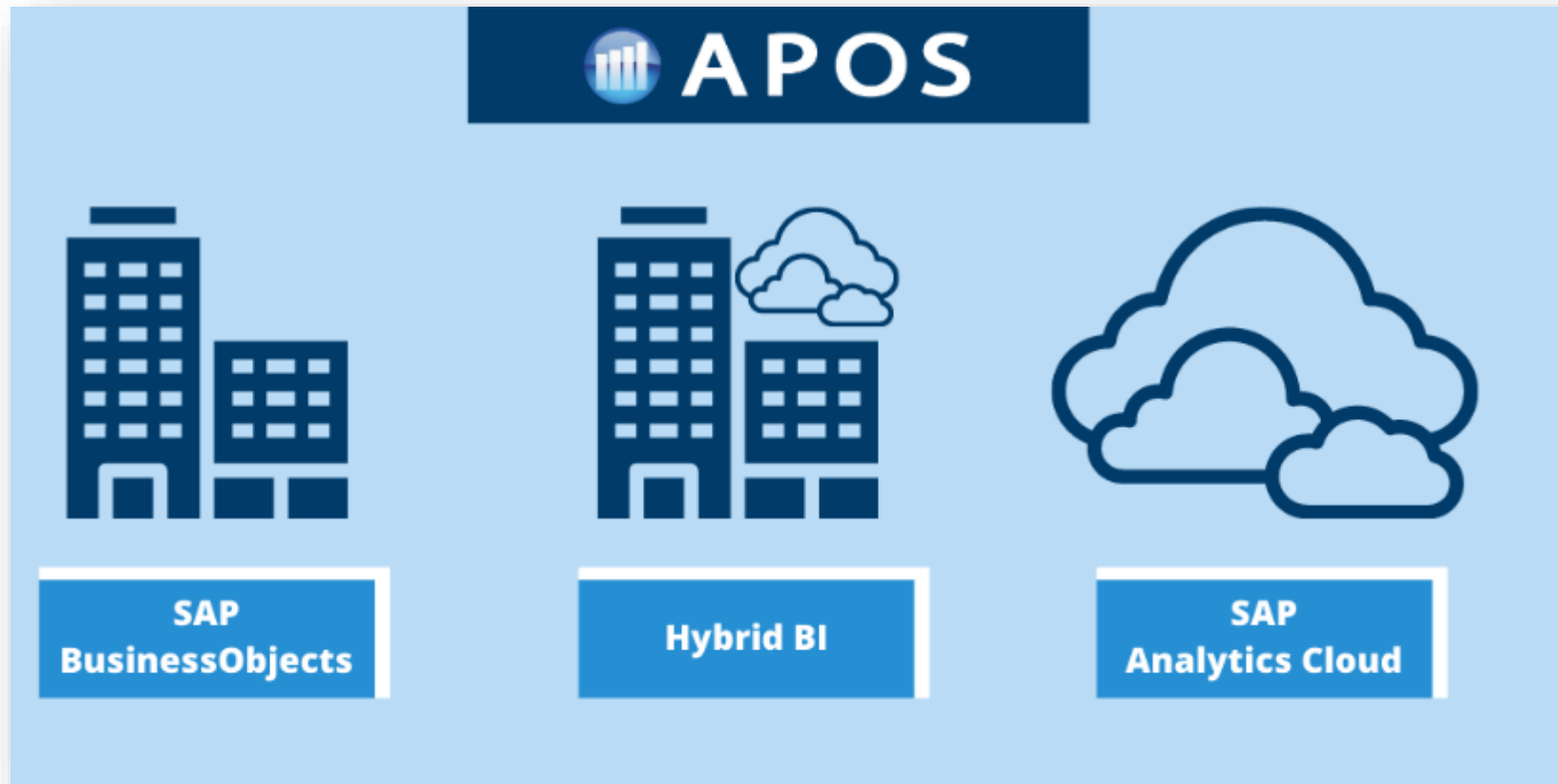
Who is APOS?

- 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

About APOS

- APOS Systems Inc. formed in 1992
- Focus on BI & Analytics solutions
- Software solutions to enable BI platform management, BI report publishing, and analytics data connectivity
- Simplifying, automating, extending SAP BusinessObjects, SAP Analytics Cloud, and SAP data analytics
- Strategic SDK development and consulting
- Hundreds of customers globally





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





HOUSEKEEPING



You will have access to the slides via email



You will get the recording within 24 hours

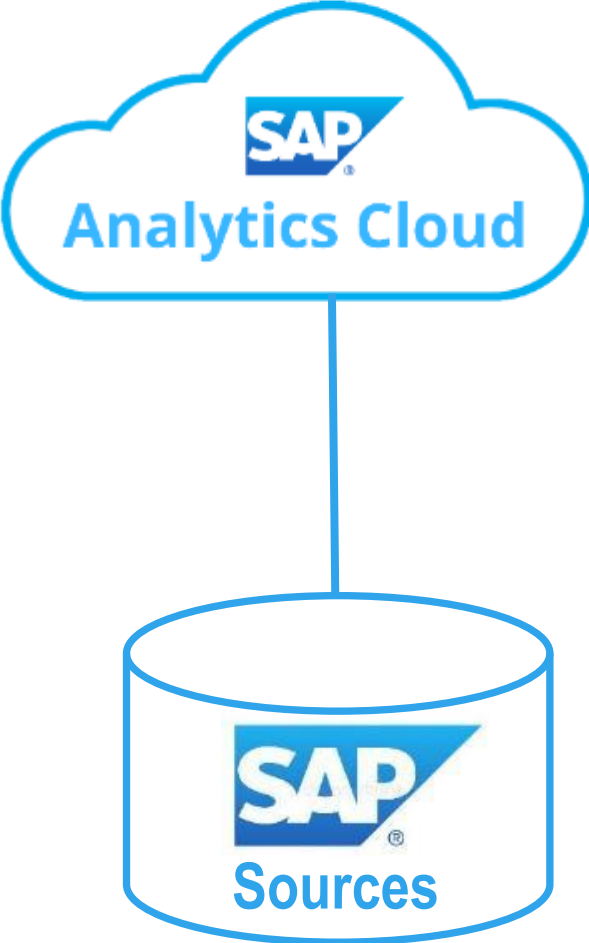


Tell us how we did in the survey

SAC Connectivity – SAP Sources

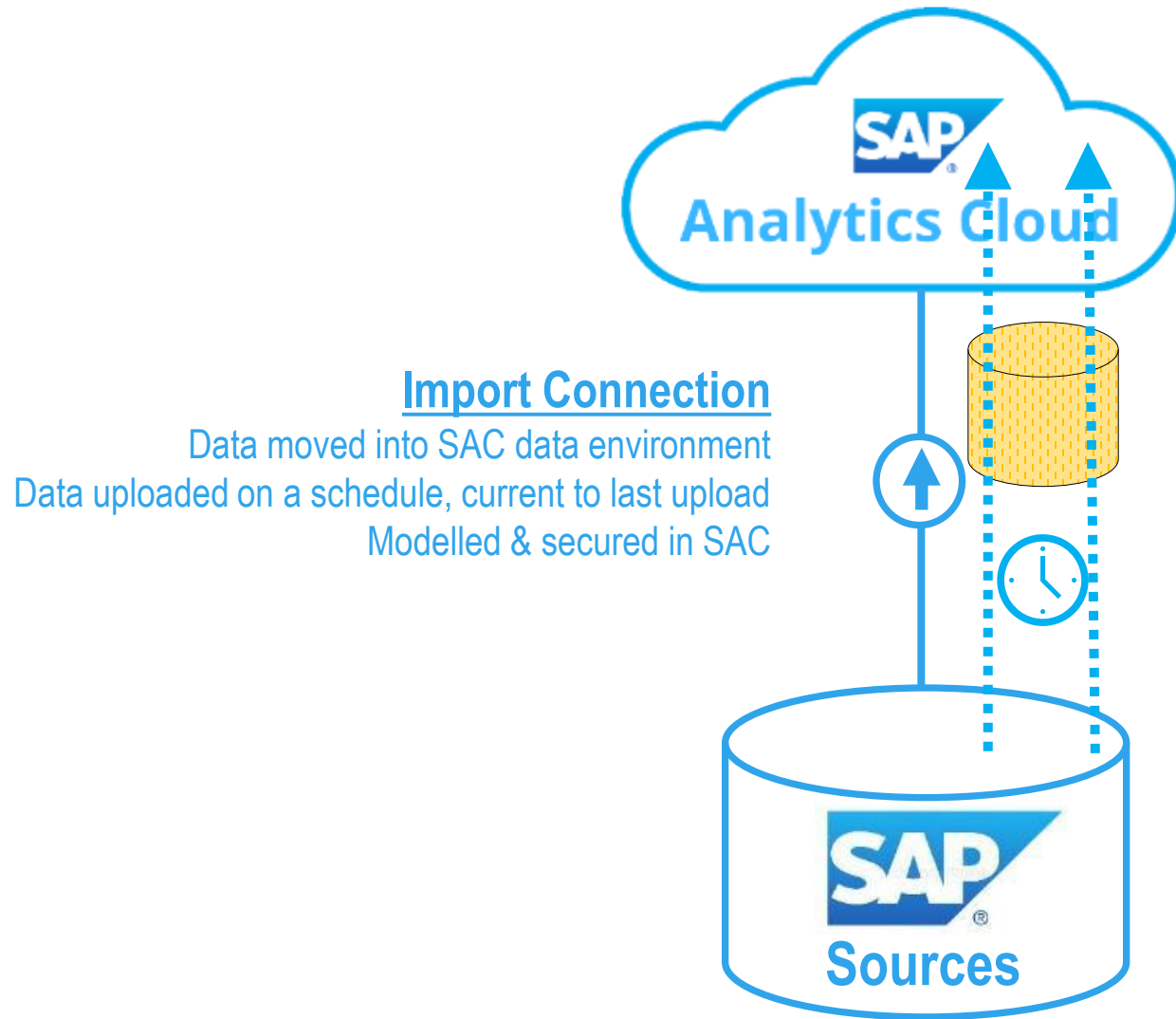


Import Connection

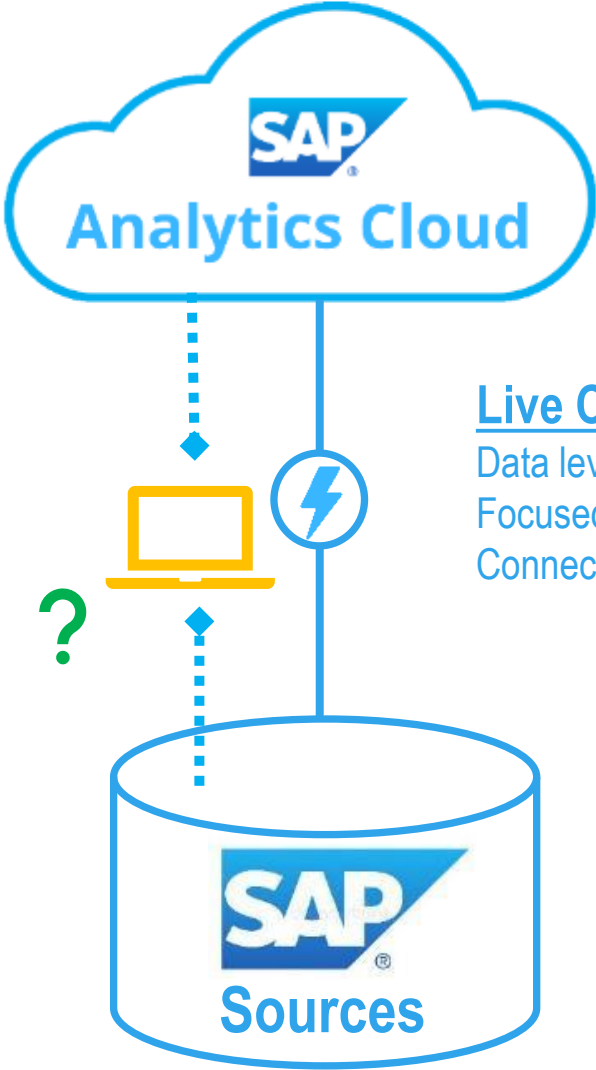


Live Connection

Import Connectivity



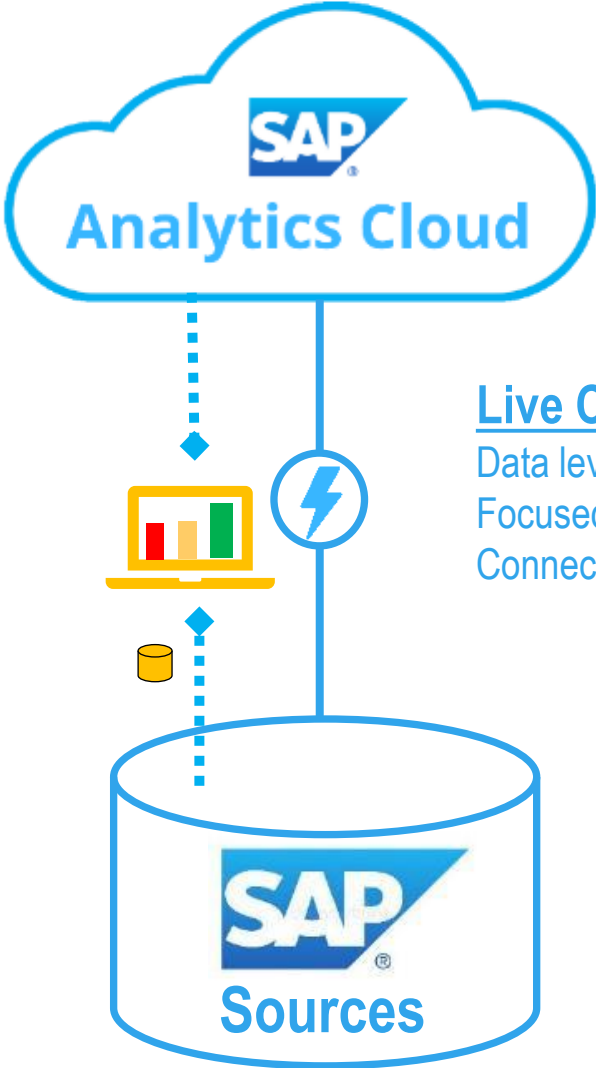
Live Connectivity



Live Connection

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

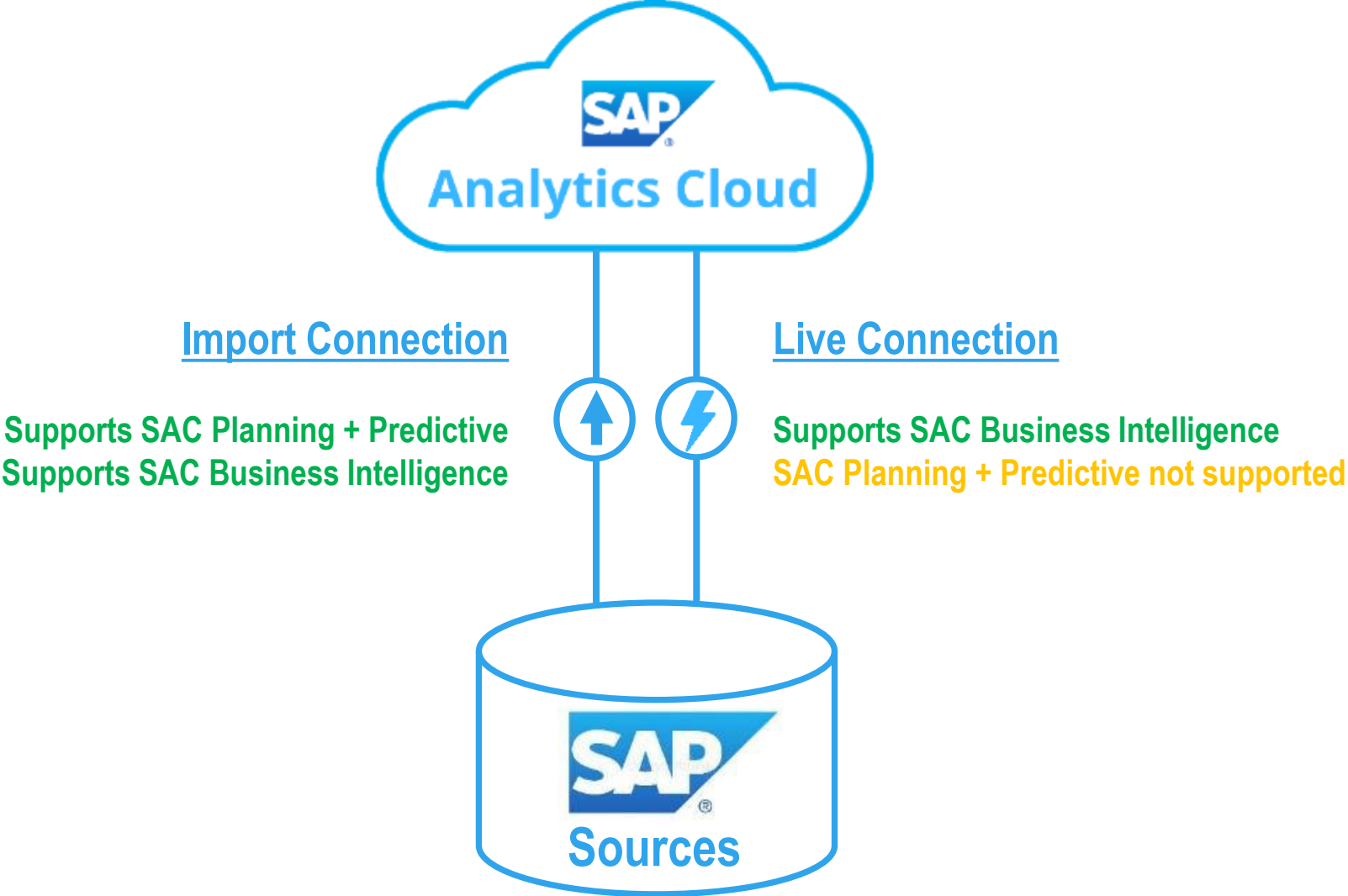
Live Connectivity



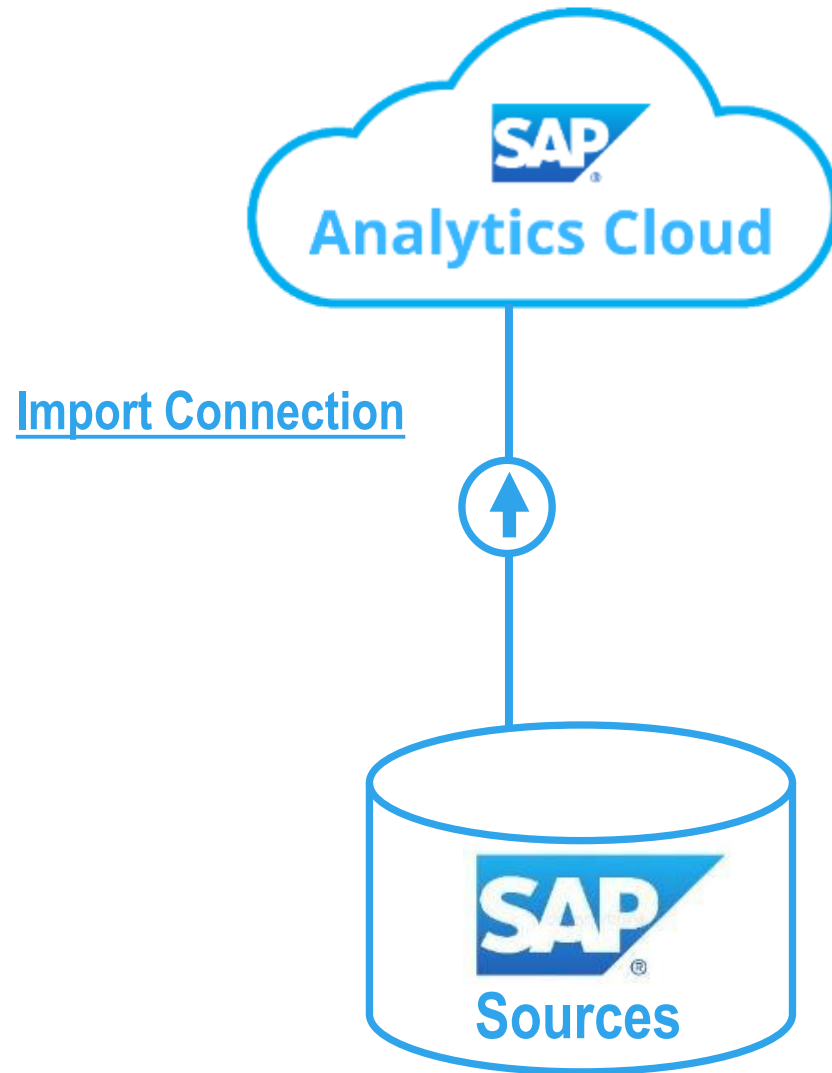
Live Connection

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:

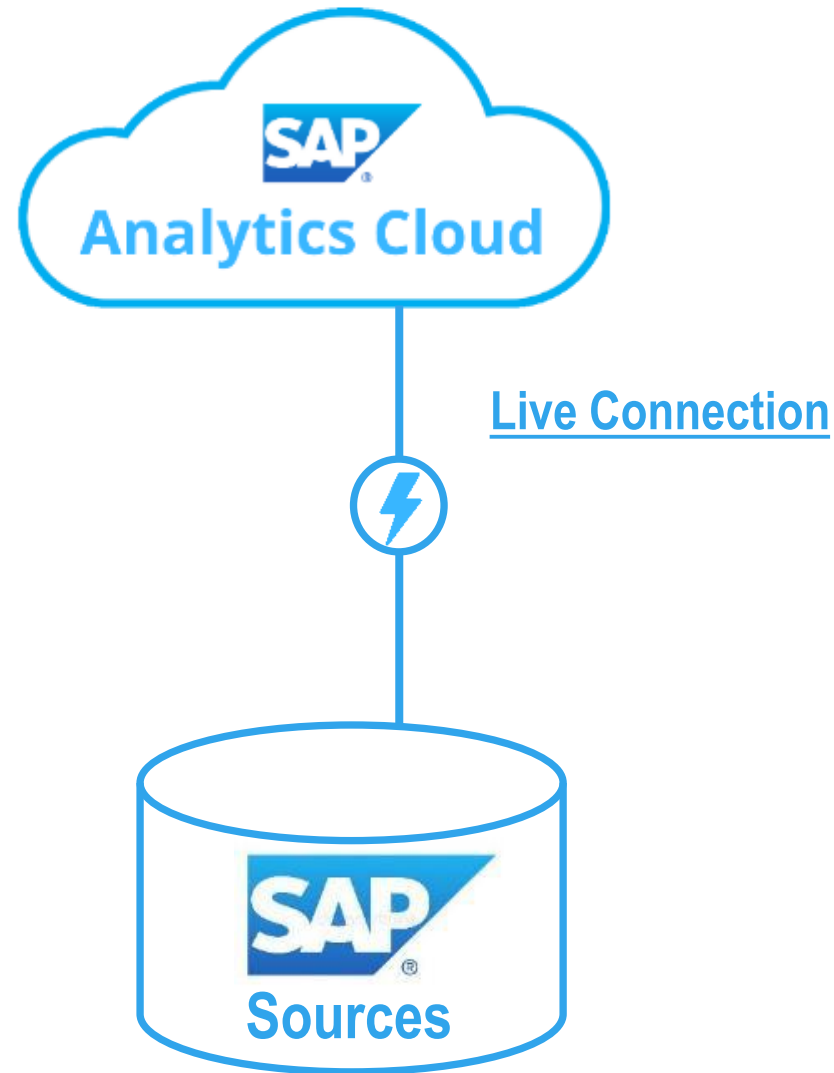
- Columns: 100
- Rows: 800,000
- Dimension members:
 - Planning models: 250,000
 - Analytic models: if there are more than 250,000 unique members, the dimension will be made read-only
- Dimension members with attributes: 150,000
- Dimension members with geo enrichment: 200,000
- Dimension members in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

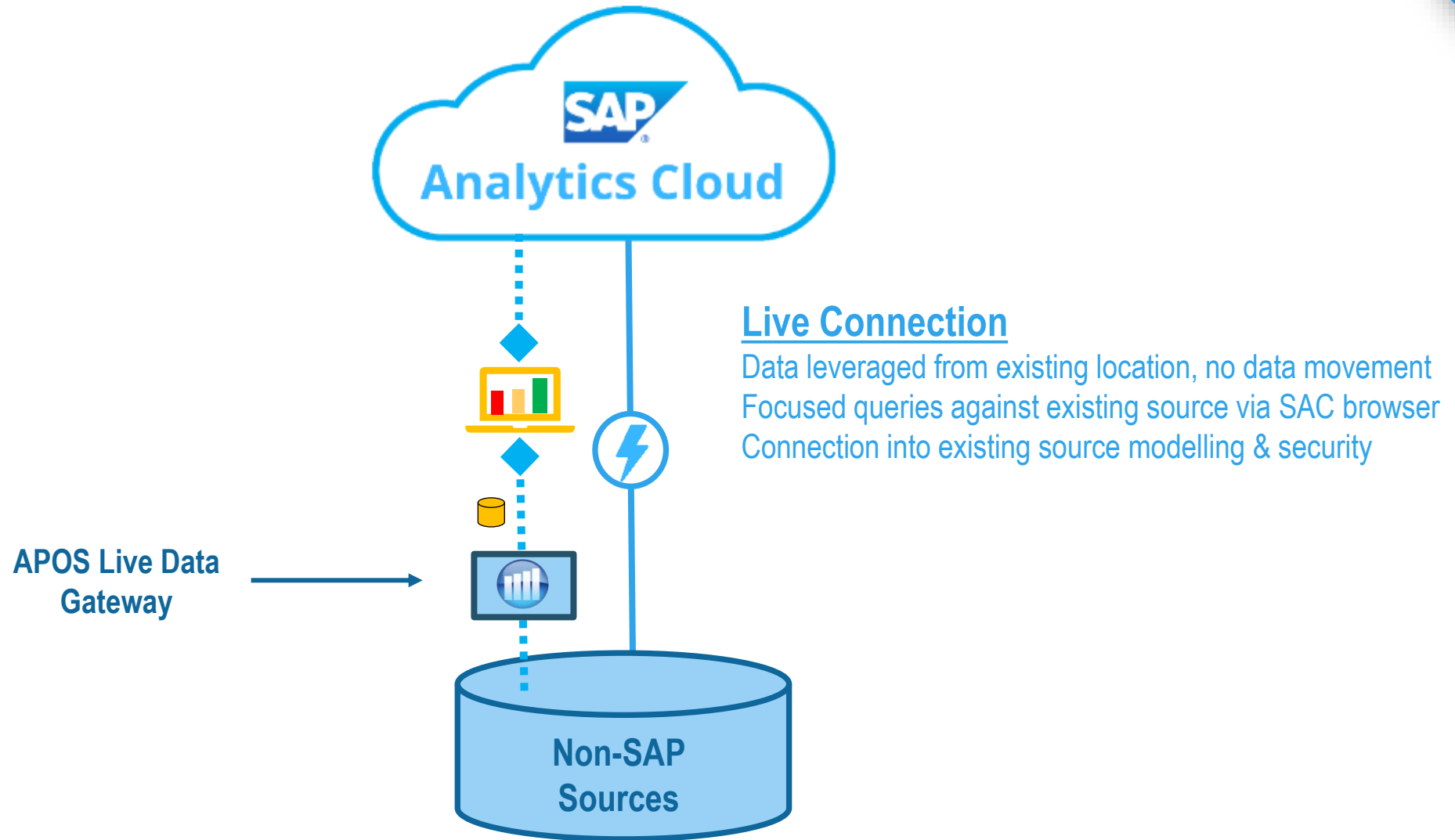
The APOS Live Data Gateway is available on the [SAP App Center](#).

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



Data is always current



No movement or importing of data



Data never leaves the firewall



Leverage existing data modelling



No added data storage requirements



Leverage existing security models



Reduce data bandwidth requirements

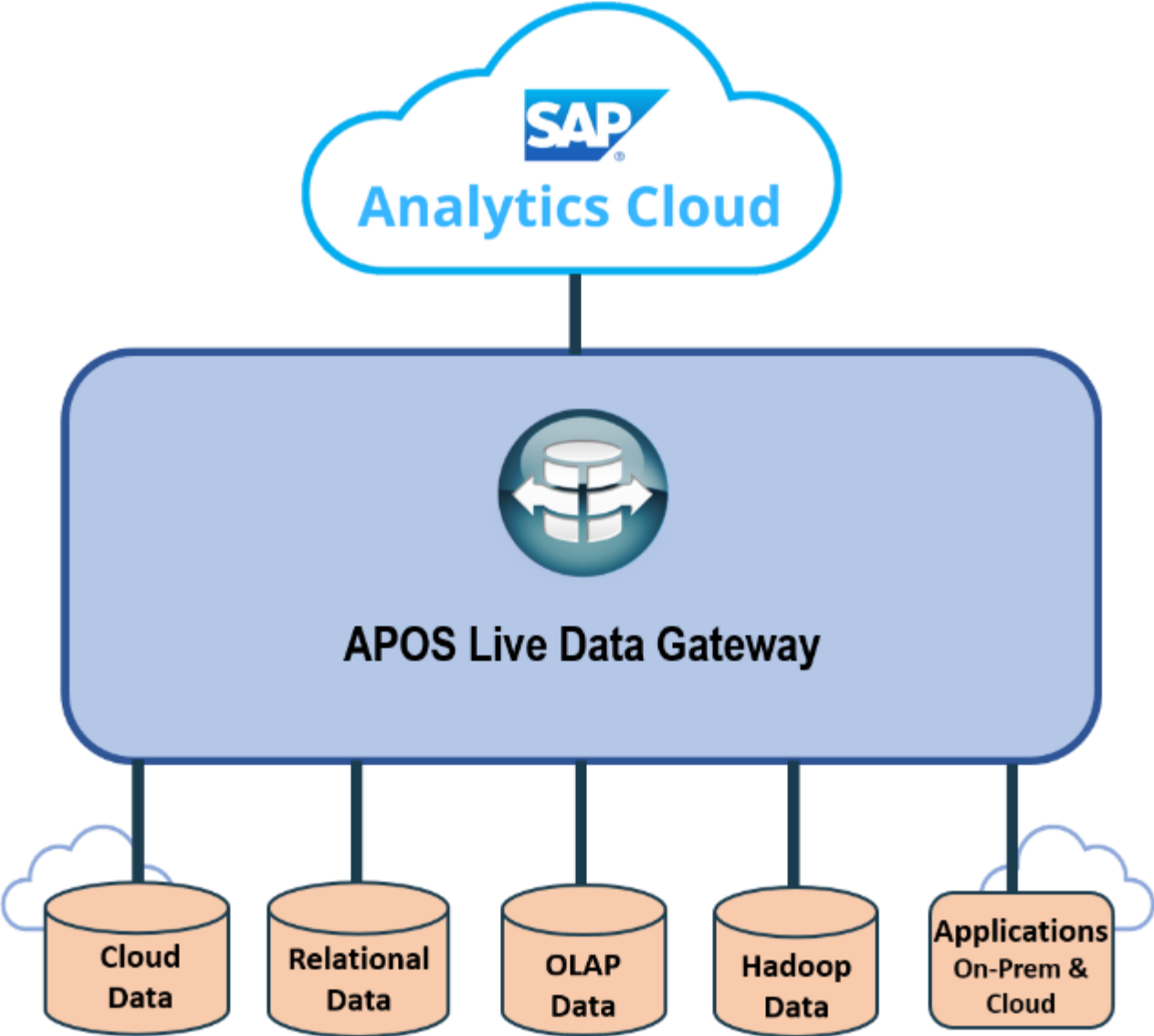


Available on
SAP Store



Alan Golding
Solution Consulting Manager
APOS

APOS Live Data Gateway



Supported Sources



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

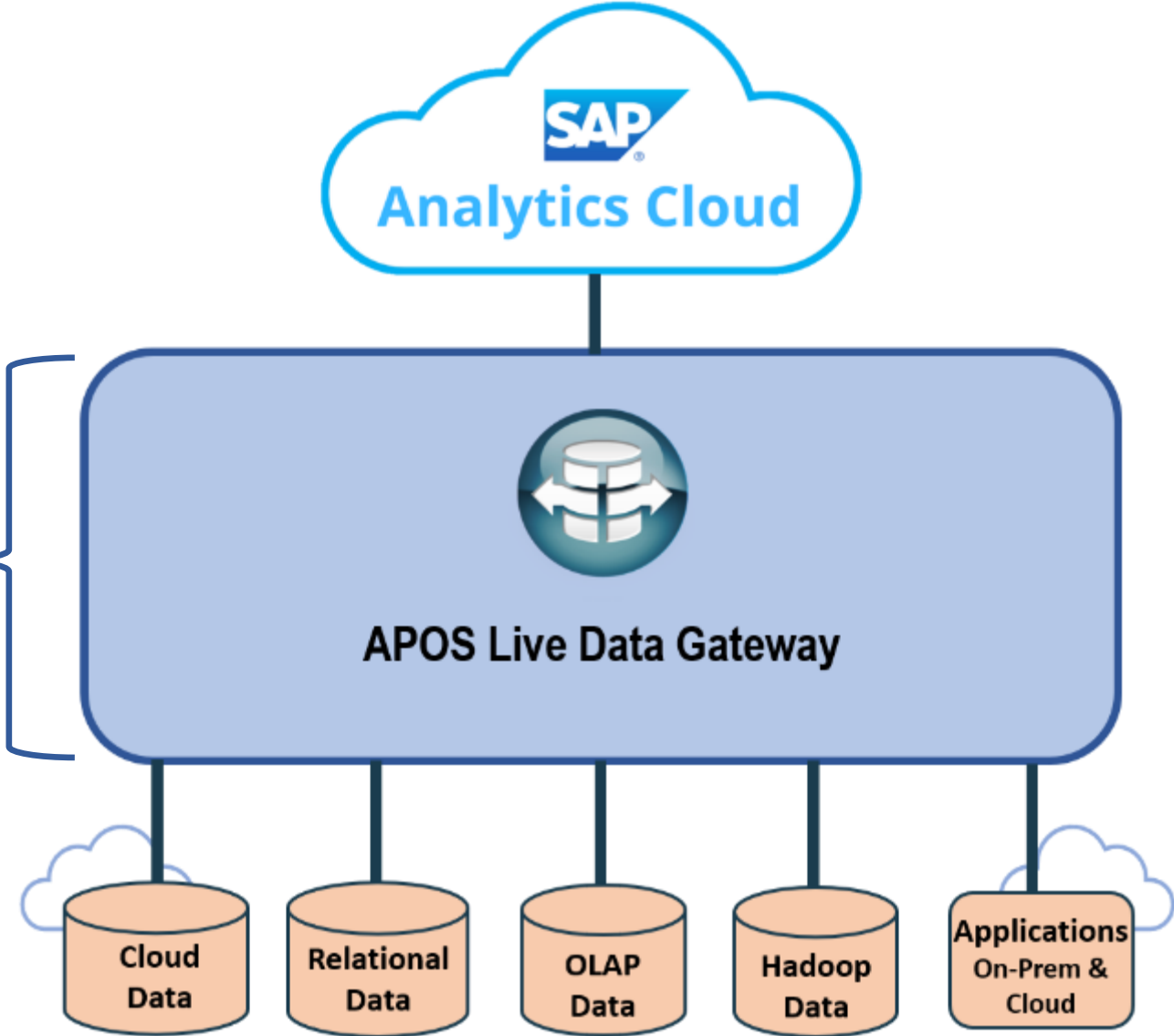
Extended Data Sources: 100+ Additional data source and application connection options

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

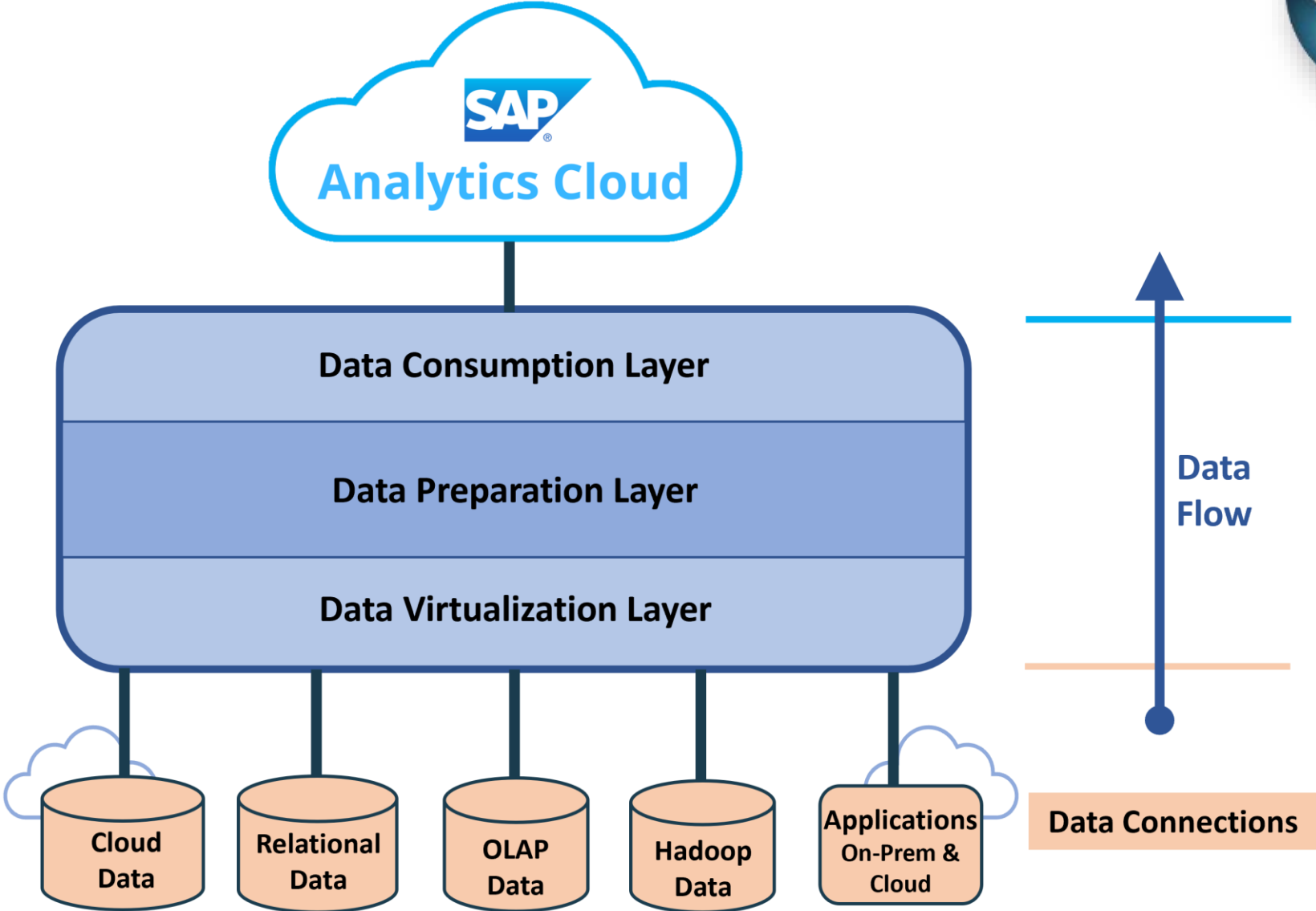
Live Data Gateway Server



- Windows server
- Managed & controlled by customer
- Deployed on-premise or in customer's cloud environment



APOS Live Data Gateway



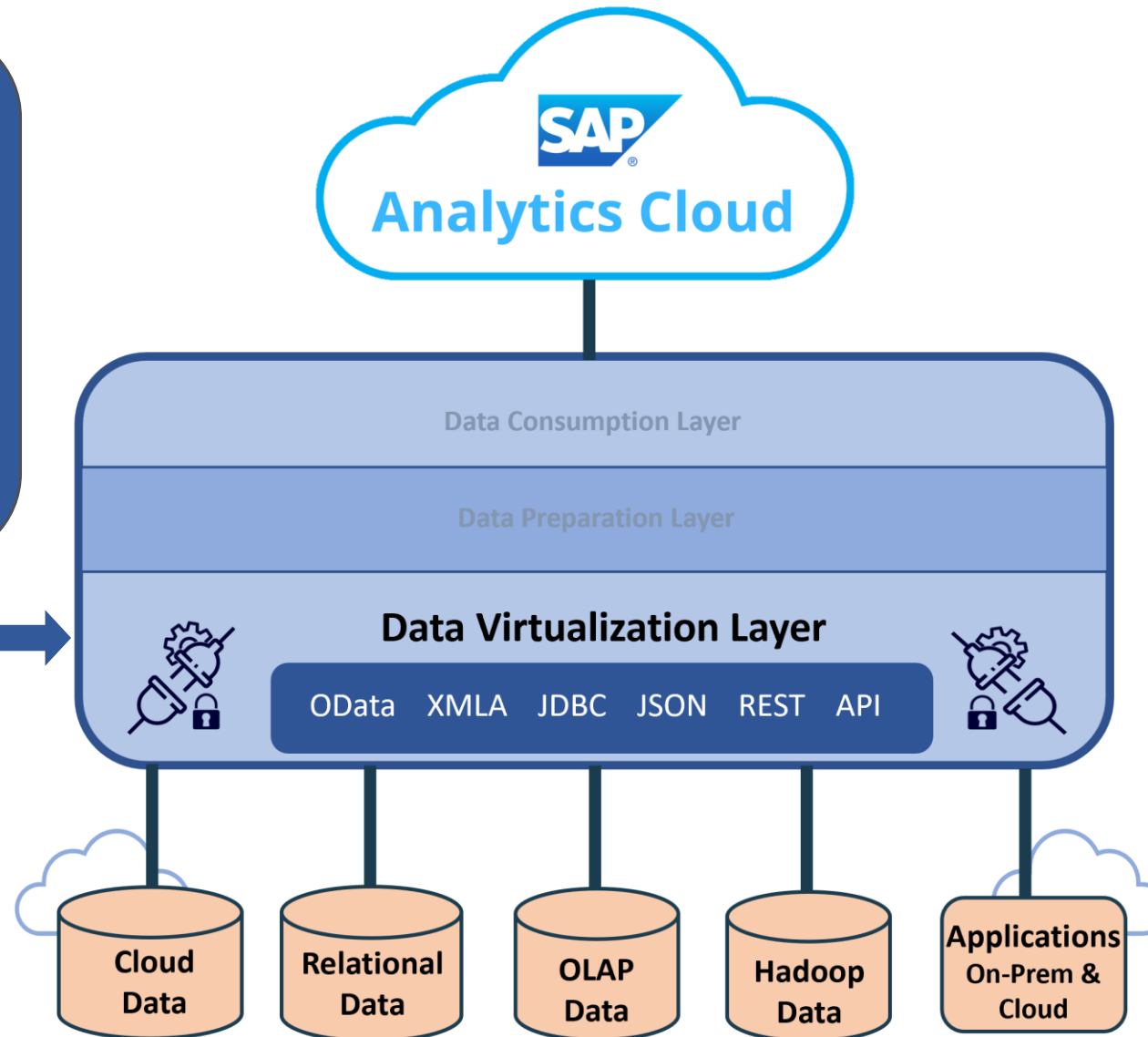
Database Connection Layer



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)



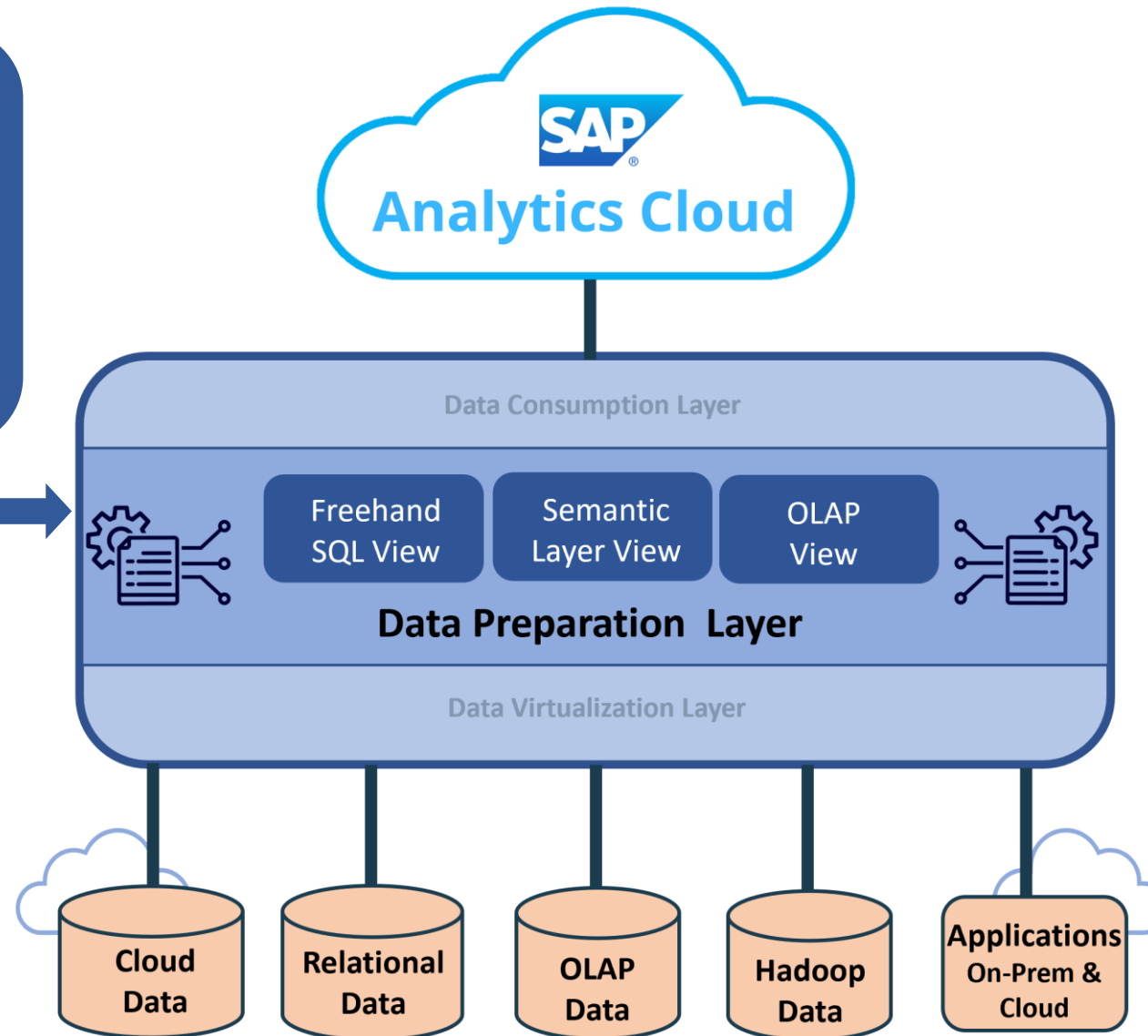
Data Preparation Layer



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



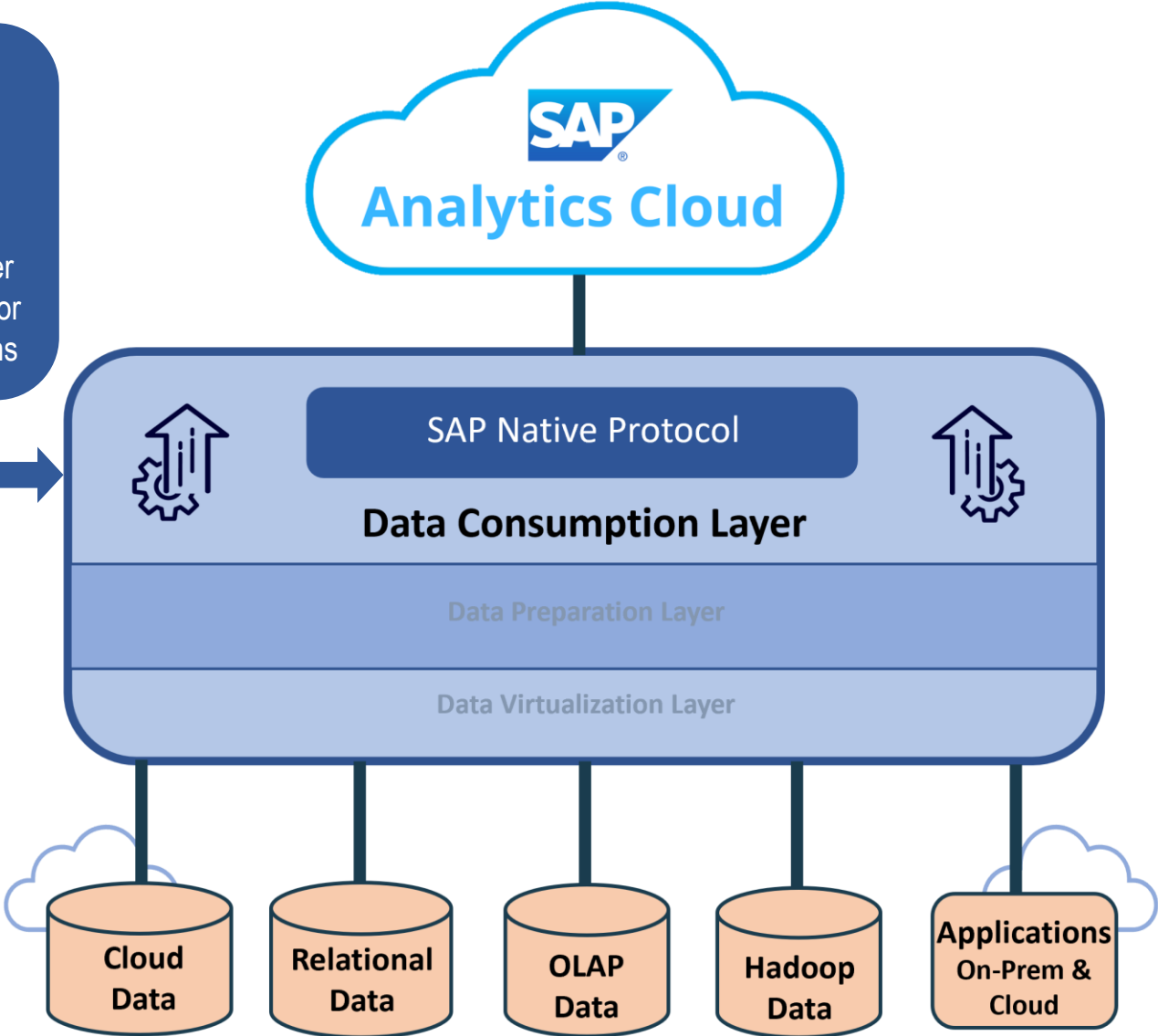
Data Consumption Layer



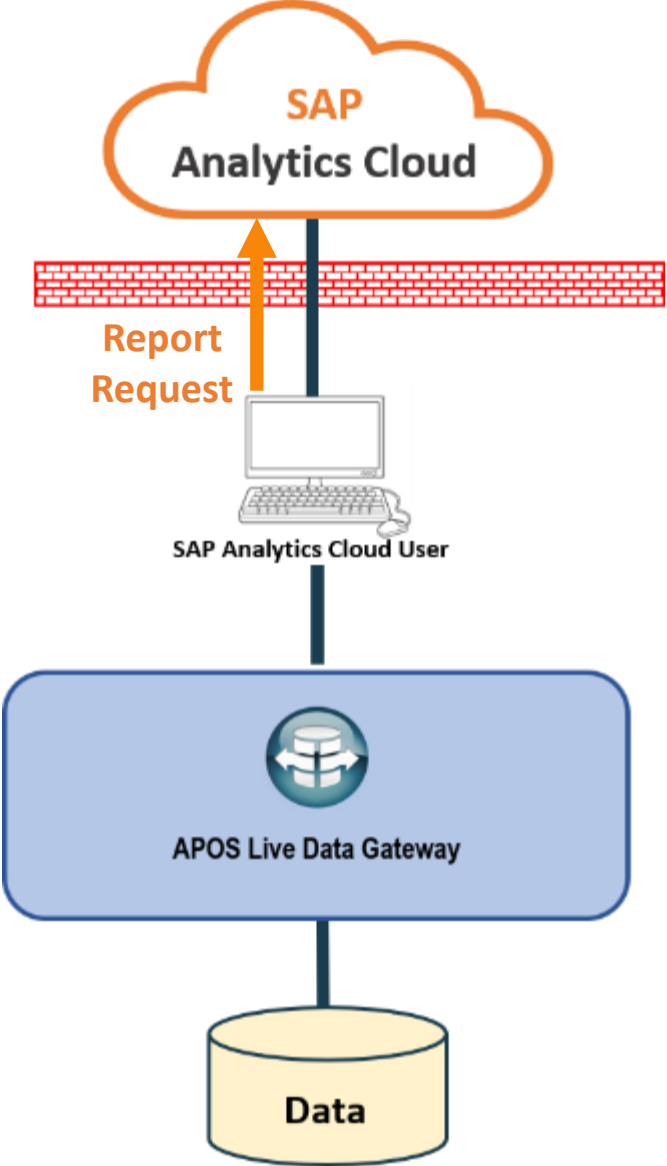
Data Consumption Layer

Key Functions

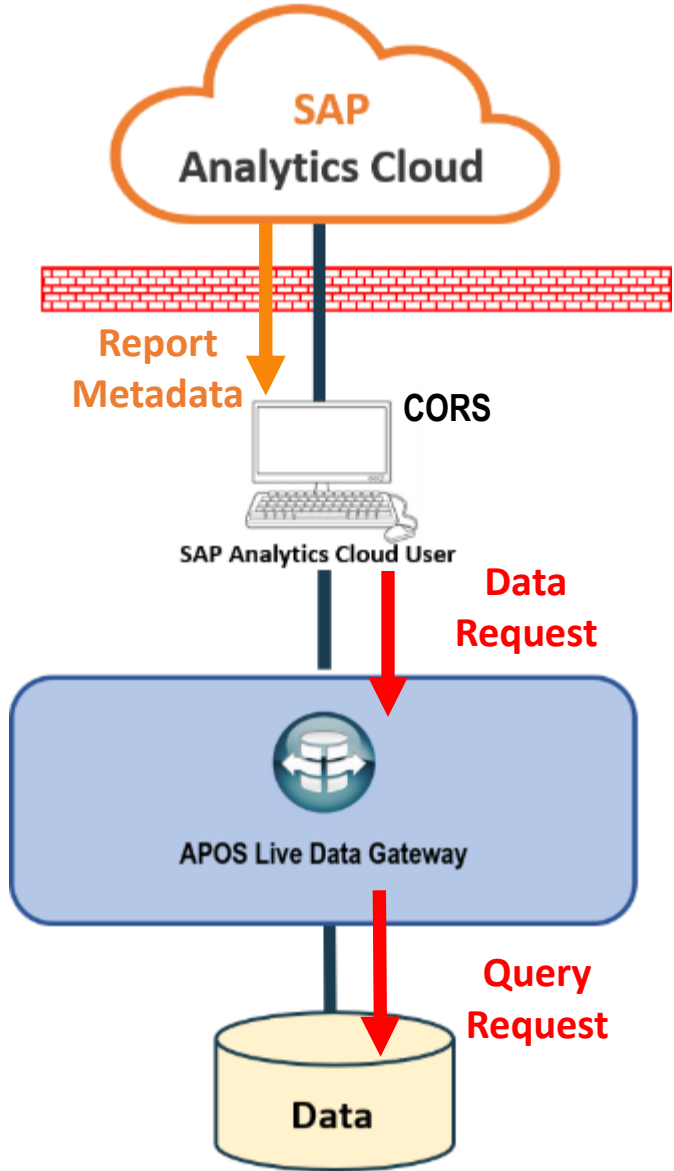
- Establish direct connectivity and communication with SAC User browser
- Supply data via SAP Native Protocol for SAC Story and SAC Application actions



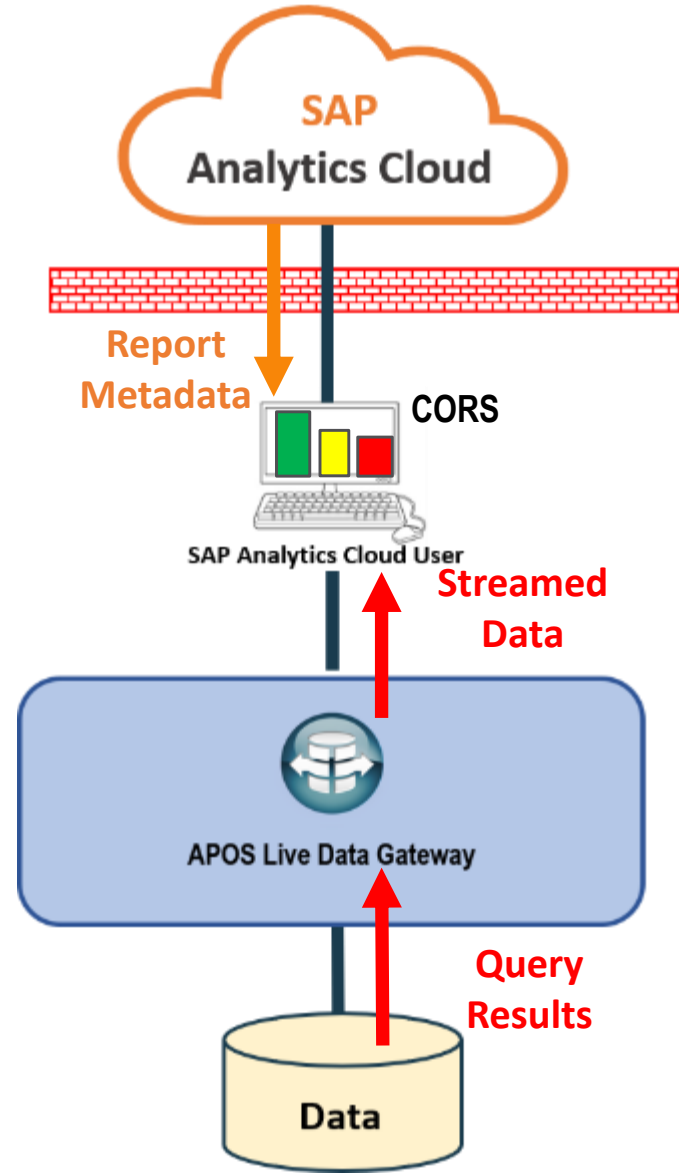
Data Consumption Flow



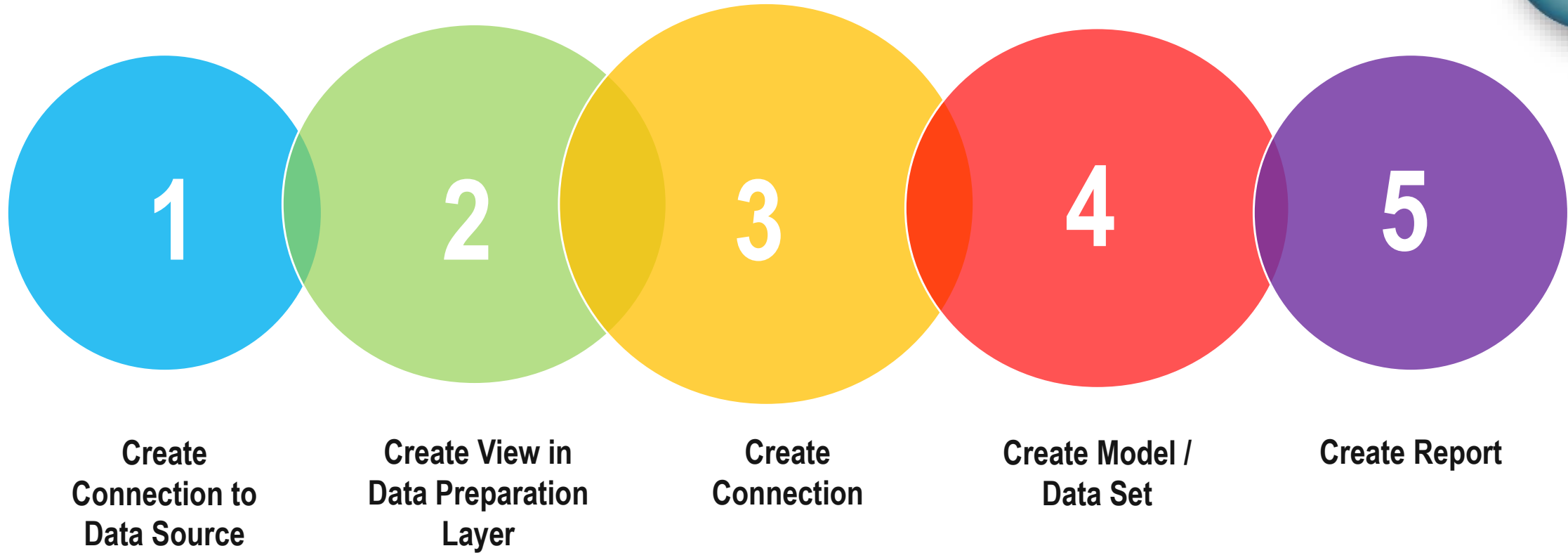
Data Consumption Flow



Data Consumption Flow



5 Simple Steps to Live Connectivity





Solution Overview

To view demonstrations and videos from this presentation, [view the webinar on demand](#)



Performance

To view demonstrations and videos from this presentation, [view the webinar on demand](#)

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 displays the Snowflake Worksheets interface. On the left, a sidebar shows a tree view of database objects under 'SNOWFLAKE_SAMPLE_DATA', including 'TPCDS_SF100TCL'. The main workspace contains a SQL query editor with the following code:

```
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:

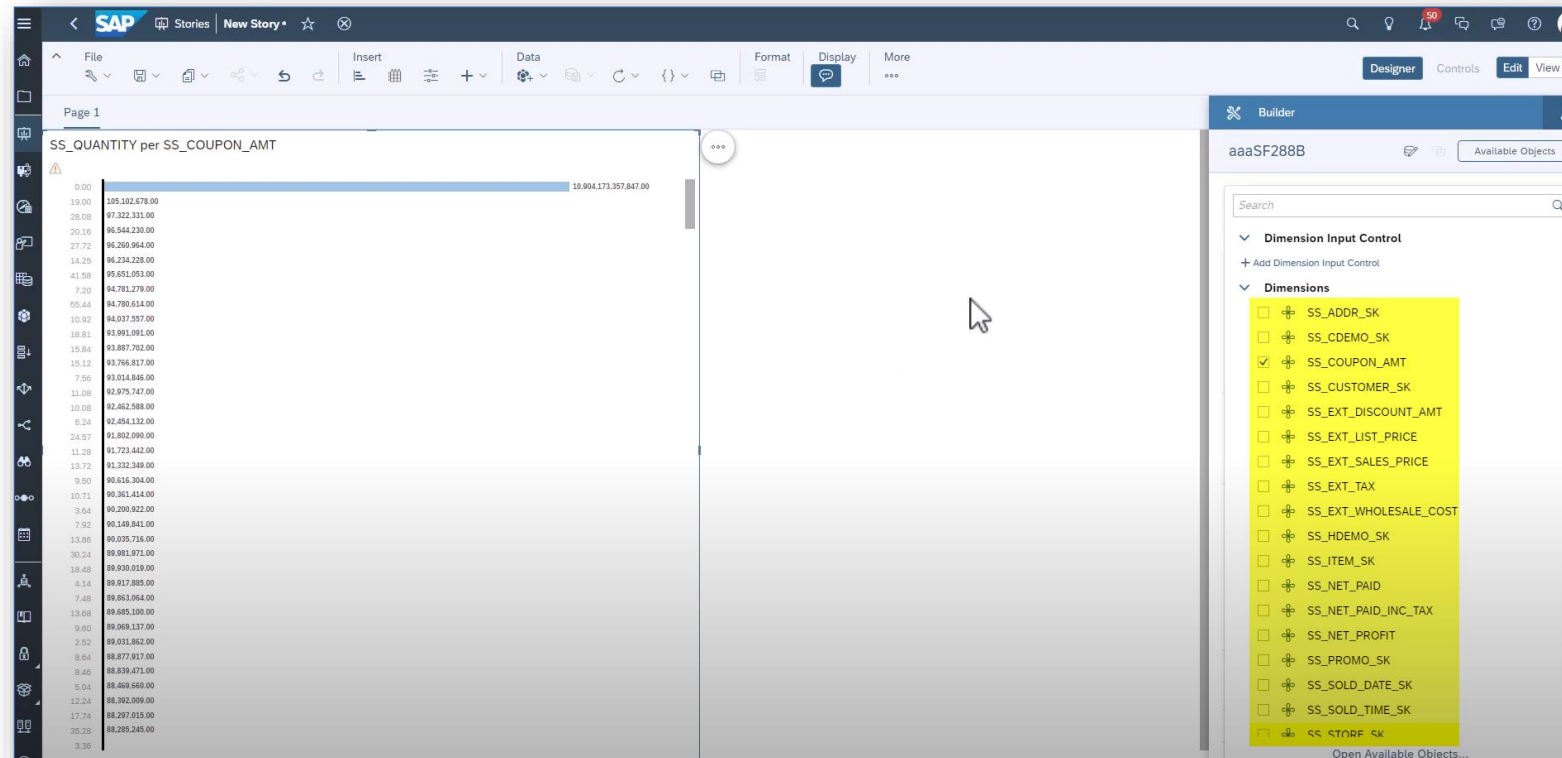
Query ID	SQL	43ms	1 rows
1			288010550524

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 to execute, and returned 1 row. The results table is as follows:

Row	COUNT(1)
1	288010550524

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



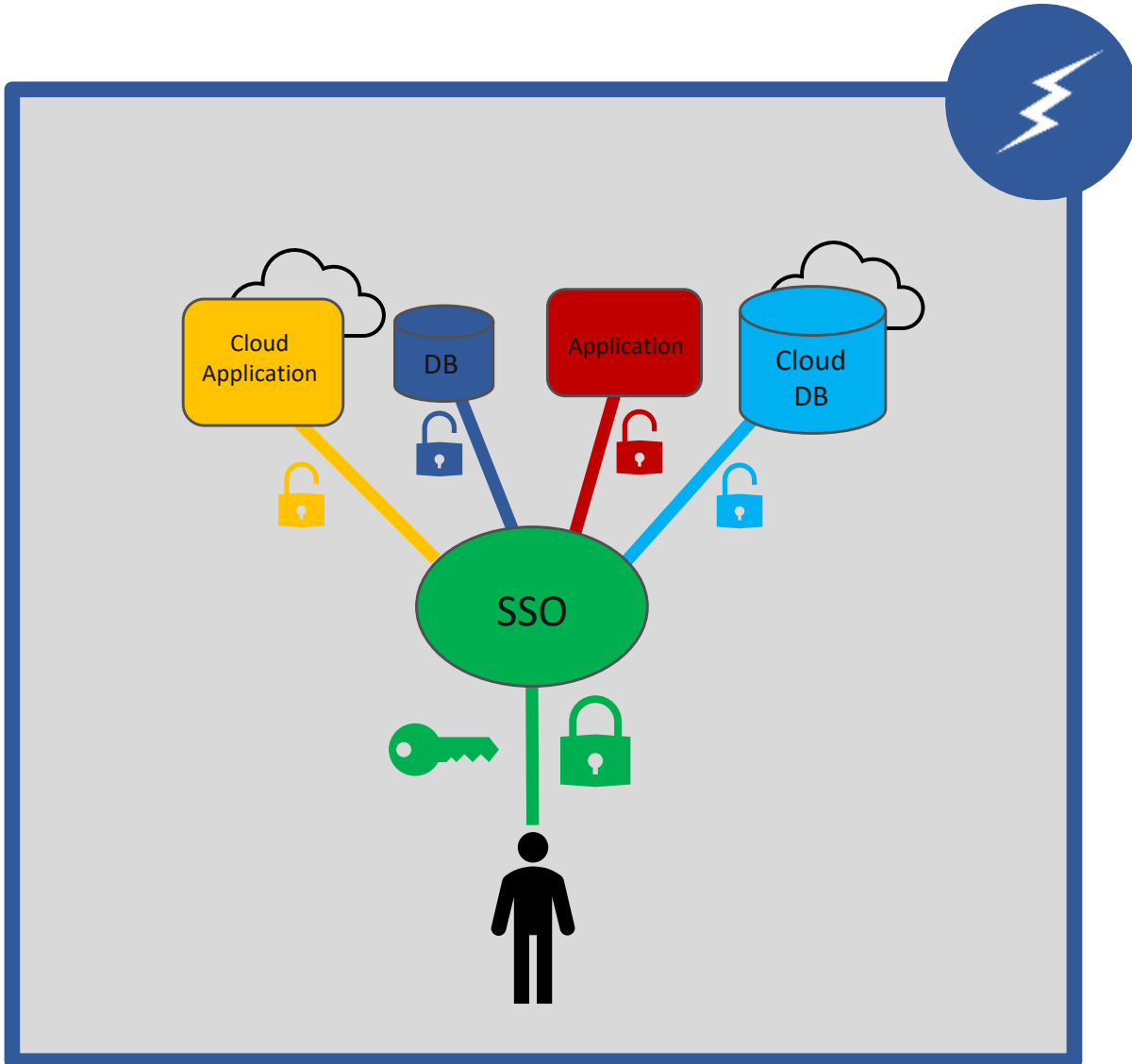
Security

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APOS Live Data Gateway – Security



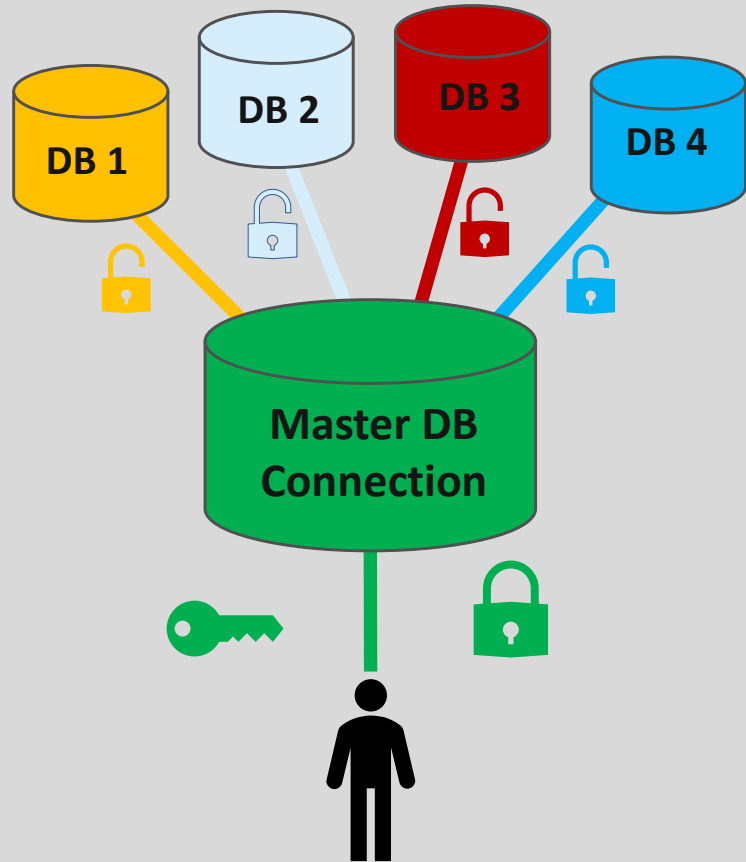
Single Sign On



- 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



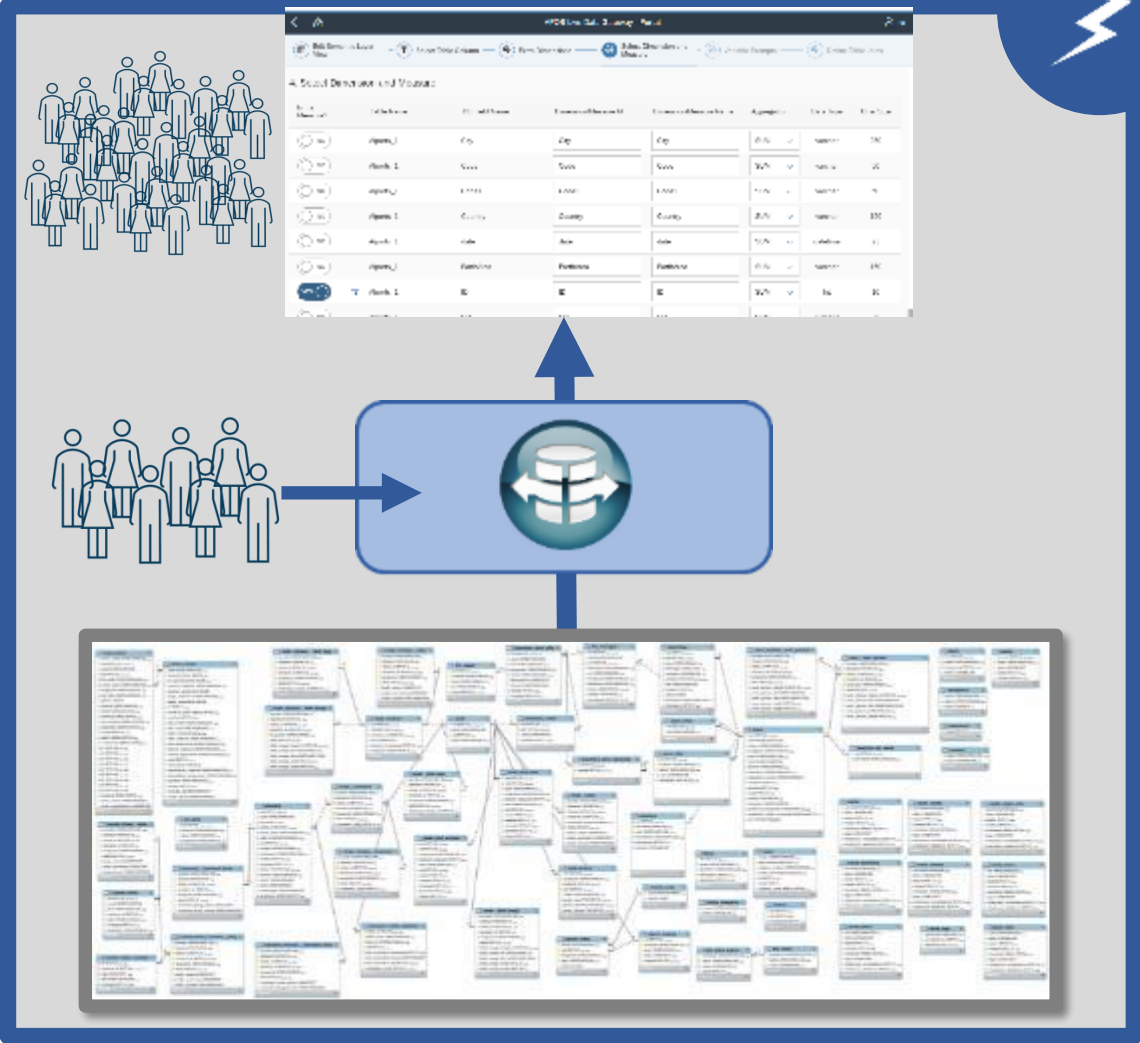
Data Transformations

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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

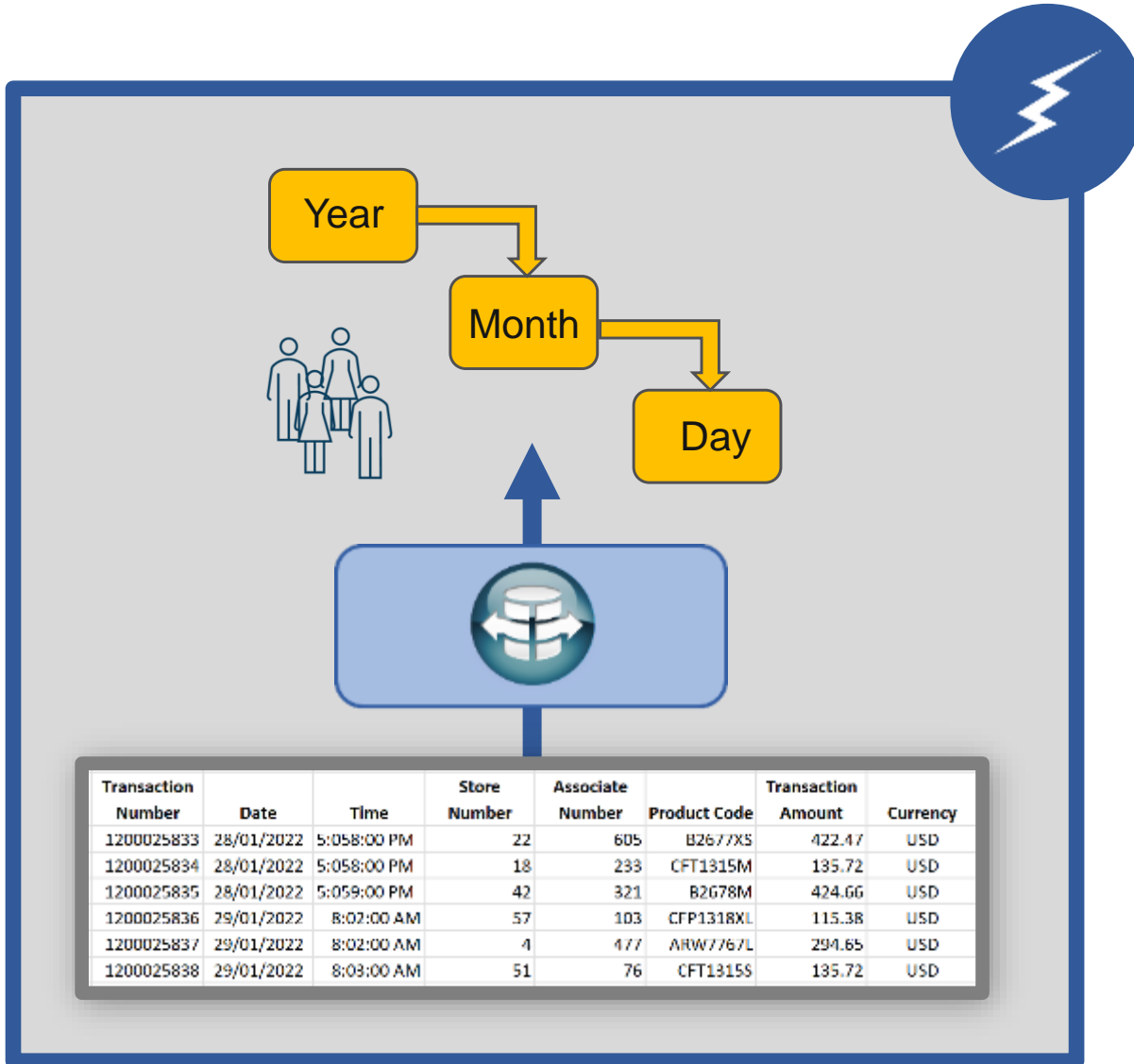
APOS Live Data Gateway – Data Transformations



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



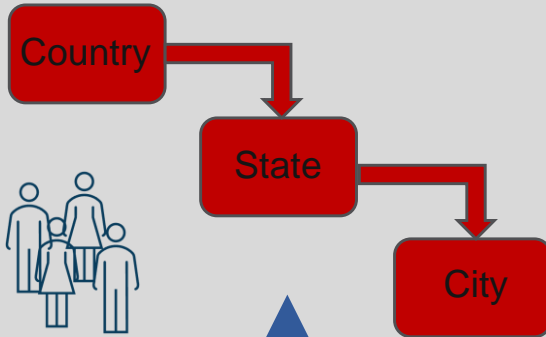
APOS Live Data Gateway – Data Transformations



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

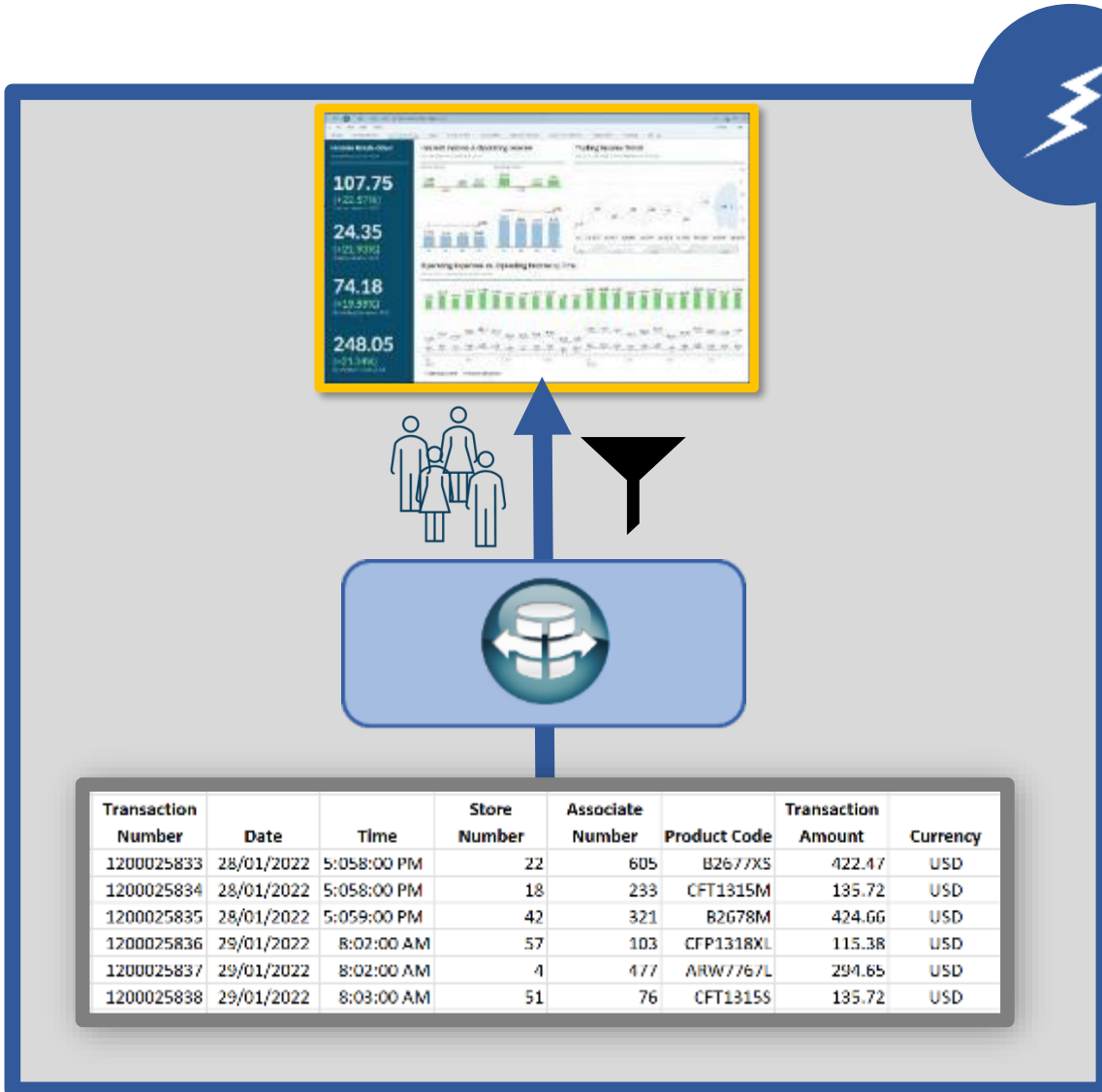
APOS Live Data Gateway – Data Transformations



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



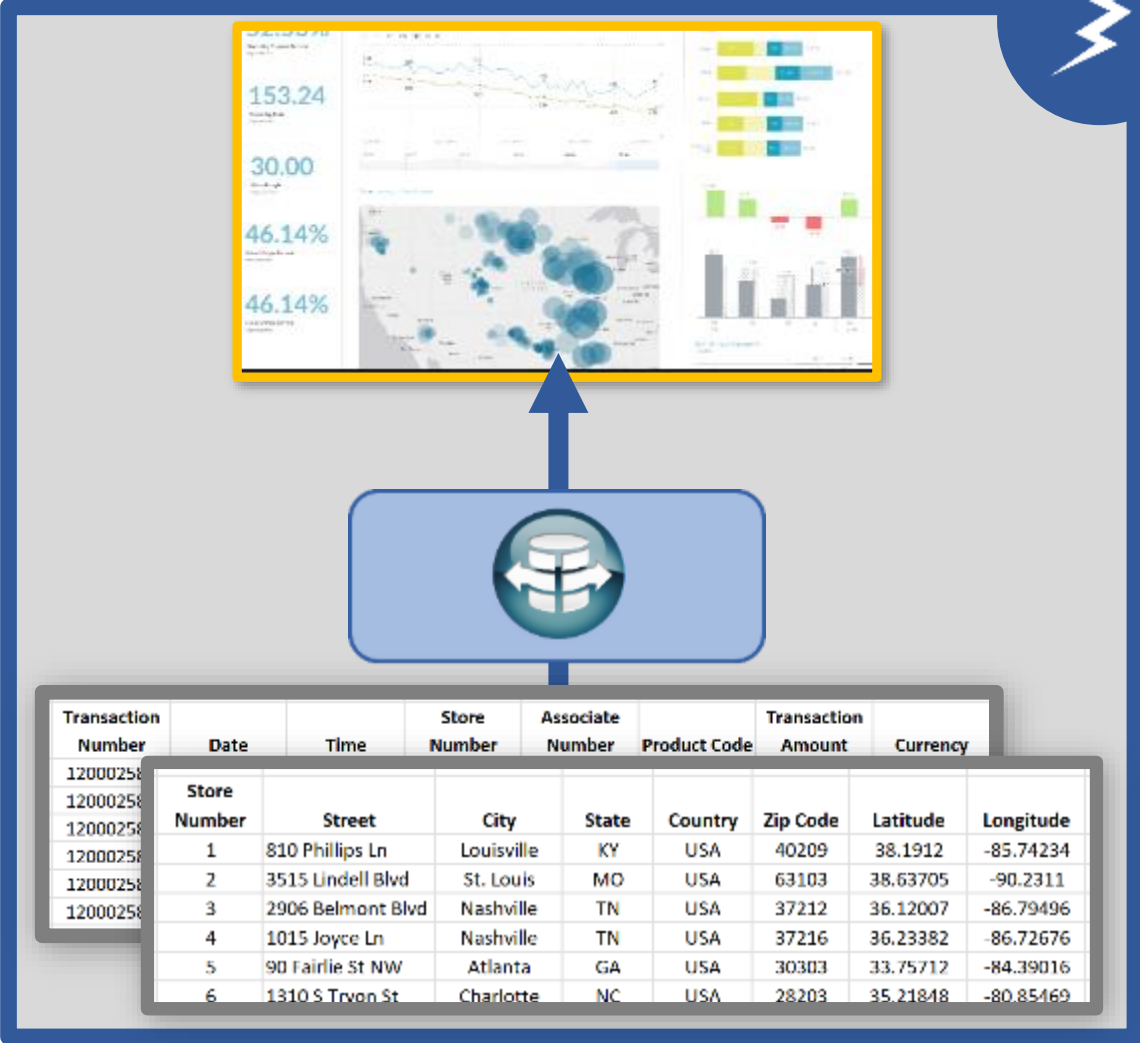
APOS Live Data Gateway – Data Transformations



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





Expanded Connections

To view demonstrations and videos from this presentation, [view the webinar on demand](#)

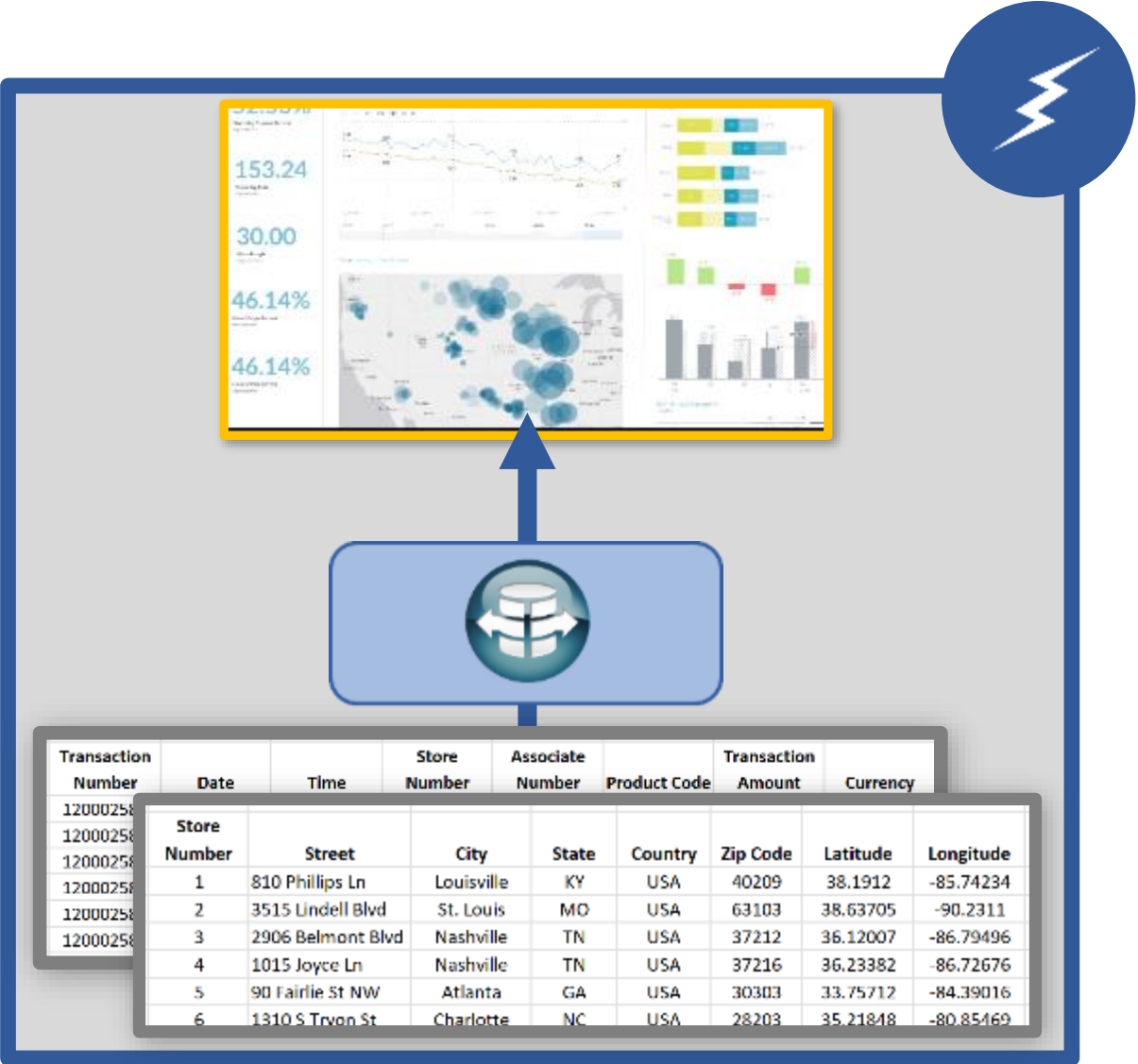
APOS Live Data Gateway – Cloud Data Sources



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 – 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 ...
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

APOS Live Data Gateway – Unique Data Sources



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

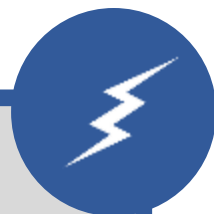
The screenshot shows a Google Analytics dashboard with a yellow box highlighting a summary section containing the following data:

- 153.24
- 30.00
- 46.14%
- 46.14%

The main dashboard table below is as follows:

Page	Pageviews	Unique Pageviews	Avg. Time on Page	Entrances	Bounce Rate	% Exit	Page Value
1. /	11,334	10,169	00:04:50	8,975	80.39%	79.19%	\$0.00
2. /	3,891	3,455	00:07:48	3,448	87.20%	87.84%	\$0.00
3. /	1,758	1,537	00:02:57	1,333	75.58%	75.09%	\$0.00
4. /	674	646	00:09:43	629	71.50%	82.49%	\$0.00
5. /	629	603	00:10:28	516	75.57%	83.78%	\$0.00
6. /	578	563	00:19:26	569	96.35%	96.66%	\$0.00
7. /	287	276	00:02:53	266	65.54%	68.64%	\$0.00
8. /	179	142	00:12:16	129	66.15%	73.74%	\$0.00
9. /	179	158	00:51:39	151	84.81%	83.24%	\$0.00
10. /	167	156	00:05:24	136	74.64%	85.84%	\$0.00
11. /	160	139	00:06:43	129	54.34%	77.50%	\$0.00

APOS Live Data Gateway – Generic JDBC Connectivity



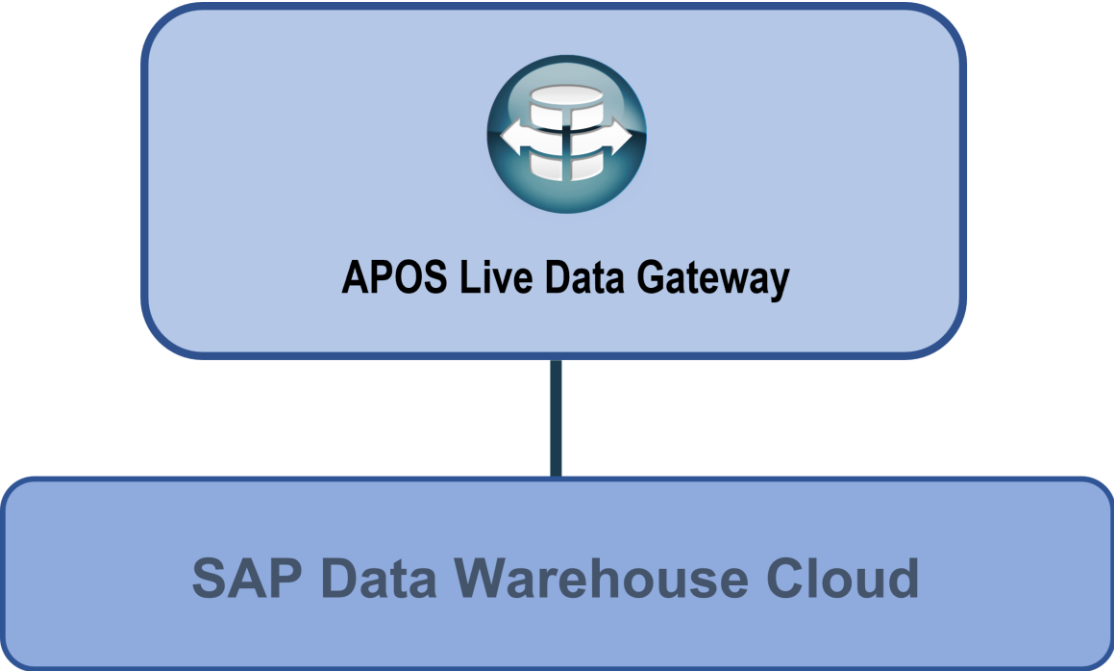
Generic JDBC

- ✓ 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
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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

Live Connectivity to SAP Datasphere





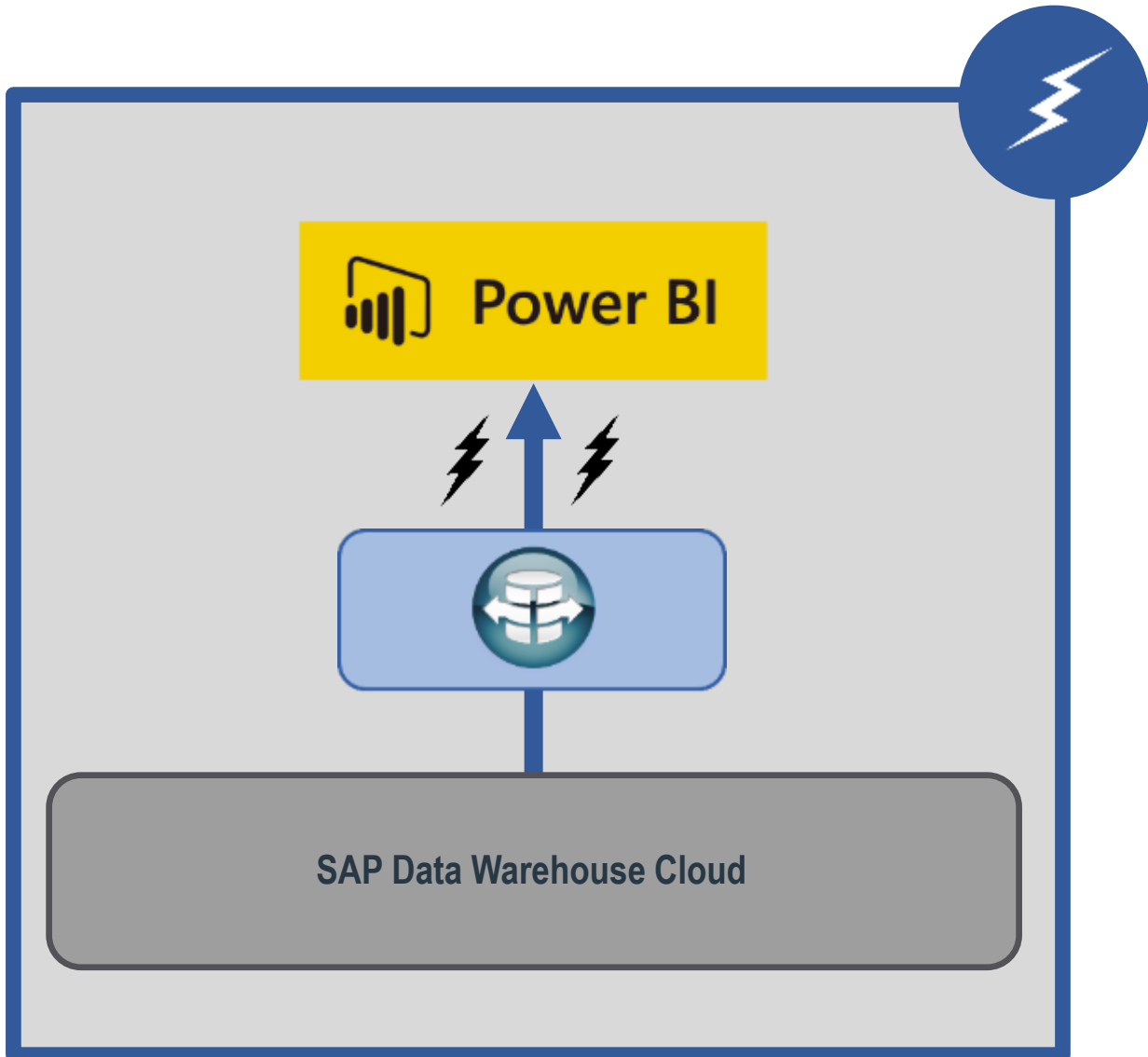
Expanded Consumption

To view demonstrations and videos from this presentation, [view the webinar on demand](#)

APOS Live Data Gateway



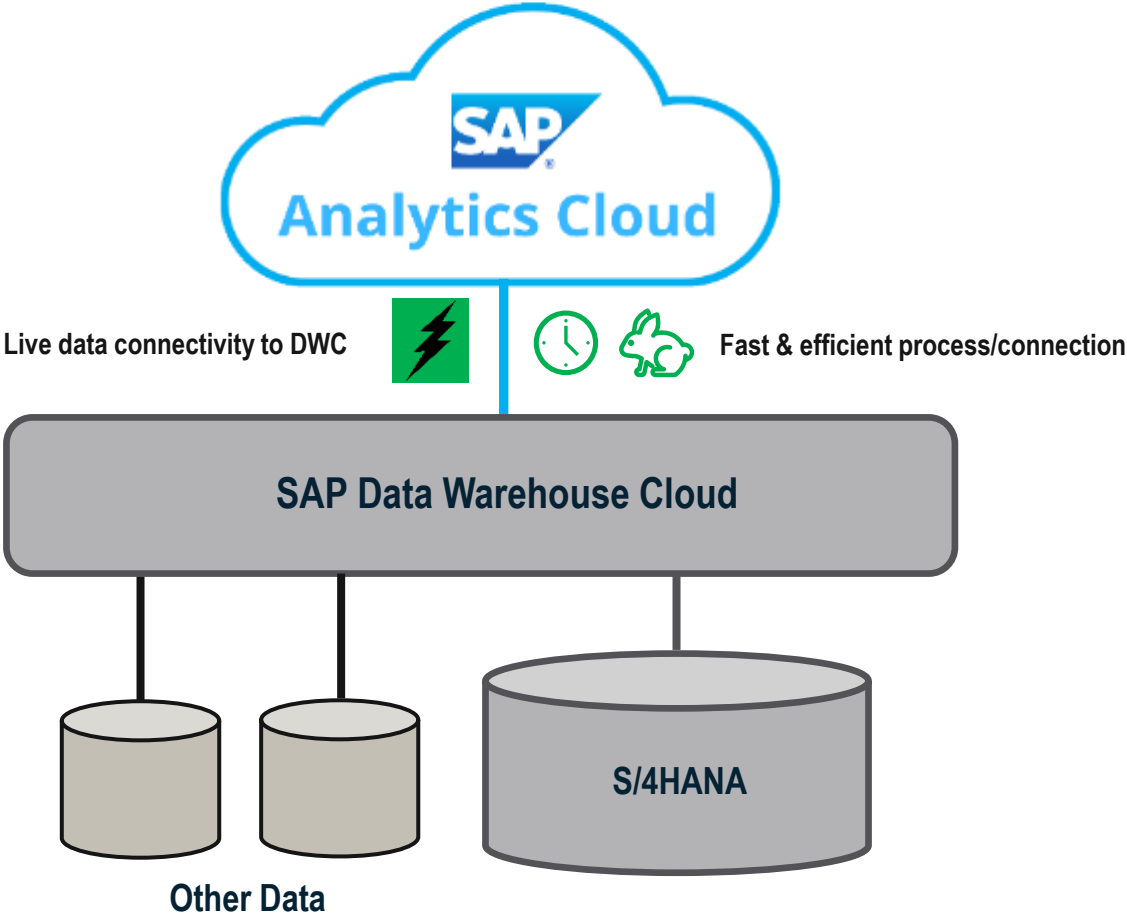
Power BI to SAP Datasphere Support



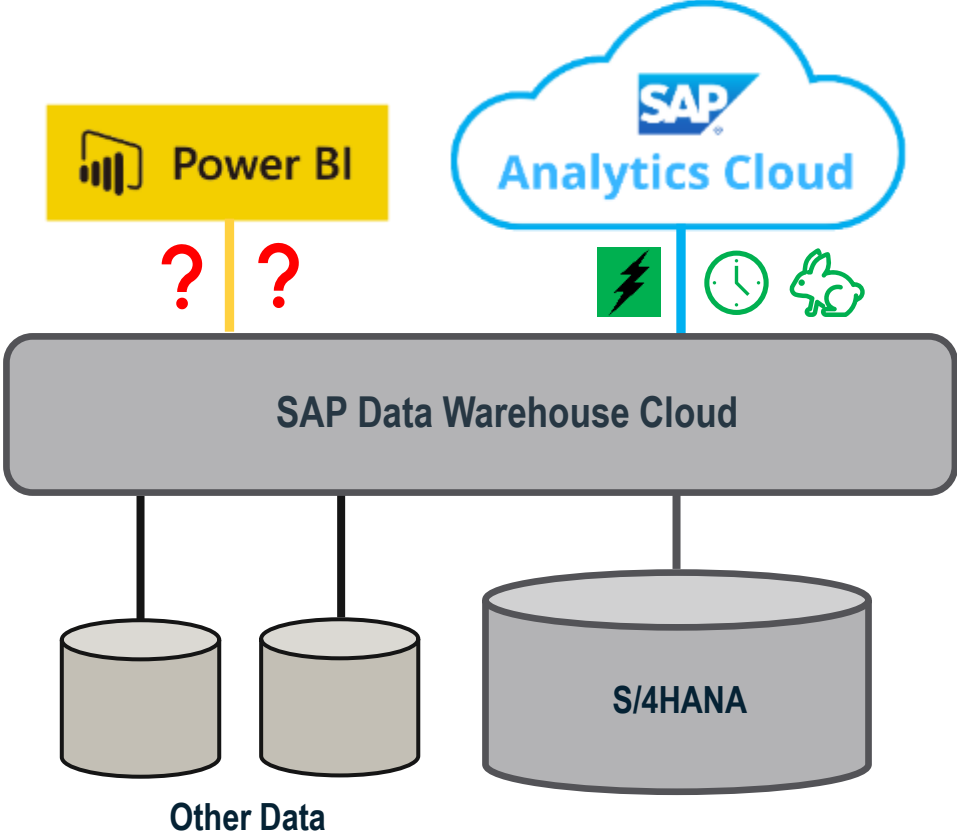
- Connect live from Power BI to SAP DWC (Data Warehouse Cloud / Datasphere)
- Expand how SAP DWC data can be leveraged

- 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

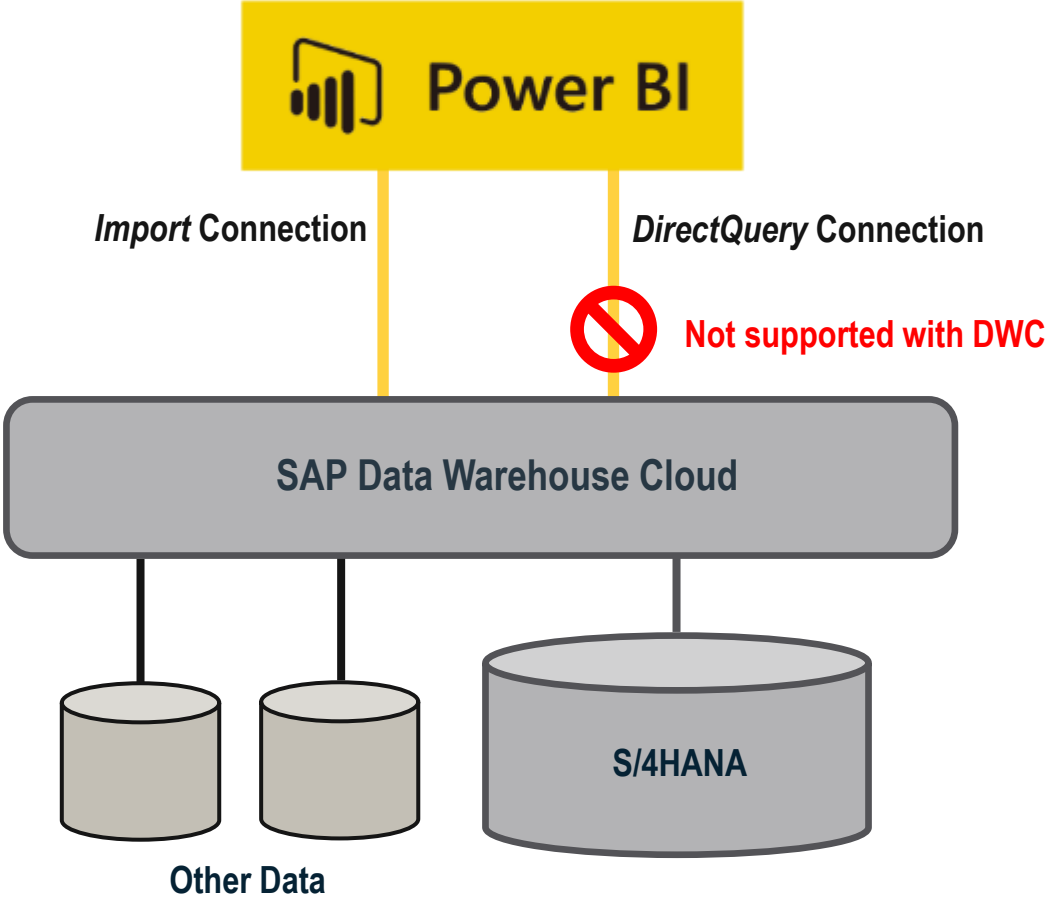
Live Connectivity from SAC to SAP Datasphere



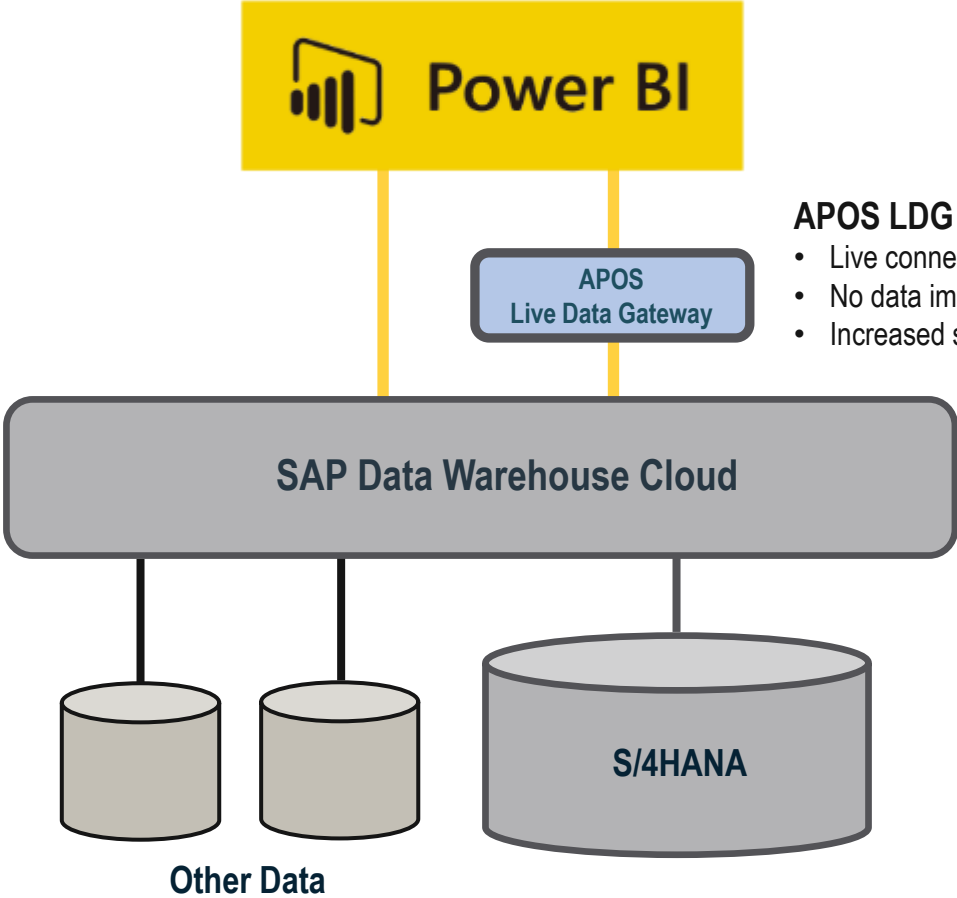
Power BI Connectivity to SAP Datasphere



Power BI DirectQuery to SAP Datasphere



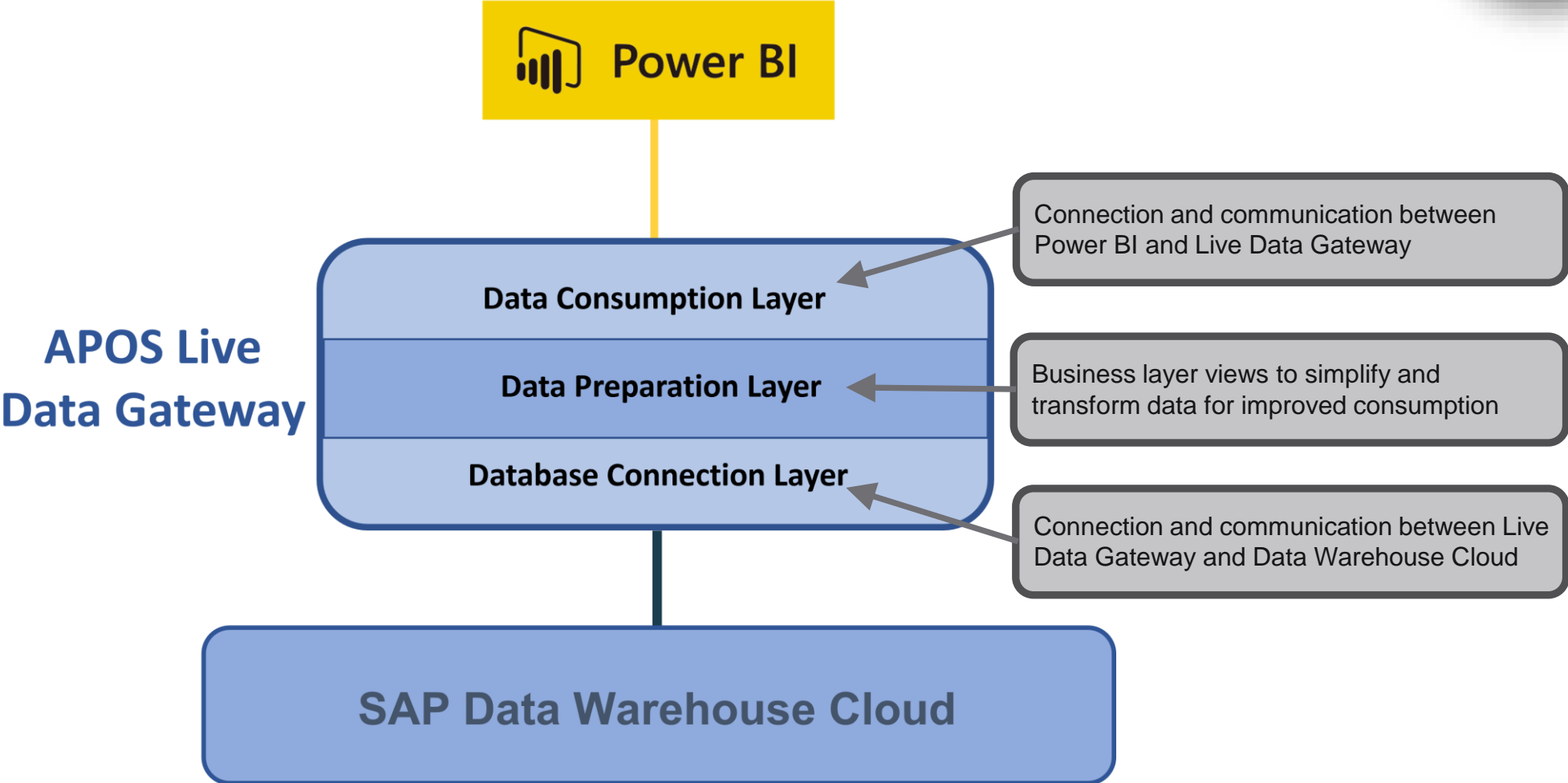
DirectQuery to Datasphere with Live Data Gateway



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

Direct Query Connectivity with Live Data Gateway



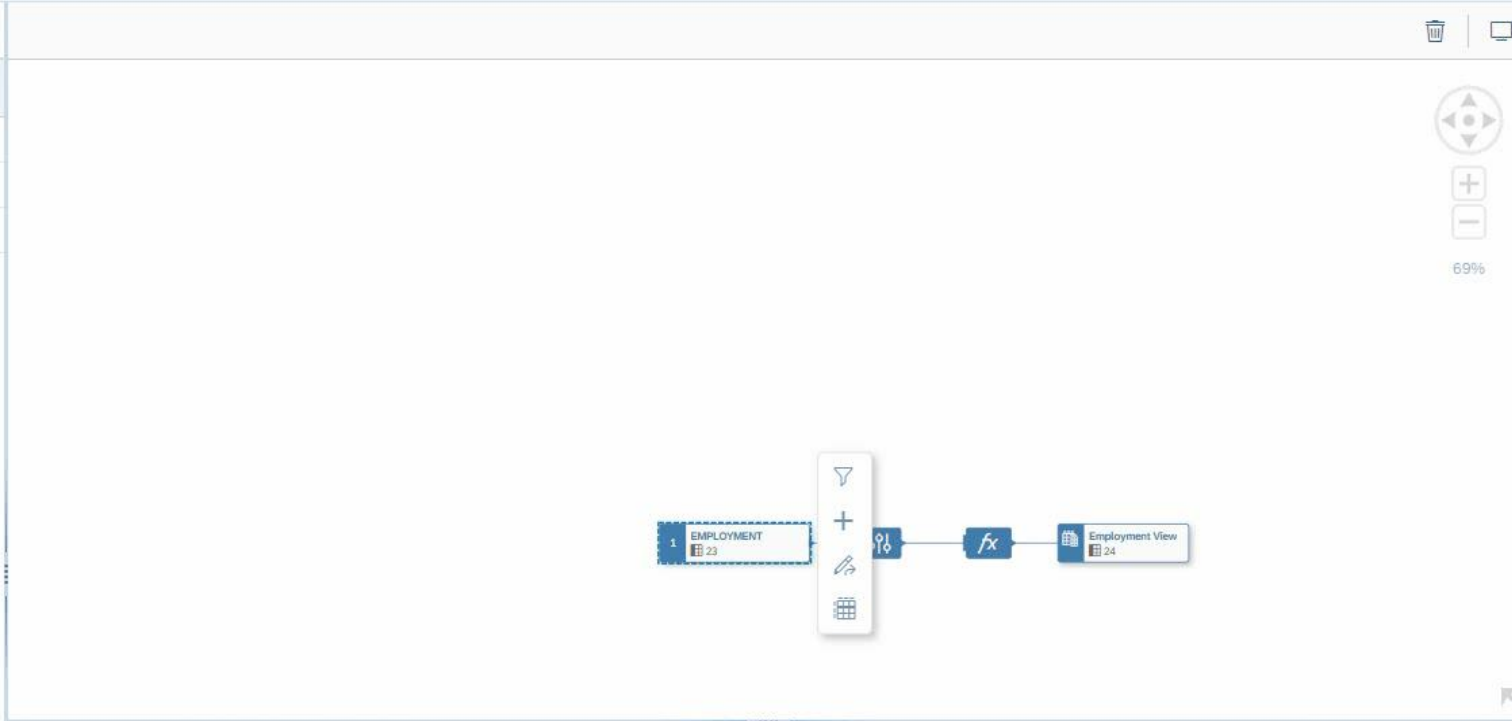
General View Edit

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

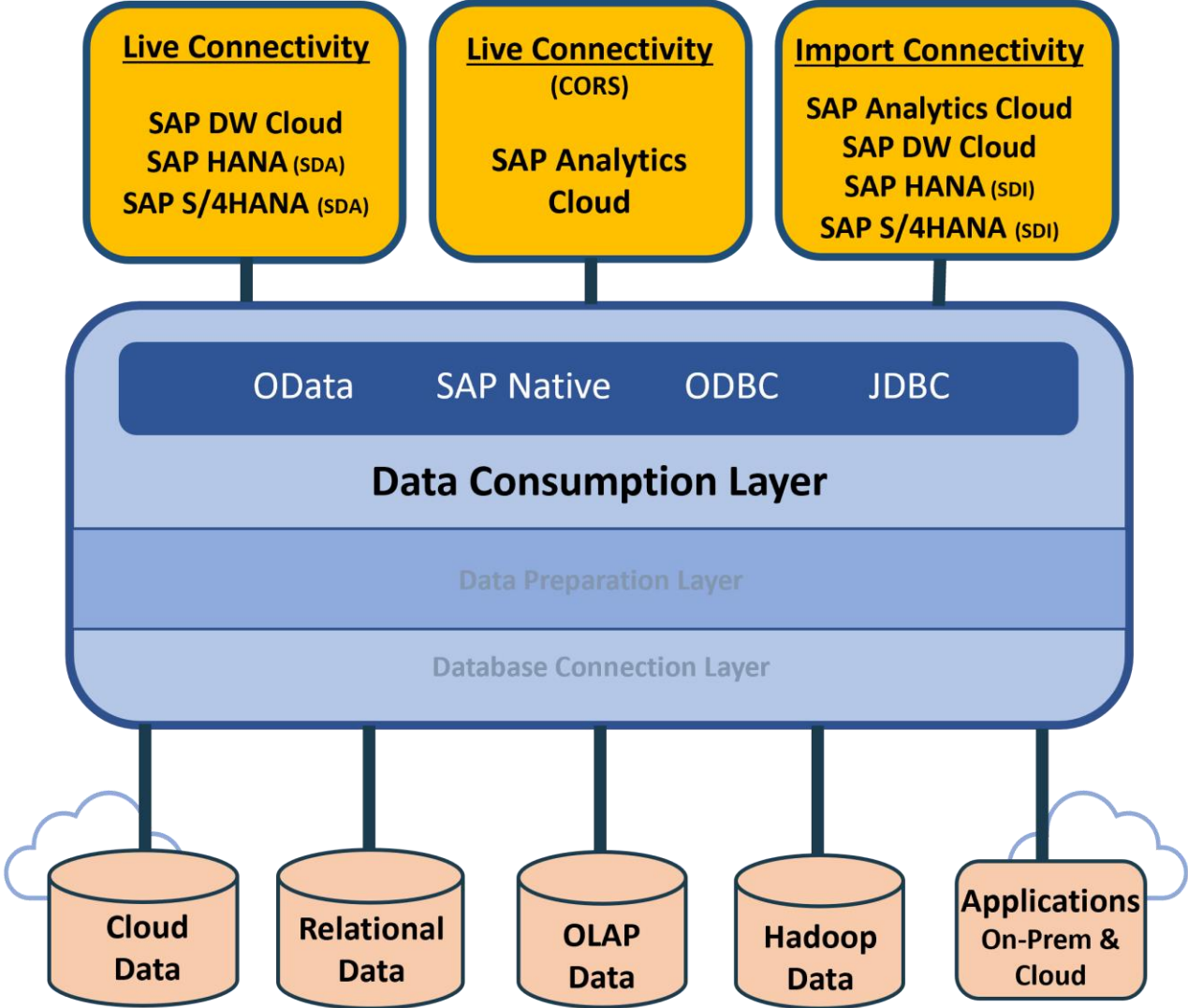
AGYSUB	LOC	AGELVL	EDLVL	GSEGRD	LOSLVL	OCC
AF07	US	H	13	12	D	1801
AF07	US	I	13	12	D	1801
AF07	US	I	13	12	D	1801
AF07	US	G	13	12	D	1801
AF07	US	H	13	12	D	1801
AFGS	US	H	13	12	D	1801

Columns

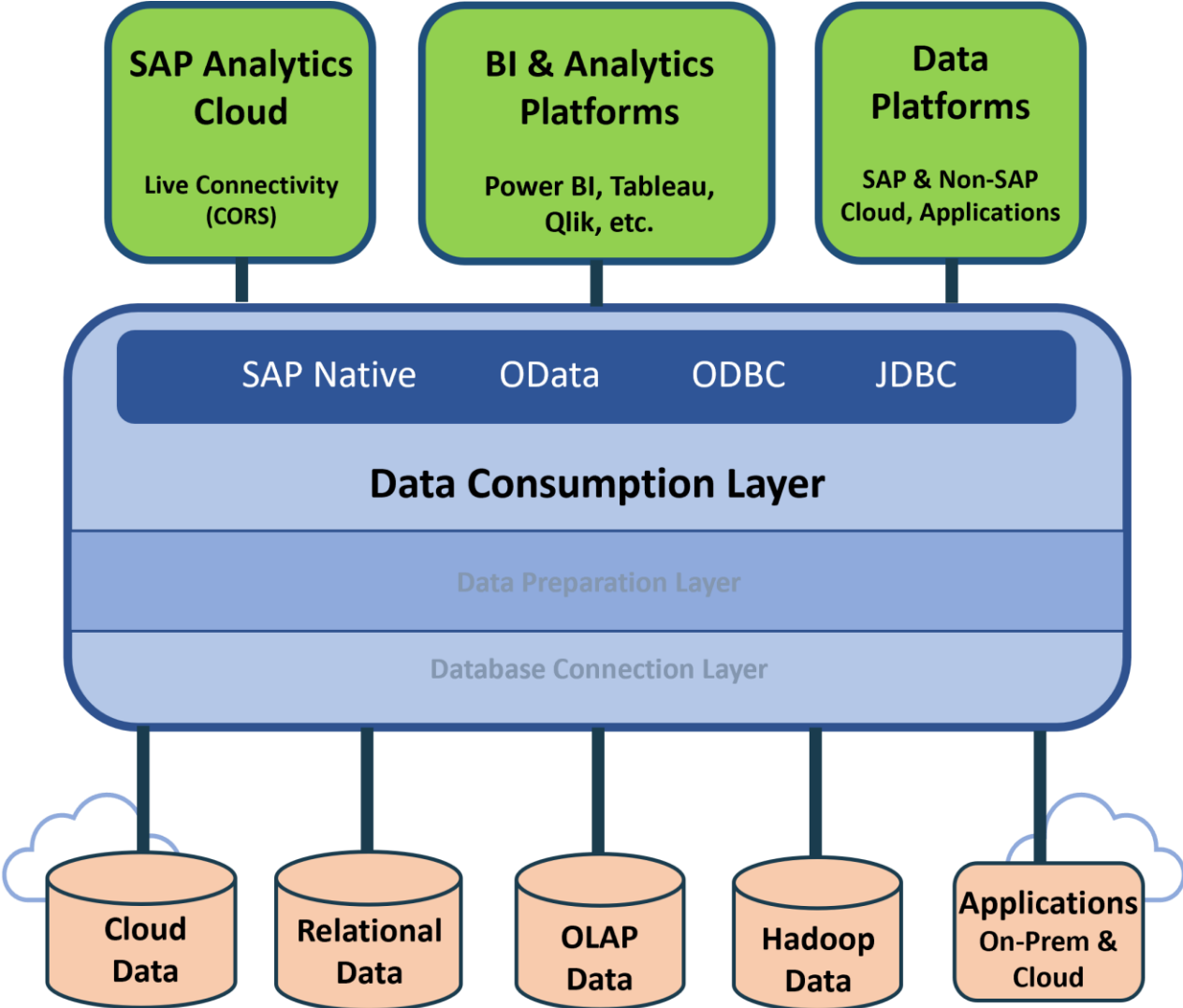
Search Columns

AA AGYSUB

APOS Live Data Gateway – SAP Landscape



APOS Live Data Gateway – Unified Semantic Layer



APOS Live Data Gateway – Session Summary

- SAP Analytics Cloud Connectivity Options
- Live Data Connectivity for SAC
- APOS Live Data Gateway
 - Overview
 - Security
 - Performance
 - Data Transformation
 - Expanded Connections
 - Expanded Consumption



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



Unternehmensweite Zusammenarbeit als Team, durch unbegrenztes Aussenden und Empfangen von SAP Analytics Cloud Stories

Webinar - 25. Mai - 14 Uhr CET

Sie erfahren, wie Sie automatisiertes, datengesteuertes Broadcasting, sowie die folgenden neuen und erweiterten Funktionen auf Unternehmensebene nutzen können:

- Verbesserte Terminplanung
- Höher skalierbare Datenverarbeitung
- Verbesserte Sicherheit
- Freigegebene und private Ordner
- Ermöglichen Sie es Usern und Teams zusammenzuarbeiten und Inhalte zu teilen
- Gemeinsame und private Datenquellen
- BW User-Based Broadcasting
- Kommende Funktionen



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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

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

STAY CONNECTED



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Please enter your questions in the Q&A panel.



Thank you!

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