

Webinar

Uniting SAP Analytics Cloud and the Snowflake Data Cloud



Today's Session

Key Topics

- Technology Introduction
 - SAP Analytics Cloud
 - Snowflake Data Cloud
- SAP Analytics Cloud Connectivity Options
- APOS Live Data Gateway
 - Overview
 - Report Consumer & Developer Experience
 - Data Preparation & Transformations
 - Connections & Security
- Q&A – see webinar console

Today's Presenters



ALLAN PYM

COO
APOS



ALAN GOLDING

Solution Consulting
Manager
APOS



DAVID RICHERT

Principal Data Platform Architect
Field CTO Office
Snowflake

Who is APOS?

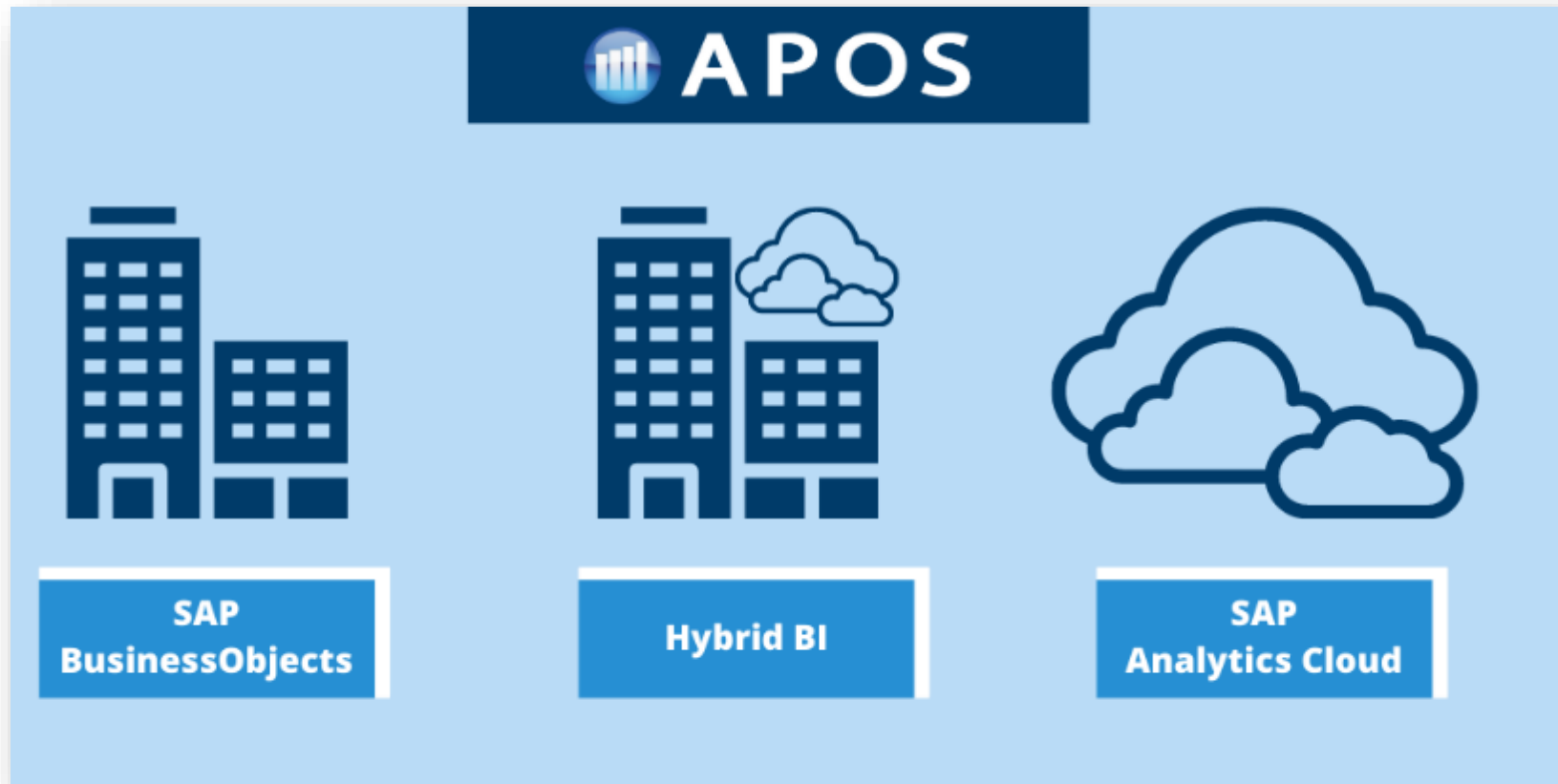
- Formed in 1992
- Enabling BI data connectivity, platform management, administration, migration, governance and compliance
- Simplifying, automating, extending SAP BusinessObjects and SAP Analytics Cloud
- Strategic SDK development and consulting
- Hundreds of customers globally



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

- Bursting and Distribution of SAC content



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

What is SAP Analytics Cloud? (“SAC”)



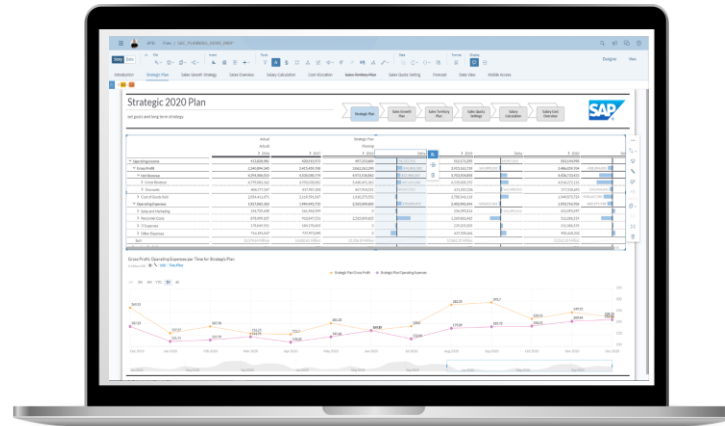
Business Intelligence

Reports, Dashboards, Visualizations,
Analytical Applications



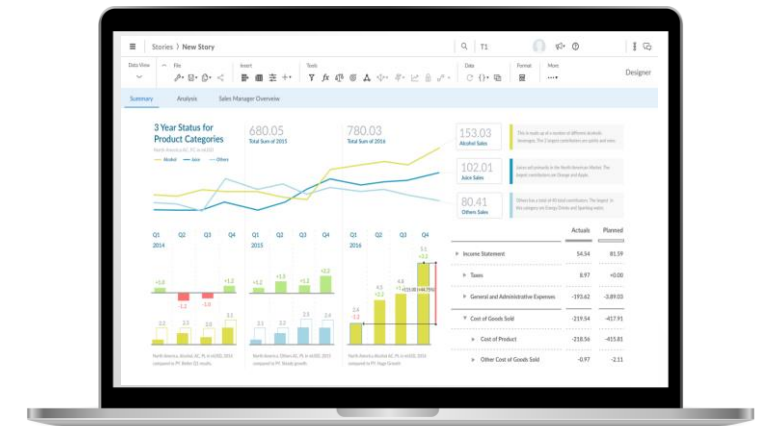
Planning

Plans, budgets, forecasts, and reports
with enterprise planning features



Predictive

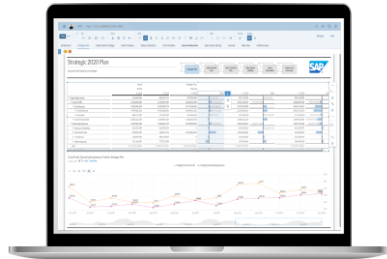
‘Smart’ features for built-in AI & ML
functions within BI & Planning



What is SAP Analytics Cloud? (“SAC”)



Business Intelligence



Planning



Predictive



- Fully cloud based analytics platform
- First released in 2015, alongside SAP S/4HANA
- SAC is SAP’s BI and Planning platform for future
- SAC is embedded in all of SAP’s current ERP and Line of Business applications
- Significant growth in adoption of SAC in recent years



David Richert

Principal Data Platform Architect Field CTO Office



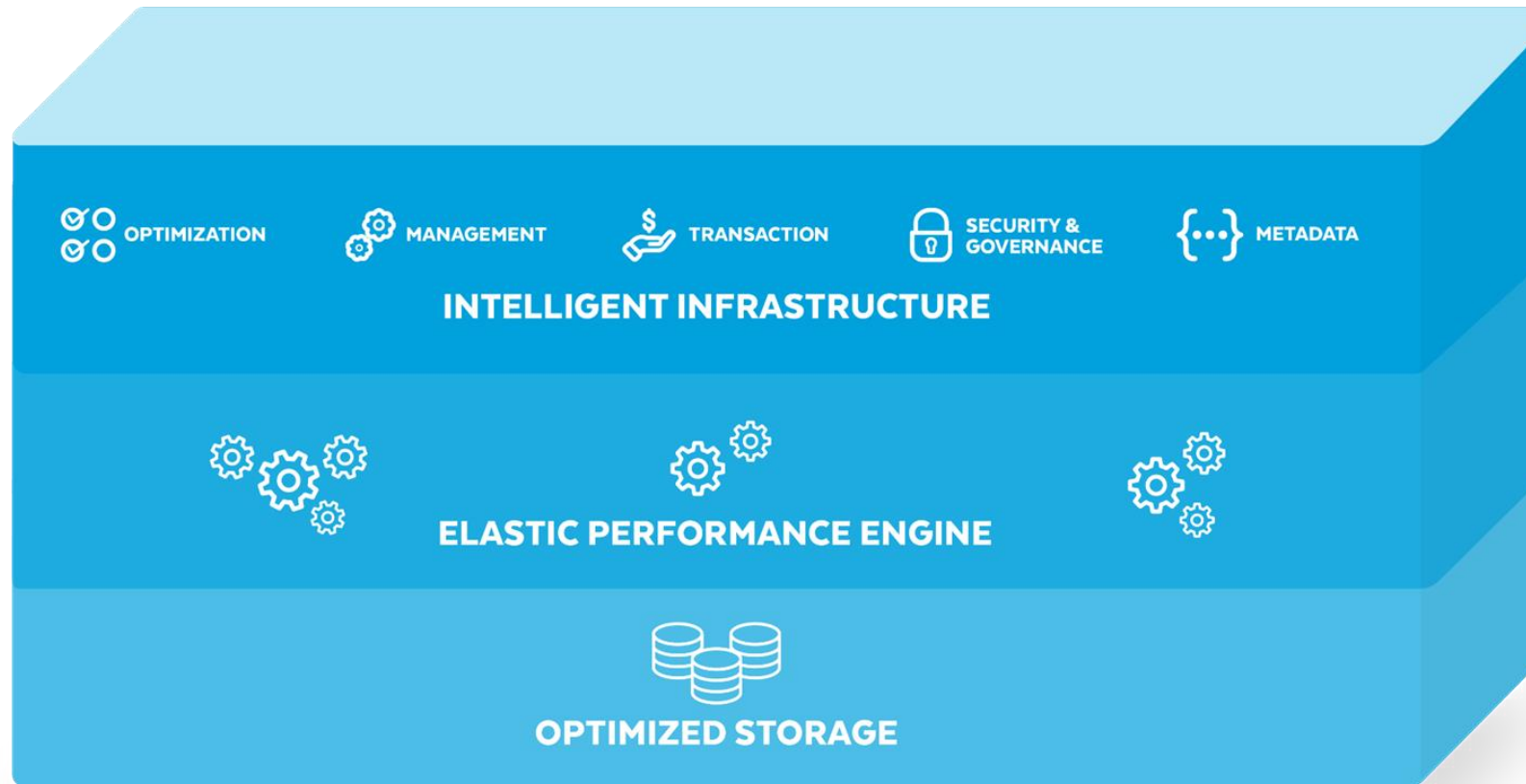


Snowflake Architecture

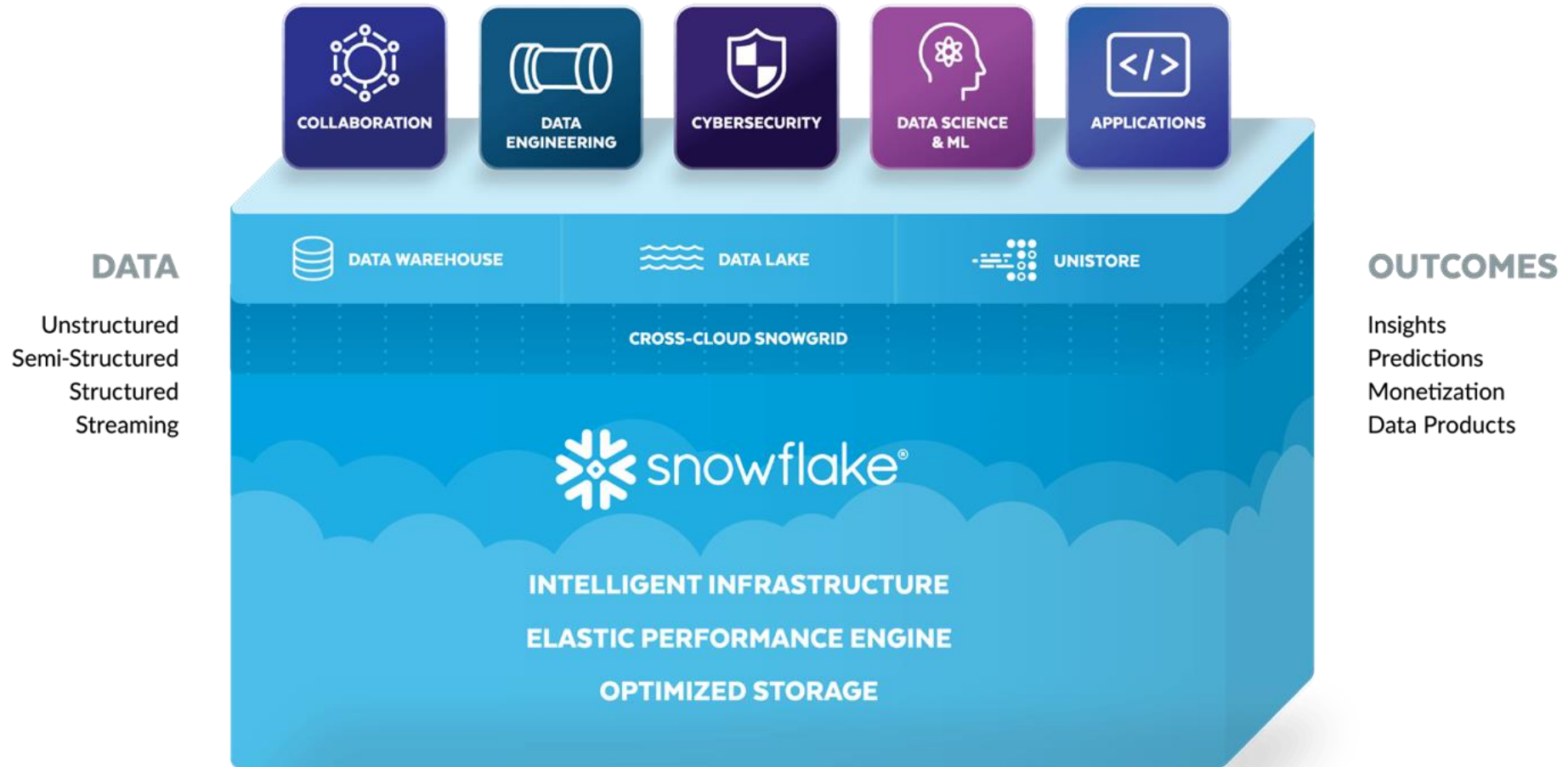
David Richert

April 2023

Snowflake Architecture



One Platform. Many Workloads.



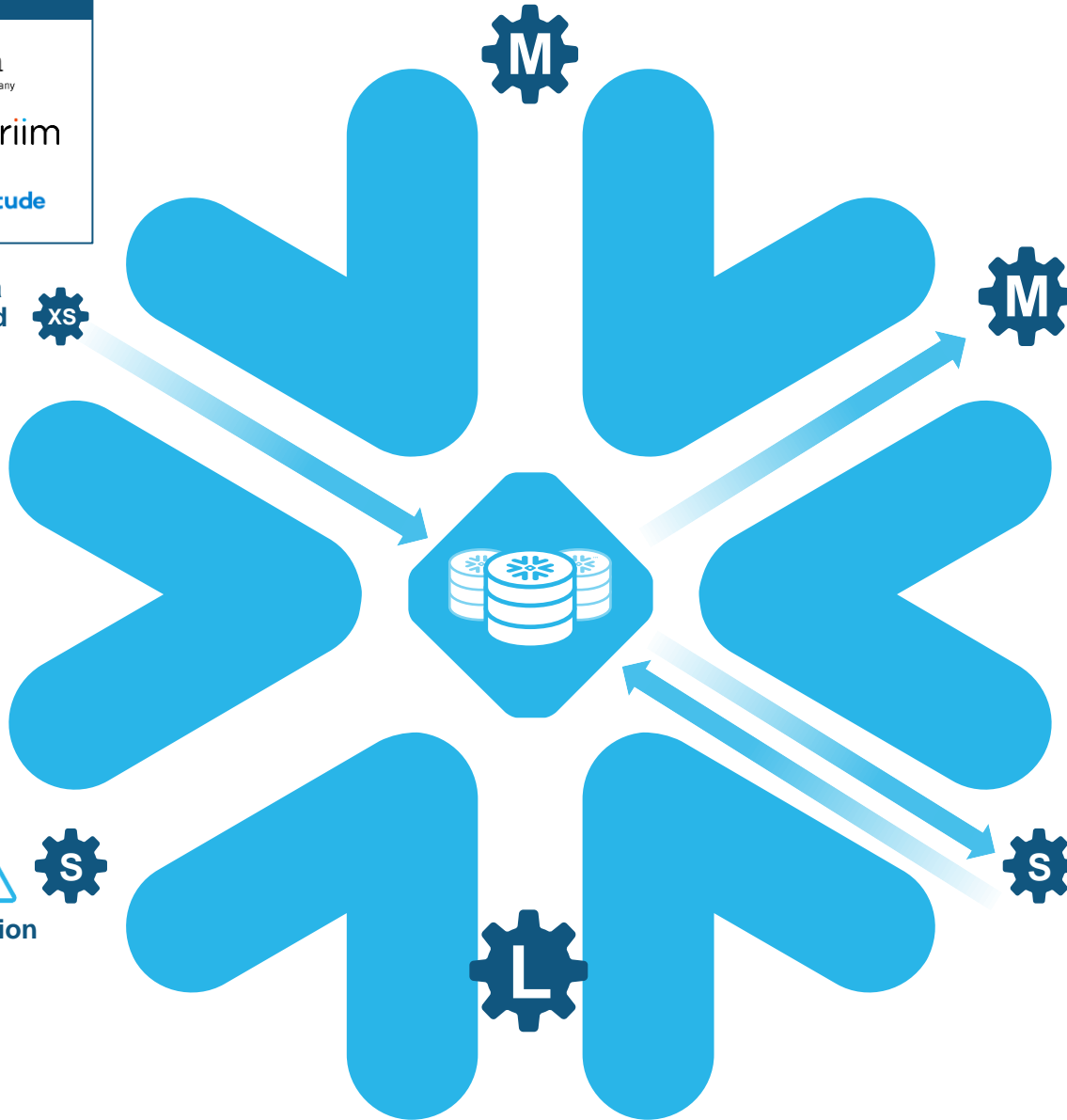
ETL/ELT



Structured
Semi-
Structured
Unstructured



Data Load



Data Transformation

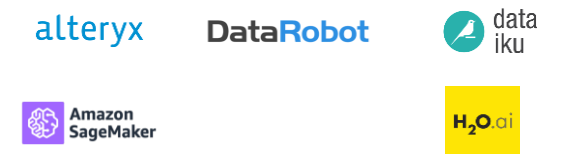
Intelligent Infrastructure:

- Logical Model
- Security
- Query Planning & Optimization
- Transactional Control

Marketing Analytics/Reporting/BI



Data Science



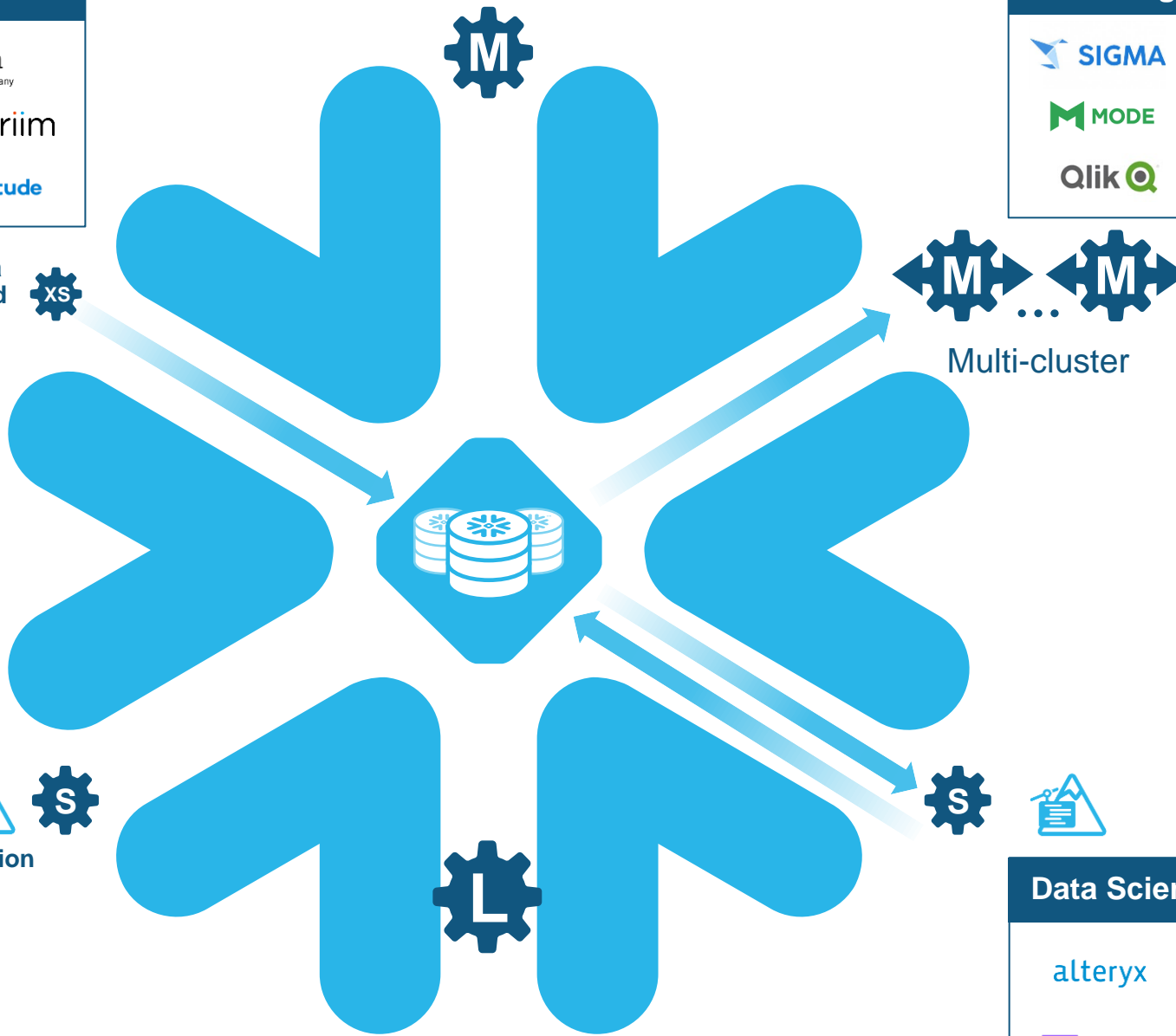
ETL/ELT



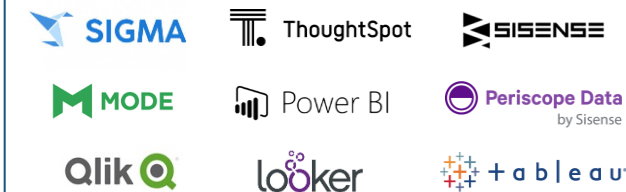
Structured
Semi-
Structured
Unstructured



Data Load



Marketing Analytics/Reporting/BI



Multi-cluster

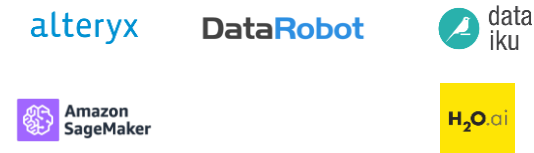
Data Transformation



Intelligent Infrastructure:

- Logical Model
- Security
- Query Planning & Optimization
- Transactional Control

Data Science



ETL/ELT

Marketing Analytics/Reporting/BI

Data Load

Data Transformation

Multi-cluster
ODBC/JDBC/Python

SAP Reporting/Analytics

APOS

Intelligent Infrastructure:

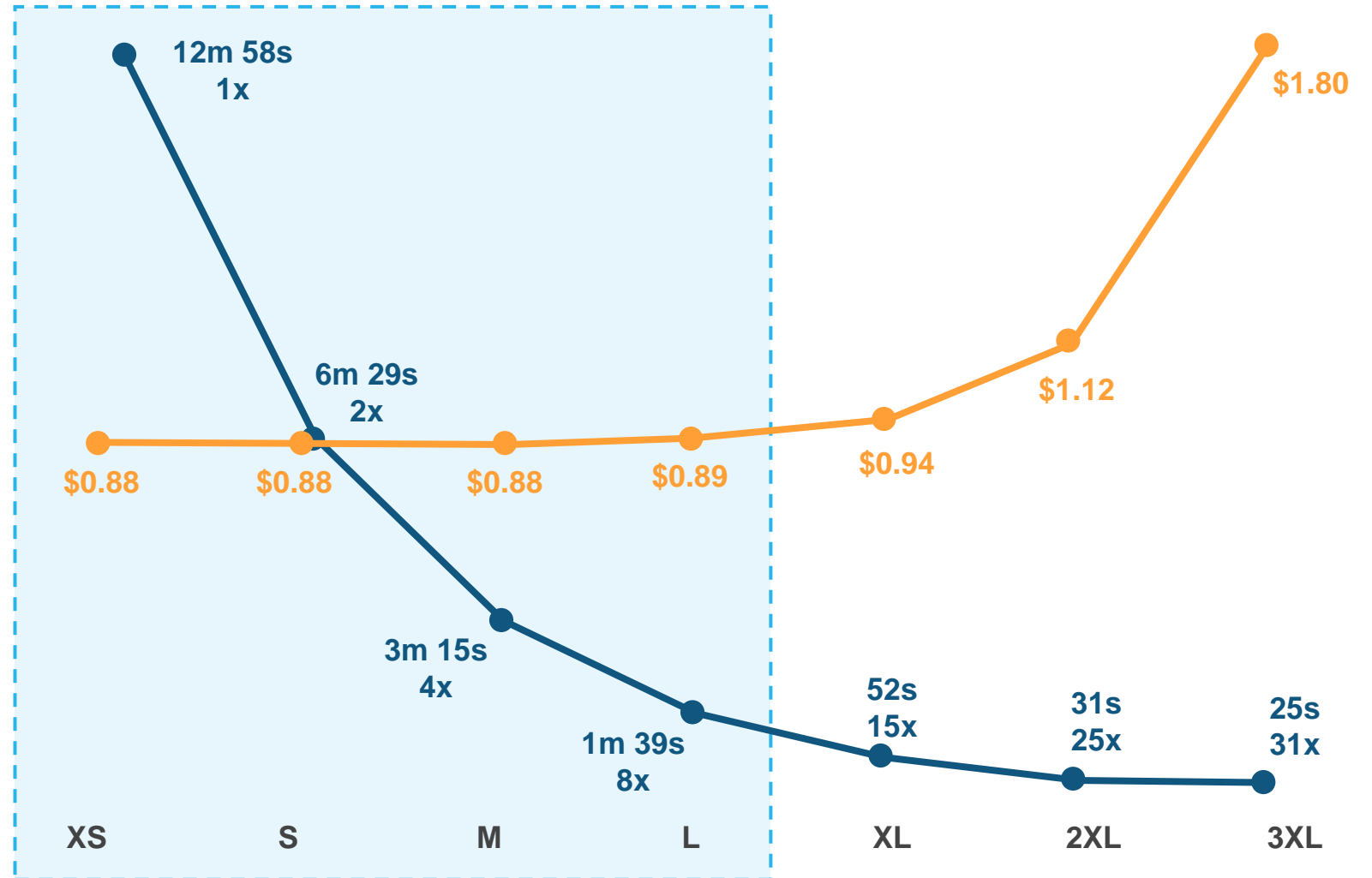
- Logical Model
- Security
- Query Planning & Optimization
- Transactional Control

Scale Up – Loading 1BN Records

- Doubling the number of servers halves the run time
- But you pay per-server, per second of compute
- So you get your answer

8X FASTER FOR THE SAME COST

— Cost
— Secs



Why Snowflake with SAP and all other Data

True Performant Self-Service



Run any number or type of job across all users and data volumes quickly and reliably.

- Automated vertical (large query) and horizontal (concurrent) compute scaling for ingest, transformation, egress
- Common storage, isolated compute
- Only pay when you use it

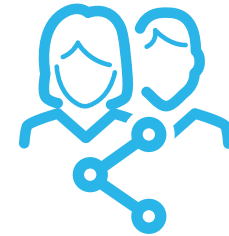
It Just Works



Replace manual with automated to operate at scale, optimize costs, and minimize downtime.

- One system for dev, test, quality, prod
- Data engineering (multi-languages, functions, stored procs, external calls, automated data flows, recursive, pivot, arrays, undrop)
- Support **Data Science** modeling with Version Data and metadata

Connected to what matters



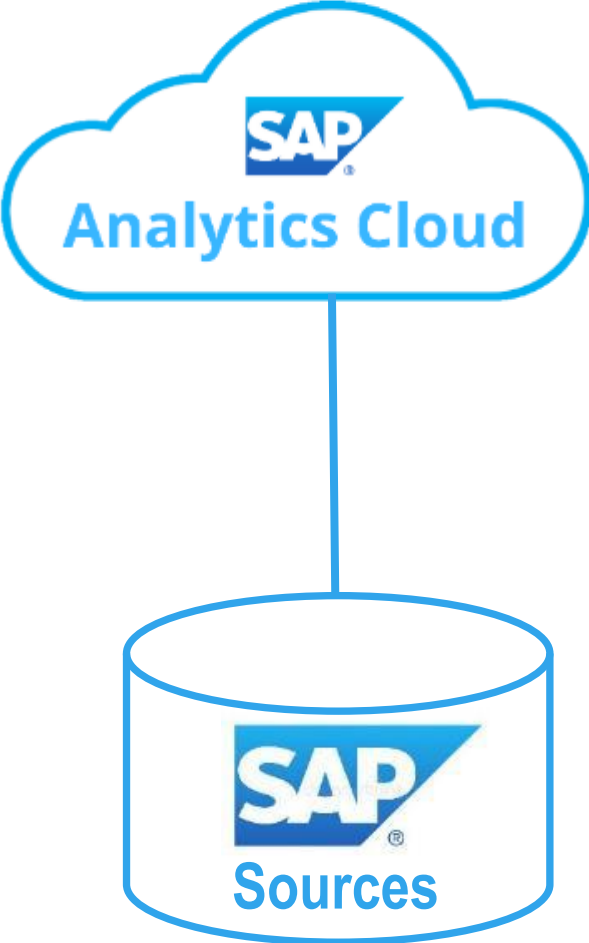
Extend access and collaboration across teams, workloads, clouds, and data, seamlessly and securely.

- Build your business ecosystem in Snowflake Marketplace/Private Data exchange
- Share data with no ETL or silos
- Maintain global business continuity
- Cross-cloud governance controls

SAC Connectivity – SAP Sources

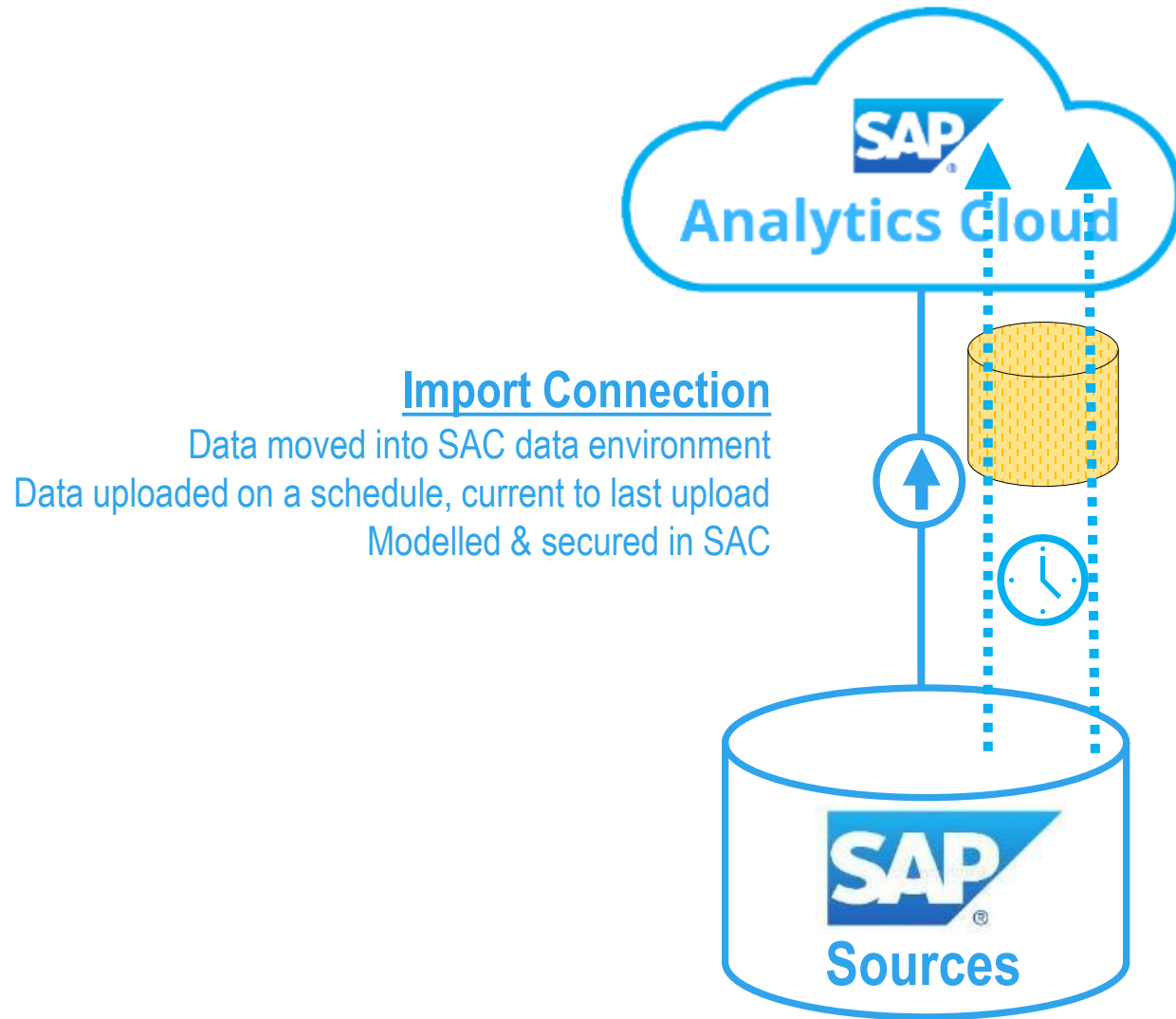


Import Connection

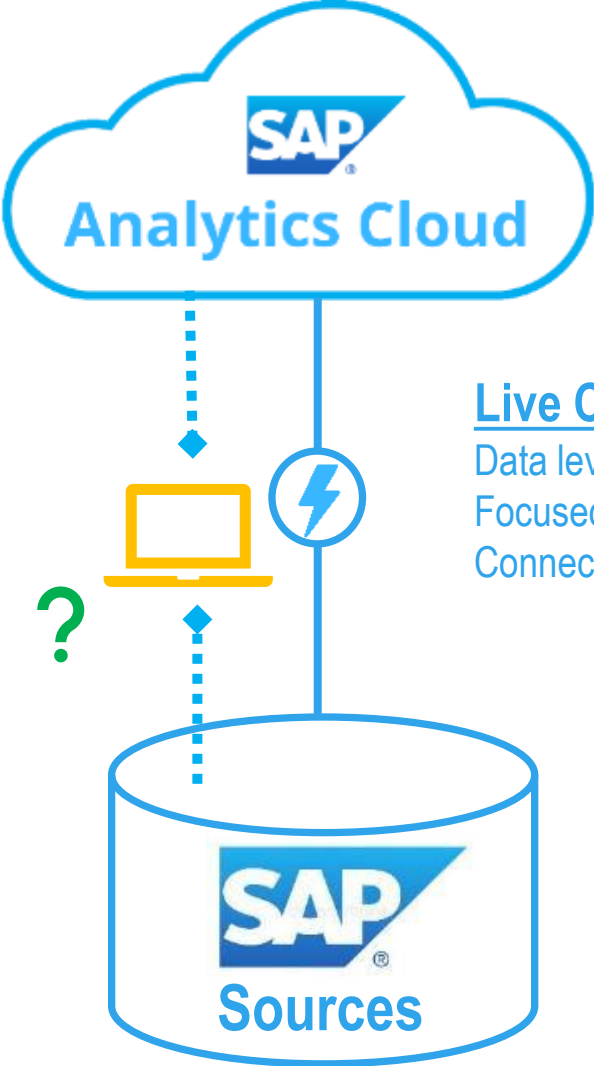


Live Connection

Import Connectivity



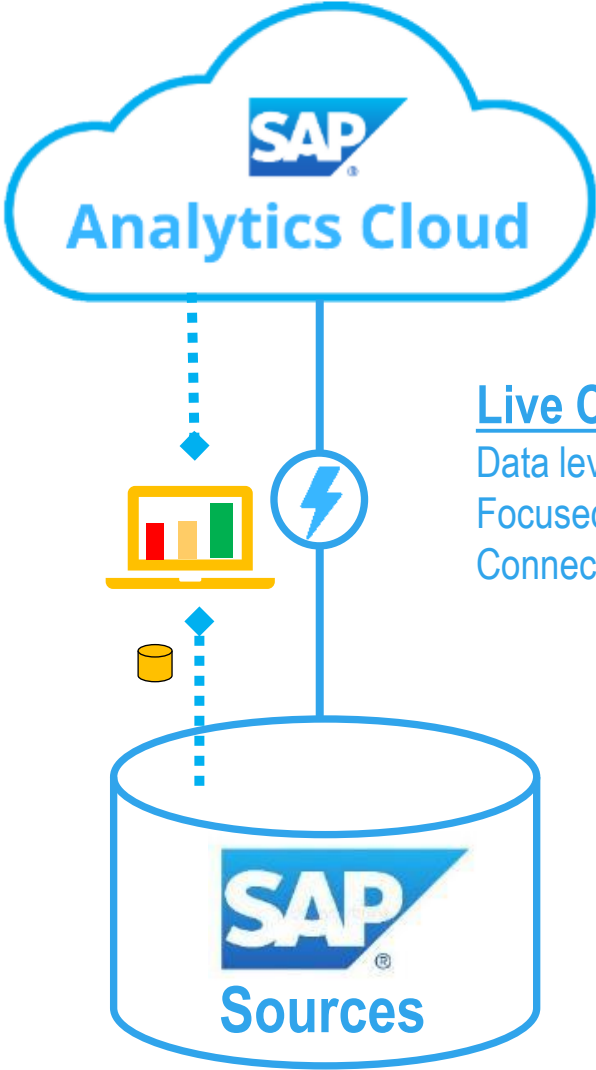
Live Connectivity



Live Connection

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

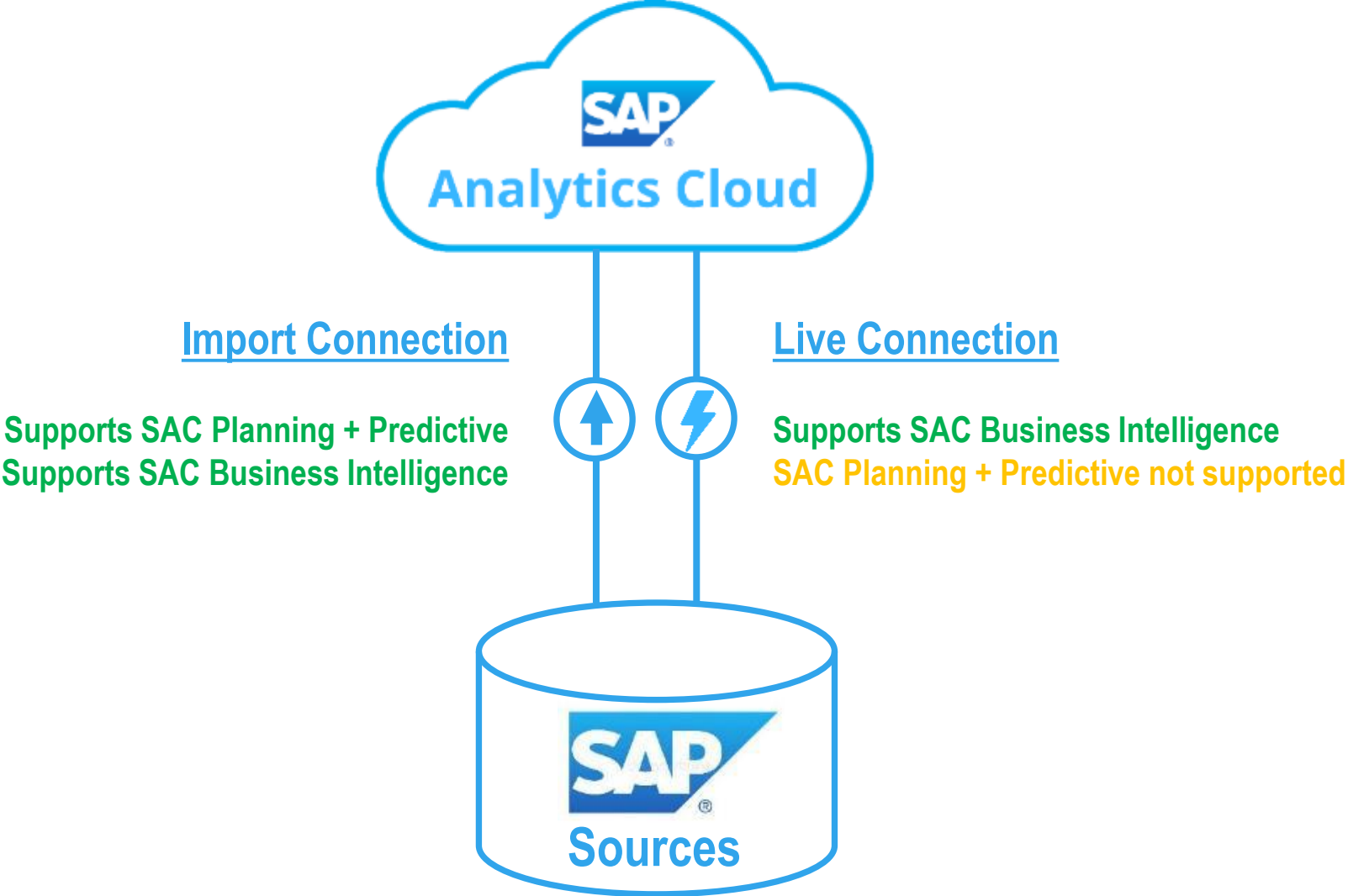
Live Connectivity



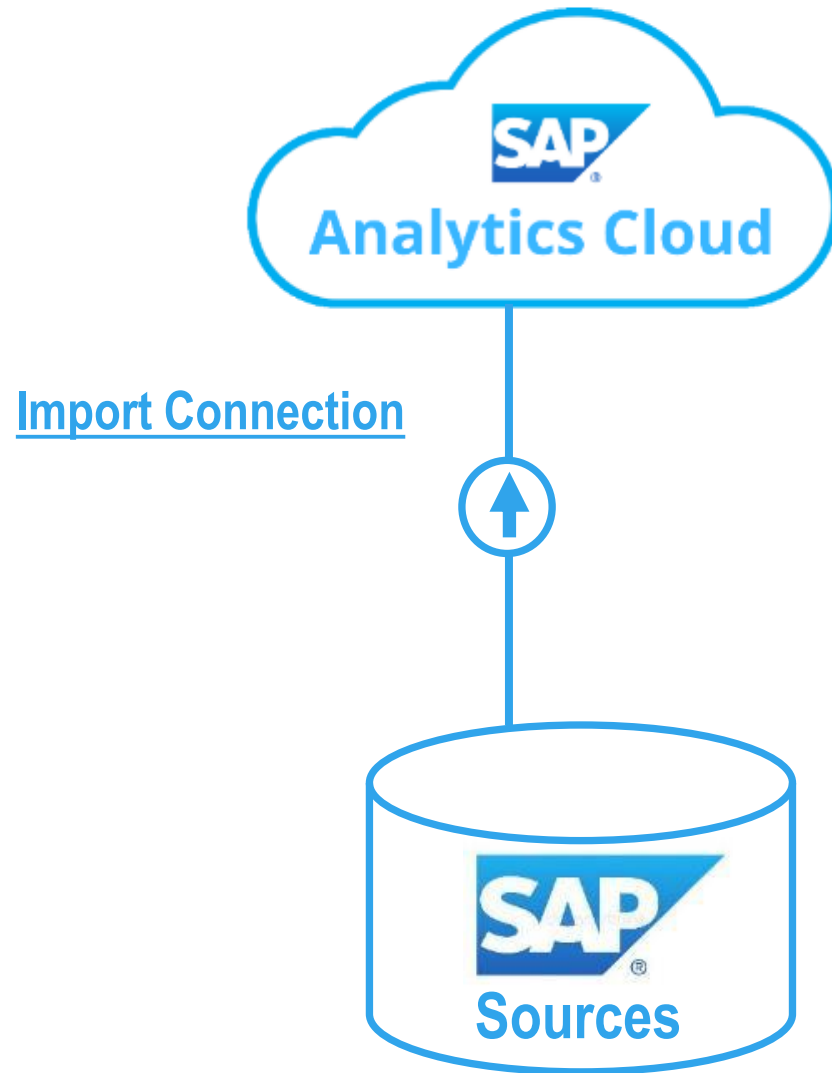
Live Connection

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



SAP Help Portal (Documentation) Browse by Product Learning Journeys

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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:

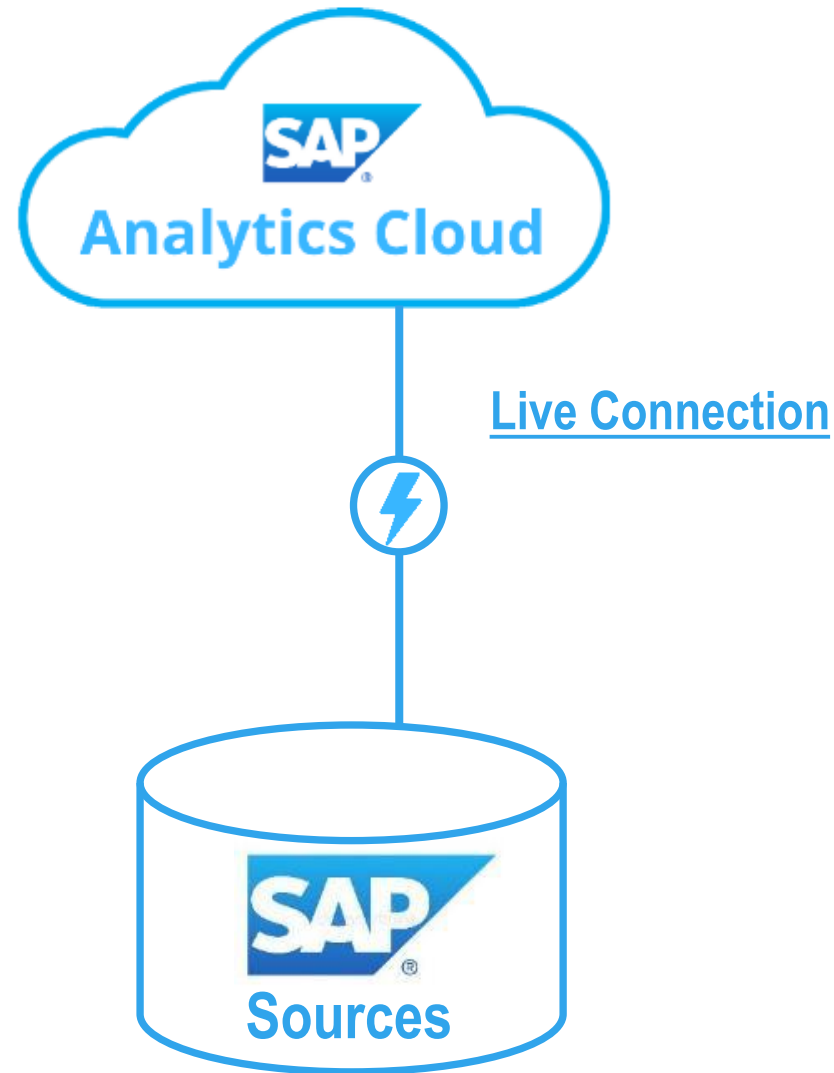
- Columns: 100
- Rows: 800,000
- Dimension members:
 - Planning models: 250,000
 - Analytic models: if there are more than 250,000 unique members, the dimension will be made read-only
- Dimension members with attributes: 150,000
- Dimension members with geo enrichment: 200,000
- Dimension members in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

Decision Considerations - Live



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

- No Planning/Predictive
- Limited sources supported **



Live – Limited Sources Supported

The screenshot shows the SAP Help Portal interface. The top navigation bar includes the SAP logo, the text 'Help Portal (Documentation)', and a 'Browse by' dropdown menu. Below the navigation bar is a breadcrumb trail with a 'Previous' link and a 'Favorite' icon. The main content area is split into two columns. The left column contains a navigation menu with items: 'SAP Analytics Cloud Connection Guide', 'The Importance of Managing a Connectivity Project', 'Choosing a Live Connection or Importing Data' (highlighted in blue), 'Live Connections Overview', 'Importing Data', and 'Single Sign-On (SSO)'. The right column features a section titled 'Live Connection' with a table below it. The table has two columns: 'Functional Need' and 'Supported Datasources'. It lists two functional needs: 'Local (Cloud data sources)' and 'Remote (On-premise data sources)'. The 'Local' category supports 'SAP Cloud Platform' and 'SAP S4/HANA Cloud'. The 'Remote' category supports 'SAP HANA', 'SAP BW', 'SAP S/4HANA', and 'SAP Universe'.

SAP Help Portal (Documentation) Browse by P

← Previous ☆ Favorite

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



SAP Help Portal (Documentation) Browse by Product | Learning Journeys

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.

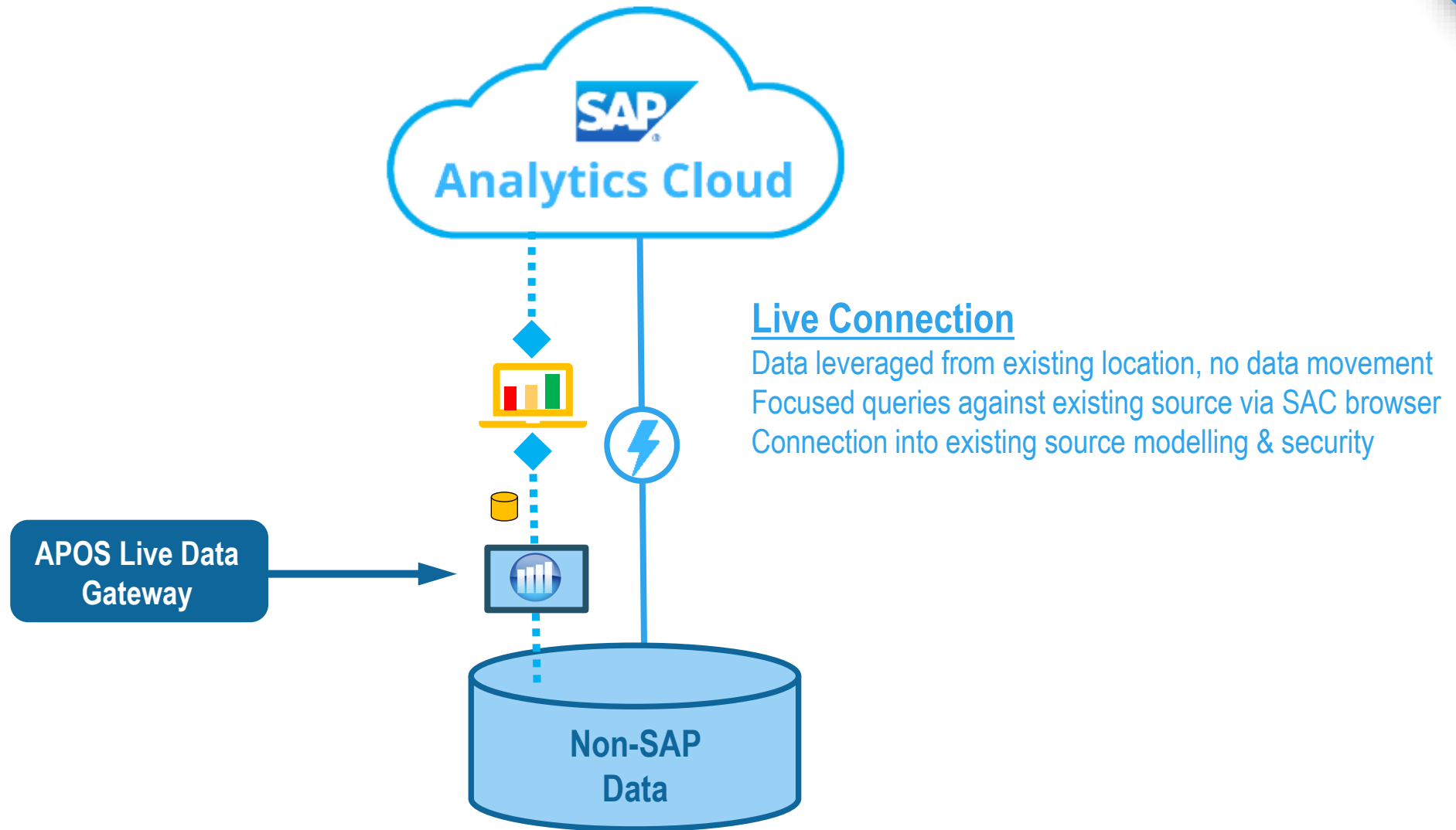
The APOS Live Data Gateway is available on the [SAP App Center](#).

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



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

Customer Success



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



Large global 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.

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



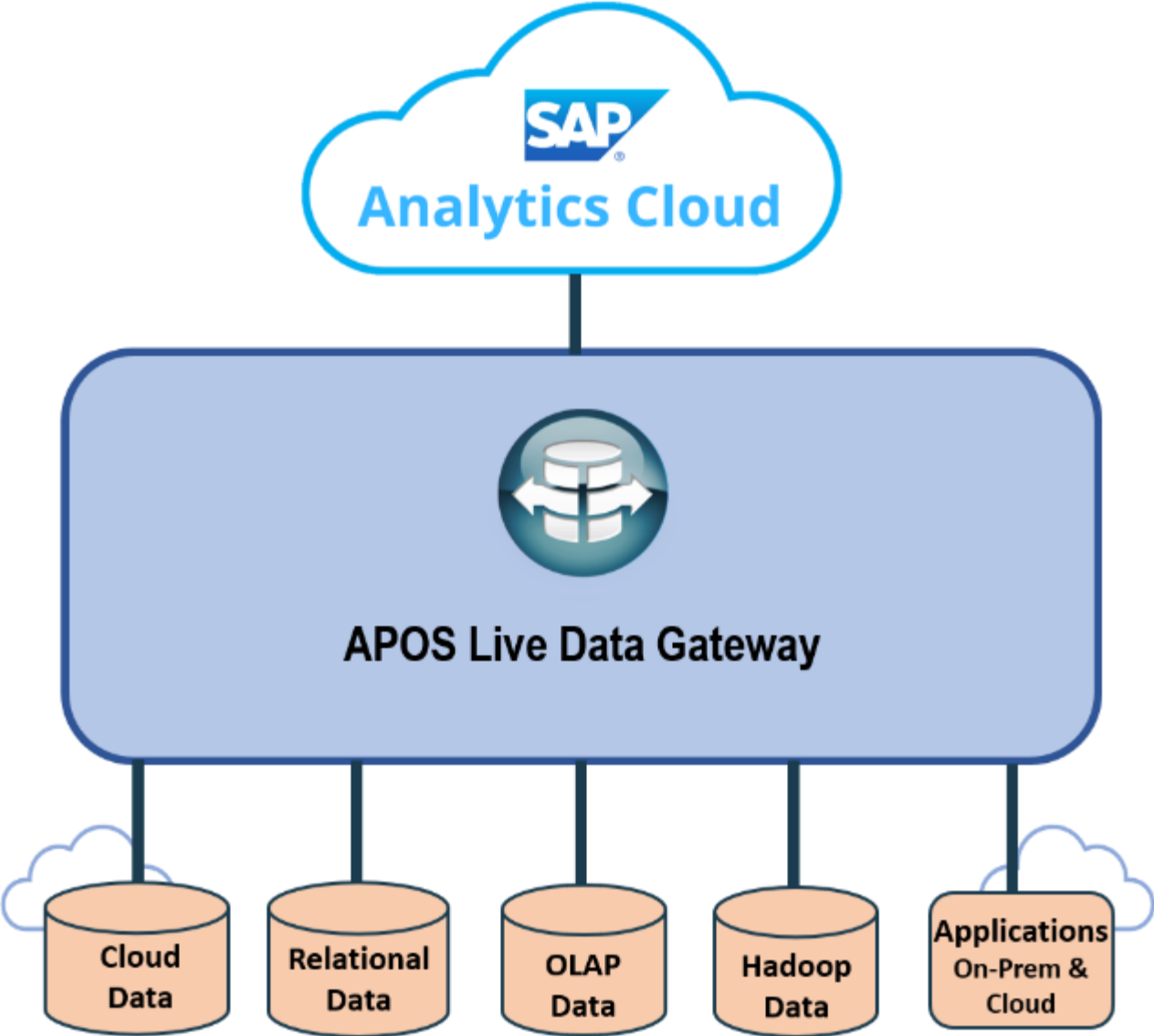
One of the 'Big 4' consulting firms leverages Live Data Gateway for an internal project that utilizes live connection from SAC to data residing in Microsoft Azure





Alan Golding
Solution Consulting Manager
APOS

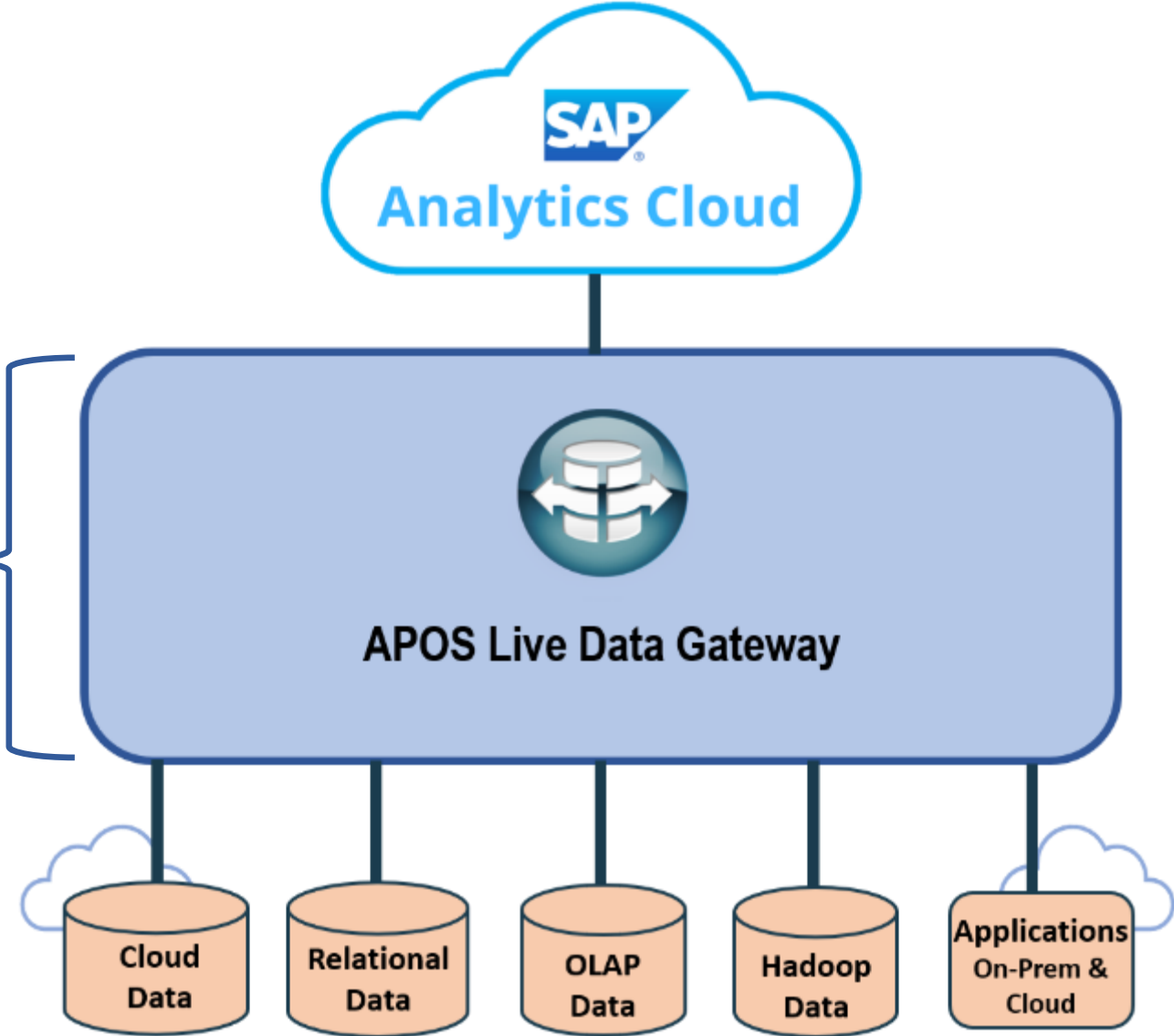
APOS Live Data Gateway



Live Data Gateway Server



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



Supported Sources



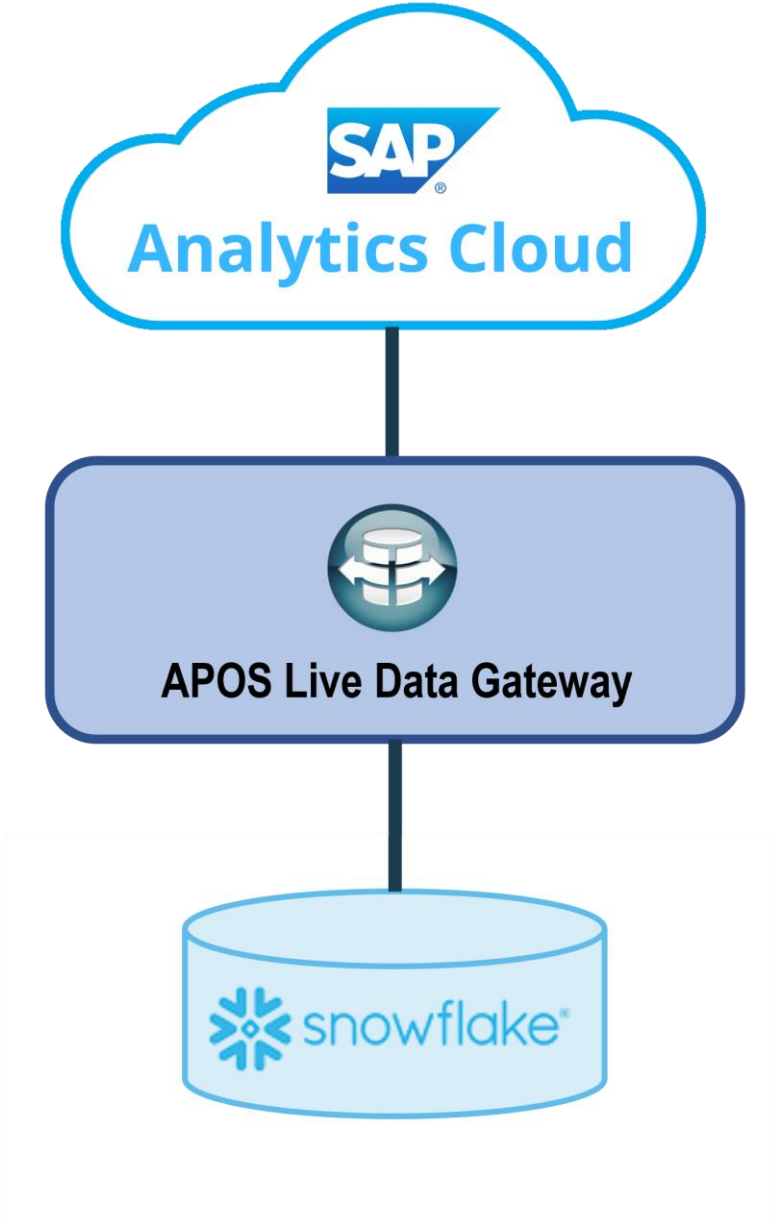
Core Supported Data Sources

- 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>

Uniting SAC & Snowflake



Customer Success



A leading global pharmaceutical corporation headquartered in Switzerland and United States utilizes APOS Live Data Gateway to provide a live connection from Snowflake to SAP Analytics Cloud that also meets strict security requirements and a Single Sign-on process that uses OAuth credentials.

A large multi-chain retailer in Europe utilizes APOS Live Data Gateway to provide a live connection from Snowflake to SAP Analytics Cloud to fulfill analytics goals without data replication, and also provide integrated security with Snowflake for a simplified Single Sign-on process.

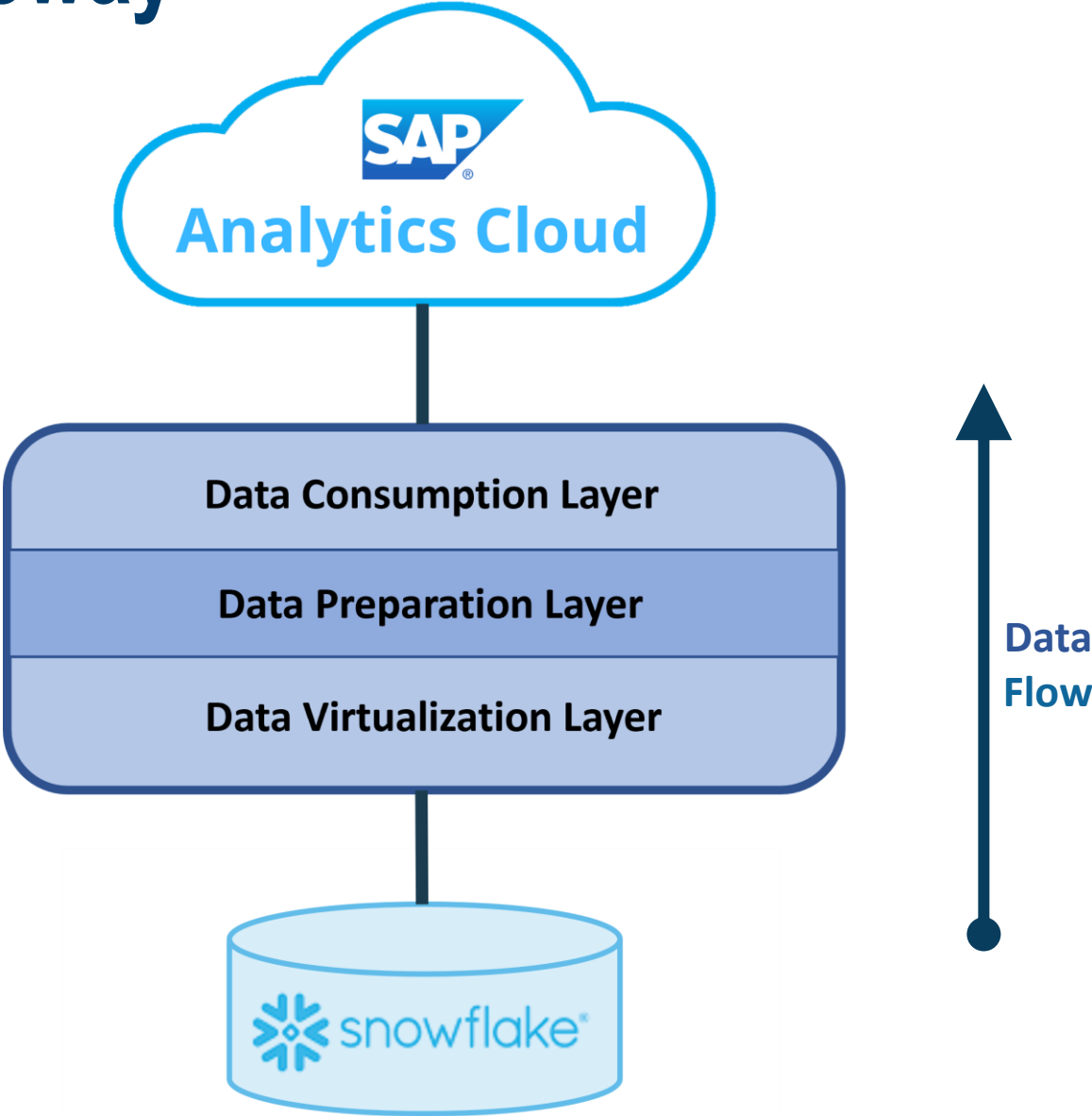


A Swiss-based, top-tier pharma / healthcare company with global operations runs SAP Analytics Cloud as a key go-forward analytics solution addressing operational and executive reporting needs. Live connection to their Snowflake environment has provided critical Snowflake data for these needs.

Australian LNG exploration/production/supplier/export company runs SAP Analytics Cloud (SAC) for connectivity to SAP S/4HANA, and also needed live connectivity to their Snowflake data for financial analytics and key monthly operational reports.



APOS Live Data Gateway



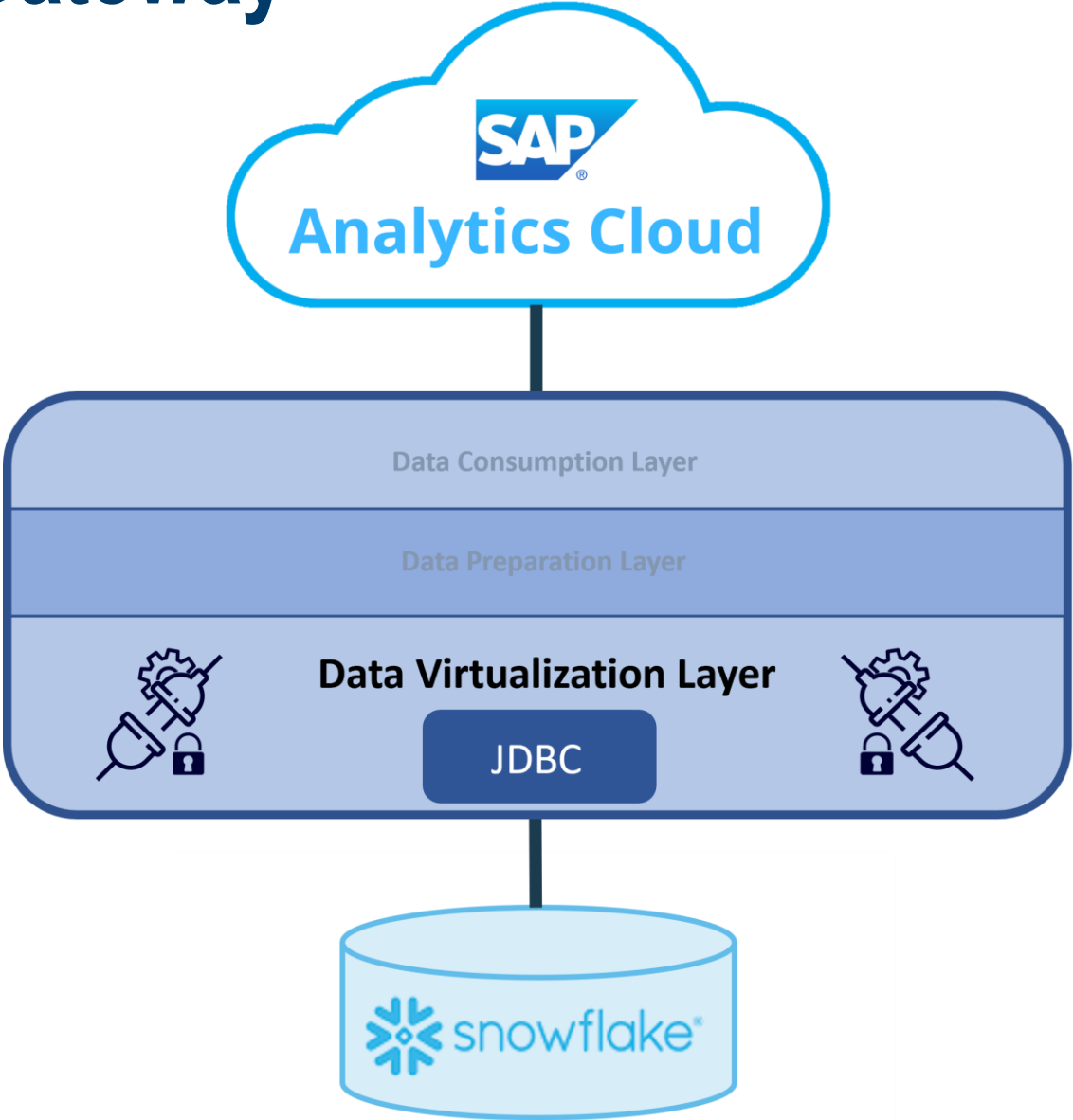
APOS Live Data Gateway



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)



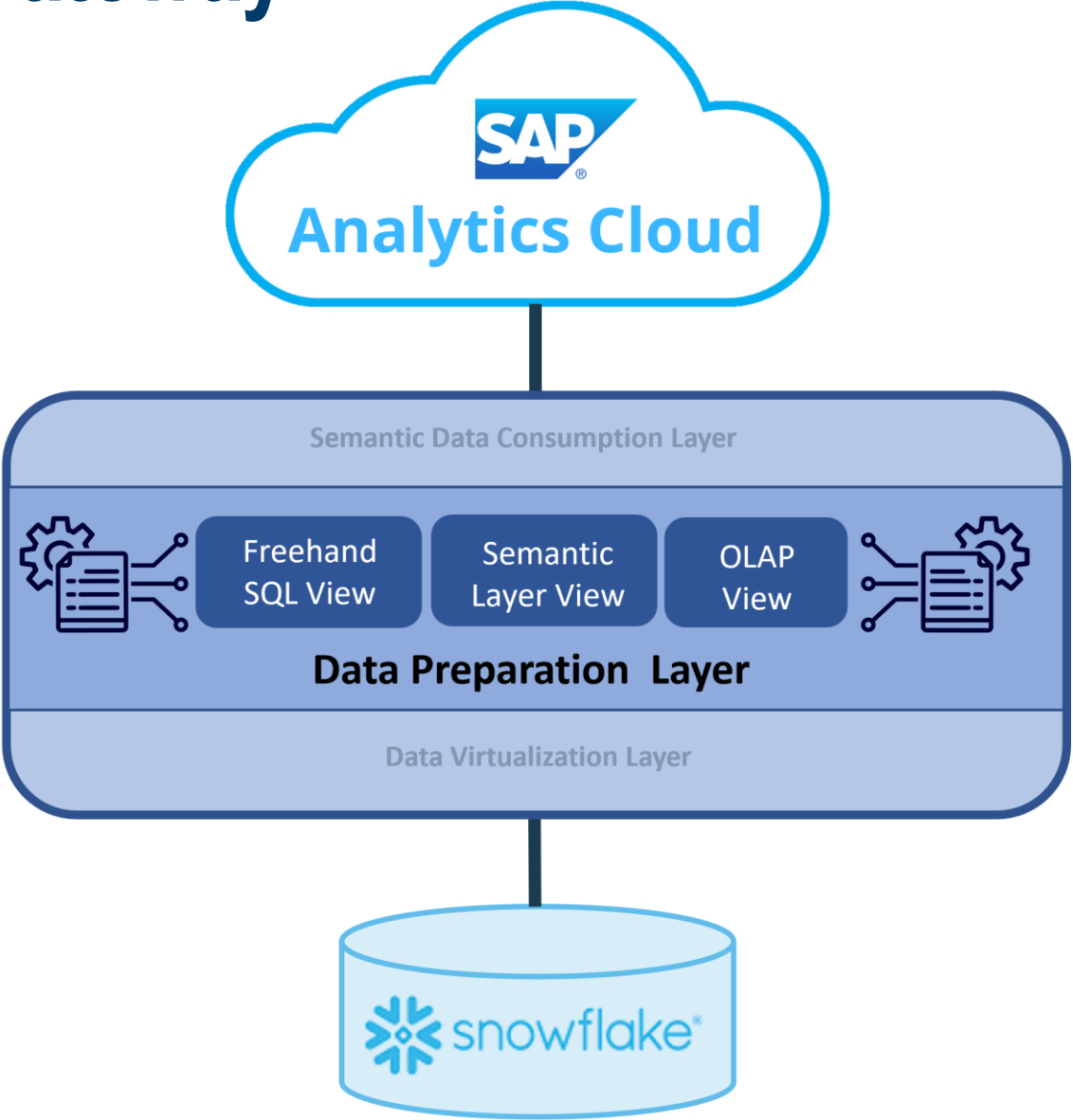
APOS Live Data Gateway



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



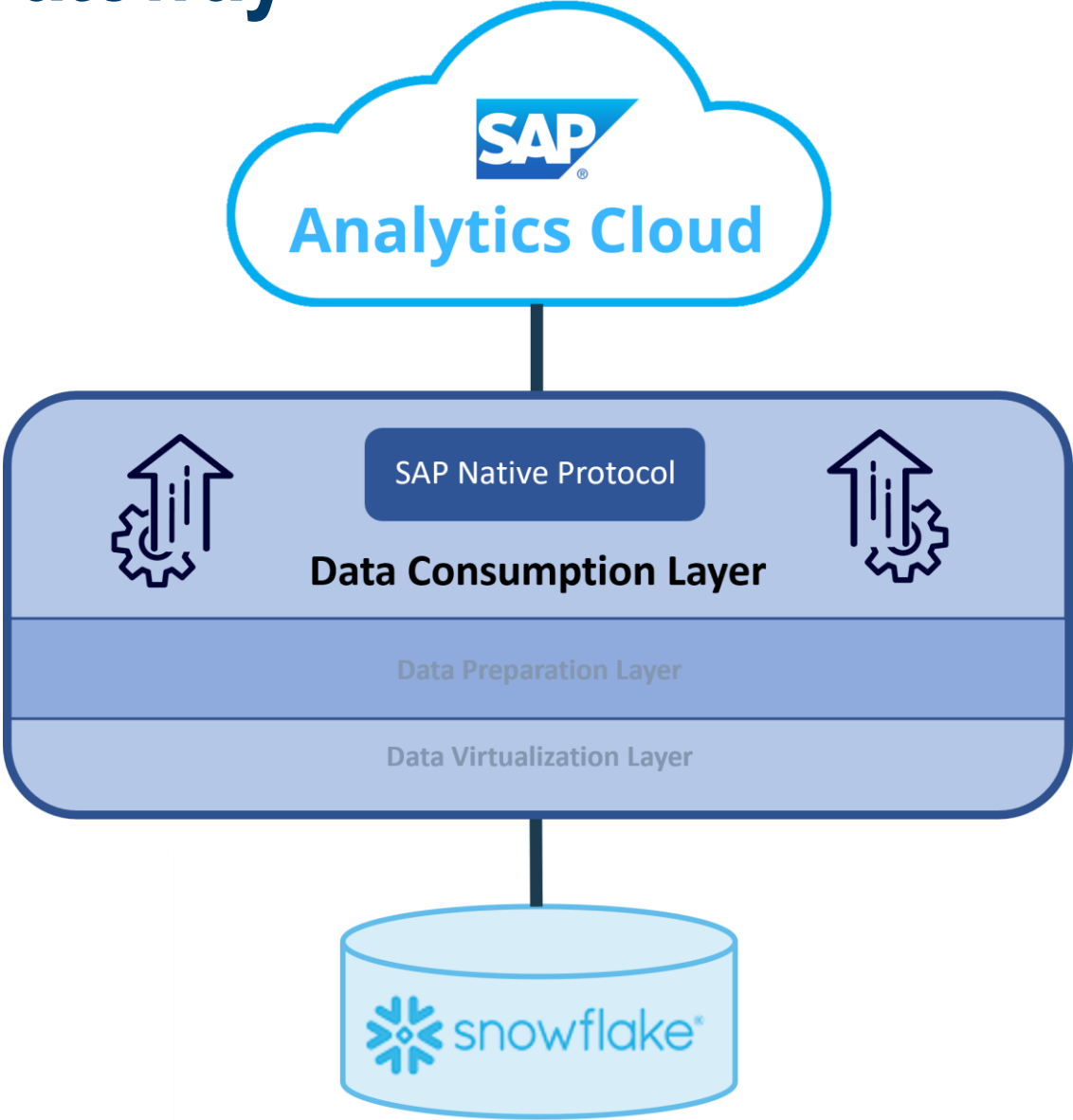
APOS Live Data Gateway



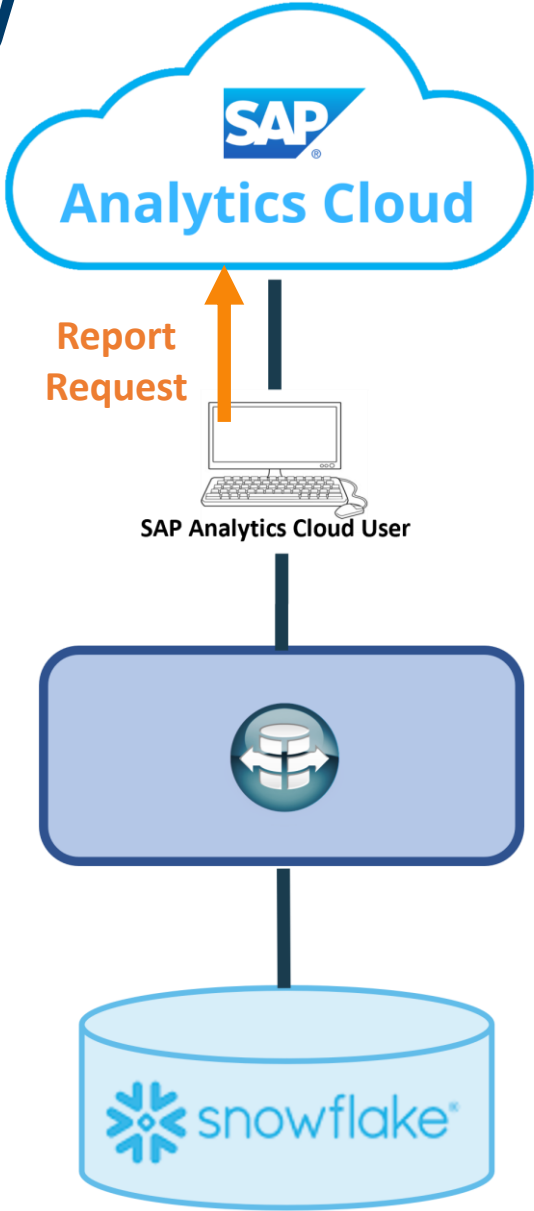
Data Consumption Layer

Key Functions

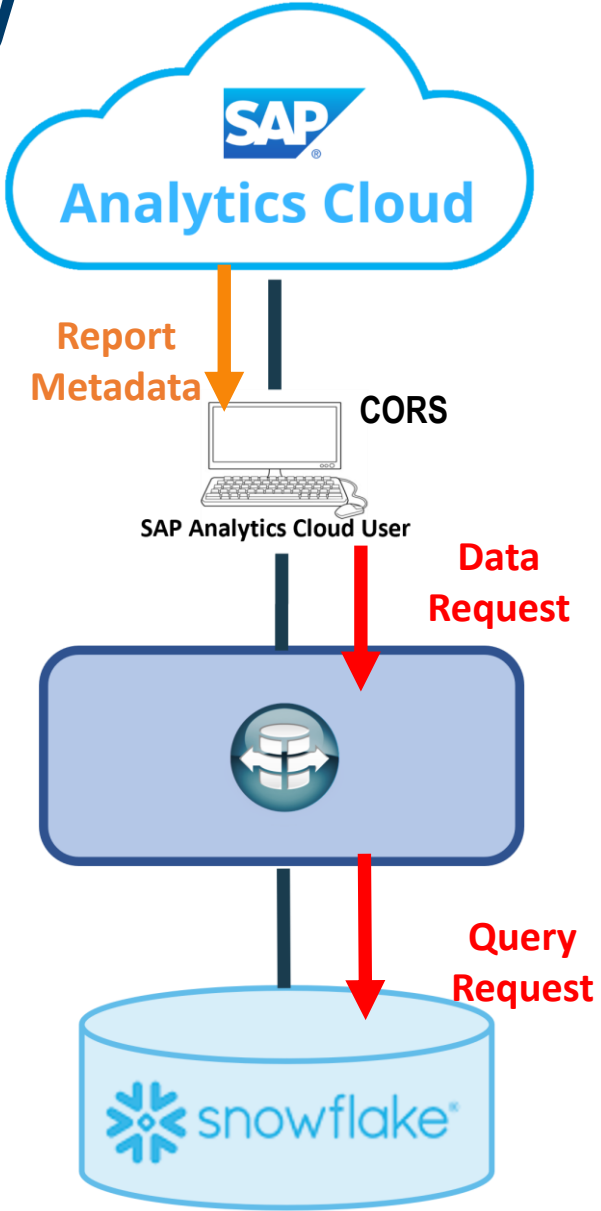
- Establish direct connectivity and communication with SAC User browser
- Supply data via SAP Native Protocol for SAC Story and SAC Application actions



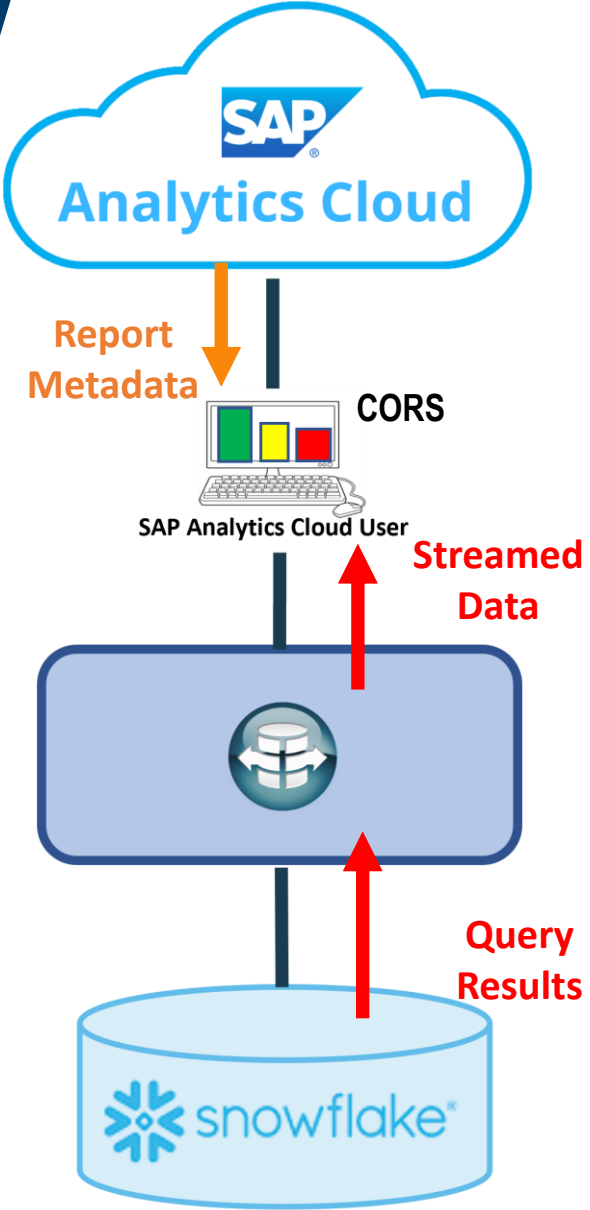
APOS Live Data Gateway



APOS Live Data Gateway



APOS Live Data Gateway





Solution Overview

To see the live demo,
[watch the webinar on demand](#)



Performance

APOS Live Data Gateway



Performance Considerations

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

The screenshot displays the Snowflake Worksheets interface. The top navigation bar includes 'Databases', 'Shares', 'Marketplace', 'Warehouses', 'Worksheets', and 'History'. The main workspace shows a query editor with the following SQL code:

```
1 USE DATABASE SNOWFLAKE_SAMPLE_DATA;  
2 USE SCHEMA TPCDS_SF100TCL;  
3 USE WAREHOUSE APOS;  
4 select count(1) from STORE_SALES; --280,618,558,524  
5
```

The 'Results' section shows a data preview with 1 row and 1 column:

Row	COUNT(1)
1	288010550524

A red double-headed arrow points from the 'COUNT(1)' column header in the data preview to the 'COUNT(1)' label in the query editor's results area. A blue box highlights the 'COUNT(1)' label in the query editor, and another blue box highlights the '288010550524' value in the data preview. The interface also shows a sidebar with database objects and a top right corner with user information 'Golding APOS'.

APOS Live Data Gateway



The screenshot displays the Snowflake console interface. At the top, there are navigation tabs for Databases, Shares, Marketplace, Warehouses, Worksheets, and History. The current view is a 'New Worksheet' with a 'Run' button and a 'Saved 6 days ago' indicator. The left sidebar shows a tree view of database objects, including 'SNOWFLAKE_SAMPLE_DATA' and its tables. The main area contains a SQL 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 query, the 'Results' section shows a data preview with 1 row and 1 column (COUNT(1)). The result value is 288010550524.

Row	COUNT(1)
1	288010550524

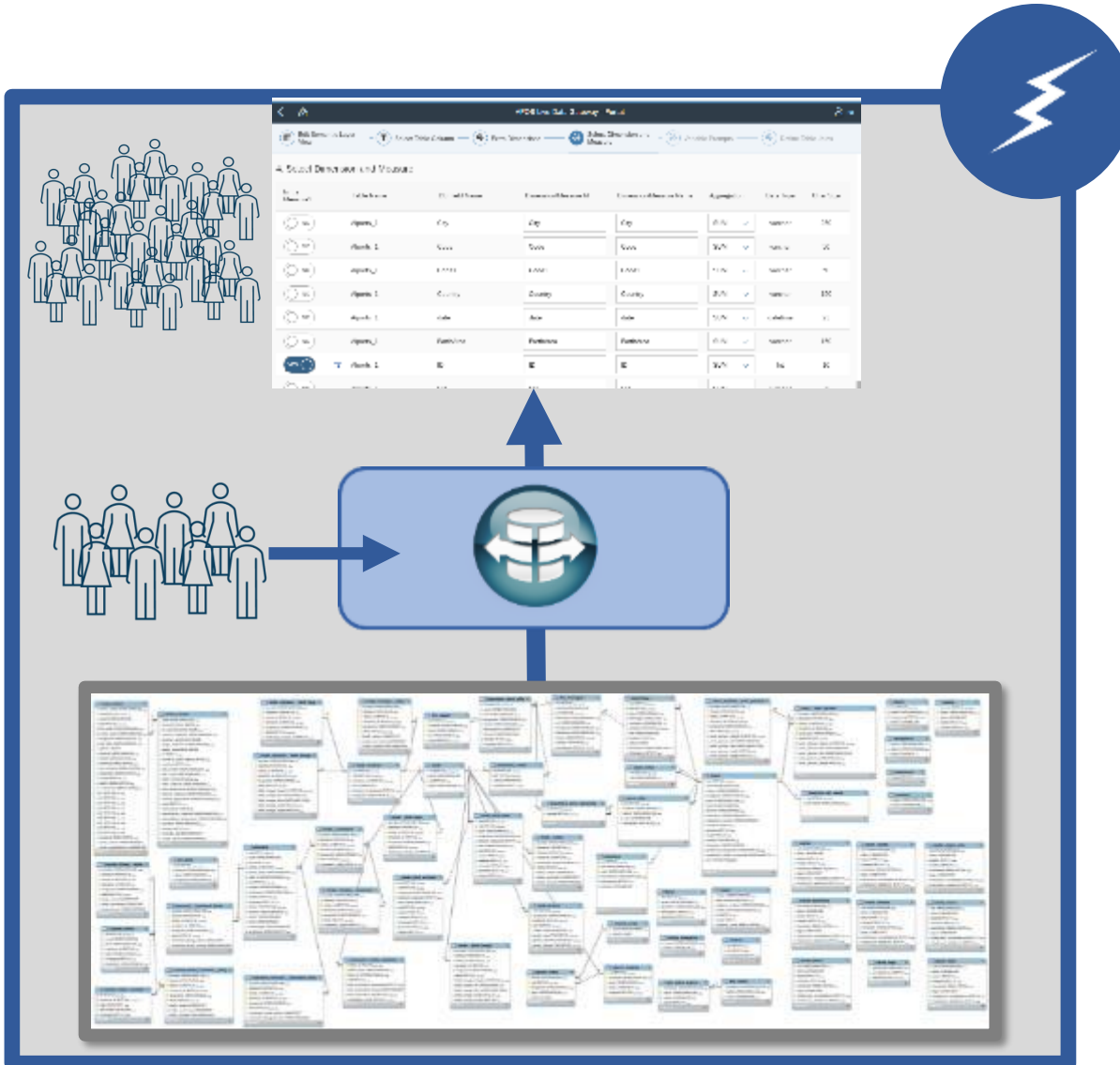
The bottom of the screenshot shows the Windows taskbar with various application icons and the system tray displaying the date and time as 10:04 AM on 2022-11-21.



Data Preparation Layer

To see the live demo,
[watch the webinar on demand](#)

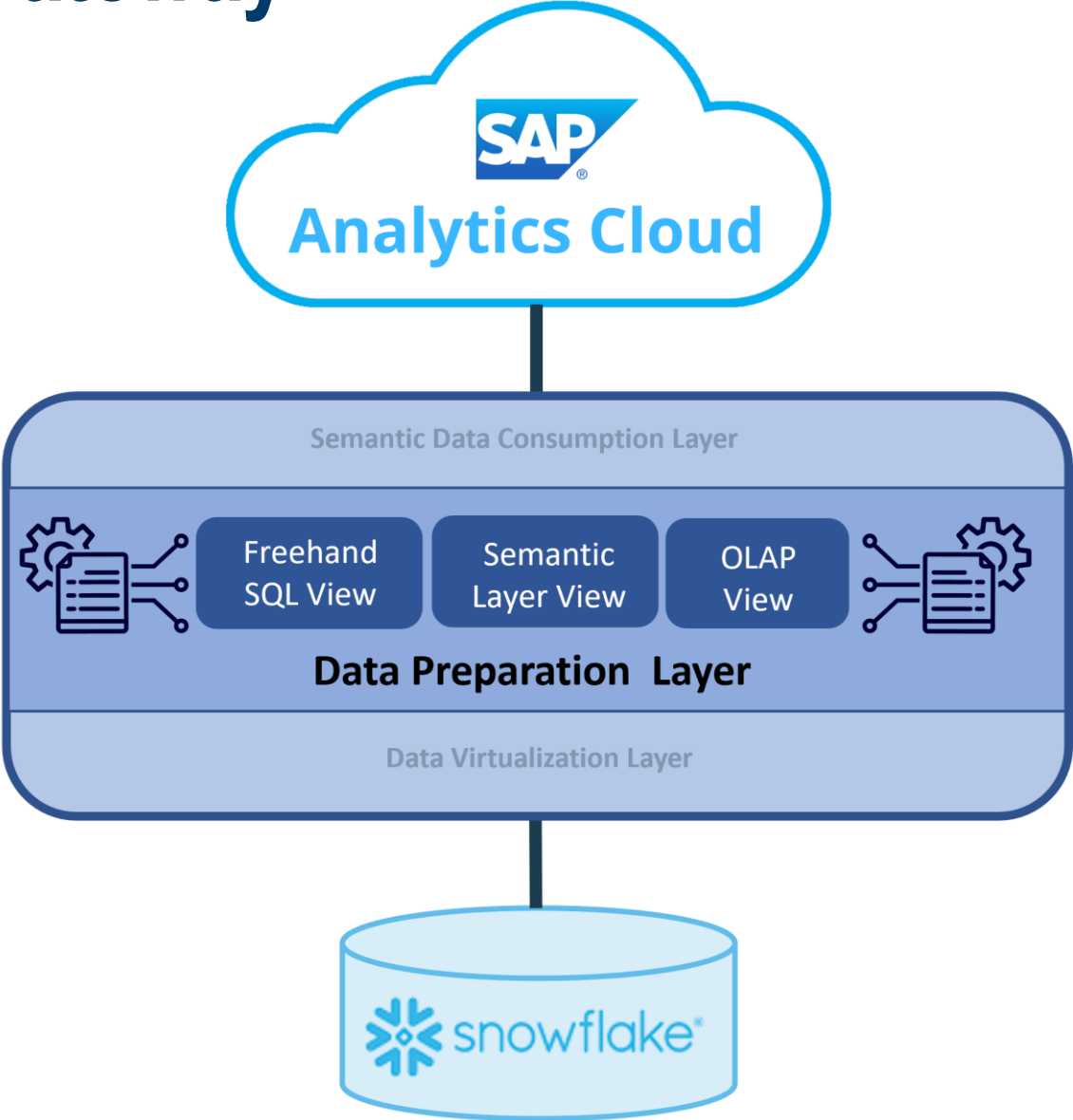
APOS Live Data Gateway



Simplify Snowflake Data Access & Control

- Semantic layer / Business layer
- 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

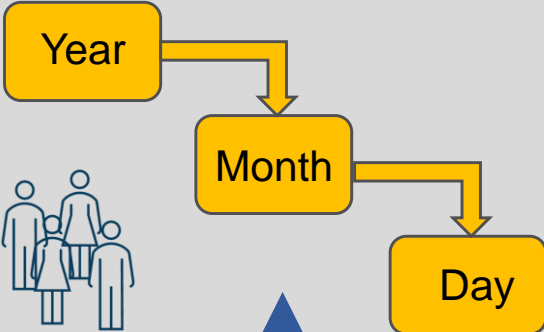




Data Preparation Layer Overview

To see the live demo,
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APOS Live Data Gateway



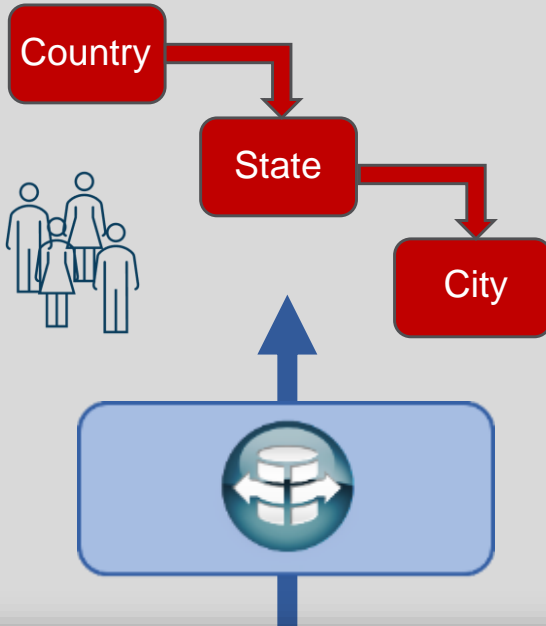
Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
1200025833	28/01/2022	5:058:00 PM	22	605	B2677XS	422.47	USD
1200025834	28/01/2022	5:058:00 PM	18	233	CFT1315M	135.72	USD
1200025835	28/01/2022	5:059:00 PM	42	321	B2678M	424.66	USD
1200025836	29/01/2022	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

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

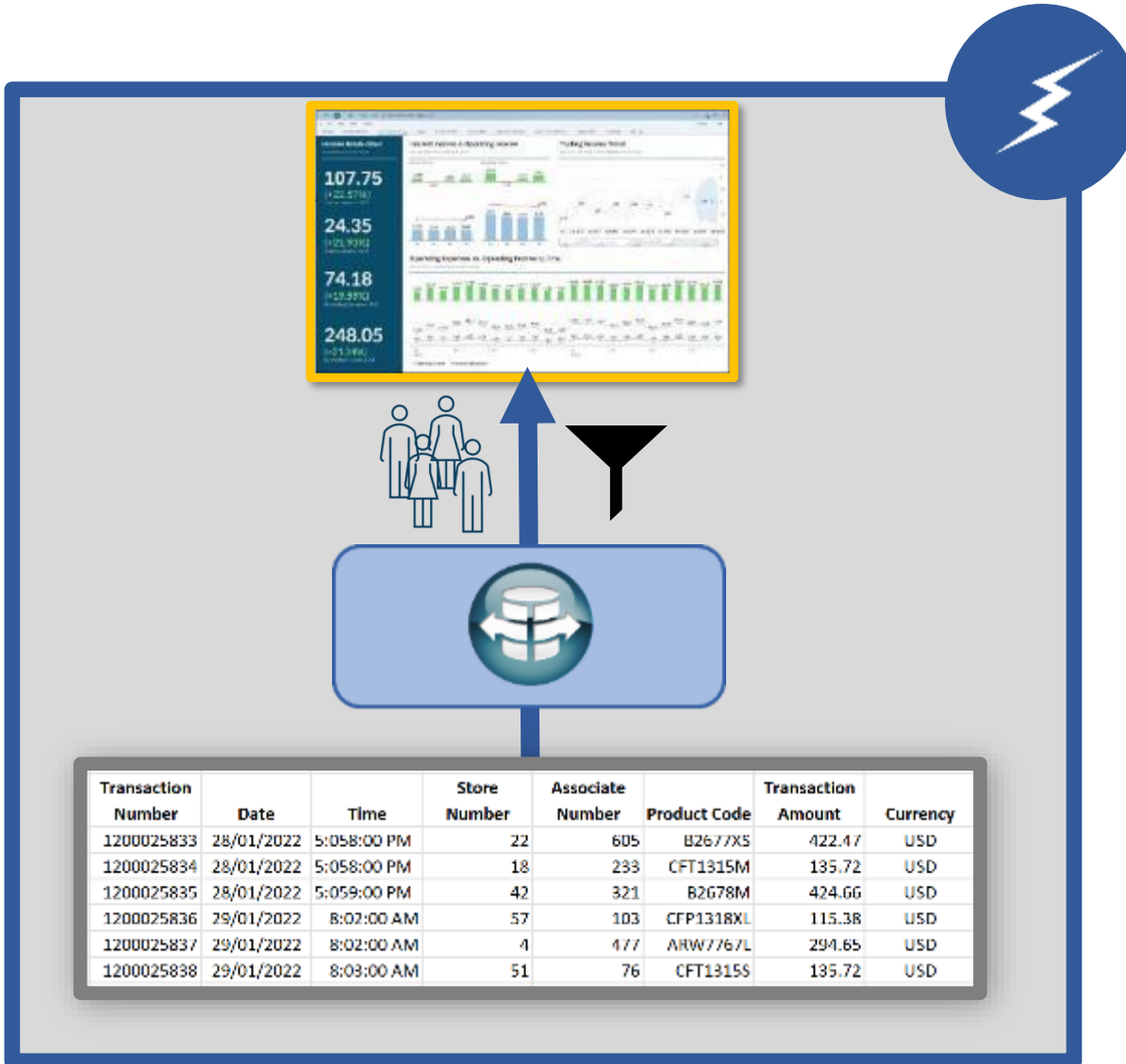


Custom Hierarchy Support

- 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	35.21848	-80.85469

APOS Live Data Gateway



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

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



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
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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

Geospatial Data Support

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

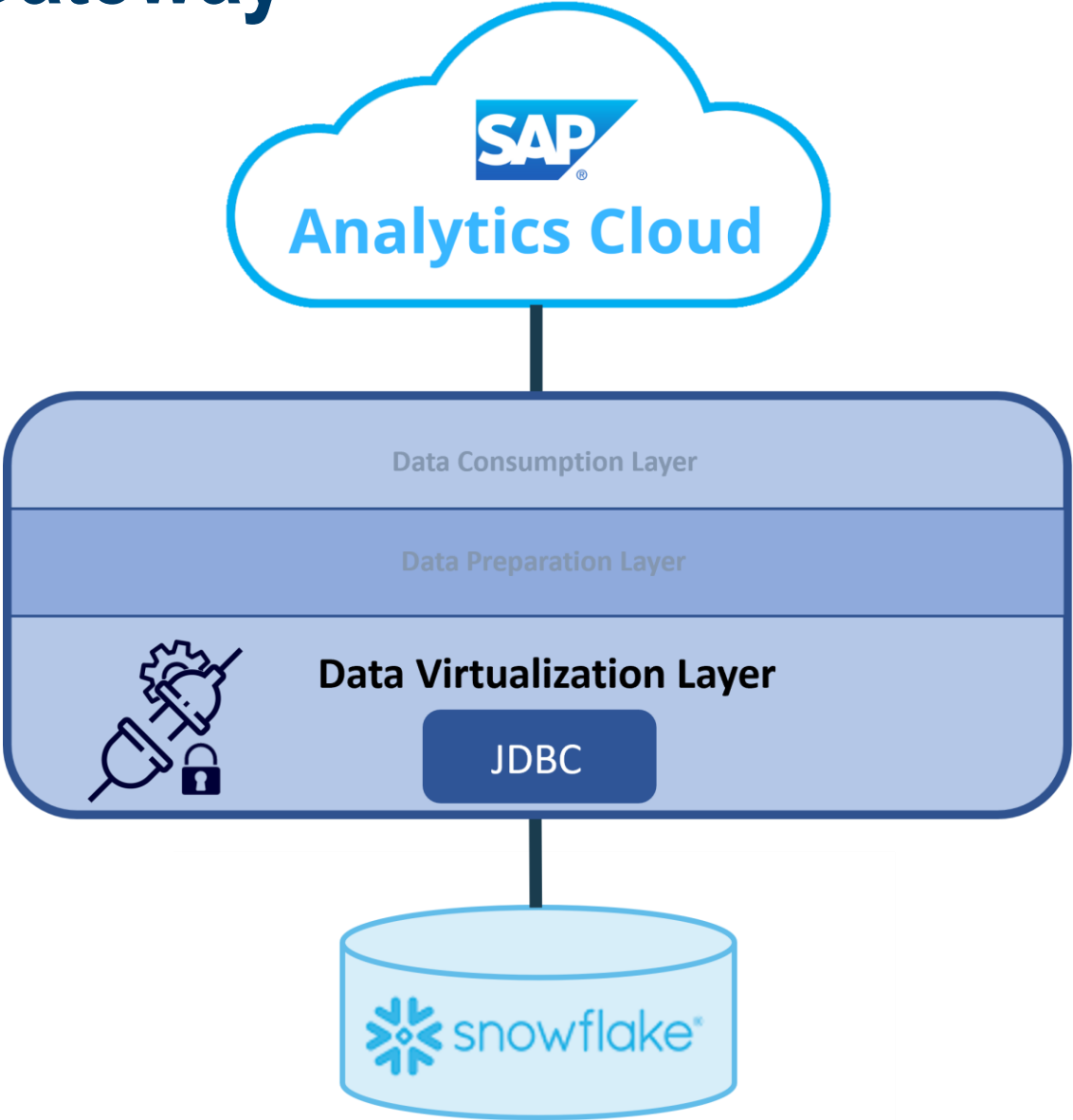
- Geospatial Dimensions support
- Multiple Projections supported
- Multiple Datasource Types supported
- Configure Multiple Geo Dimensions



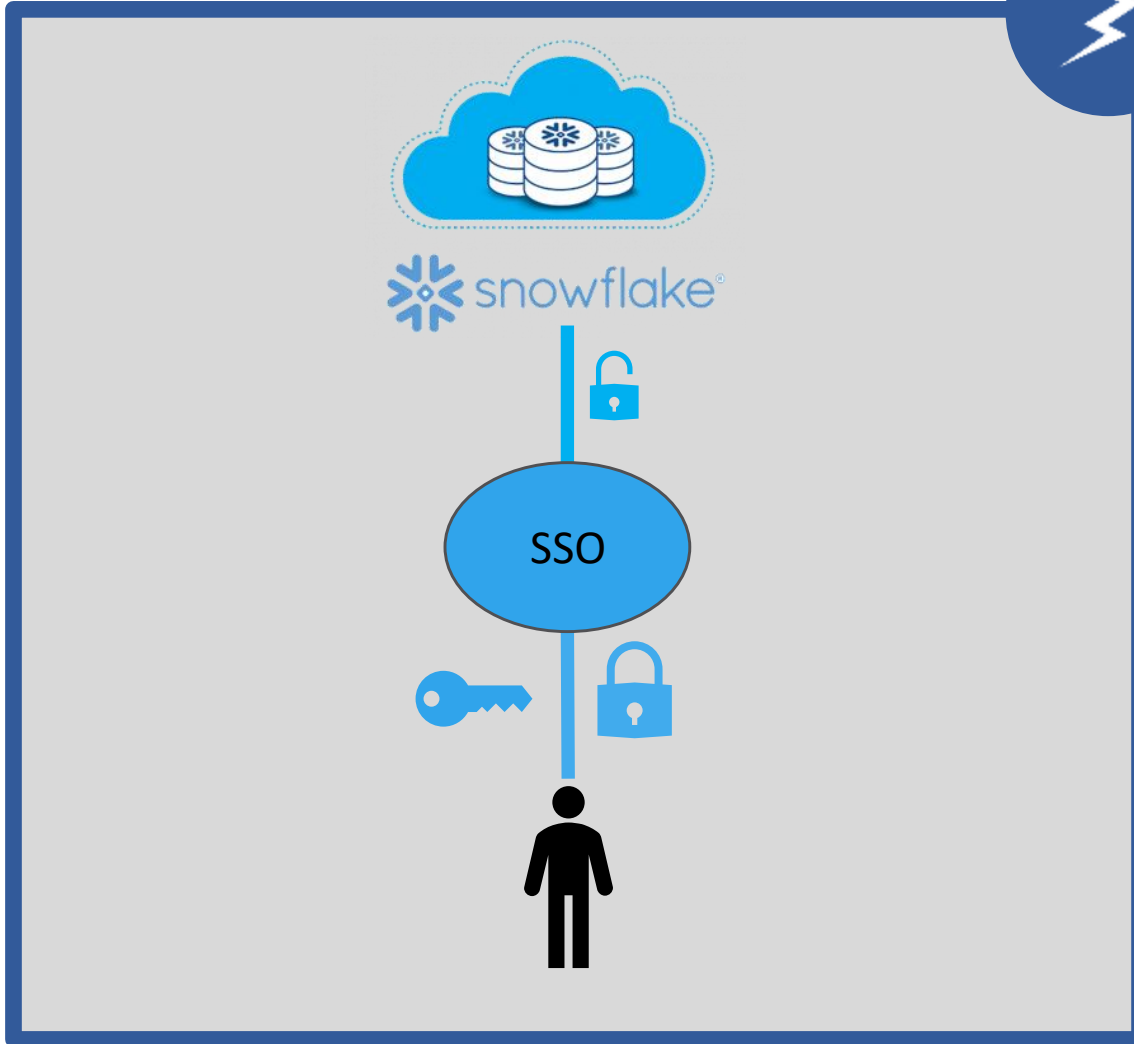
Data Virtualization Layer

To see the live demo,
[watch the webinar on demand](#)

APOS Live Data Gateway



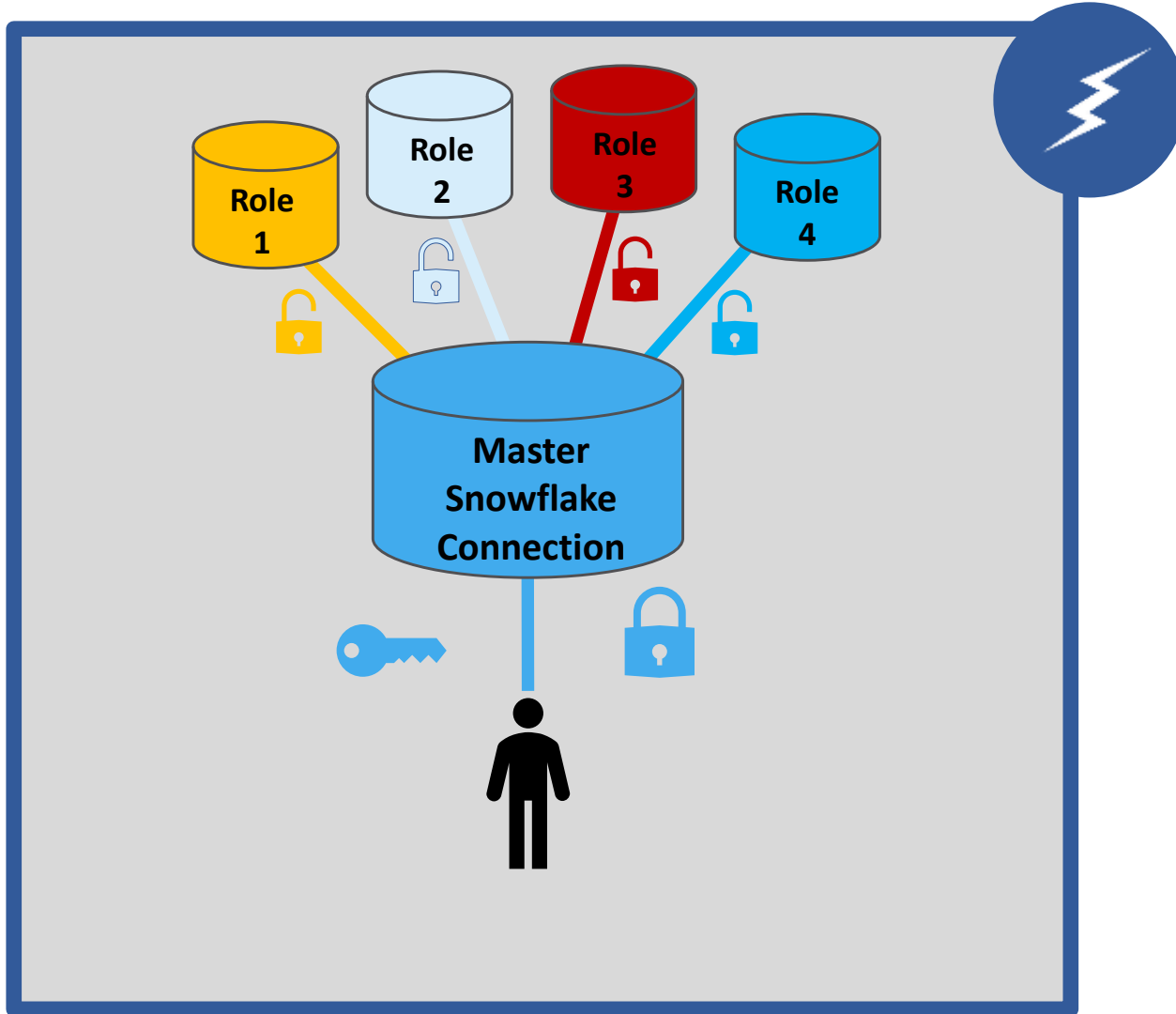
APOS Live Data Gateway



Leverage Snowflake Security

- Integrated to enforce database security with SAP Analytics Cloud security
- Leverage Snowflake security structures
- Unified security authentication
- Simplified user experience

APOS Live Data Gateway



Shared Connectivity with Snowflake Roles

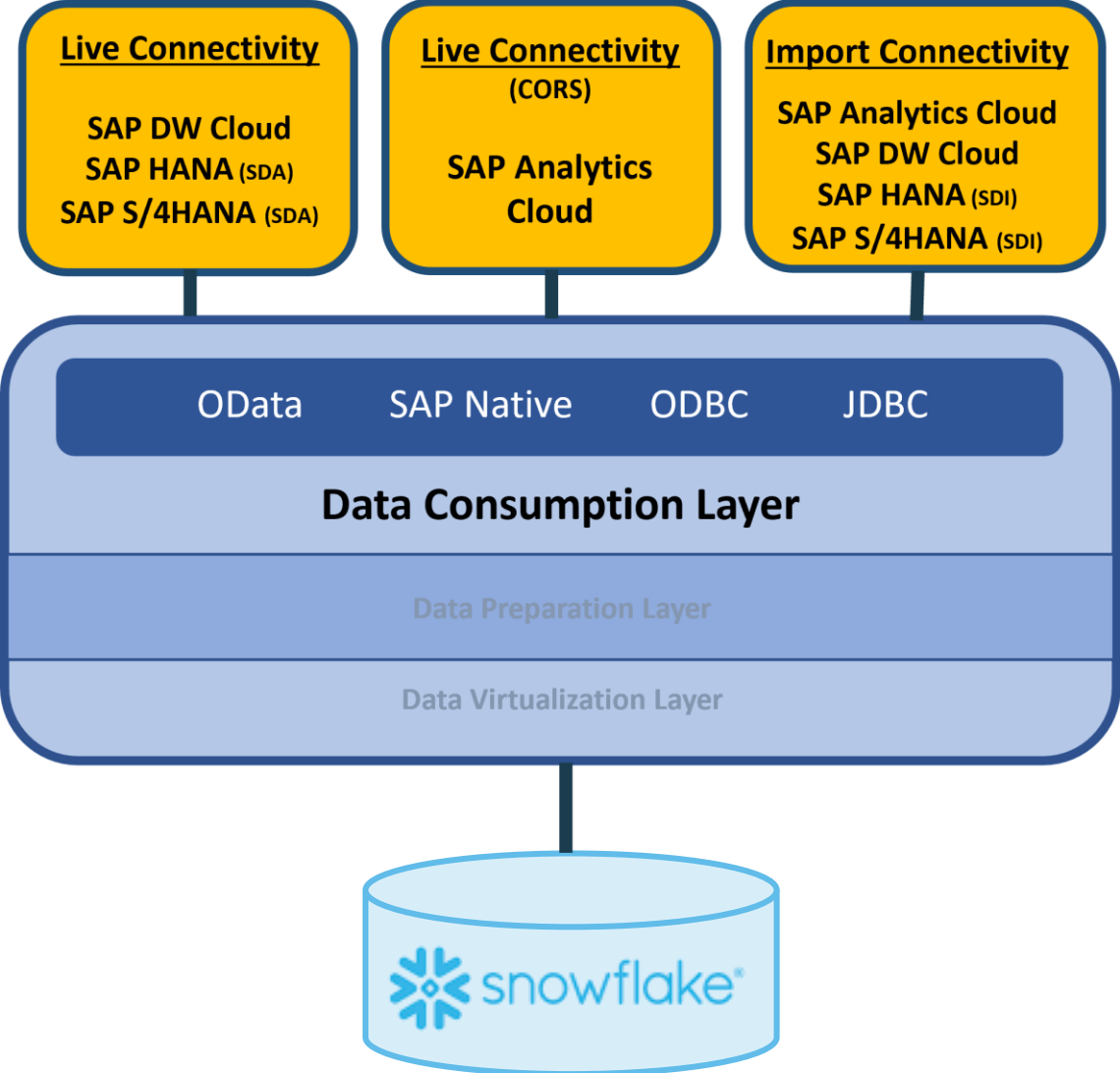
- Single point of SSO for multiple Snowflake connections for SAP Analytics Cloud
- Master connection can have multiple child connections associated with it
- Each connection can have different Snowflake Roles assigned to it
- Removes need for multiple SAC connections



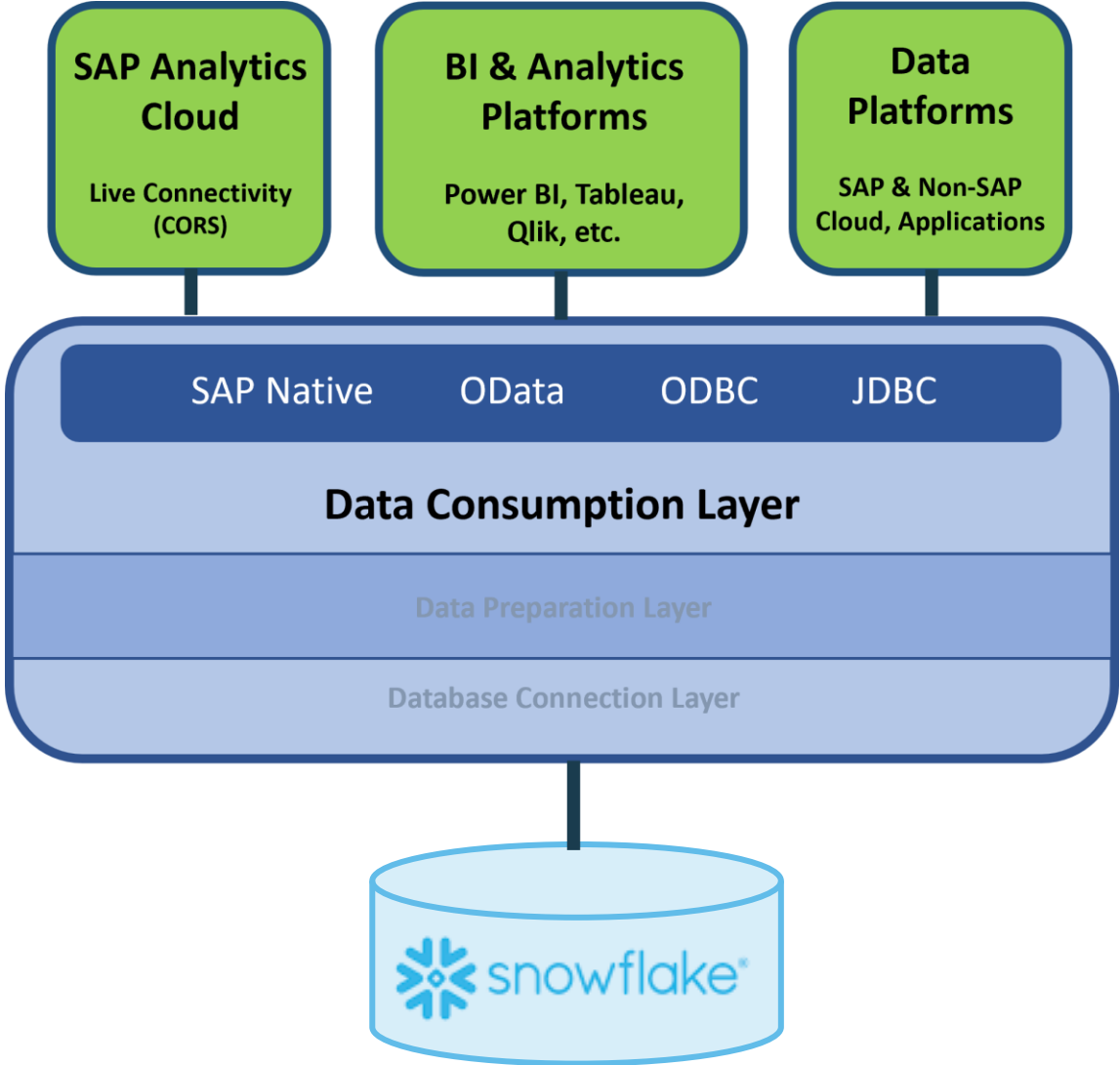
Connection & Security Overview

To see the live demo,
[watch the webinar on demand](#)

APOS Live Data Gateway – SAP Landscape



APOS Live Data Gateway – Other Consumers



APOS Live Data Gateway – Session Summary

- Technology Introduction
 - SAP Analytics Cloud
 - Snowflake Data Cloud
- SAP Analytics Cloud Connectivity Options
- APOS Live Data Gateway
 - Overview
 - Report Consumer & Developer Experience
 - Data Preparation & Transformations
 - Connections & Security



APOS Solutions for SAP Analytics Cloud



APOS Live Data Gateway

- Live Connectivity from SAC to wide range of data sources



APOS Publisher for Cloud

- Bursting and Distribution of SAC content



APOS Insight for Cloud

- Enhanced Monitoring, Auditing and Validation of SAP Analytics Cloud



Upcoming Event



Unleash the Power of APOS Publisher for Cloud: Enhanced SAP Analytics Cloud Report Broadcasting

Webinar – May 18th - 11am EDT

Join us for this live session looking at how the APOS Publisher for Cloud solution delivers on enterprise-level report broadcasting and distribution requirements. Whether you have BEx Broadcaster or BusinessObjects Publications process replacement needs, or you have brand new SAC report distribution requirements, this session will give you a clear view into APOS Publisher for Cloud's capabilities and how it can work for you.

You will learn:

- **How to leverage automated, data-driven SAC report broadcasting with:**
 - Data-driven dynamic broadcasting rules
 - Report broadcast destinations
 - Multiple format options
 - Consolidation of multiple reports
 - Security/filtering/variables



Register at www.apos.com

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

STAY CONNECTED



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Please enter your questions in the Q&A panel.



Thank You!

Get in Touch

WEBSITE

www.apos.com

EMAIL ADDRESS

info@apos.com

PHONE NUMBER

(+1) 519 894 2767

