

WEBINAR

Entzünden Sie ihr Analytics:

**Neue Möglichkeiten der
Konnektivität für die SAP
Analytics Cloud mit Non-SAP-
Datenquellen**

Today's Session

Key Topics

- Introduction
- SAC Connectivity Options
- Expanded Import Connectivity for non-SAP Data
- Extract and Export SAC Planning Data
- Direct Live Connectivity to non-SAP Data

- Q&A – see webinar console

Today's Presenters:



Michael Mueller

Customer Development
APOS



ALAN GOLDING

Solution Consulting Manager
APOS



Who is APOS?

- 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 Analytics Cloud, SAP BusinessObjects, and SAP data analytics
- Strategic SDK development and consulting
- Hundreds of customers globally



HOUSEKEEPING



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



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



Download the **handouts** in the panel



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

APOS Solutions for SAP Analytics Cloud



APOS Publisher for Cloud

- Automated broadcasting and distribution of personalized SAC reports to target user groups
- Distribute reports to the right people, right time, right location, right format

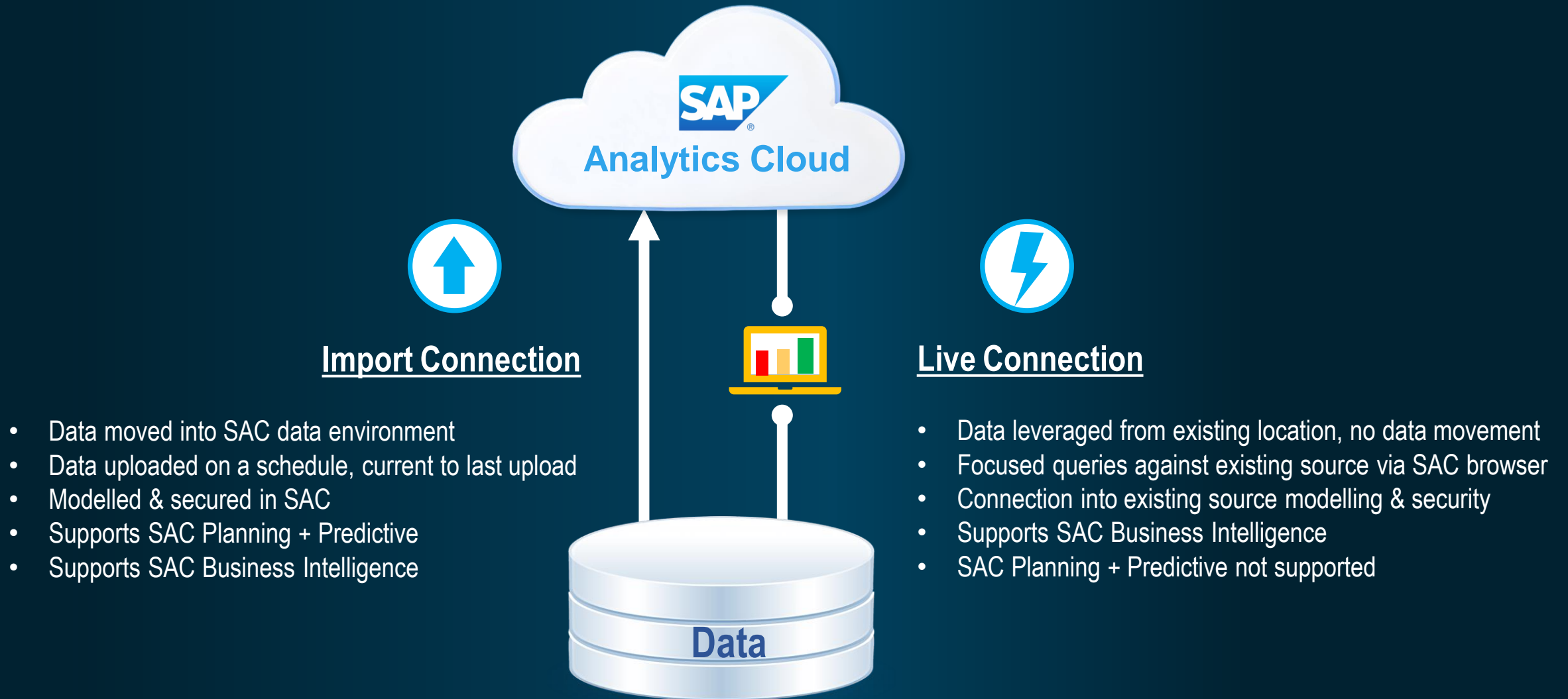


APOS Data Gateway

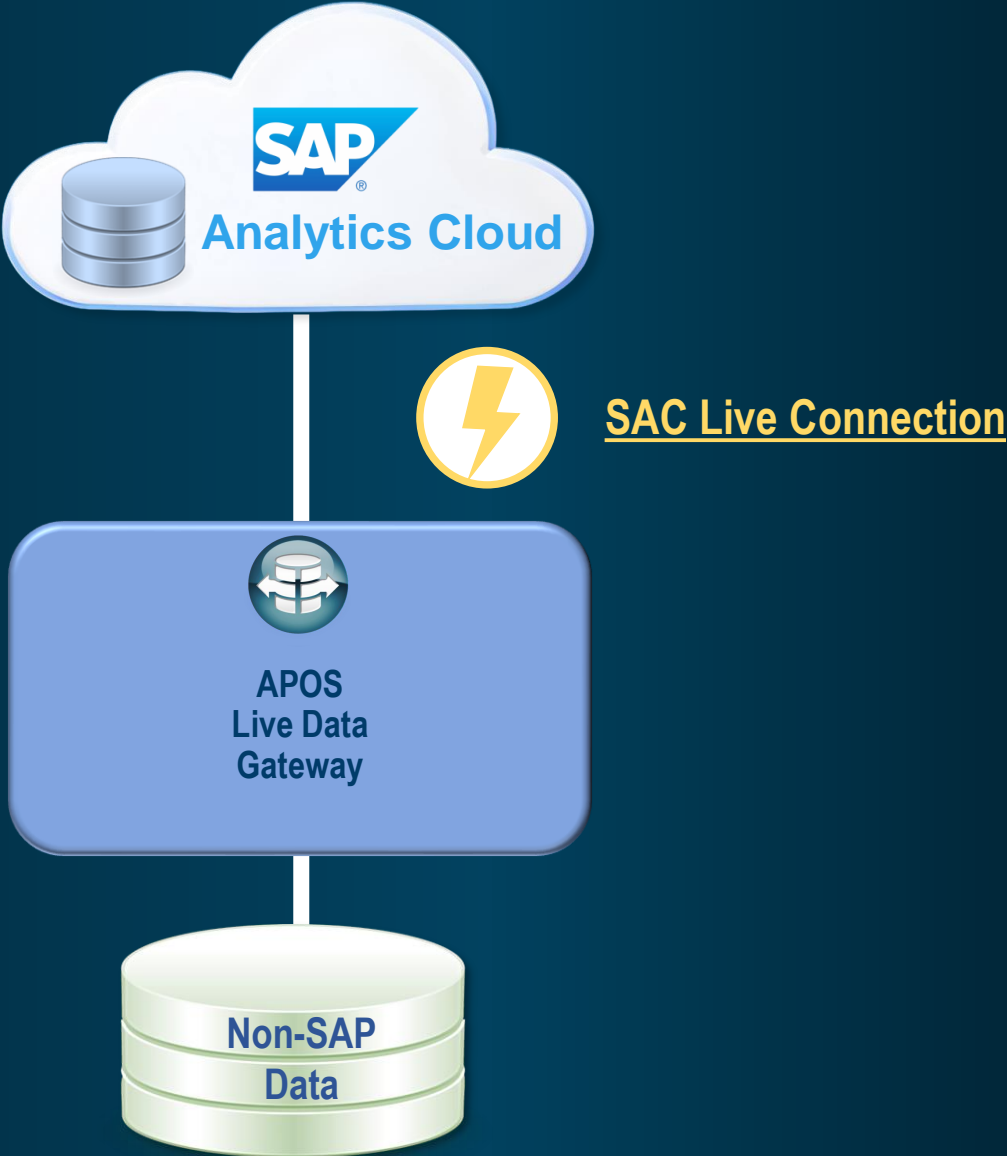
- Live connectivity from SAC to wide range of data sources
- Import data from wide range of sources into SAC
- Extract and Export data from SAC

SAP Analytics Cloud – Connectivity Options

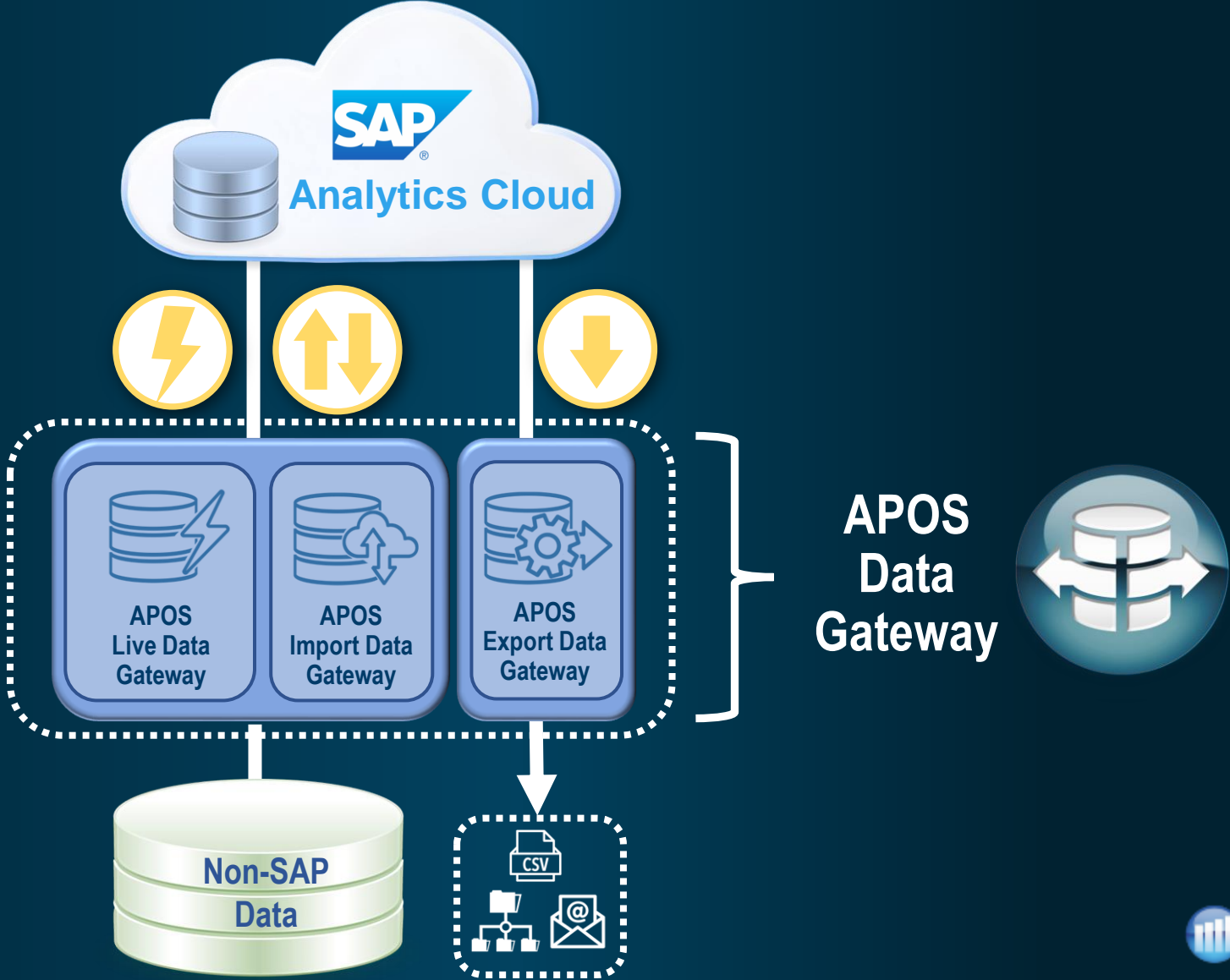
SAC Connectivity



SAC Connectivity

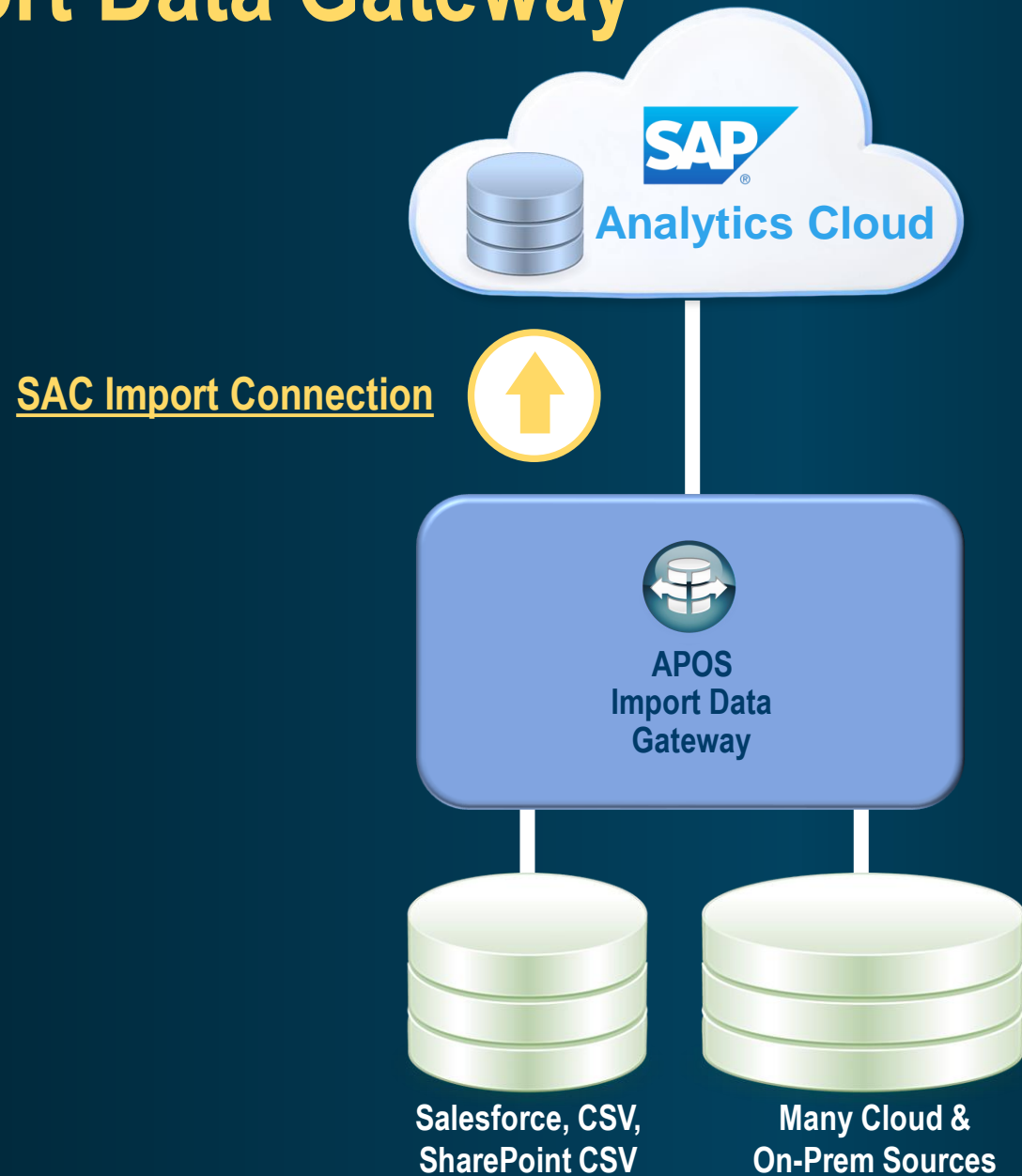


Expanded SAC Connectivity

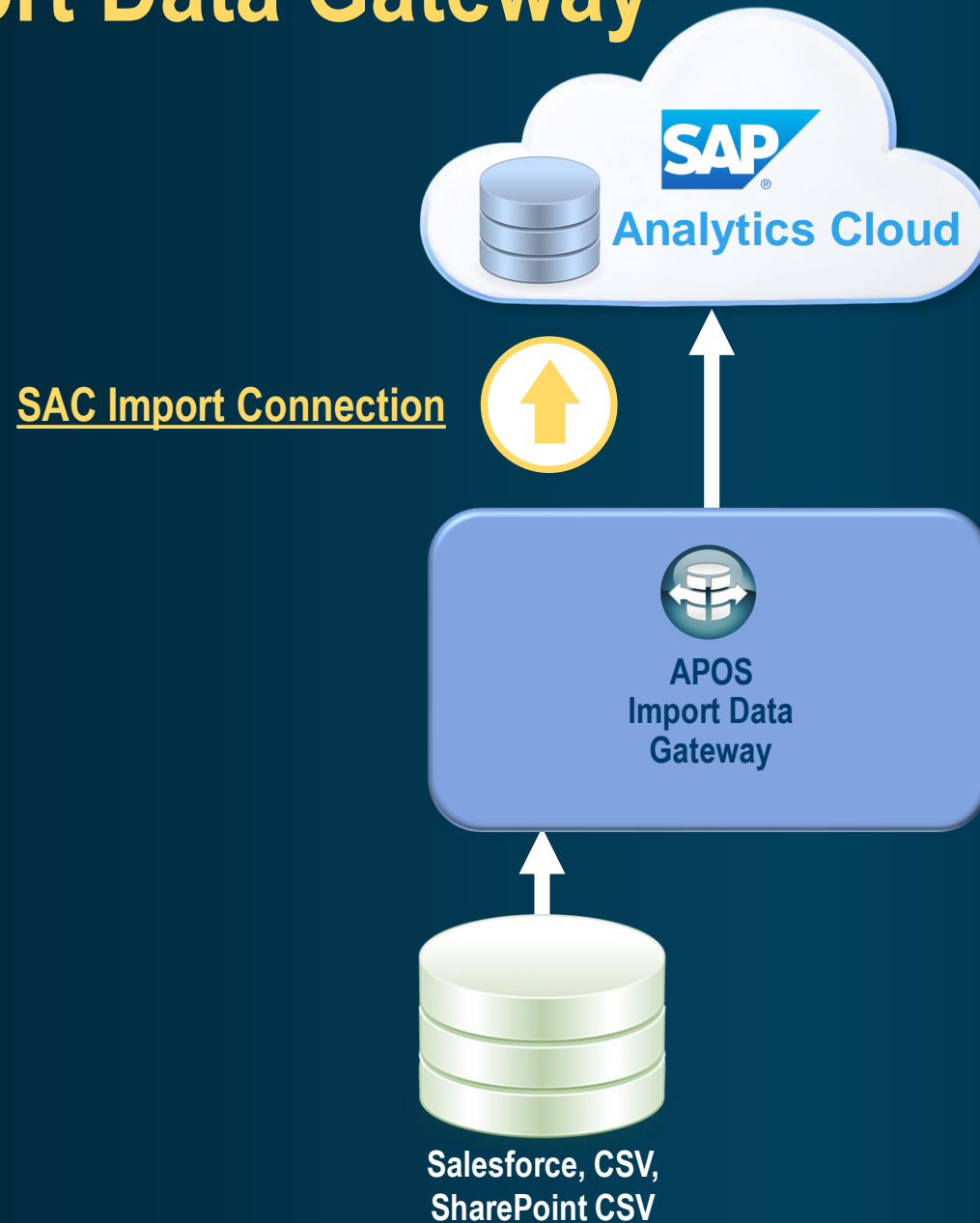


APOS Import Data Gateway

APOS Import Data Gateway



APOS Import Data Gateway



APOS Import Data Gateway

The screenshot shows the SAP Help Portal interface. At the top left is the SAP logo and the text 'Help Portal (Documentation)'. To the right are navigation links: 'Browse by Product', 'SAP Learning Journeys', and 'What's New'. Below the header is a navigation pane on the left with a list of topics. The current page title is 'Import Data Connection to Salesforce'. The main content area includes a description, a 'Prerequisites' section, and a 'Caution' box with a deprecation warning.

SAP Help Portal (Documentation) Browse by Product | SAP Learning Journeys | What's New

↓ ☰ ↑ ⏪ ★ Favorite | 📄 Download PDF | 🔄 Share

Import Data Connection to OData Services
Import Data Connection to SAP Integrated Business Planning
Import Data Connection to Salesforce
Import Data Connection to an SQL Database
Import Data Connection to Qualtrics
> Use SAP Integration Suite Open Connectors
 Sharing an Import Data Connection
> Creating Export Data Connections
> Data Preparation and Wrangling (Datasets and Models)
> Data Analyzer

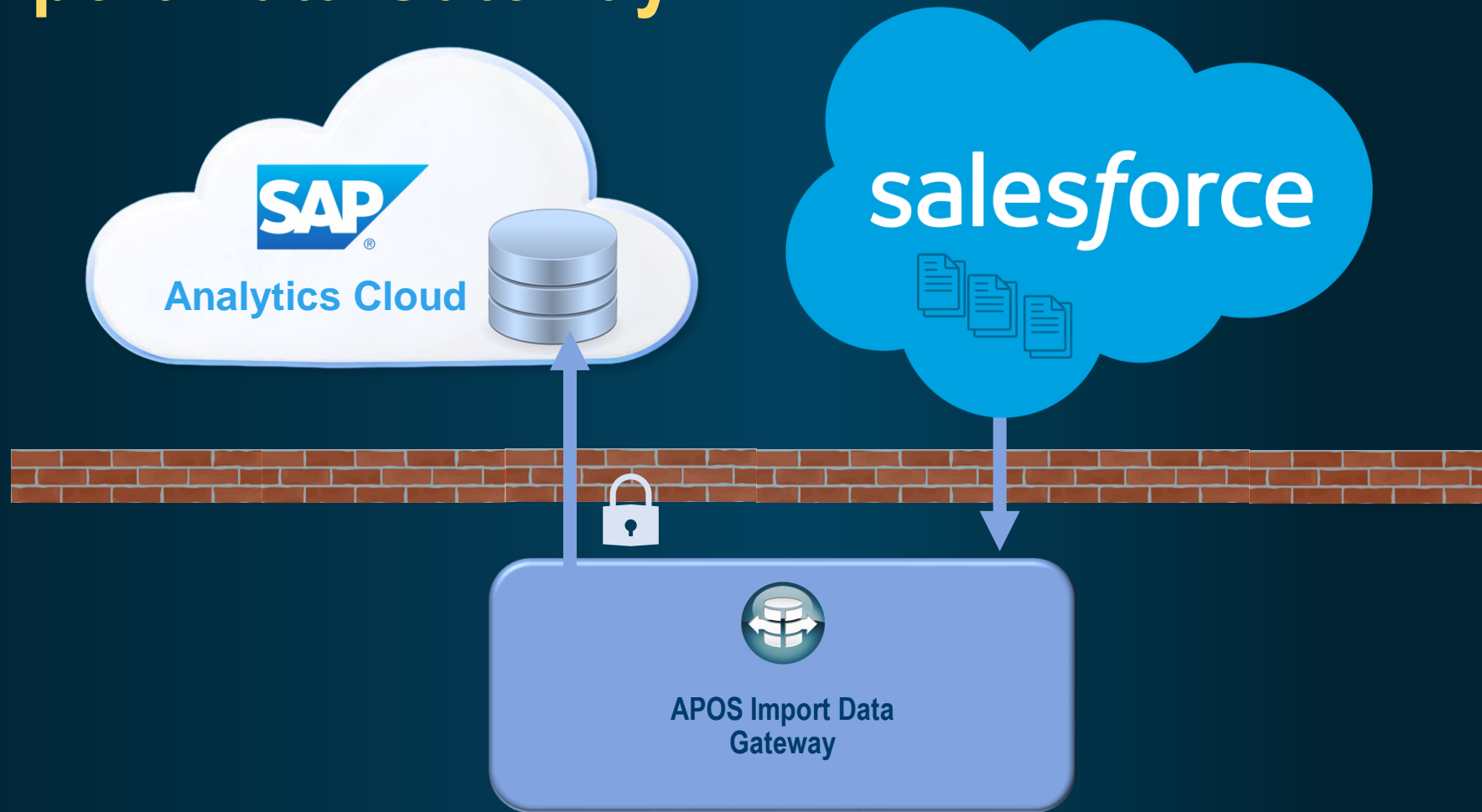
Import Data Connection to Salesforce

You can create a connection that allows you to import data from salesforce.com (SFDC).

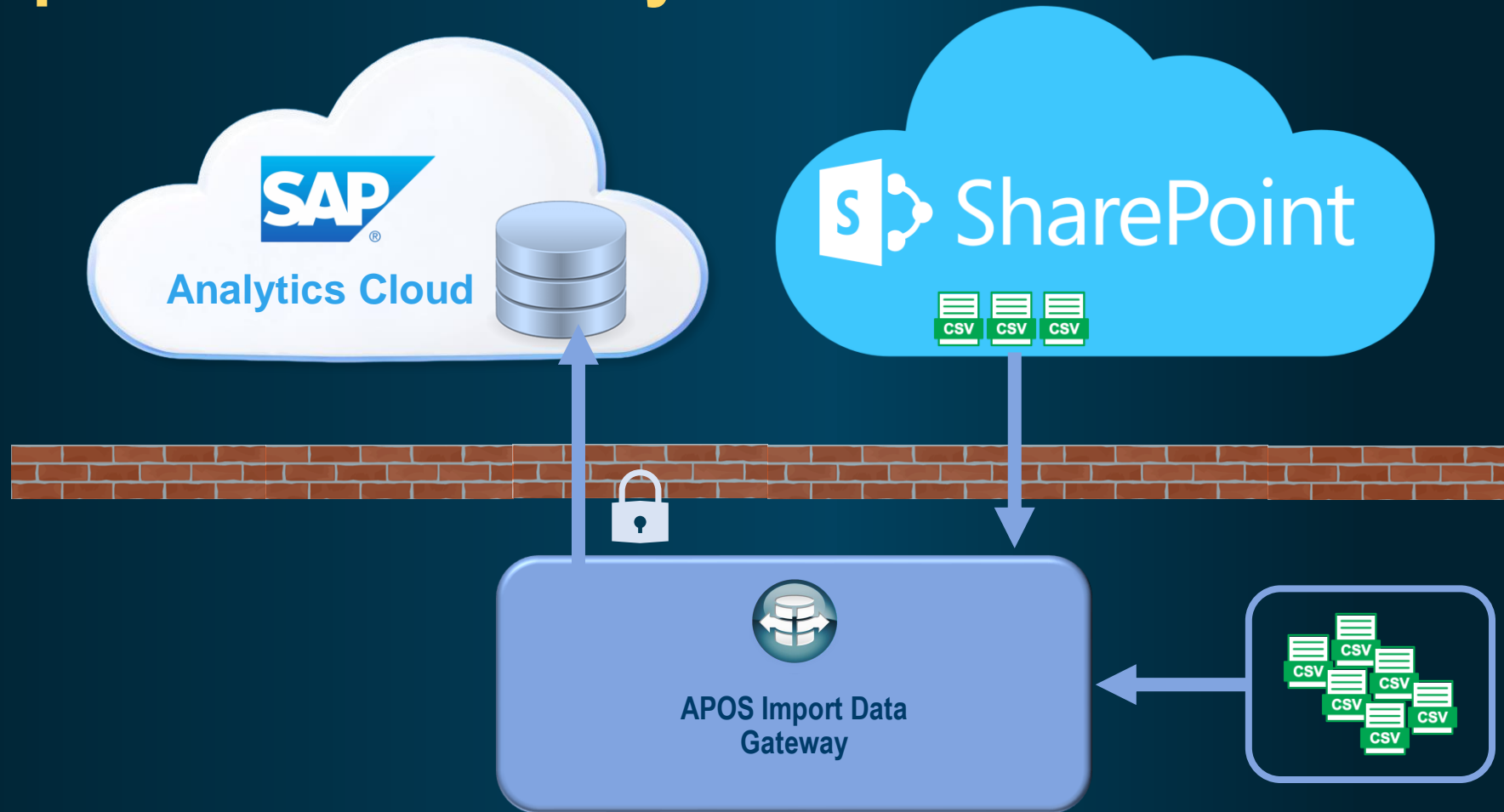
Prerequisites

⚠ Caution
Salesforce connection will be deprecated in QRC4 2024. Please utilize a SQL Database connection using JDBC or APOS Live Data Gateway for Acquired Connections. See SAP Note [3402695](#).

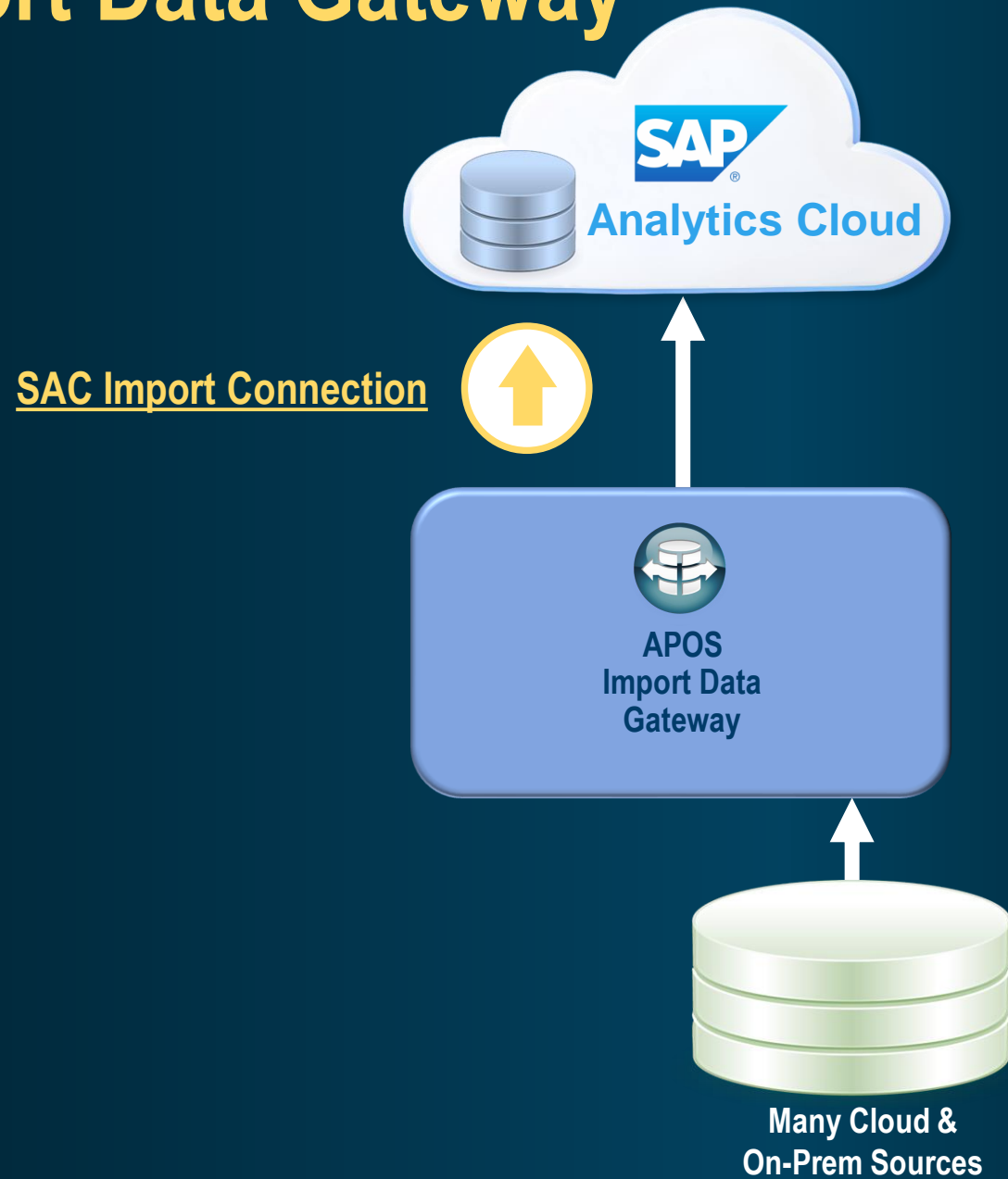
APOS Import Data Gateway



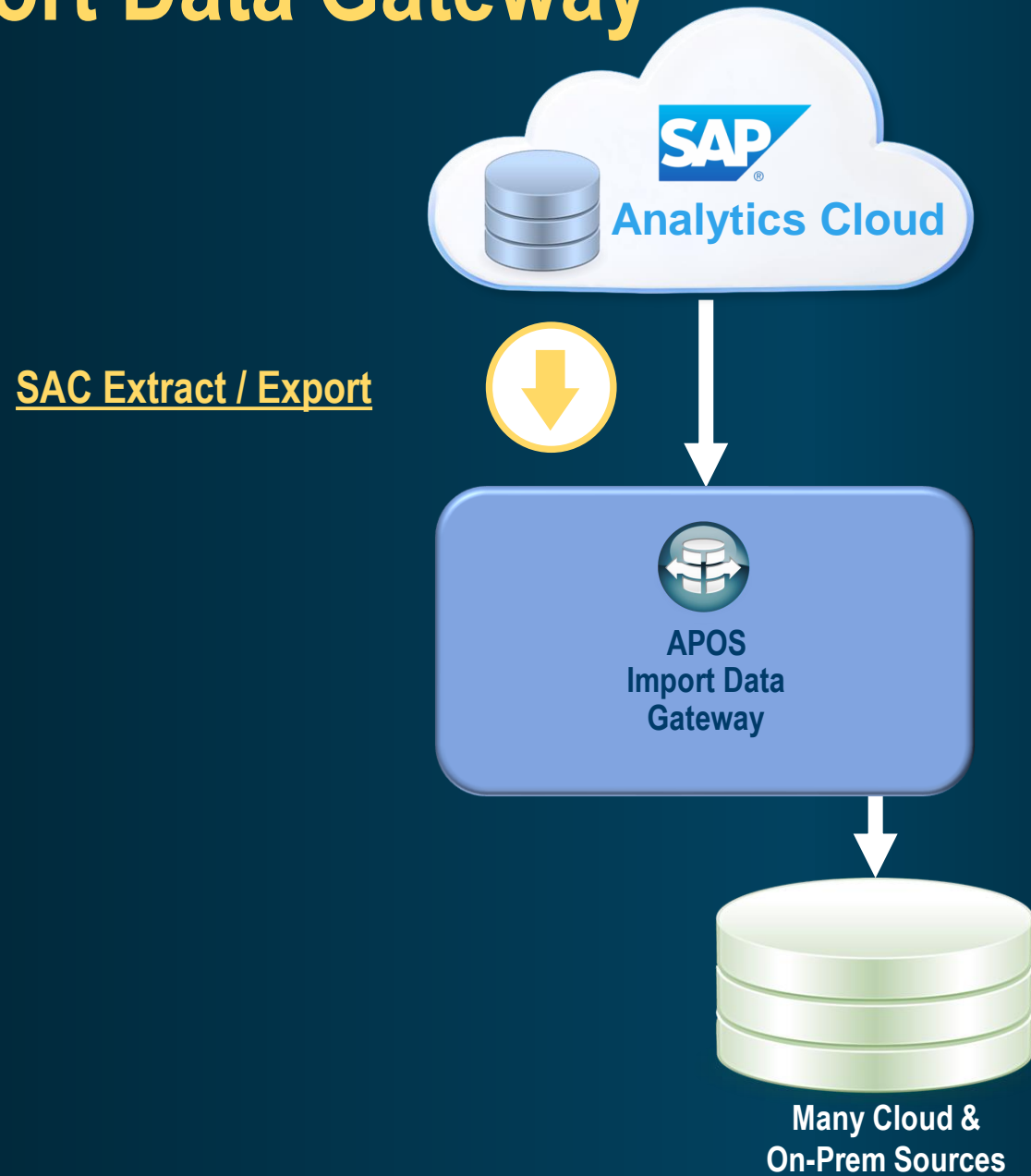
APOS Import Data Gateway



APOS Import Data Gateway

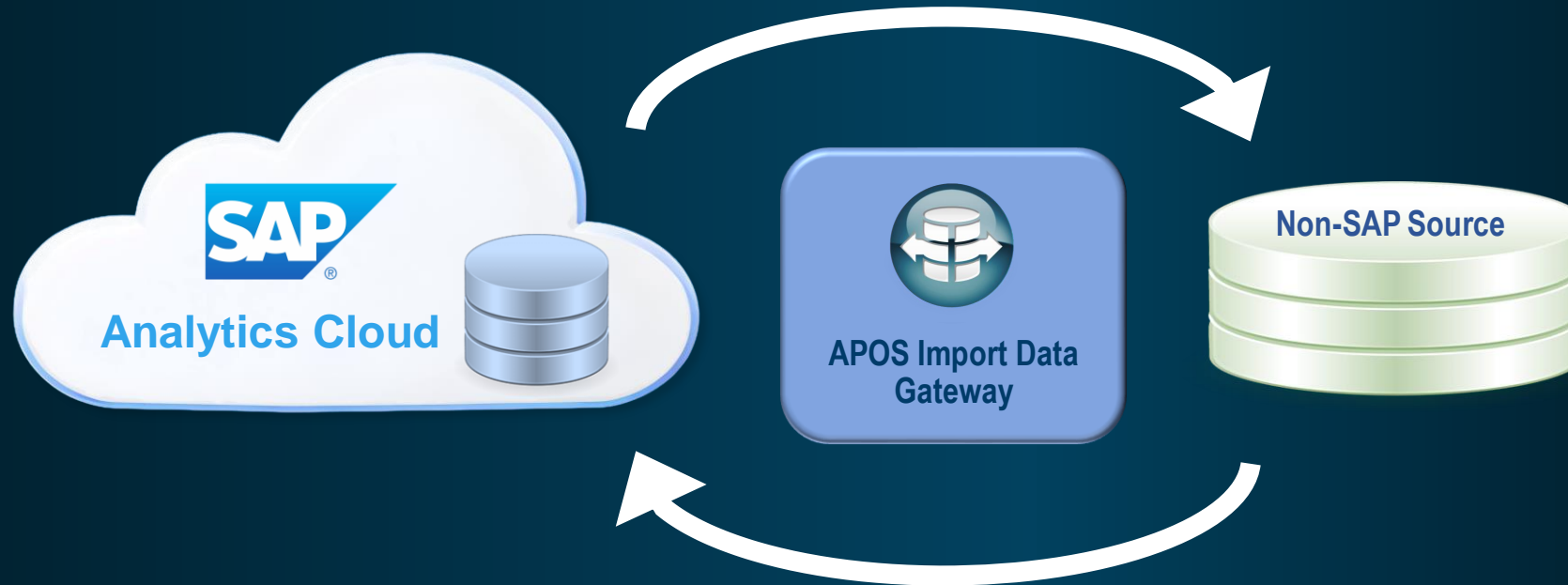


APOS Import Data Gateway



APOS Import Data Gateway

Bi-Directional Data Process



Full Cycle Planning Data



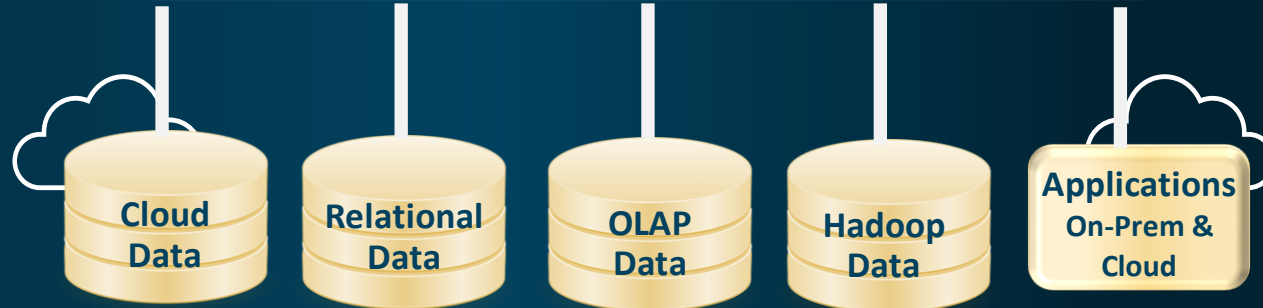
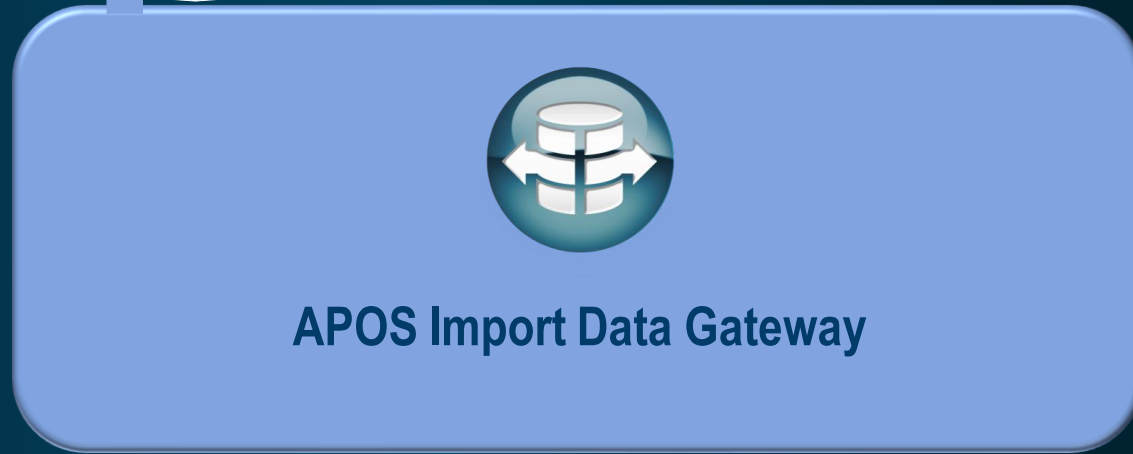
Alan Golding
Solution Consulting Manager
APOS

APOS Import Data Gateway

Direct SAC Import connection

No SAP Cloud Connector/Agent required

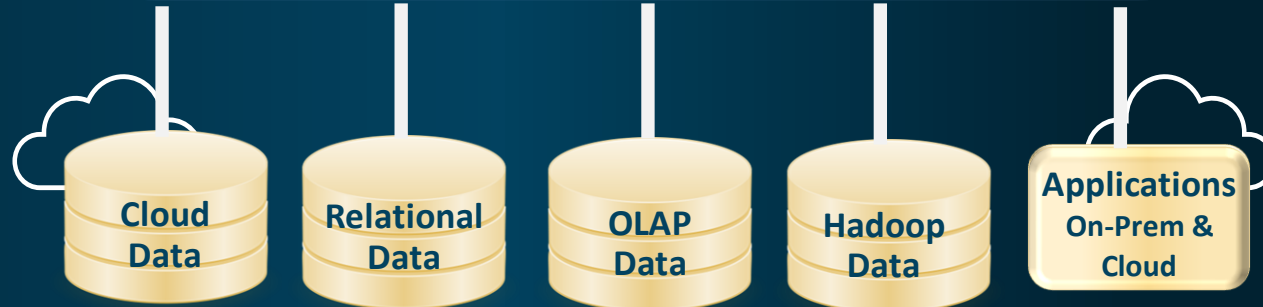
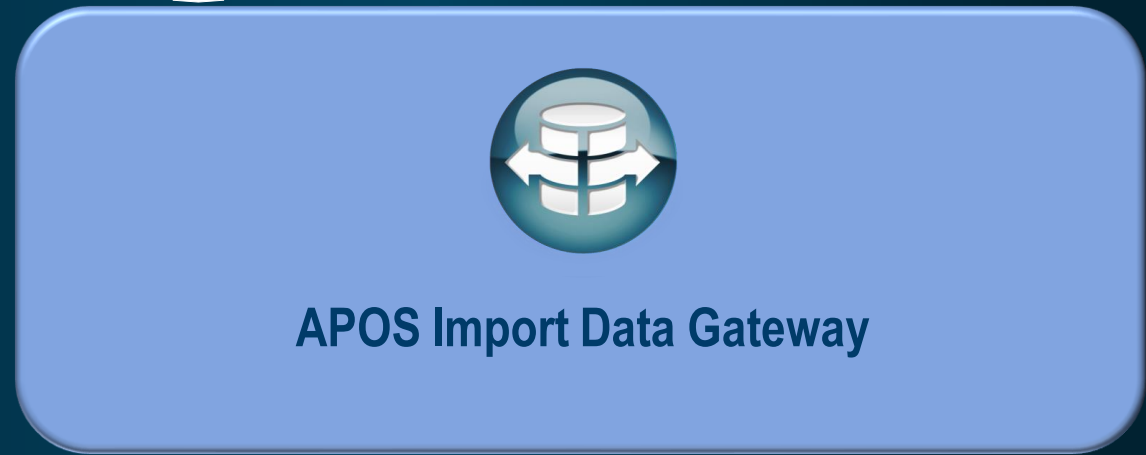
- Easy to deploy
- Secure communication
- Scheduled data uploads
- Full or Delta data uploads
- Field Mapping
- Data Modelling



APOS Import Data Gateway

Direct Extract and Load of SAC data

- Secure communication
- Scheduled data exports
- Extract SAC Planning data
 - Load into external database
 - Load into CSV file (coming soon)



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 Analytics
- Google BigQuery
- Google Cloud Platform
- Hortonworks
- Informix
- Microsoft SQL Server
- Microsoft Analysis Services
- Azure Blob
- Mongo DB, Mongo DB Atlas
- MySQL
- Netezza
- Oracle
- Oracle Exadata
- Palantir
- Postgres
- Presto
- Salesforce
- Snowflake
- Sybase IQ, Sybase SQL Anywhere
- Teradata
- SAP BusinessObjects Universes (UNV, UNX)
- SAP BW - version 7.3 and higher
- JDBC connectivity

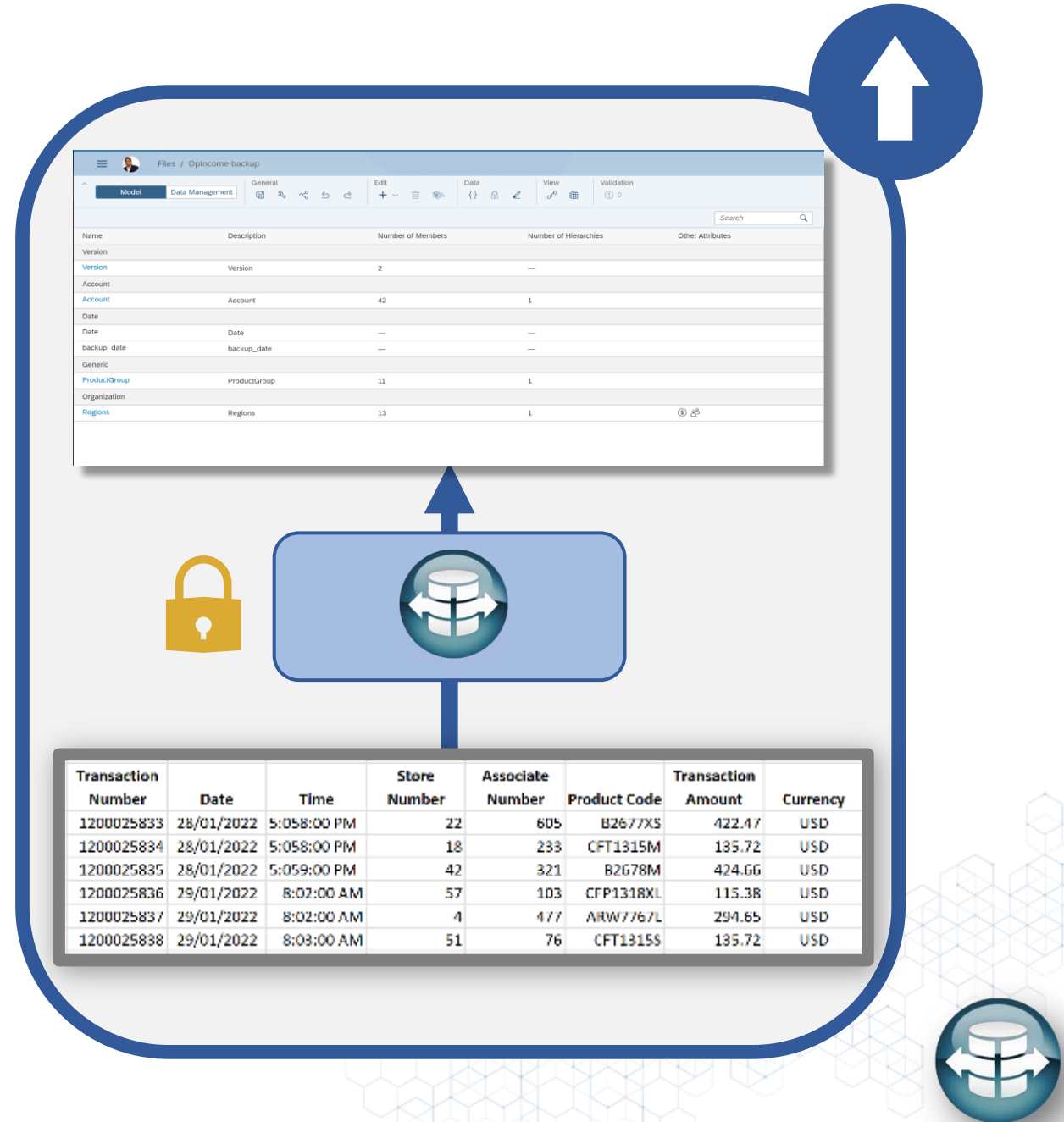
Extended Data Sources: 100+ additional data source and application connection options

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

Import Data Gateway

Secure Communication

- OAuth is used when communicating with SAC, SharePoint and Salesforce via API access
- Secure communication to databases happens through JDBC drivers and user authentication

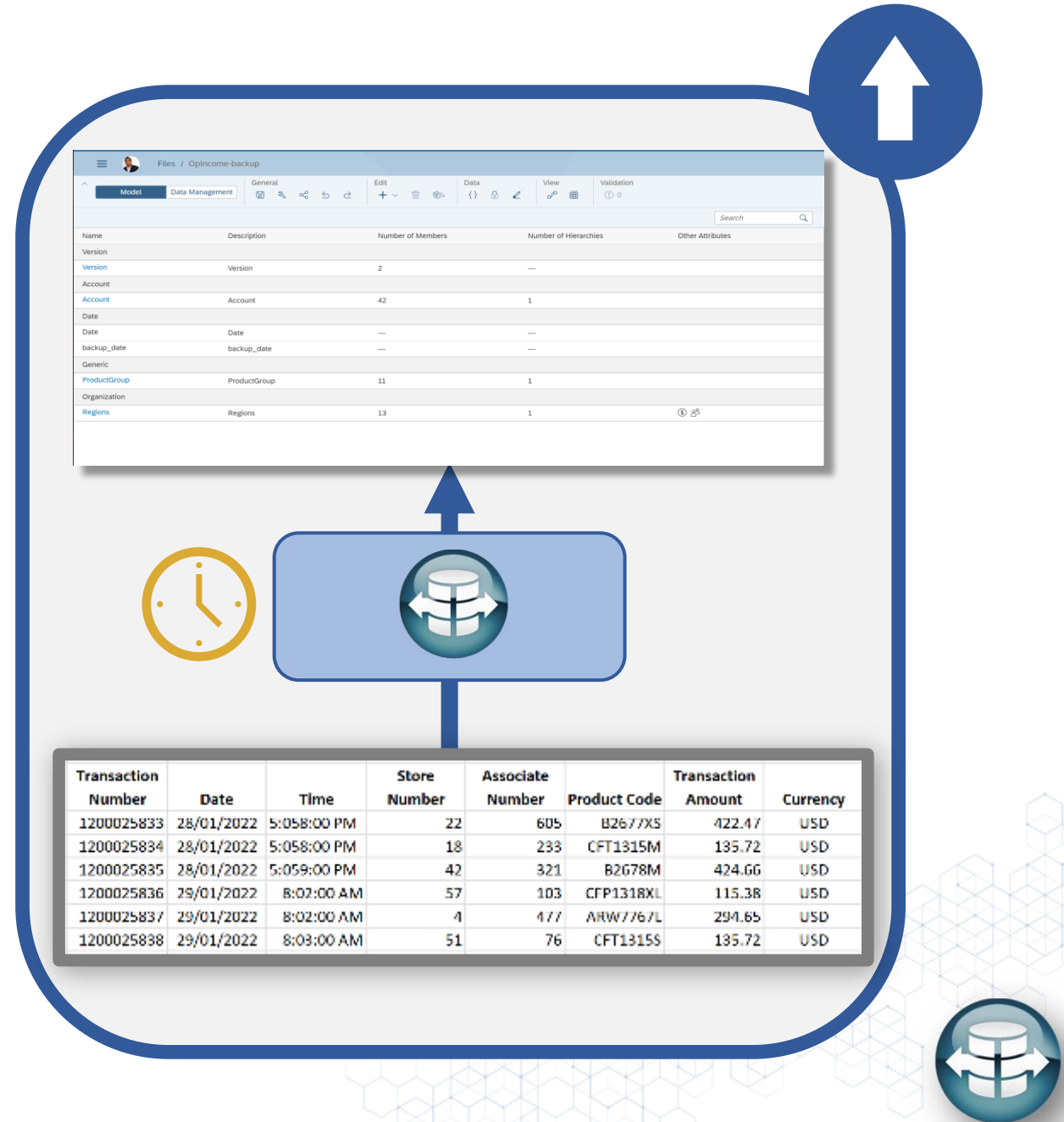


Import Data Gateway

Scheduled Data Uploads

Data loads can be set up on a recurring schedule

- Hourly
- Daily
- Weekly
- Monthly
- On-demand



Import Data Gateway

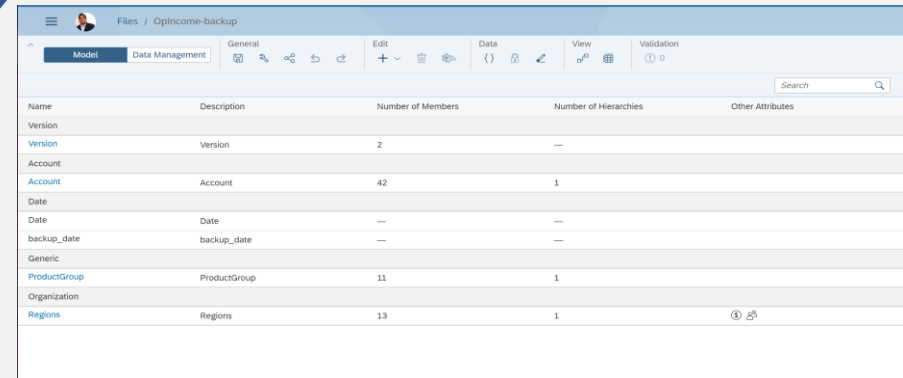
Full or Partial Data Uploads

Multiple data load options offered

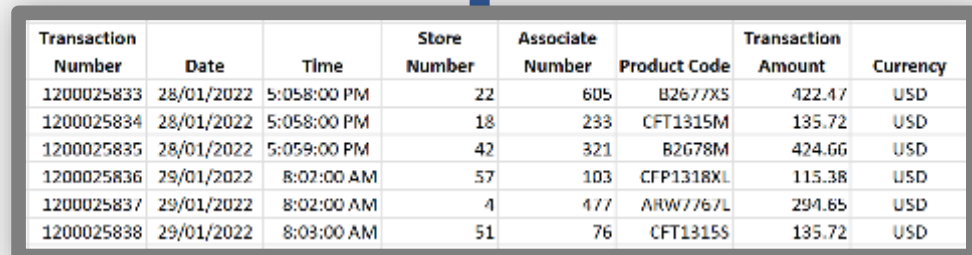
- Full load
- Incremental load
- Truncate data first
- Overwrite

SAC Import methods supported

- Master and fact data – update
- Master data – update
- Fact data – append
- Fact data – clean and replace
- Fact data – update



Name	Description	Number of Members	Number of Hierarchies	Other Attributes
Version	Version	2	—	
Account	Account	42	1	
Date	Date	—	—	
backup_date	backup_date	—	—	
Generic				
ProductGroup	ProductGroup	11	1	
Organization				
Regions	Regions	13	1	



Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
1200025833	28/01/2022	5:058:00 PM	22	605	B2677X5	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	B2G78M	424.66	USD
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1200025837	29/01/2022	8:02:00 AM	4	477	ARW7767L	294.65	USD
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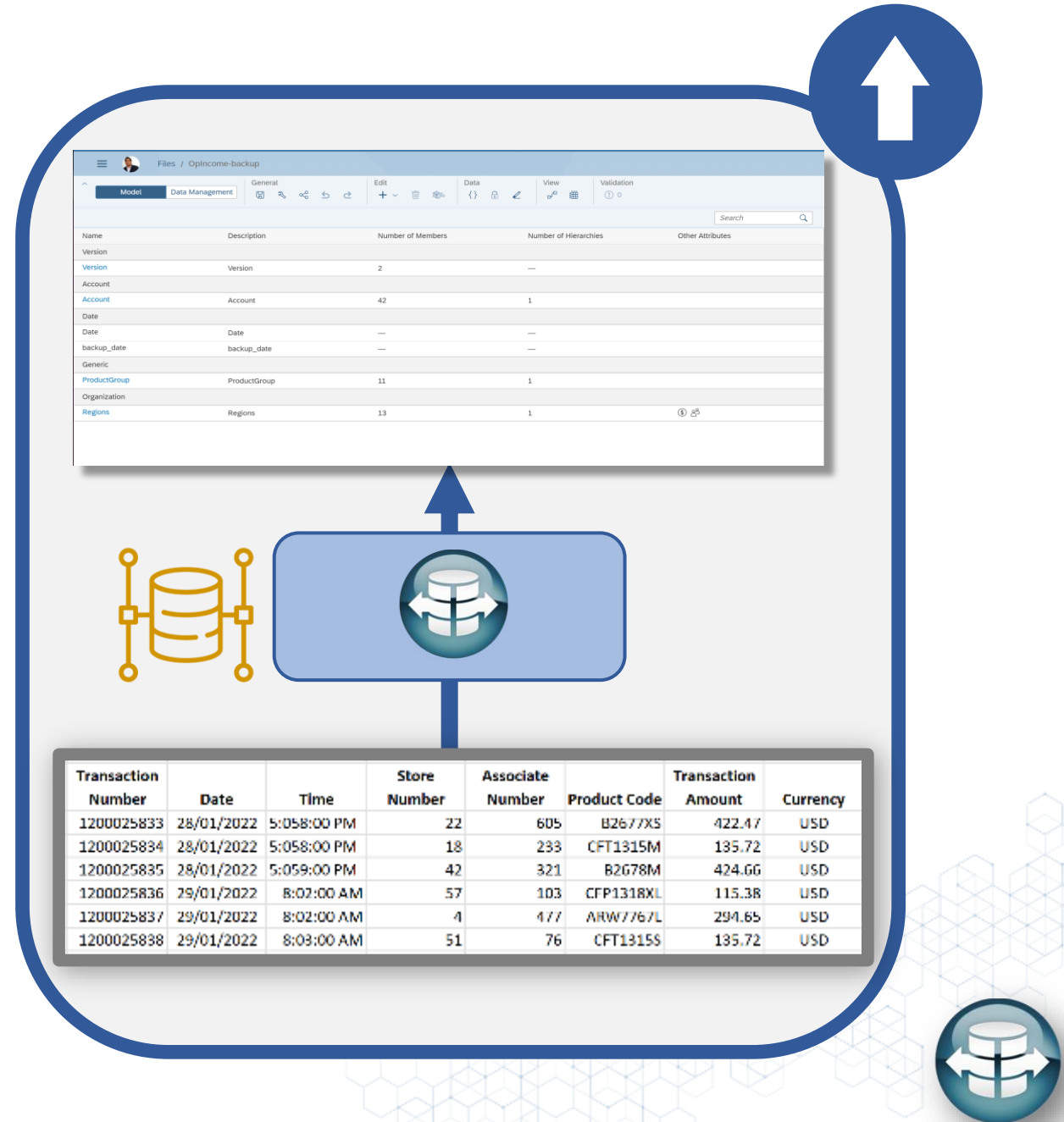


Import Data Gateway

Field Mapping

You can map your source and destination fields so that data is correctly and effectively imported.

This is possible whether you are importing data into an SAC Model, or to any other type of database.

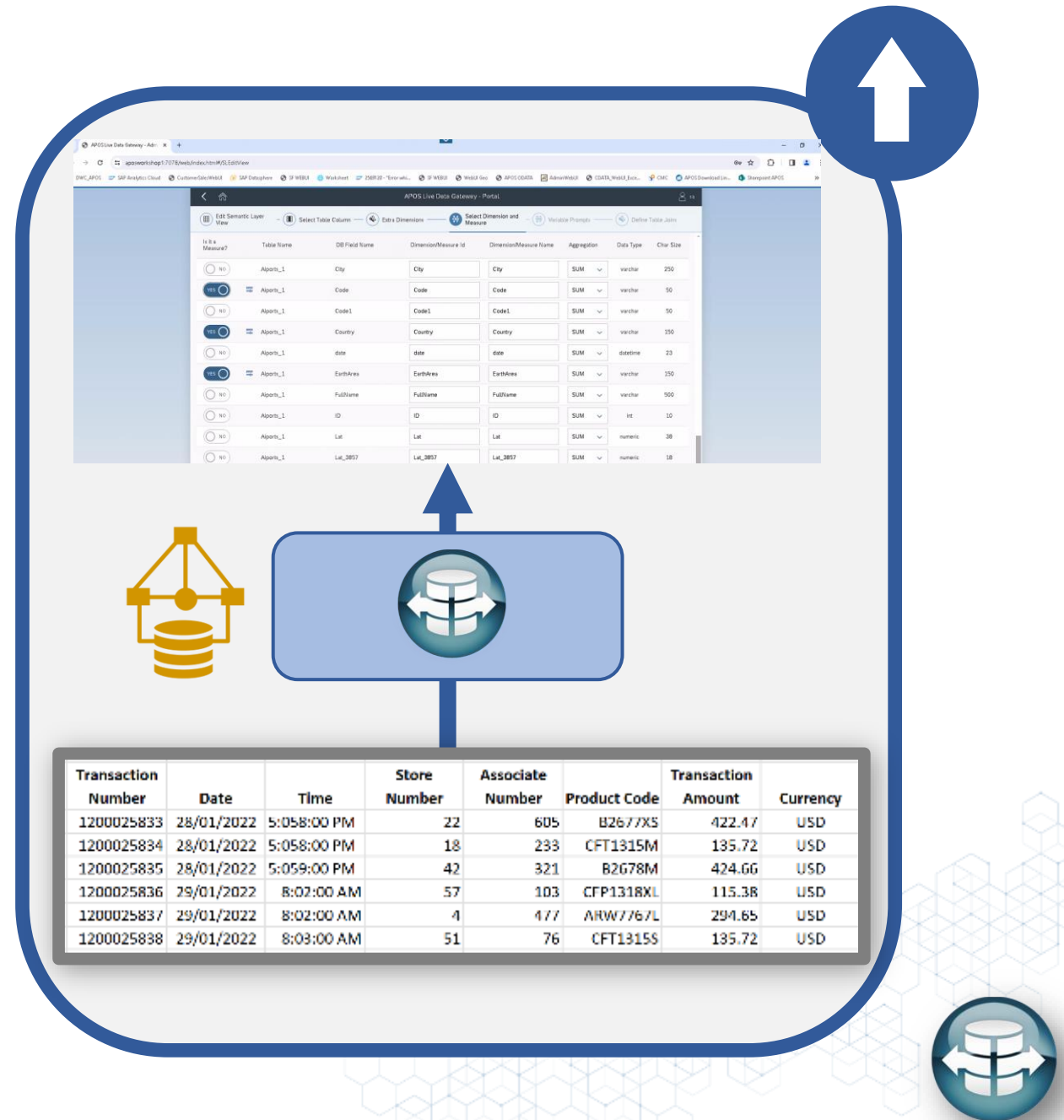


Import Data Gateway

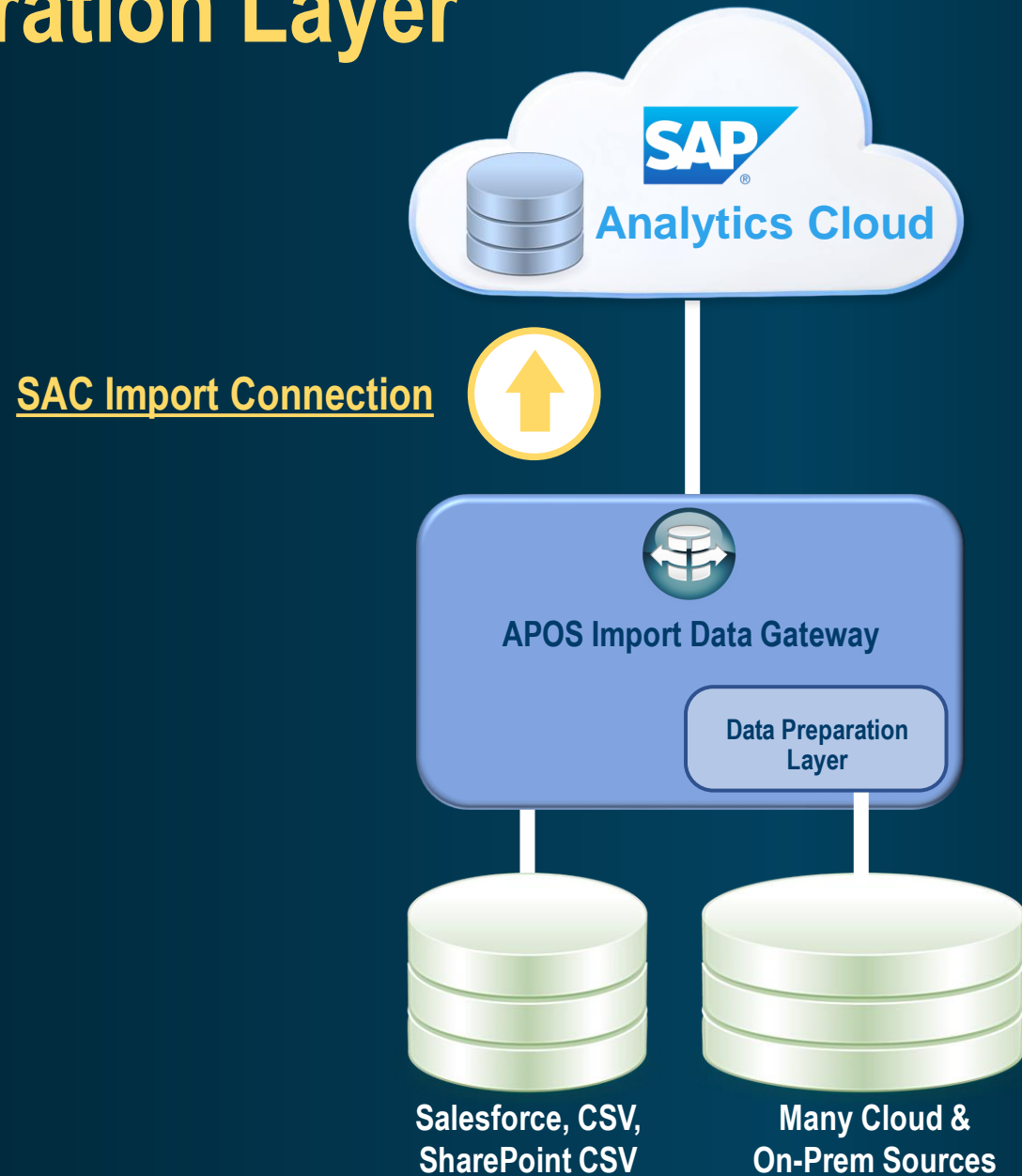
Data Modelling

There is also the option to model your data in our web-based Data Preparation Layer.

This allows you to target specific datasets you wish to import, rather than importing a full database.



Data Preparation Layer

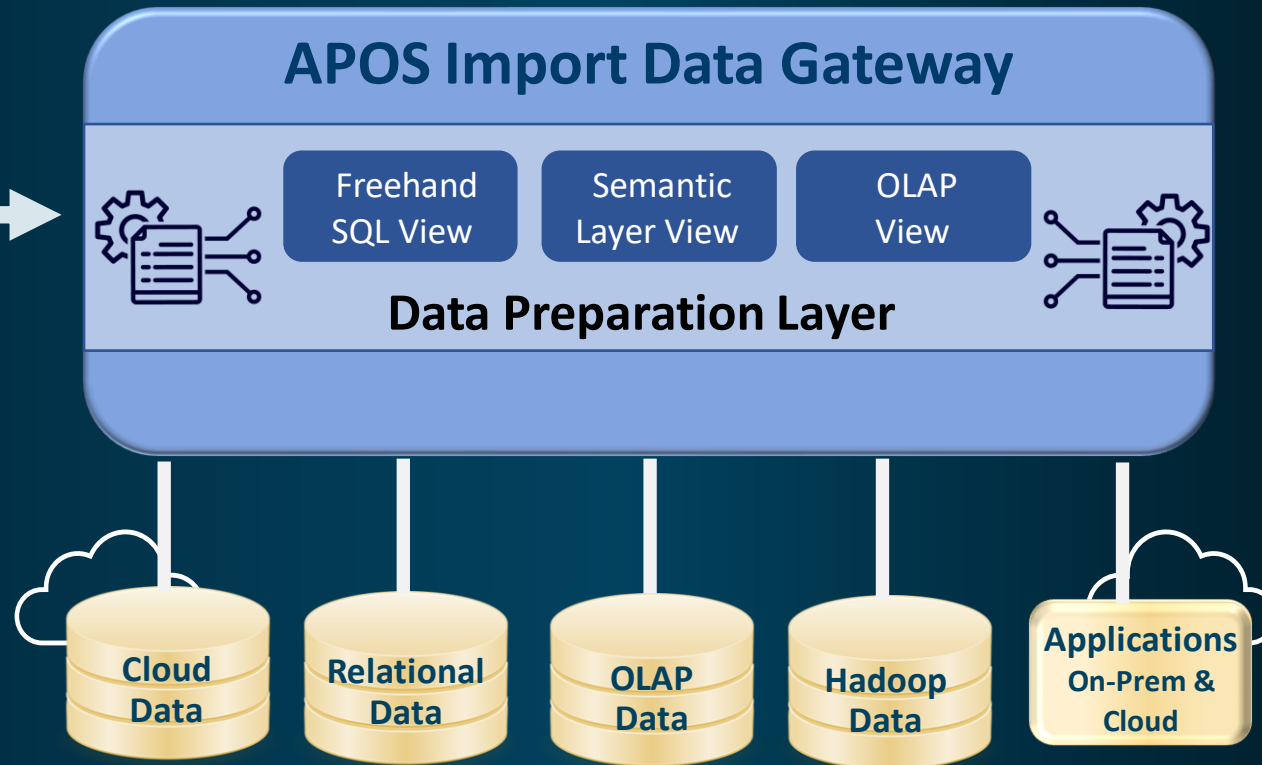


Data Preparation Layer

Data Preparation Layer

Key Functions

- Define Measures and Dimensions
- Define what data fields are exposed
- Manage table joins
- Optimize with data transformations



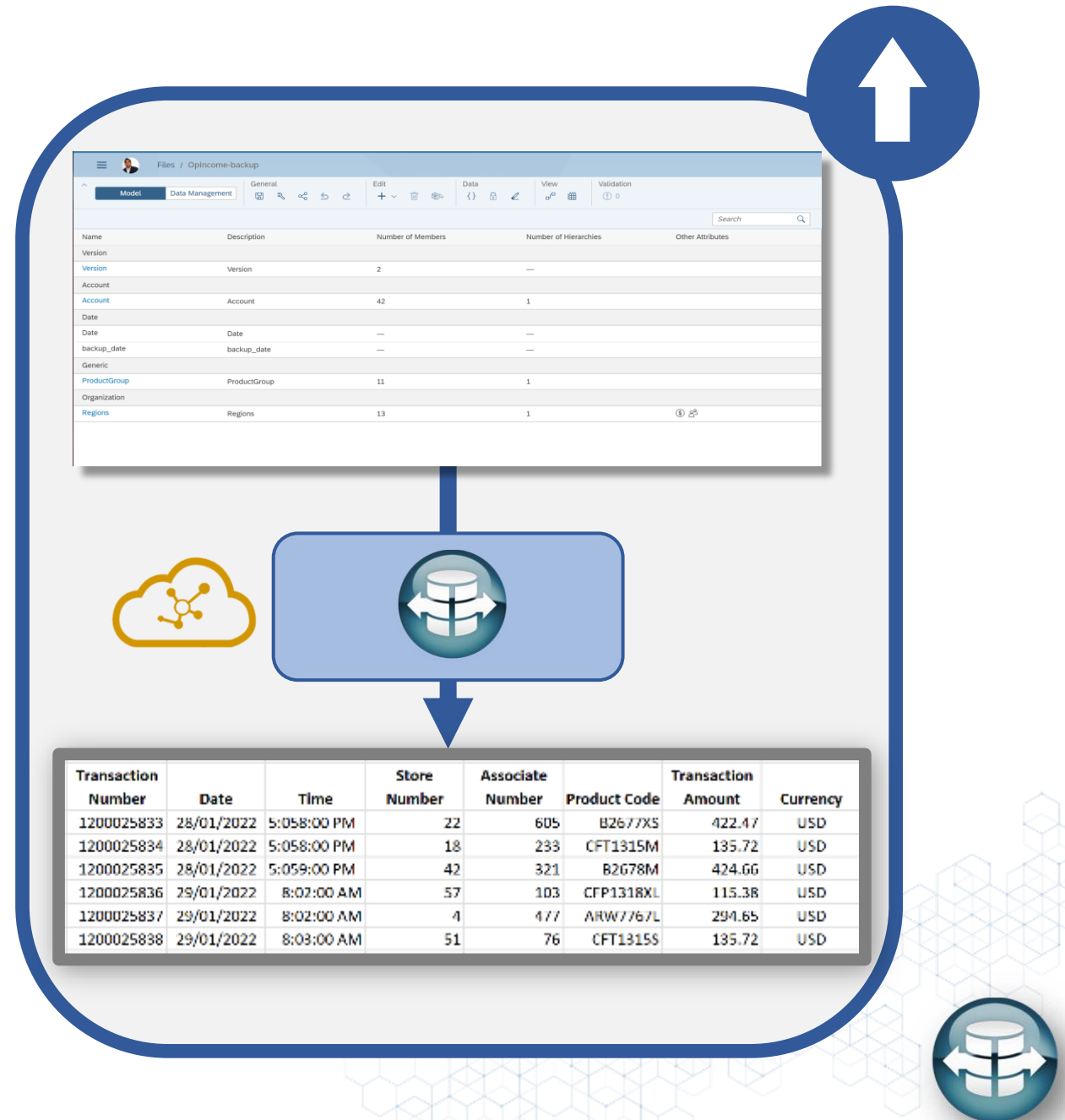
Import Data Gateway

SAC Planning Data Extract

On top of being able to import data into an SAC Planning model we offer the ability to extract data out of an SAP Planning model.

This extraction process allows you to load data back to the source database.

- Load SAC Budgeting data back into original source system
- Leverage enhanced SAC Planning data in other related processes



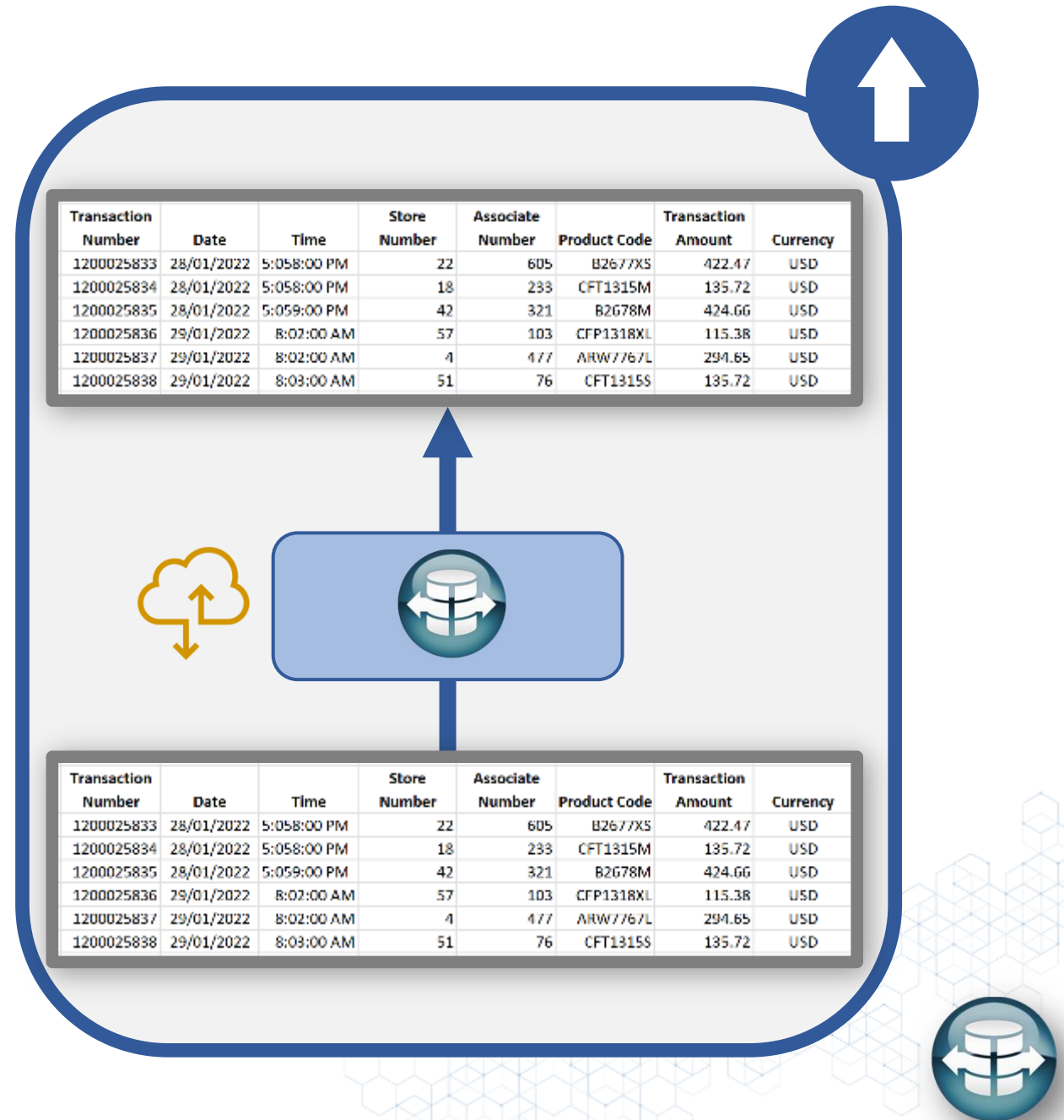
Import Data Gateway

Strategic Data Movement

For non-SAC scenarios:

Scheduled data loads between different database platforms.

Removes complexities of data migrations and allows for data transformations between migrations.



Solution Overview

To view this demonstration, [view the webinar on demand](#)

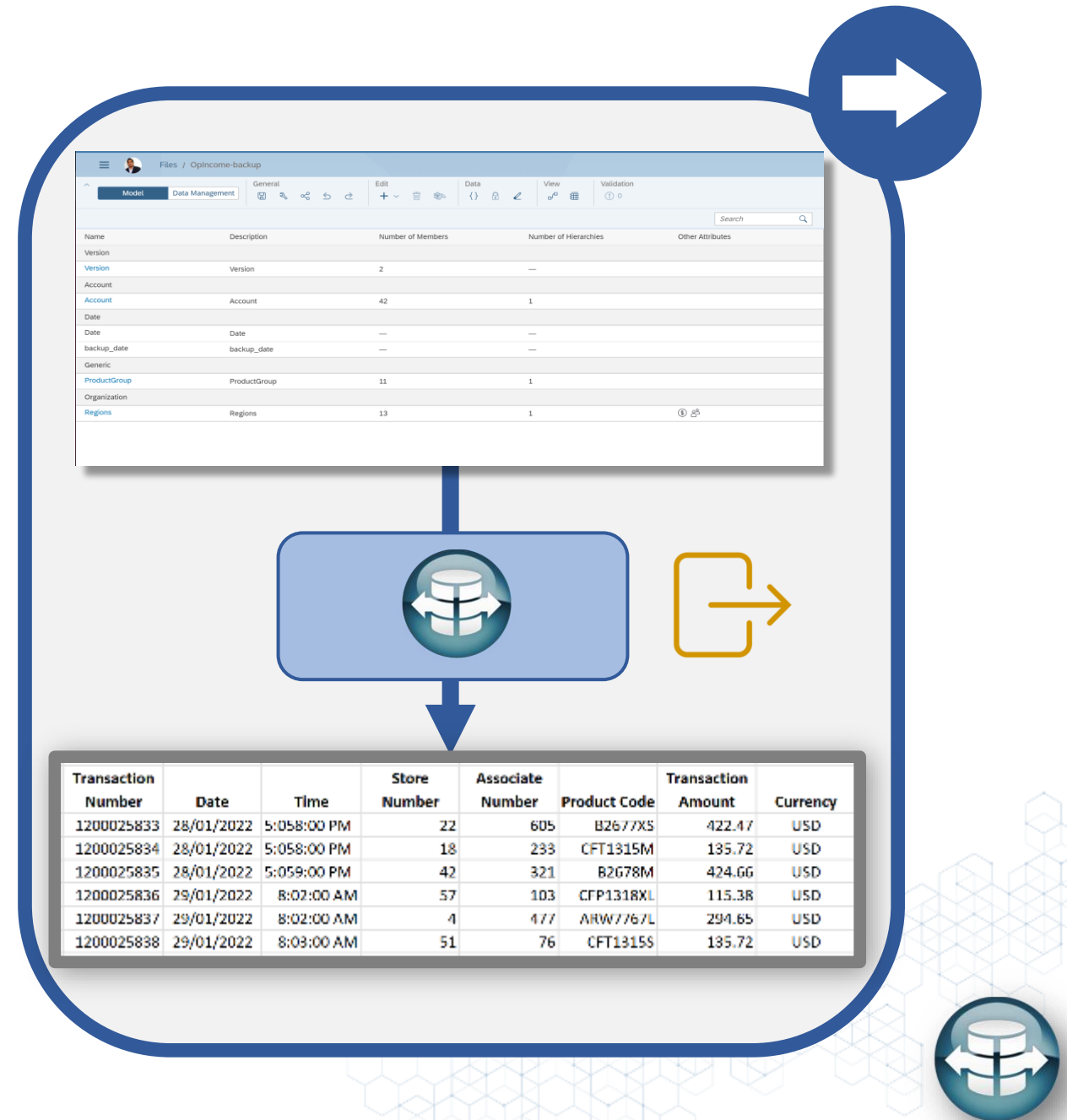


Export Data Gateway

(coming soon)

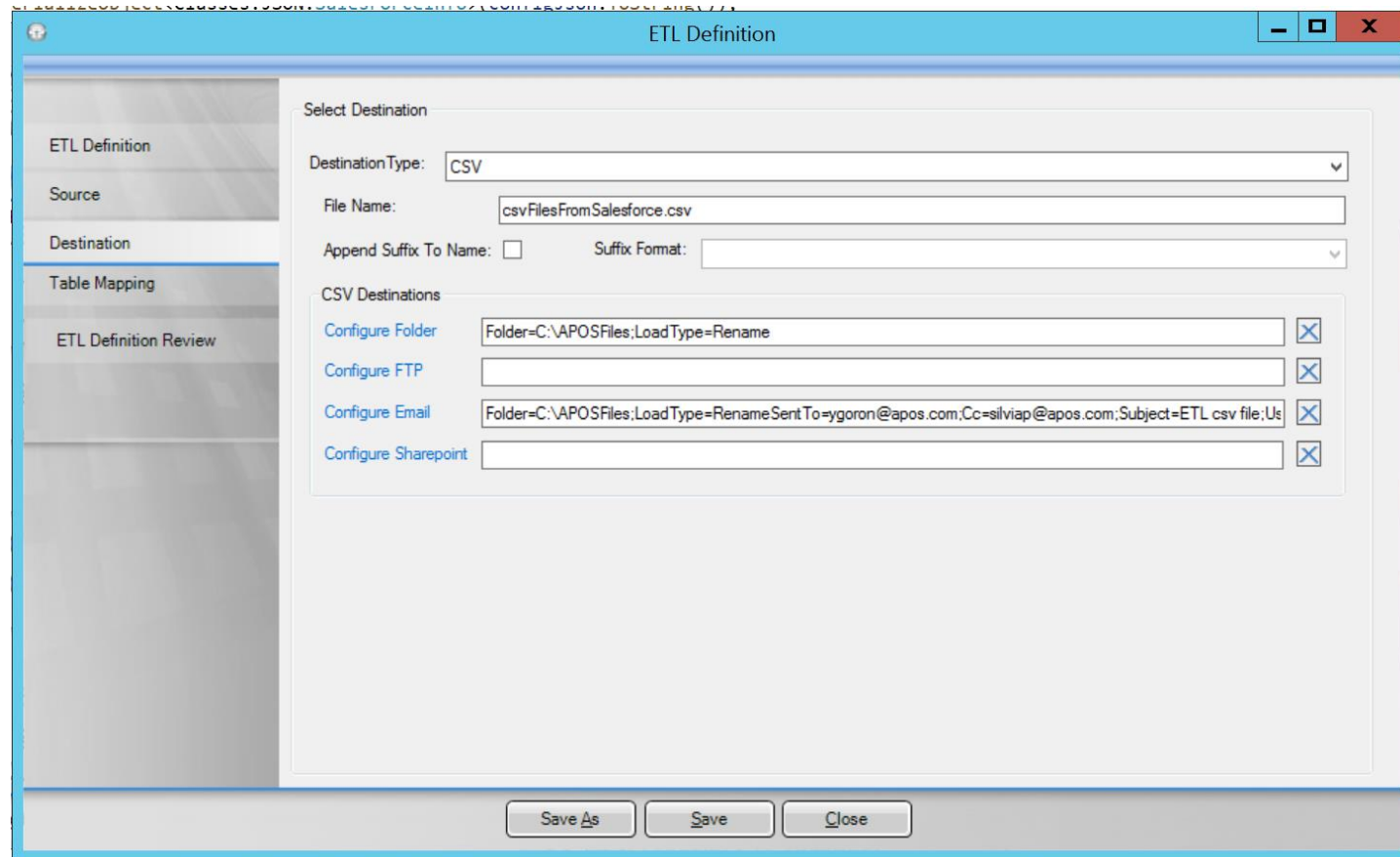
Export Data to Strategic File

- High volume data exports to CSV output
- Scheduled on recurring basis
- Automated delivery to
 - Network File shares
 - FTP
 - Email
 - SharePoint
- On Demand data exports



Export Data Gateway

- Export data from SAC/Database to CSV
- Schedule on recurring basis
- Select your destination – Folder, Email, FTP, SharePoint



The screenshot displays the 'ETL Definition' window, which is used for configuring data export tasks. The interface includes a sidebar on the left with navigation options: 'ETL Definition', 'Source', 'Destination', 'Table Mapping', and 'ETL Definition Review'. The main area is titled 'Select Destination' and contains the following configuration fields:

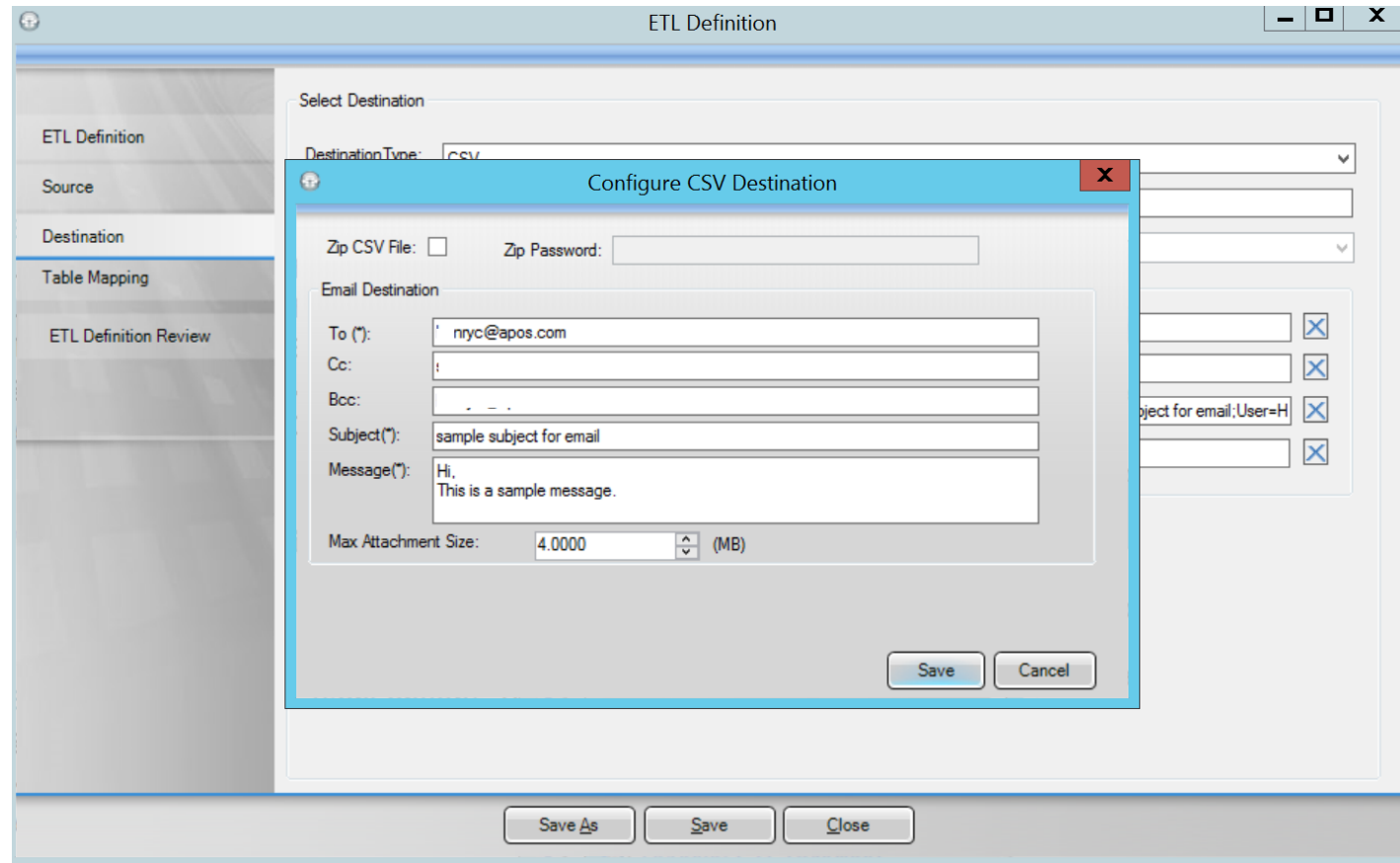
- DestinationType:** A dropdown menu set to 'CSV'.
- File Name:** A text input field containing 'csvFilesFromSalesforce.csv'.
- Append Suffix To Name:** An unchecked checkbox.
- Suffix Format:** A dropdown menu.
- CSV Destinations:** A section with four rows, each featuring a 'Configure' link and a text input field with a close button (X):
 - Configure Folder:** The text field contains 'Folder=C:\APOSFiles;LoadType=Rename'.
 - Configure FTP:** The text field is empty.
 - Configure Email:** The text field contains 'Folder=C:\APOSFiles;LoadType=RenameSent To=ygoron@apos.com;Cc=silviap@apos.com;Subject=ETL csv file;Us'.
 - Configure Sharepoint:** The text field is empty.

At the bottom of the window, there are three buttons: 'Save As', 'Save', and 'Close'.



Export Data Gateway – Send to Email

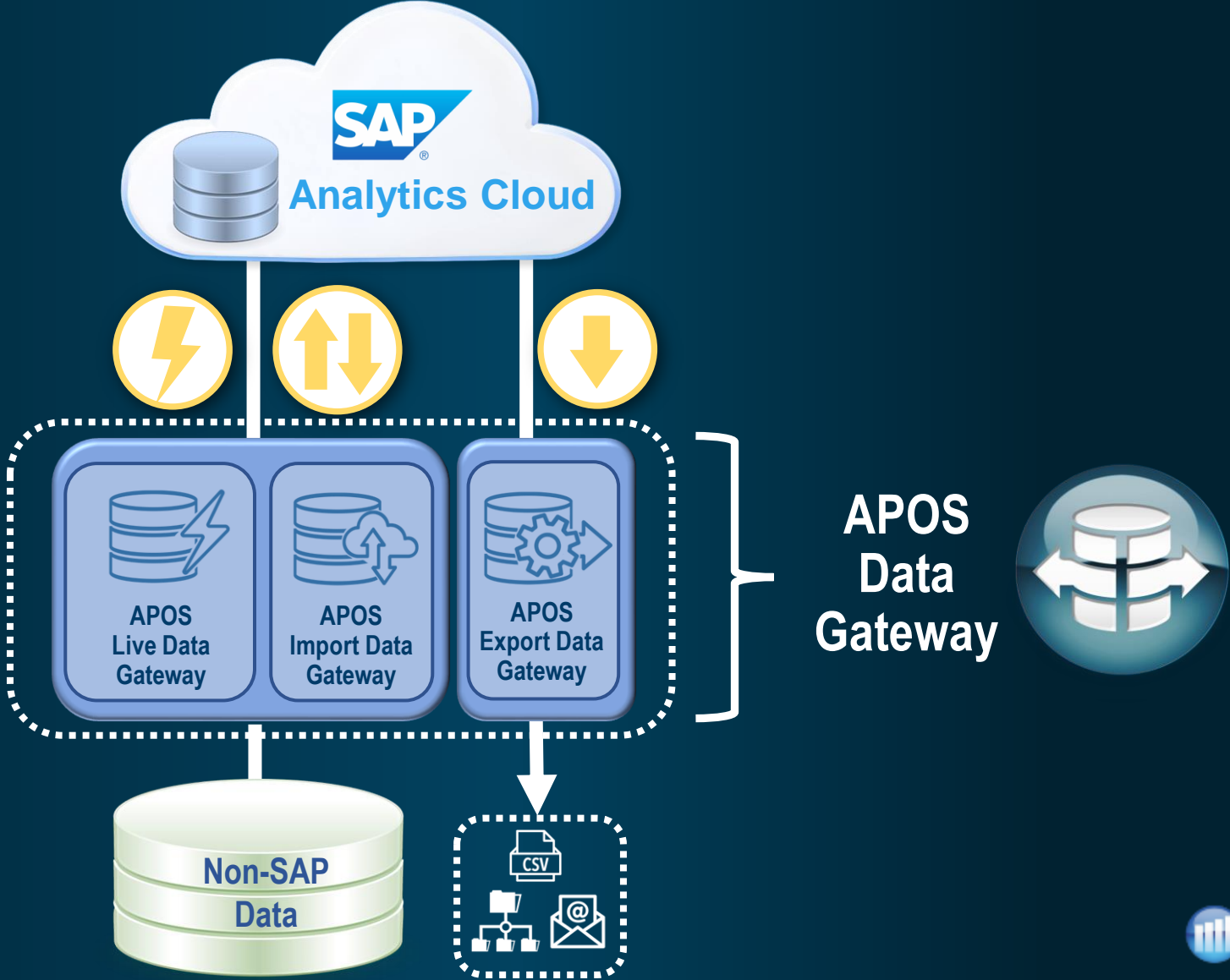
- Zip CSV file for compression and password protected
- Set Max attachment size
- Configure Email recipients



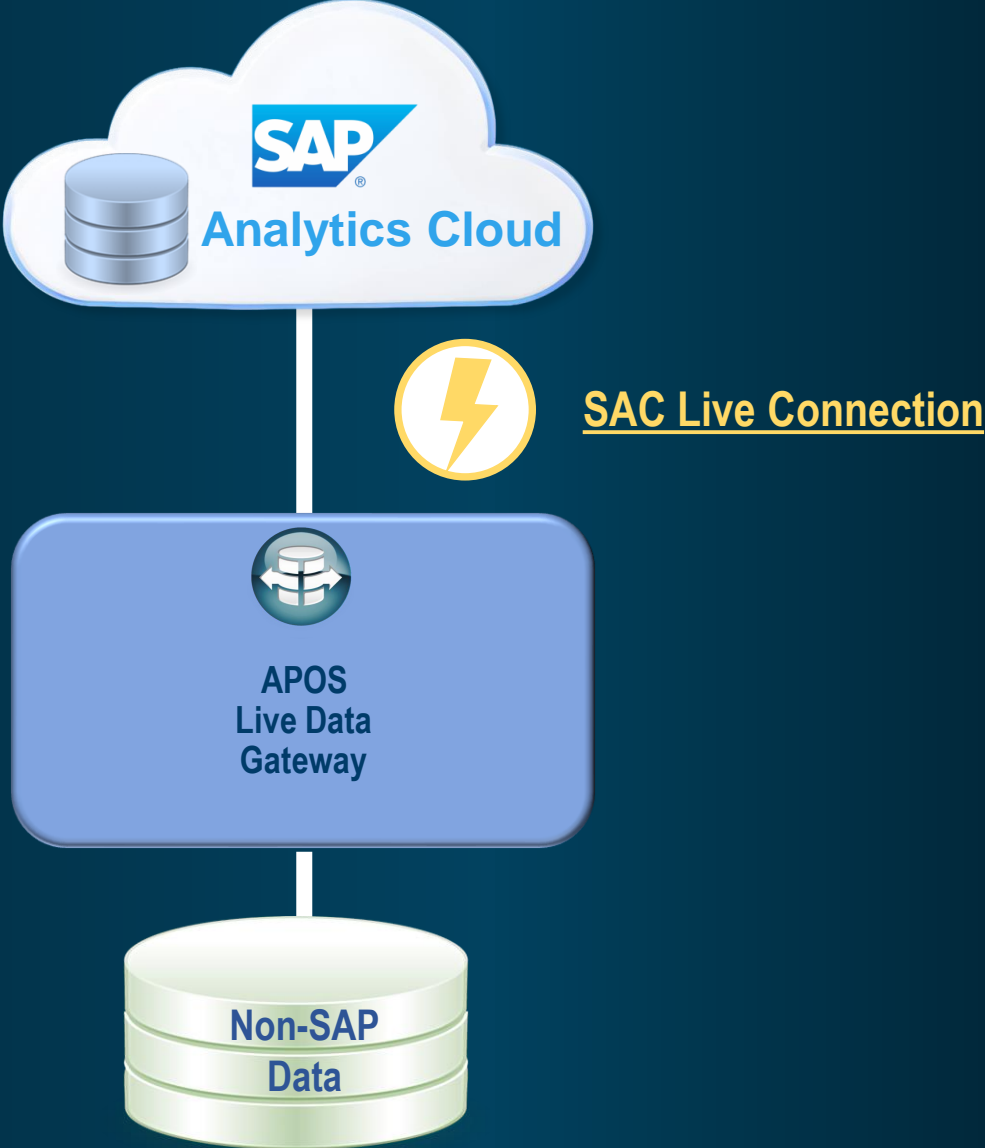
APOS Live Data Gateway



Expanded SAC Connectivity



APOS Live Data Gateway



APOS Live Data Gateway – Unlock Live Data

Available on
SAP Store



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



APOS Live Data Gateway – Expand Live Options

The screenshot shows the SAP Help Portal interface. The top navigation bar includes the SAP logo, 'Help Portal (Documentation)', and links for 'Browse by Product' and 'Learning Journeys'. Below this is an 'Advanced Search' bar. The main content area is divided into a left sidebar and a main article. The sidebar contains a list of topics, with 'Using the APOS Live Data Gateway' highlighted in blue. The main article has a title 'Using the APOS Live Data Gateway' and a blue-bordered text box containing the following text: '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.' Below this, there is a link to 'SAP App Center' and a section titled 'Data Source Types Supported' which lists supported data sources like Microsoft SQL Server, Oracle, IBM DB2, Sybase IQ, Sybase SQL Anywhere, and MySQL.

SAP Help Portal (Documentation) Browse by Product Learning Journeys

Advanced Search

← Previous ☆ Favorite Download PDF Share Next →

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.

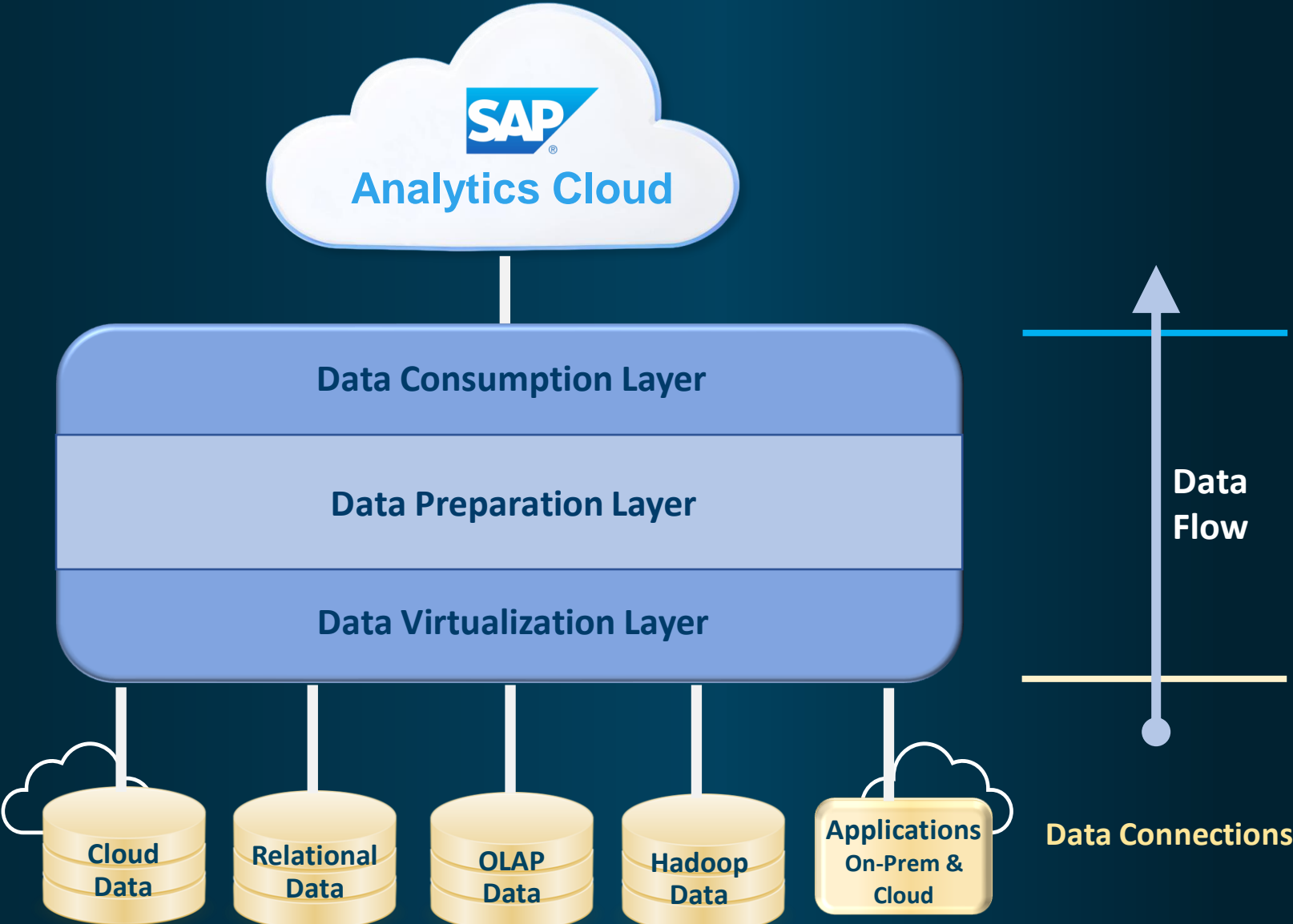
The APOS Live Data Gateway is available on the [SAP App Center](#).

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

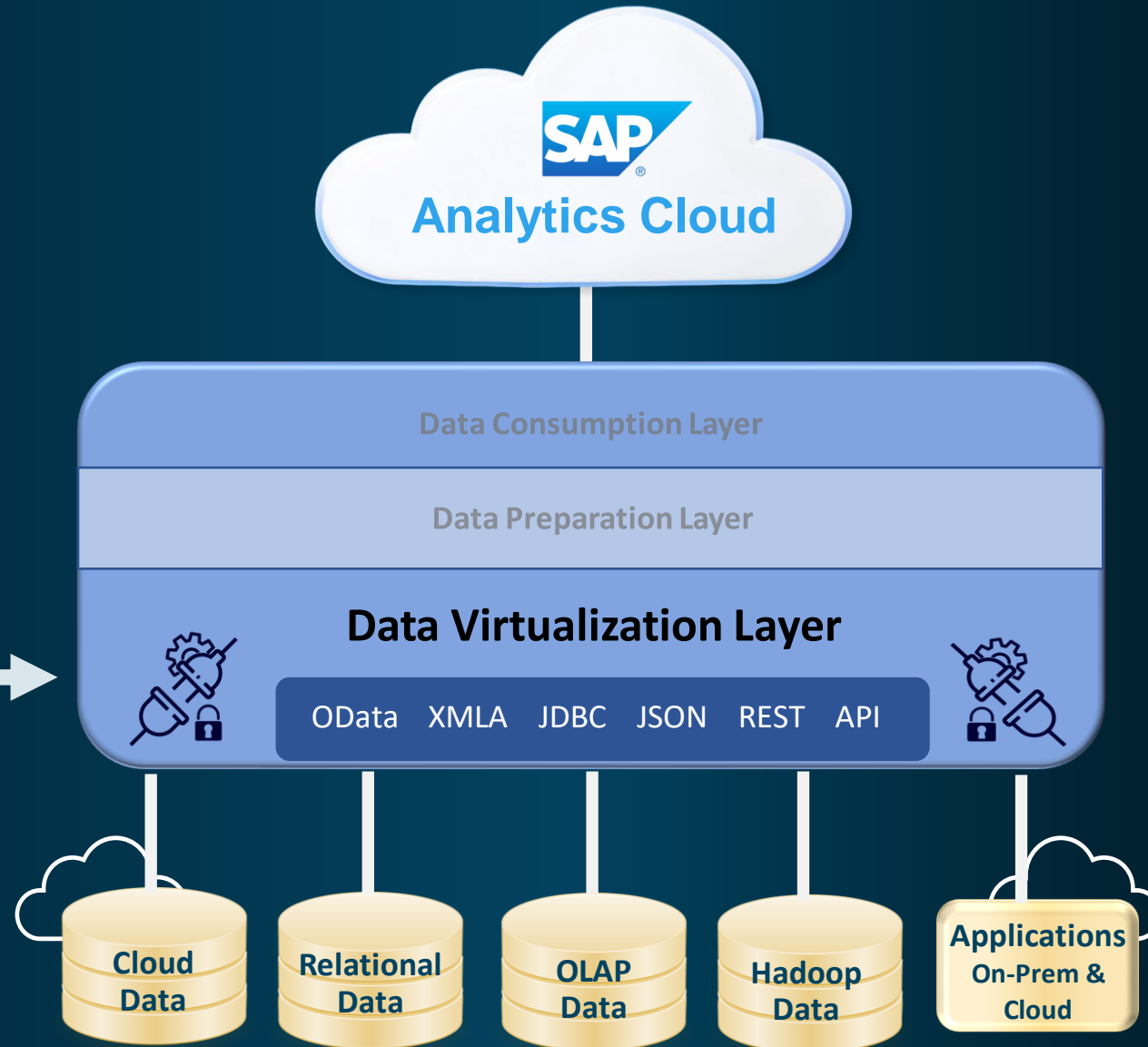


Database Virtualization Layer

Data Virtualization Layer

Key Functions

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

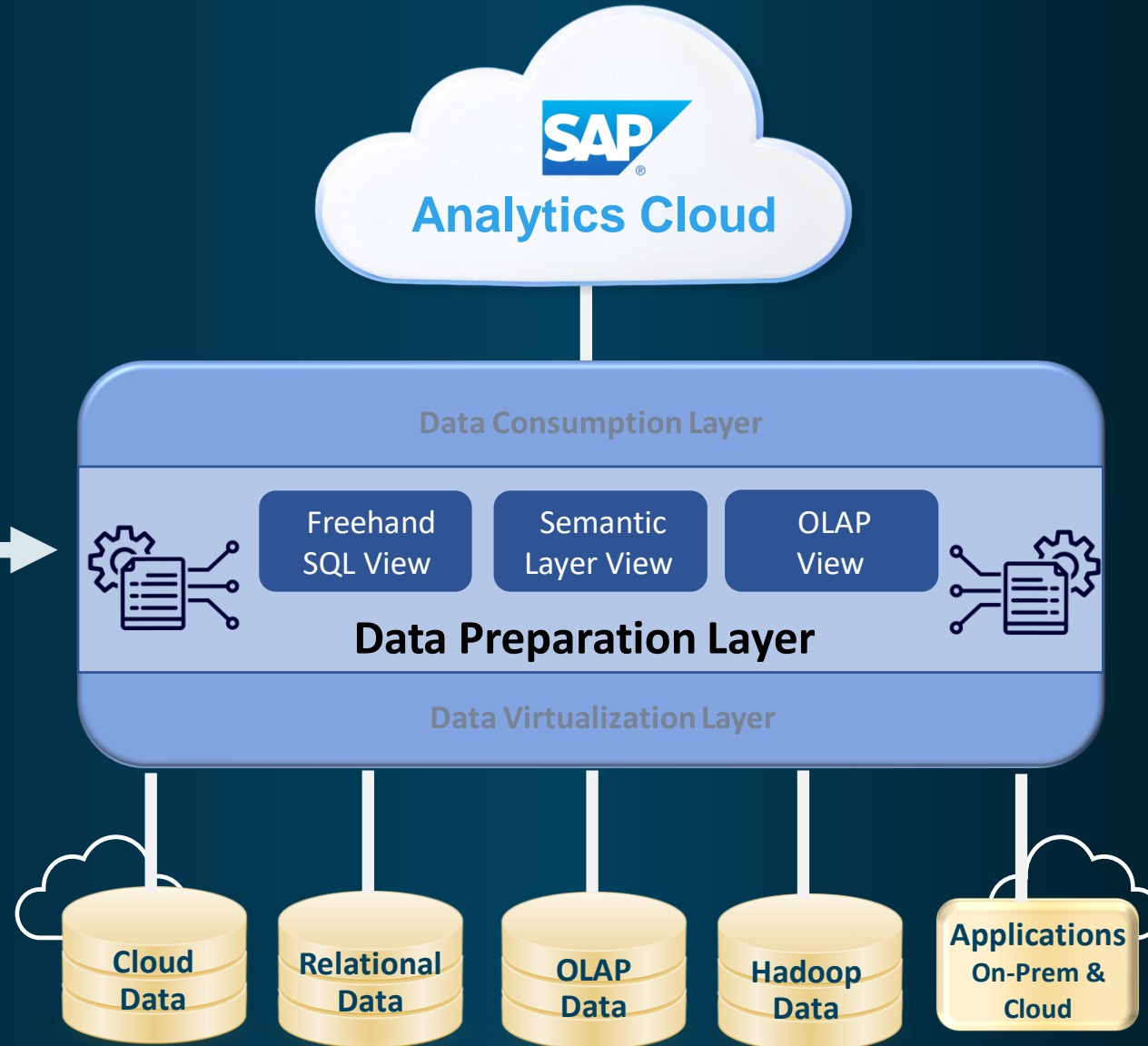


Database Preparation Layer

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

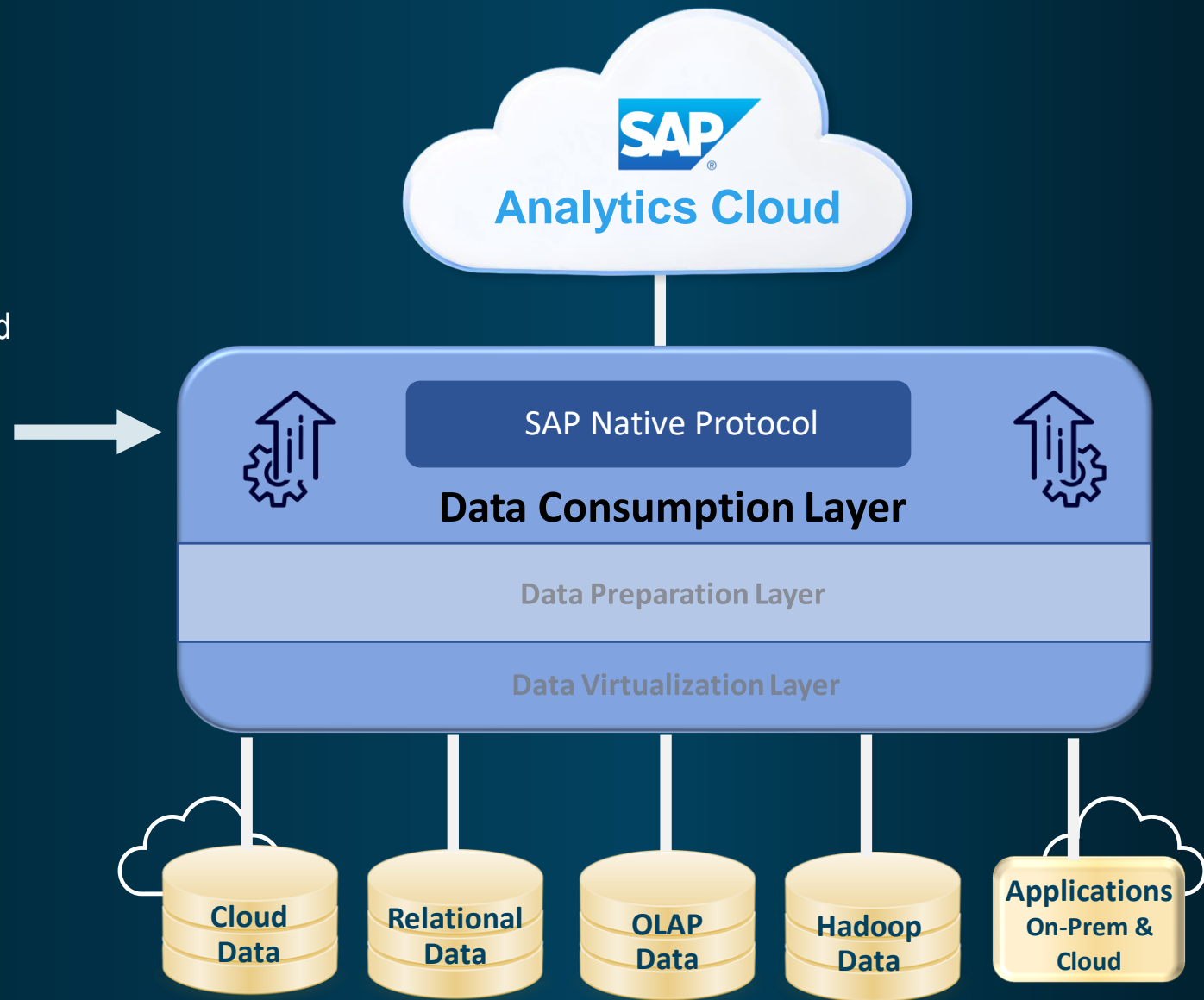


Database Consumption Layer

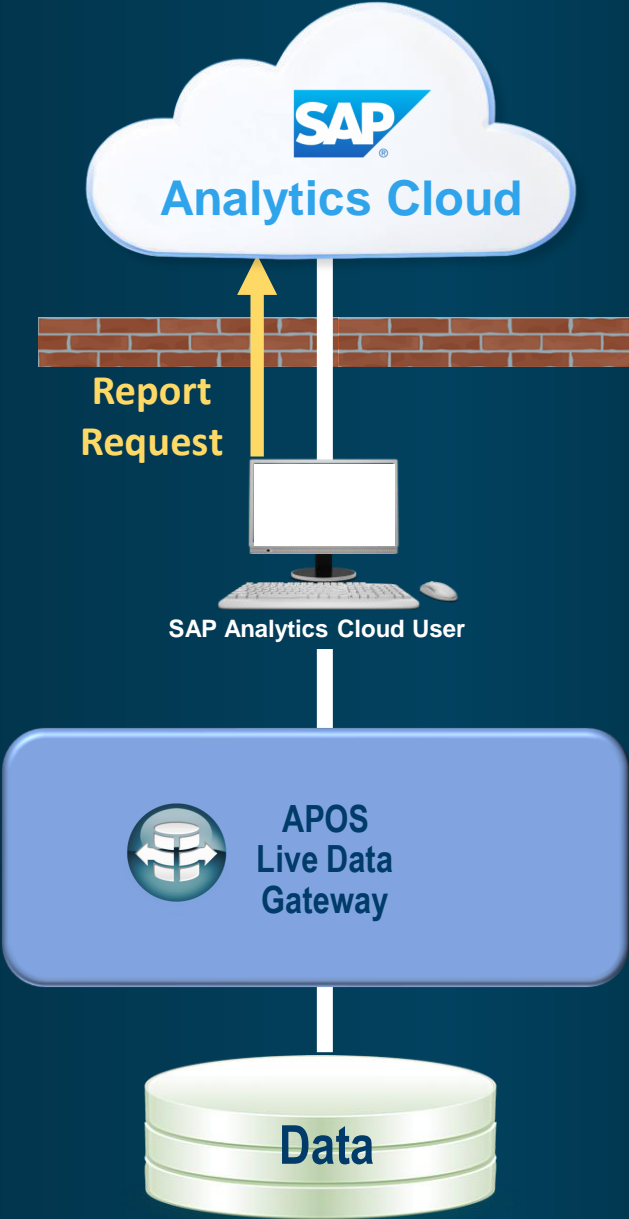
Data Consumption Layer

Key Functions

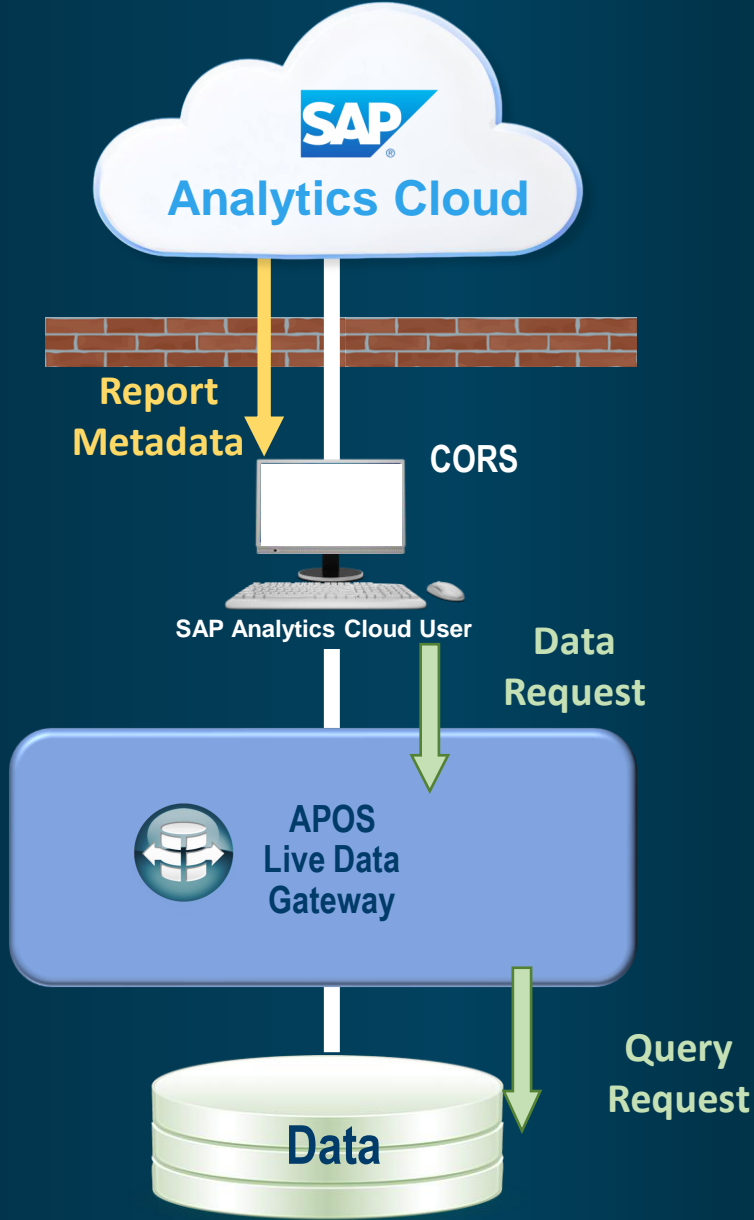
- Establish direct connectivity and communication with SAC User browser
- Supply data via SAP Native Protocol for SAC Story and SAC Application actions



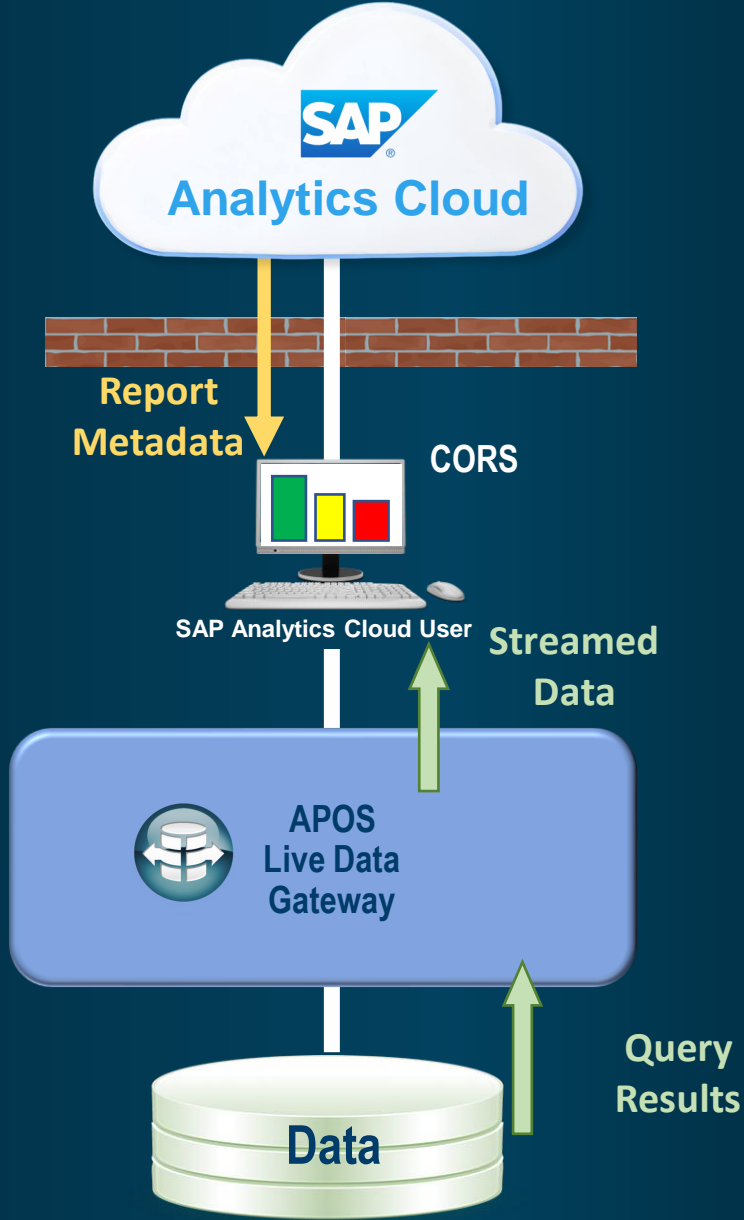
Live Data Consumption Flow



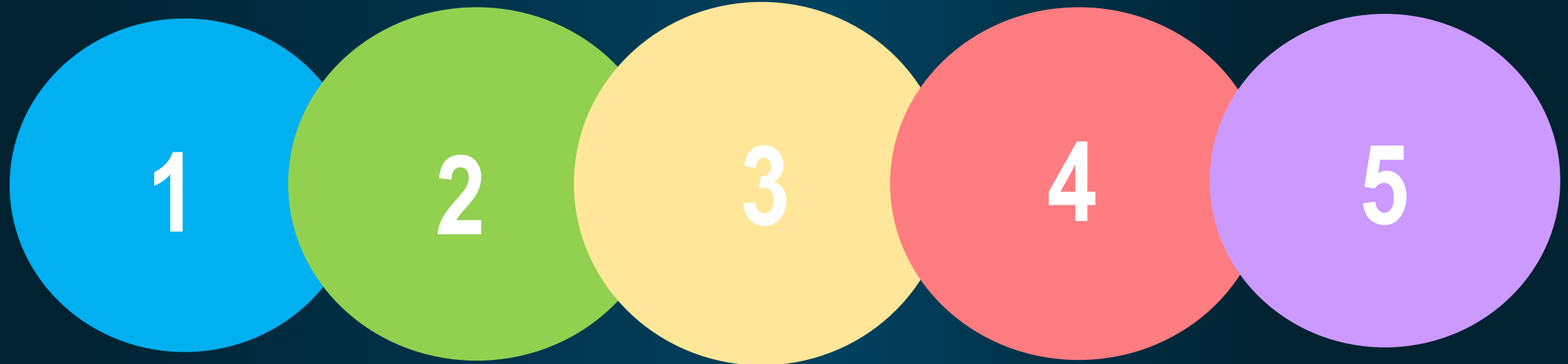
Live Data Consumption Flow



Live Data Consumption Flow



5 Simple Steps to Live Connectivity



Create Connection
from Live Data Gateway to
data source

Create View
in Live Data Gateway

Create Connection
from SAC to Live Data
Gateway

Create Model
in SAC

Create Report
in SAC

Demonstrating the 5 Steps



Create SAC Report



Create Model in SAC



Create Connection from SAC to Live Data Gateway



SAC Story Creator



SAC Consumers

Data Consumption Layer

Create View in Live Data Gateway



LDG View Builder

Data Preparation Layer

Create Connection from Live Data Gateway to data source



LDG Administrator

Data Virtualization Layer

Data Preparation



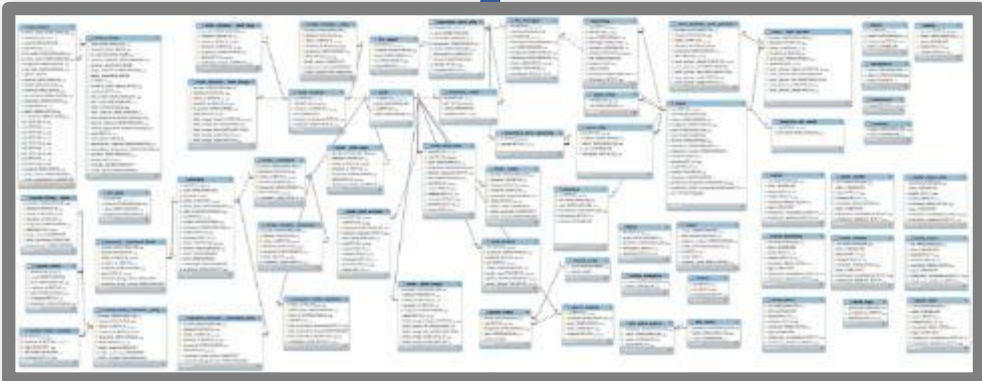
Data Preparation Layer

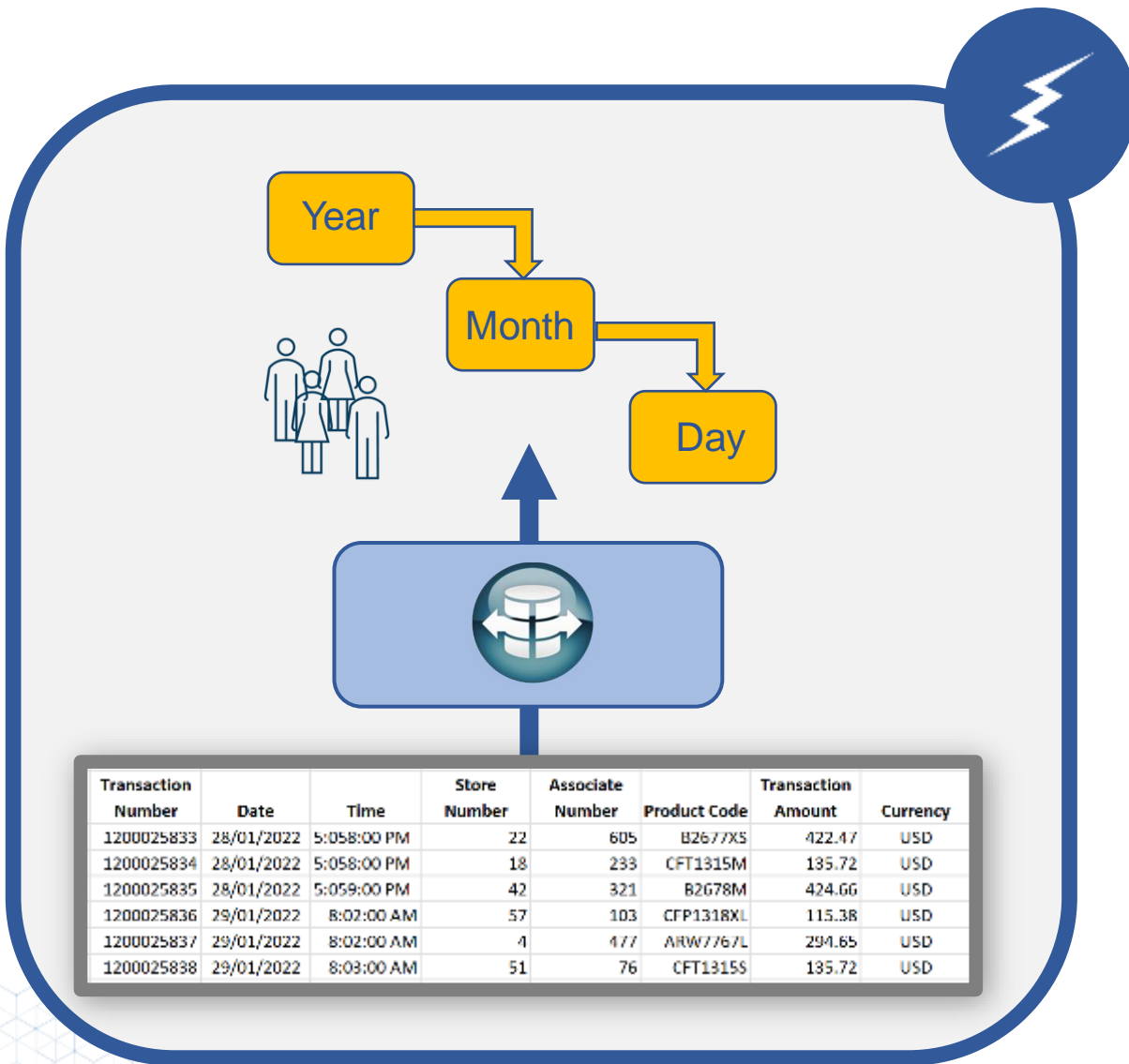
Self-Service Data Modelling

- 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



Column Name	Column Data Type	Column Reference	Column Reference	Alias	Data Type	Table
Address	City	City	City	City	String	Table
Address	State	State	State	State	String	Table
Address	County	County	County	County	String	Table
Address	Zip	Zip	Zip	Zip	String	Table
Address	City	City	City	City	String	Table
Address	State	State	State	State	String	Table
Address	County	County	County	County	String	Table
Address	Zip	Zip	Zip	Zip	String	Table





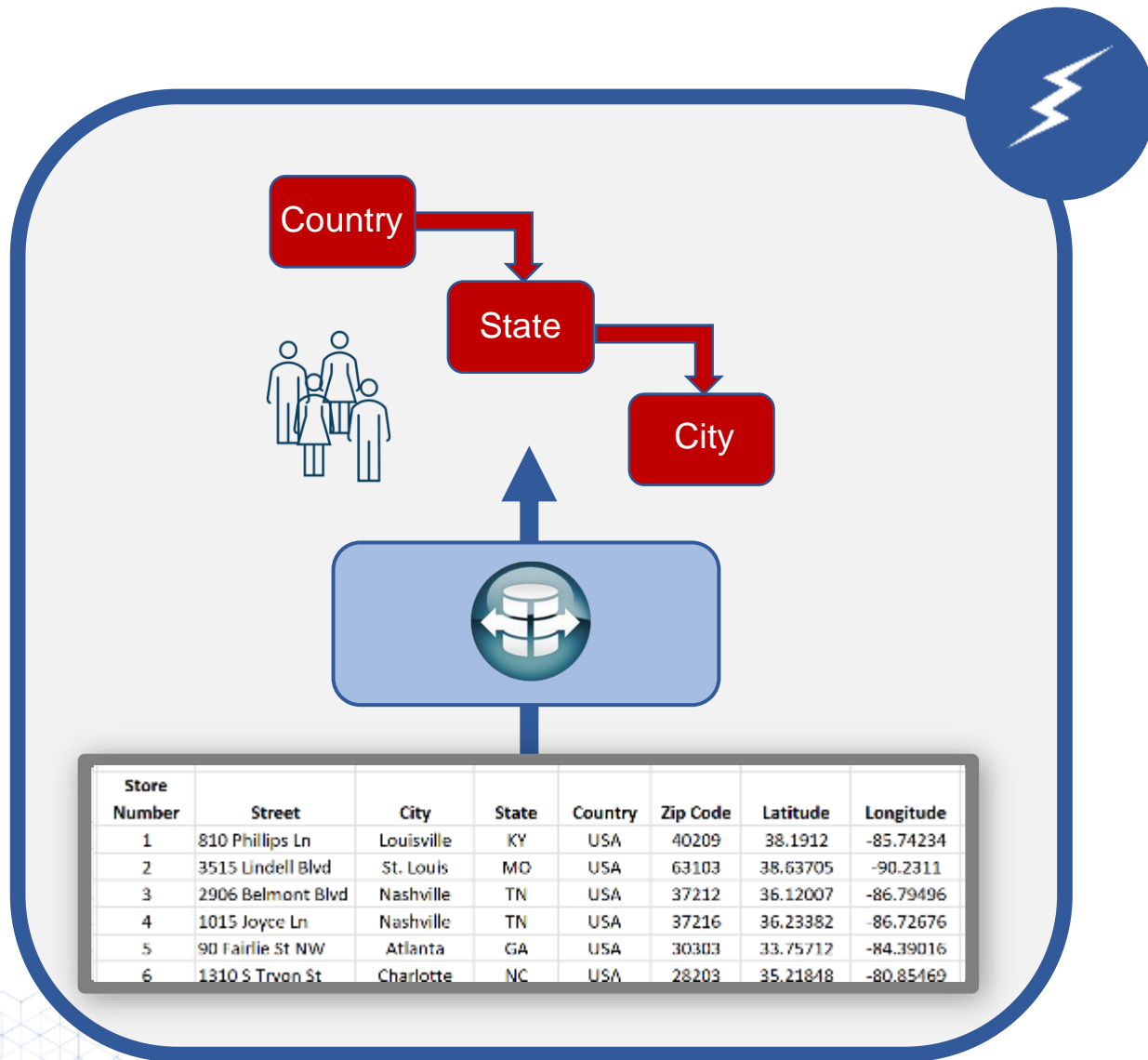
Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
1200025833	28/01/2022	5:058:00 PM	22	605	B2677XS	422.47	USD
1200025834	28/01/2022	5:058:00 PM	18	233	CFT1315M	135.72	USD
1200025835	28/01/2022	5:059:00 PM	42	321	B2678M	424.66	USD
1200025836	29/01/2022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



Data Transformation

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



Data Transformation

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



Data Transformation

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



Transaction Number	Date	Time	Store Number	Associate Number	Product Code	Transaction Amount	Currency
1200025833	28/01/2022	5:058:00 PM	22	605	B2677X5	422.47	USD
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Data Transformation

Geospatial Data

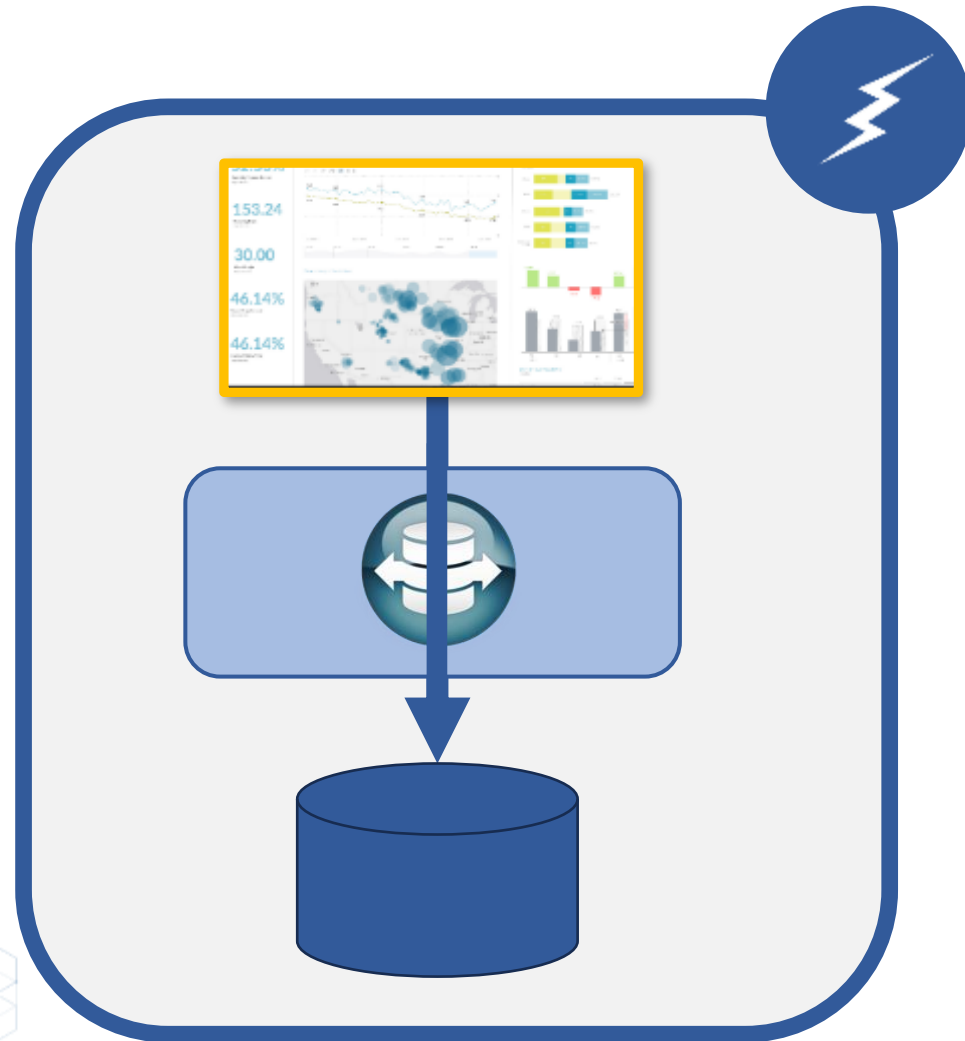
- Supply data for representation on a map
- Highly visual analytics
- Improved analysis
- Geospatial dimensions support
- Multiple projections supported
- Multiple datasource types supported
- Configure multiple geo dimensions



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





Data Transformation

Database Passthrough

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



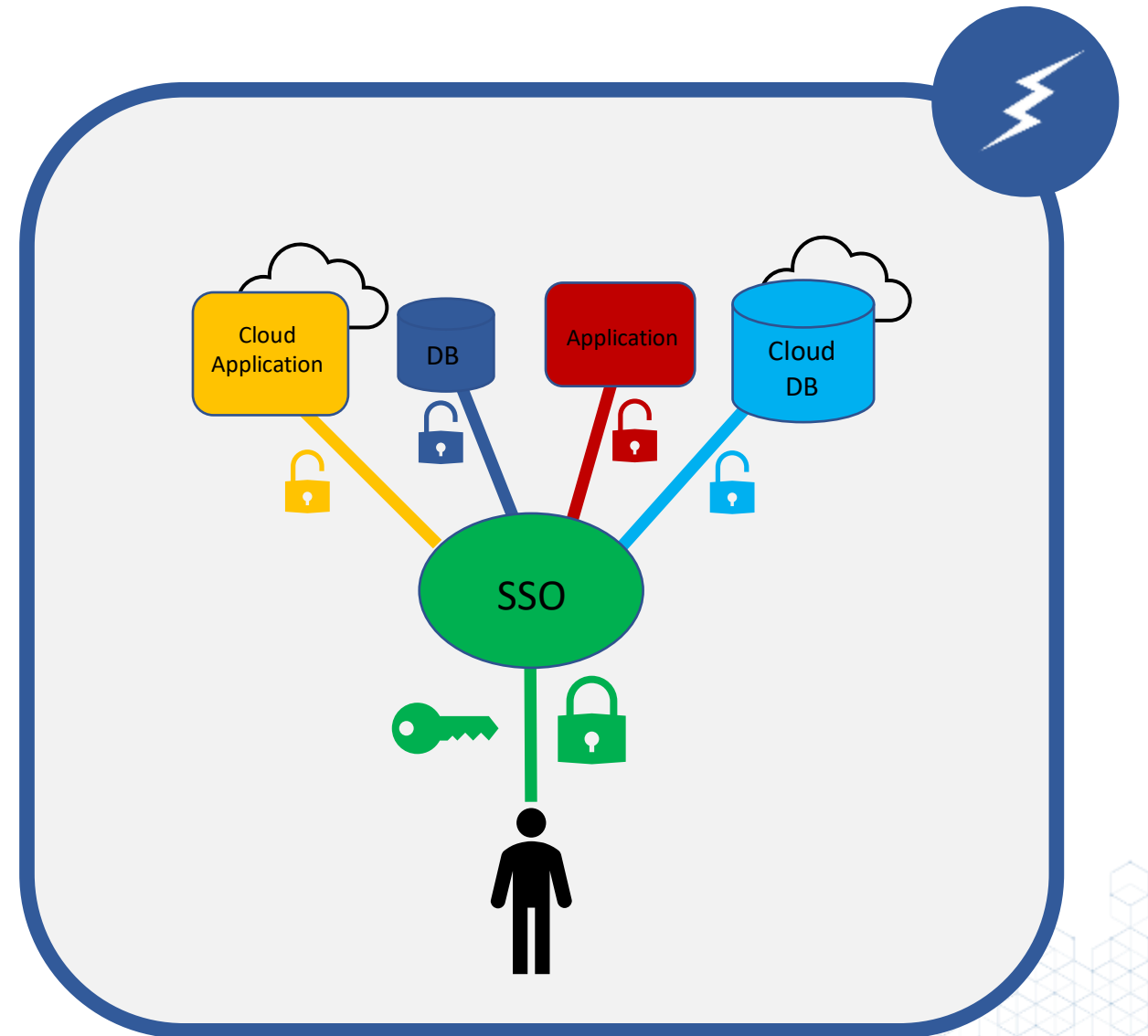
Security



APOS Live Data Gateway – Security

Single Sign On

- Unified security authentication
- Integrated to enforce data base security
- Simplified user experience
- Various SSO options supported
- SSO Technologies we work with:
 - SAML
 - Azure AD
 - OKTA
 - Google Cloud IDP
 - OAuth
 - Kerberos with WinAD
 - Keypair Authentication
 - User Impersonation
 - Pre-Defined Cached User

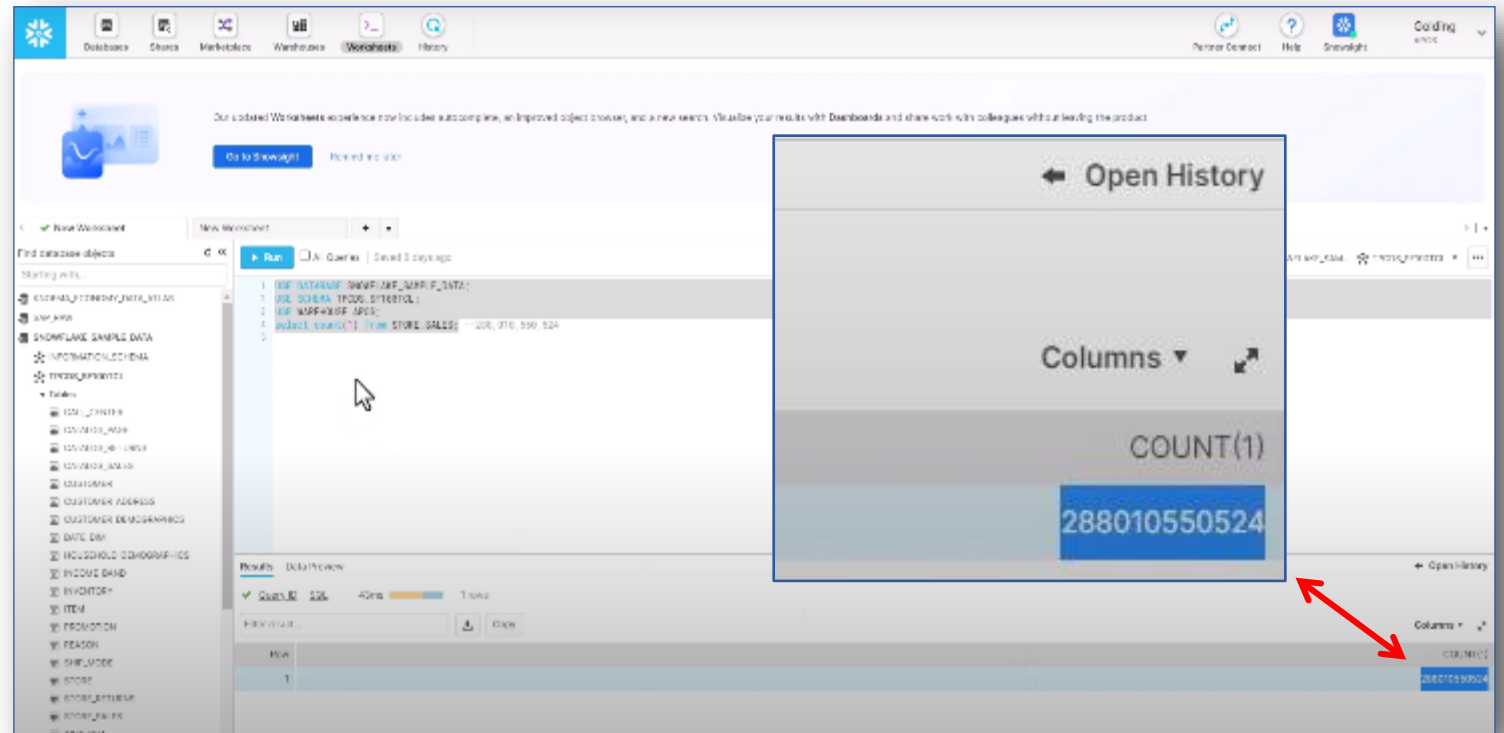


Performance



Performance Considerations

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



Solution Overview

To view this demonstration, [view the webinar on demand](#)



APOS Data Gateway – Session Summary

- APOS Import Data Gateway
 - Expanded and simplified Import connectivity for SAC
 - Extract and Export SAC Planning data
 - Strategic data movement
- APOS Live Data Gateway
 - Direct Live connection options for SAC
 - Data Transformation
 - Performance
 - Security

Upcoming German Language Event

Entzünden Sie ihr Analytics:

*Automatisiertes Broadcasting von Reports aus der
SAP Analytics Cloud - APOS Publisher für Cloud*



Erfahren Sie, wie APOS Publisher for Cloud die Reportübertragungs- und -verteilungsanforderungen auf Unternehmensebene erfüllt, sowie ein geplantes Update um zukünftig die Übertragung von Analysis for Office-Inhalten zu supporten inklusive einer neuen webbasierten Benutzeroberfläche für die termingenaue Planung der Versendungen.

Donnerstag, 18. April - 14 Uhr CEST

Register at www.apos.com



APOS Data Gateway

Free 30-Day Evaluation

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

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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

STREAMLINE YOUR MOVE TO UNX UNIVERSE



Freemium Upgrade Offer

APOS Web Intelligence Migrator



INVENTORY SYSTEM CONTENT

Detailed view of universes and reports for effective project planning



BULK CONVERSION OF UNIVERSES

High-volume conversion of universes from UNV to UNX format



HIGH VOLUME REPOINTING OF REPORTS

Scan and repoint Web Intelligence reports in bulk from old UNV to new UNX



VALIDATE UPGRADE SUCCESS

Automated testing of reports to validate successful and accurate migration



STRONG PROCESS CONTROLS

Enterprise-grade controls to synchronize and scale your migration processes

APOS Freemium Offer

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- Scan and inventory your SAP BI systems
- Bulk convert all UNV universes to UNX
- Bulk repoint up to 200 WebI reports
- Validate migration success
- 100 days of free use
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