

WEBINAR

# APOS Data Gateway Technical Deep Dive

# Today's Session

- **Solution Technical Overview**
- **Live Data Gateway Use Case 1**
  - Cloud Data Source
  - Date Hierarchies
  - Variable Prompts
- **Live Data Gateway Use Case 2**
  - On-premise Data Source
  - SAML SSO
  - Custom Hierarchies
- **Import Data Gateway Use Case**
  - Import data from Salesforce into SAC
  - Other data movement options
  - Extract data from SAC into Snowflake
- **Q&A** – see webinar console



## Today's Presenters:



**ALAN GOLDING**

Solution Consulting Manager, APOS



**FRED WALTHER**

Senior Solution Consultant, APOS



**ESTEBAN CASTRO**

Solution Consultant, 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

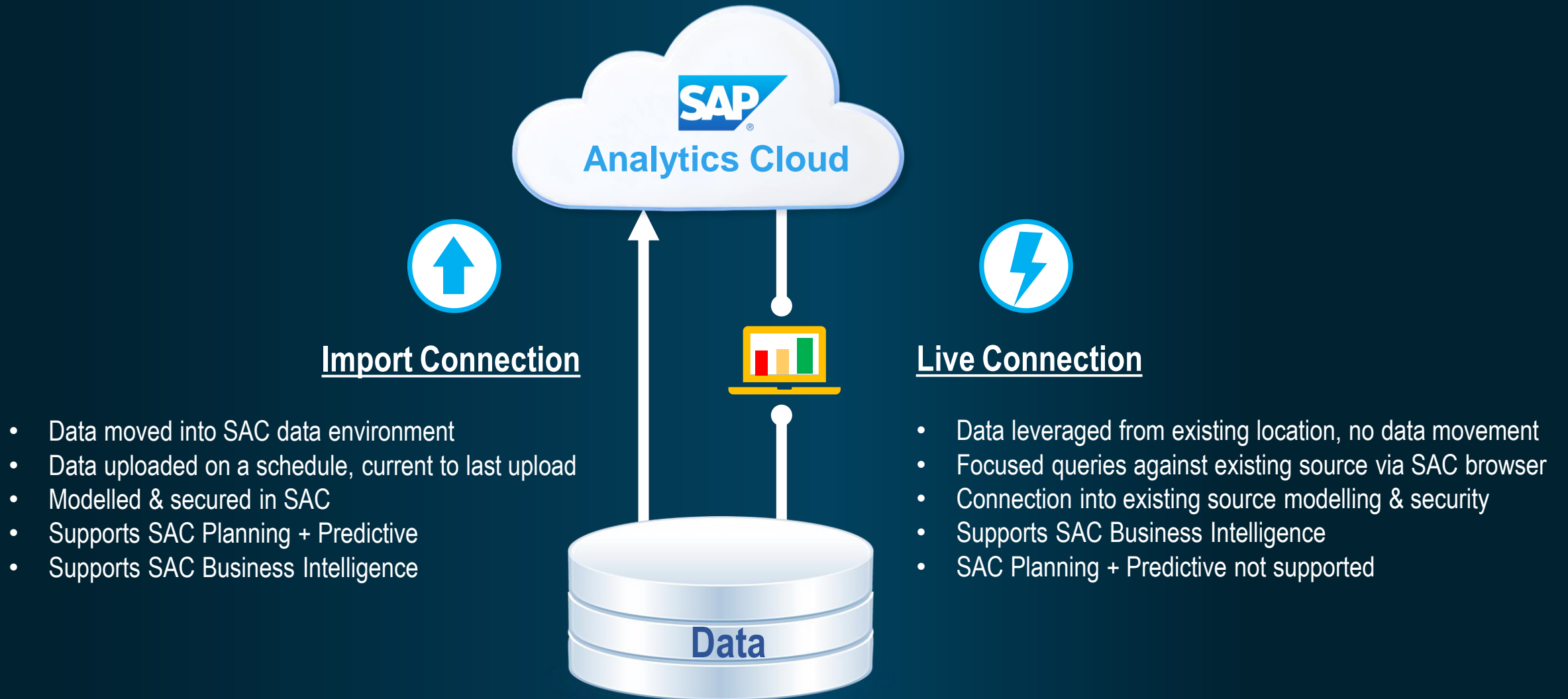
- Automated broadcasting and distribution of personalized SAC reports to target user groups
- Distribute reports to the right people, right time, right location, right format



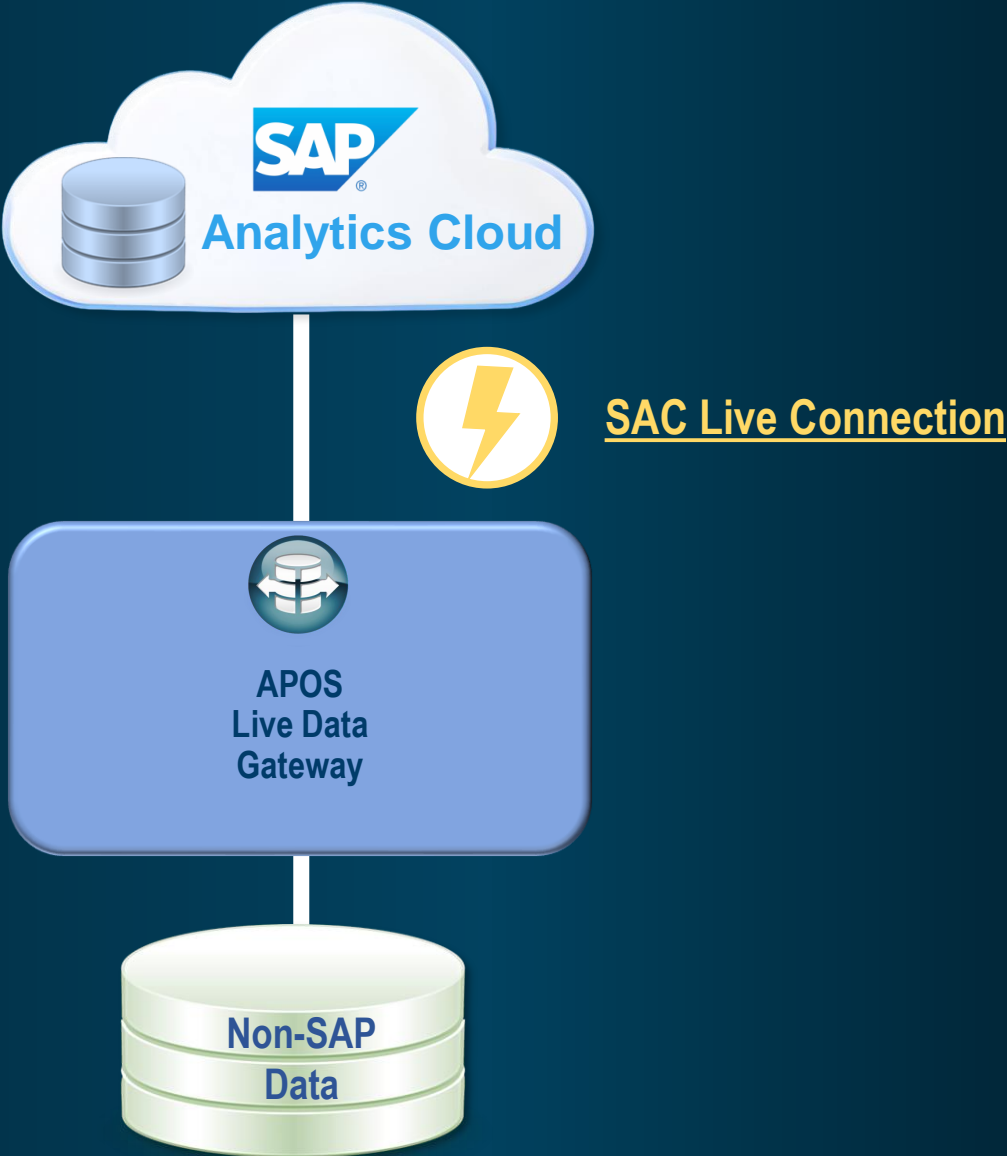
## APOS Data Gateway

- 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

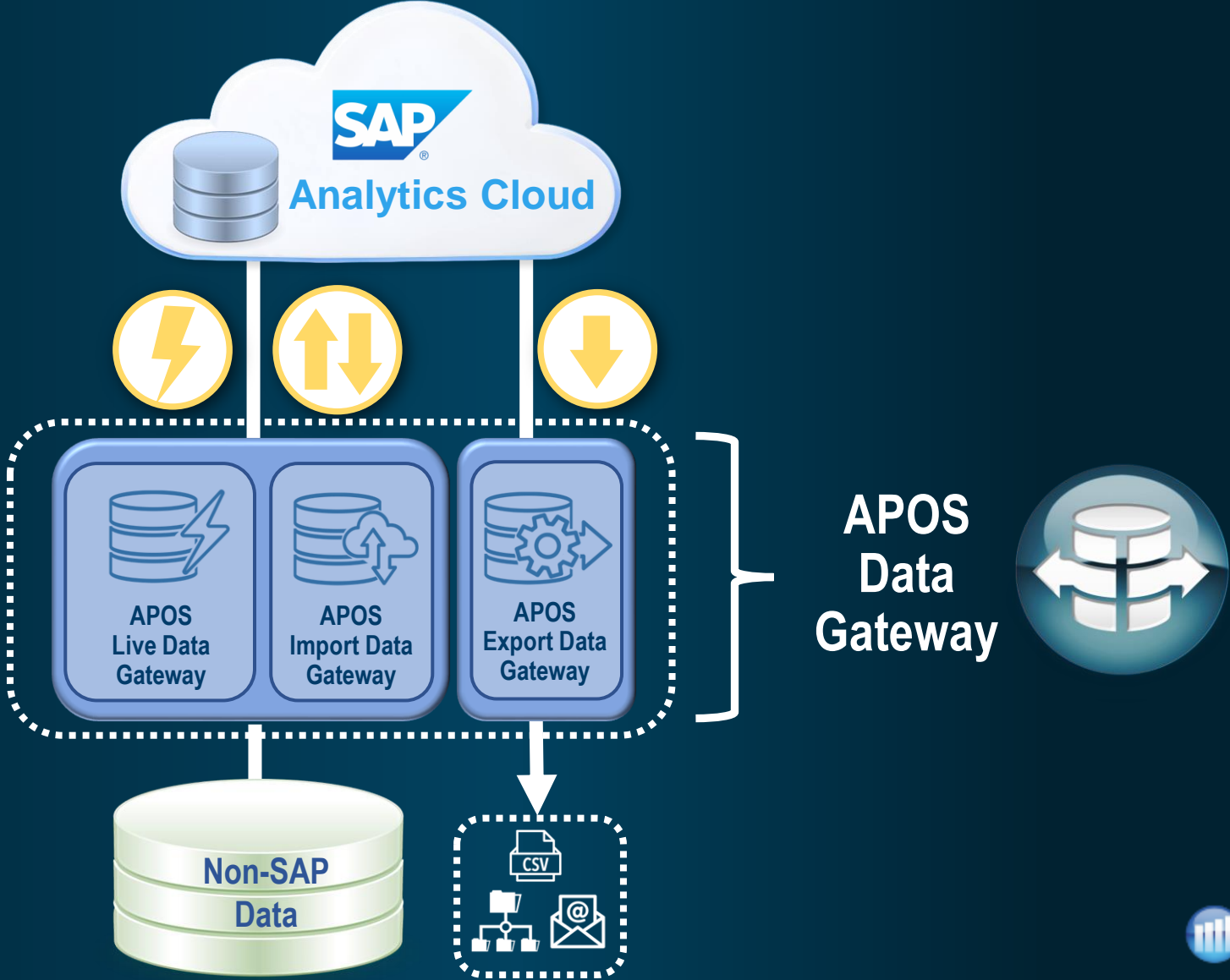
# SAC Connectivity



# SAC Connectivity



# Expanded SAC Connectivity





# 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, it states 'The APOS Live Data Gateway is available on the SAP App Center.' The article also has a section titled 'Data Source Types Supported' which lists 'Relational Data Sources: Microsoft SQL Server, Oracle, IBM DB2, Sybase IQ, Sybase SQL Anywhere, MySQL' and 'Data Appliances: Teradata, Netezza'.

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

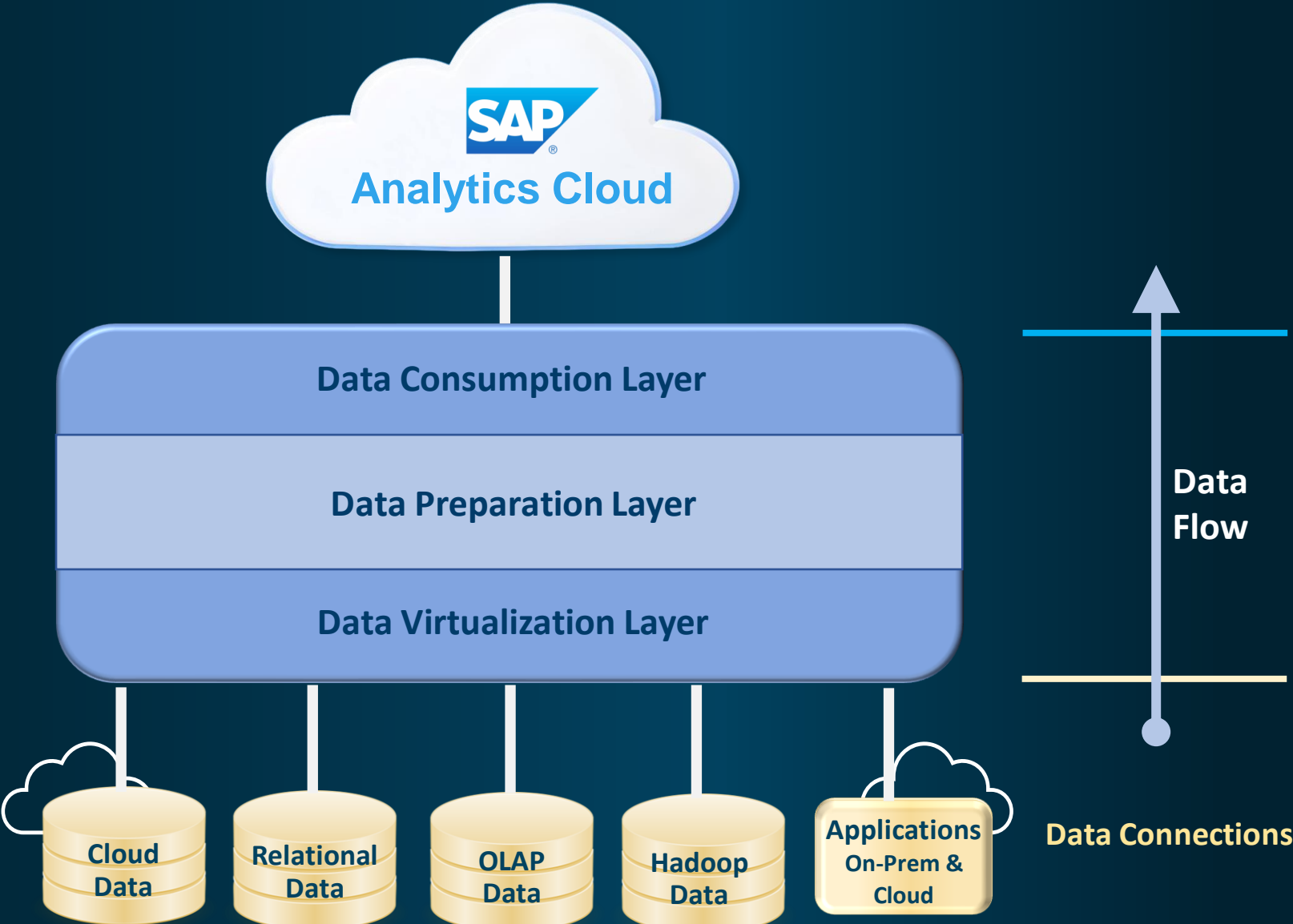
# Supported Data Sources

- 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>

# APOS Live Data Gateway

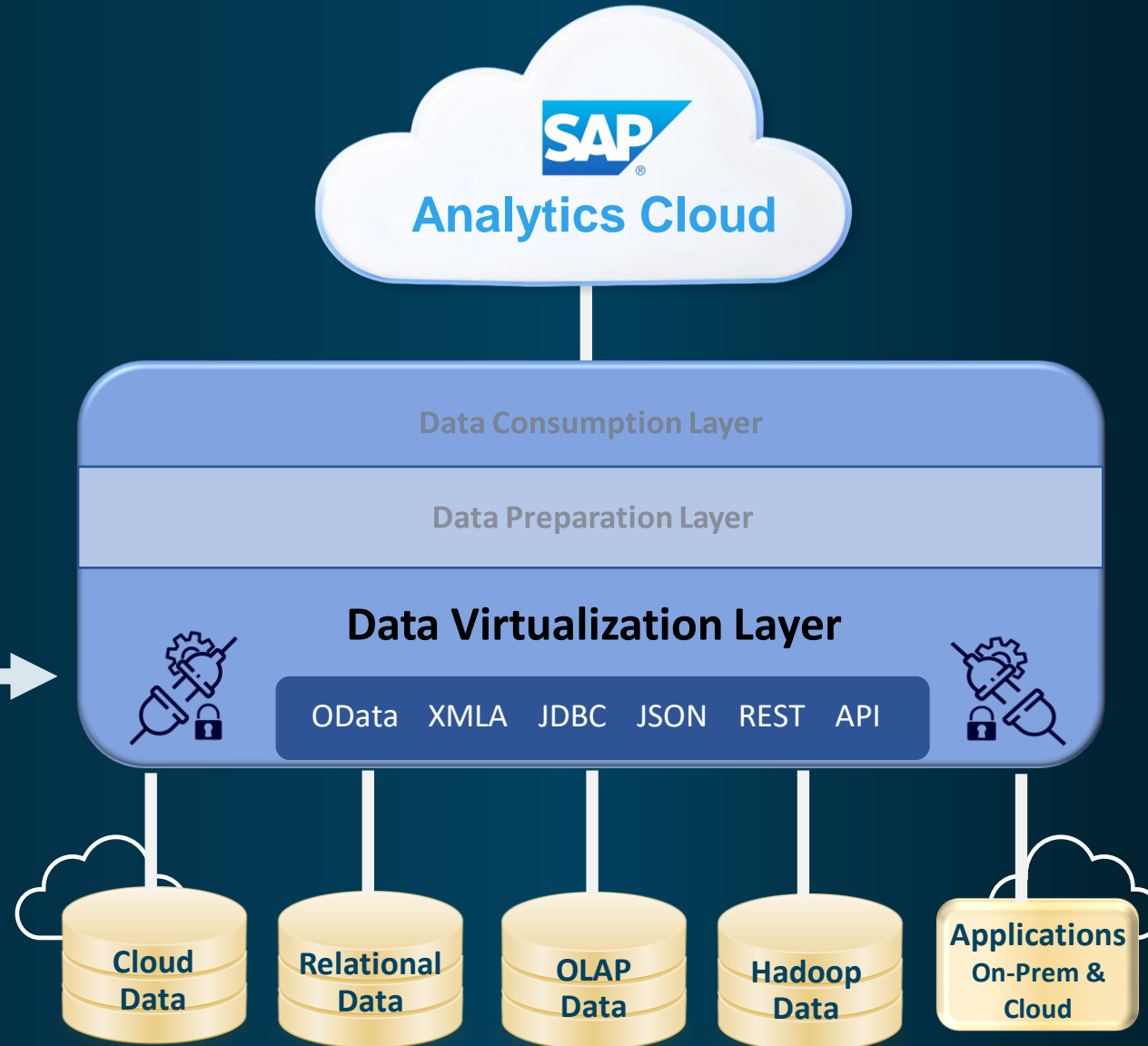


# Database Virtualization Layer

## 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)

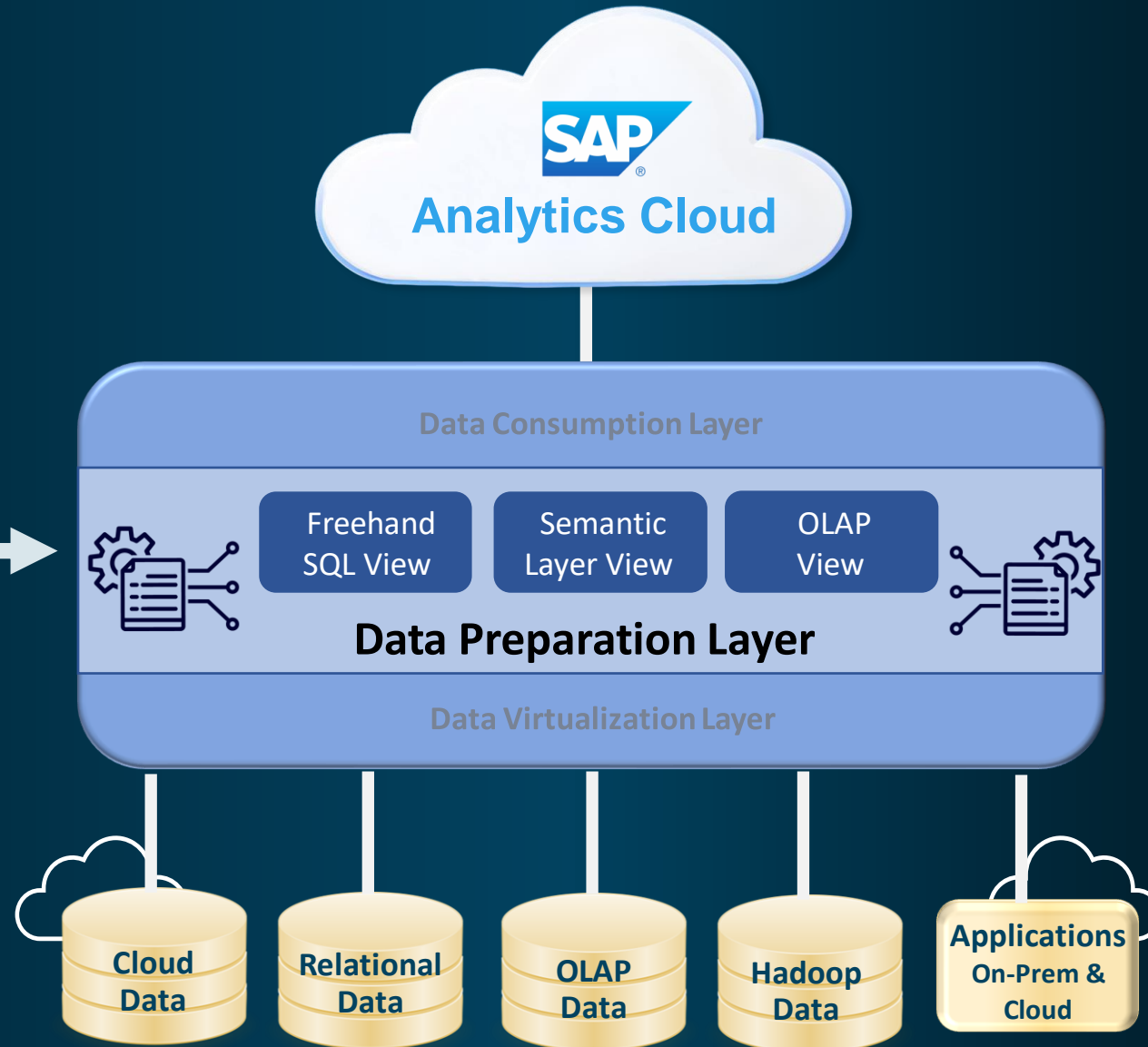


# Database Preparation Layer

## 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

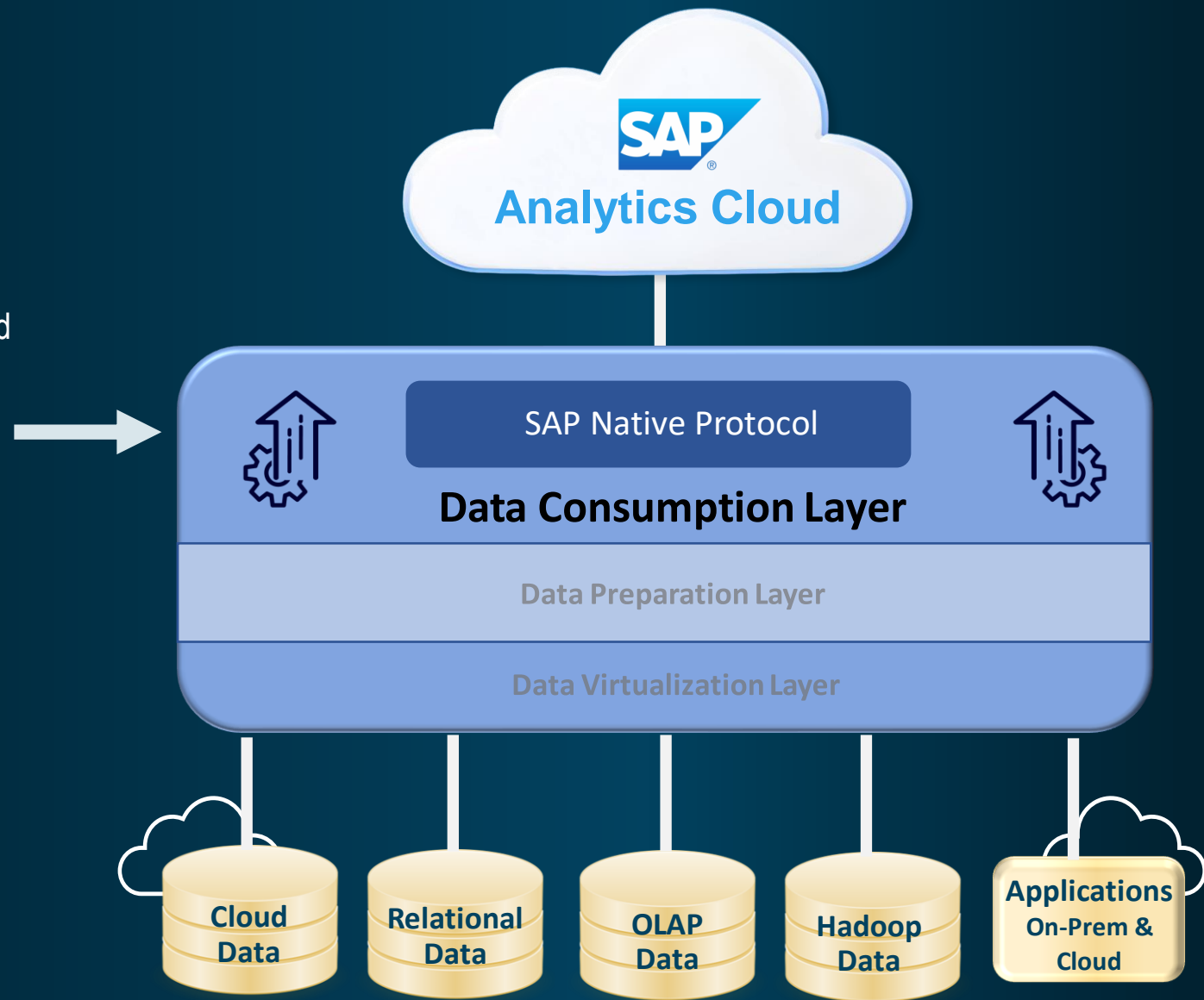


# Database Consumption Layer

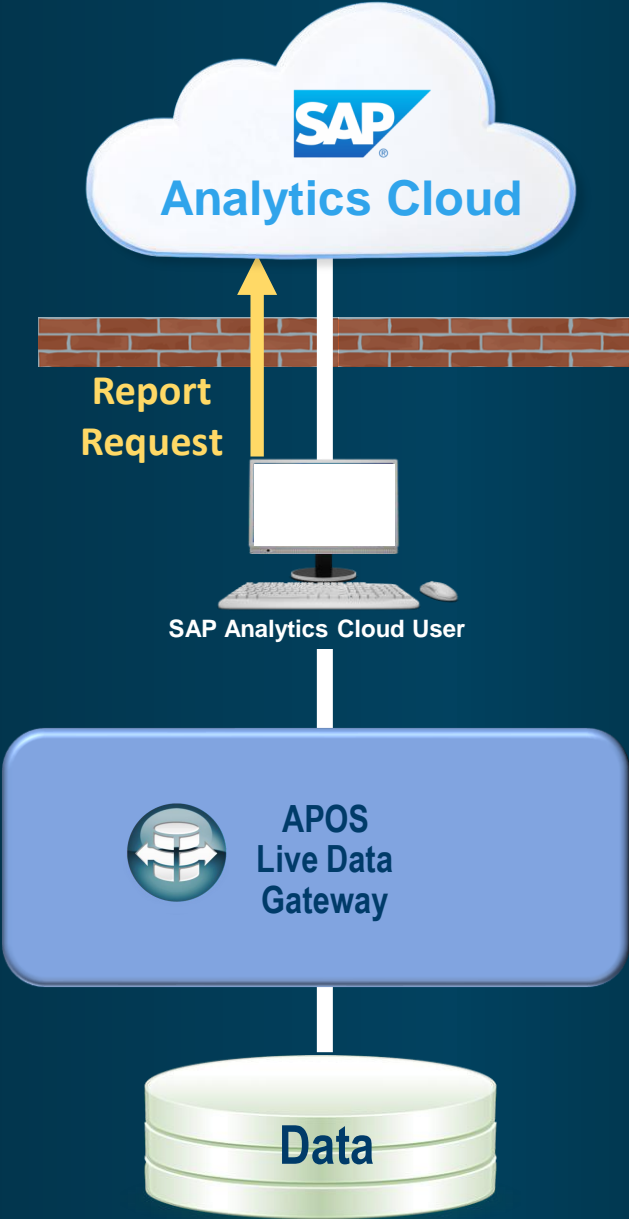
## Data Consumption Layer

### Key Functions

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

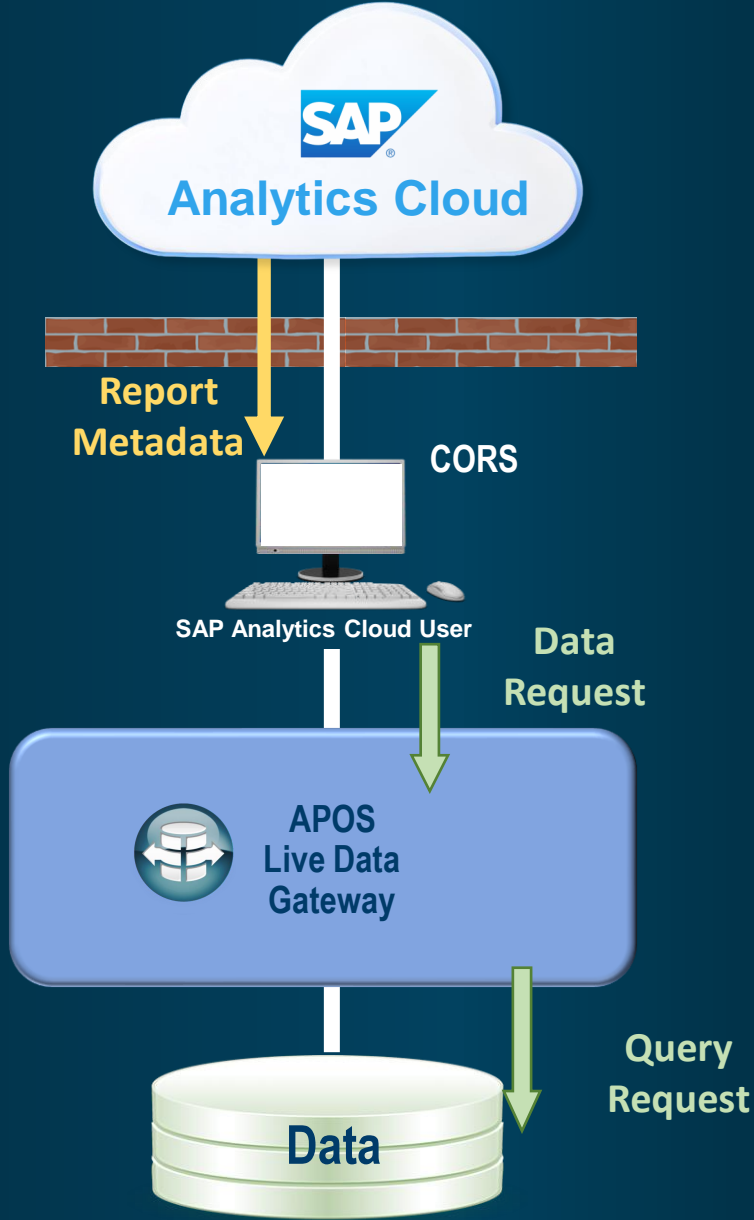


# Live Data Consumption Flow

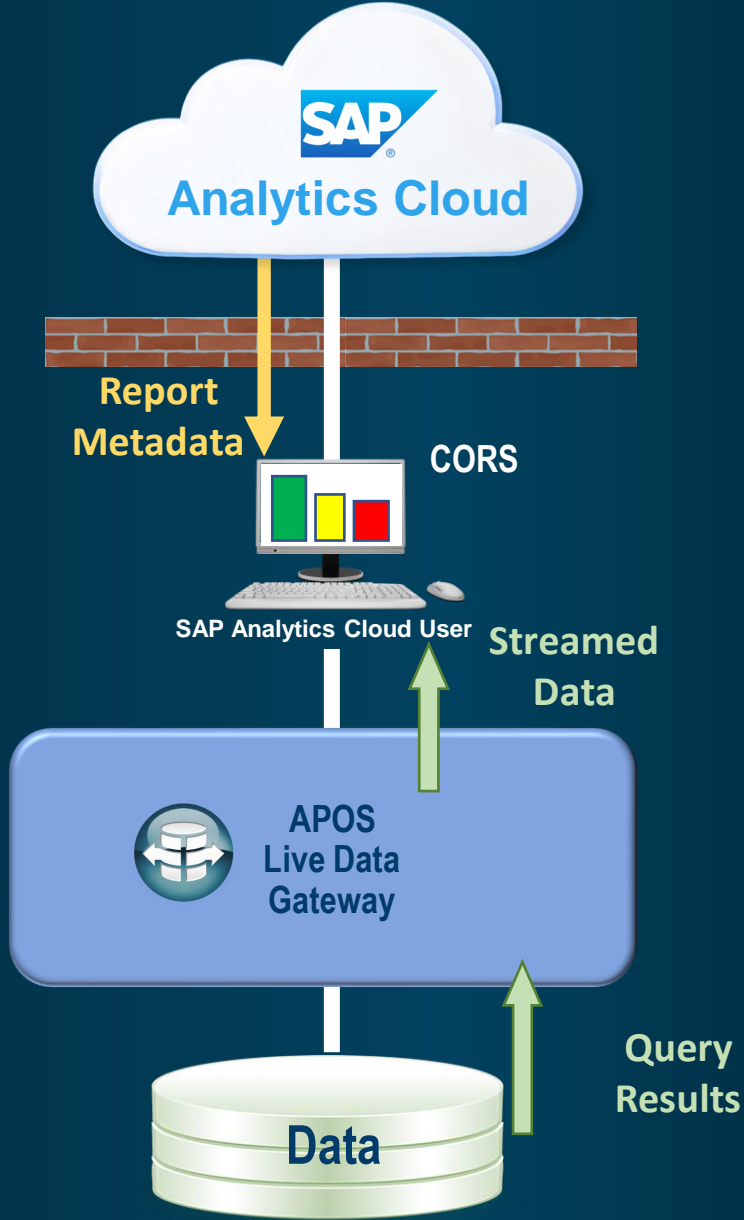




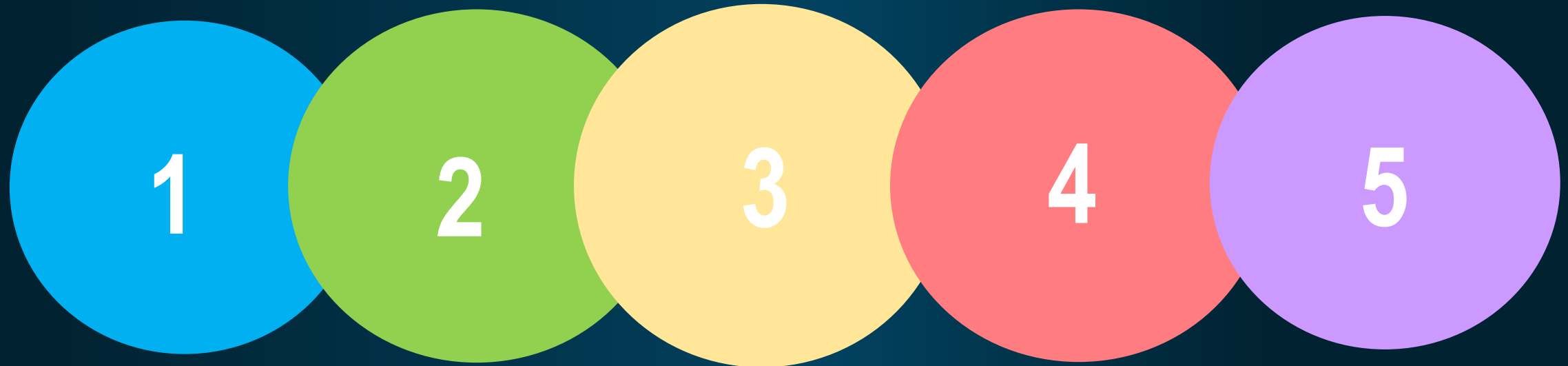
# Live Data Consumption Flow



# Live Data Consumption Flow



# 5 Simple Steps to Live Connectivity



**Create Connection**  
from Live Data Gateway to  
data source

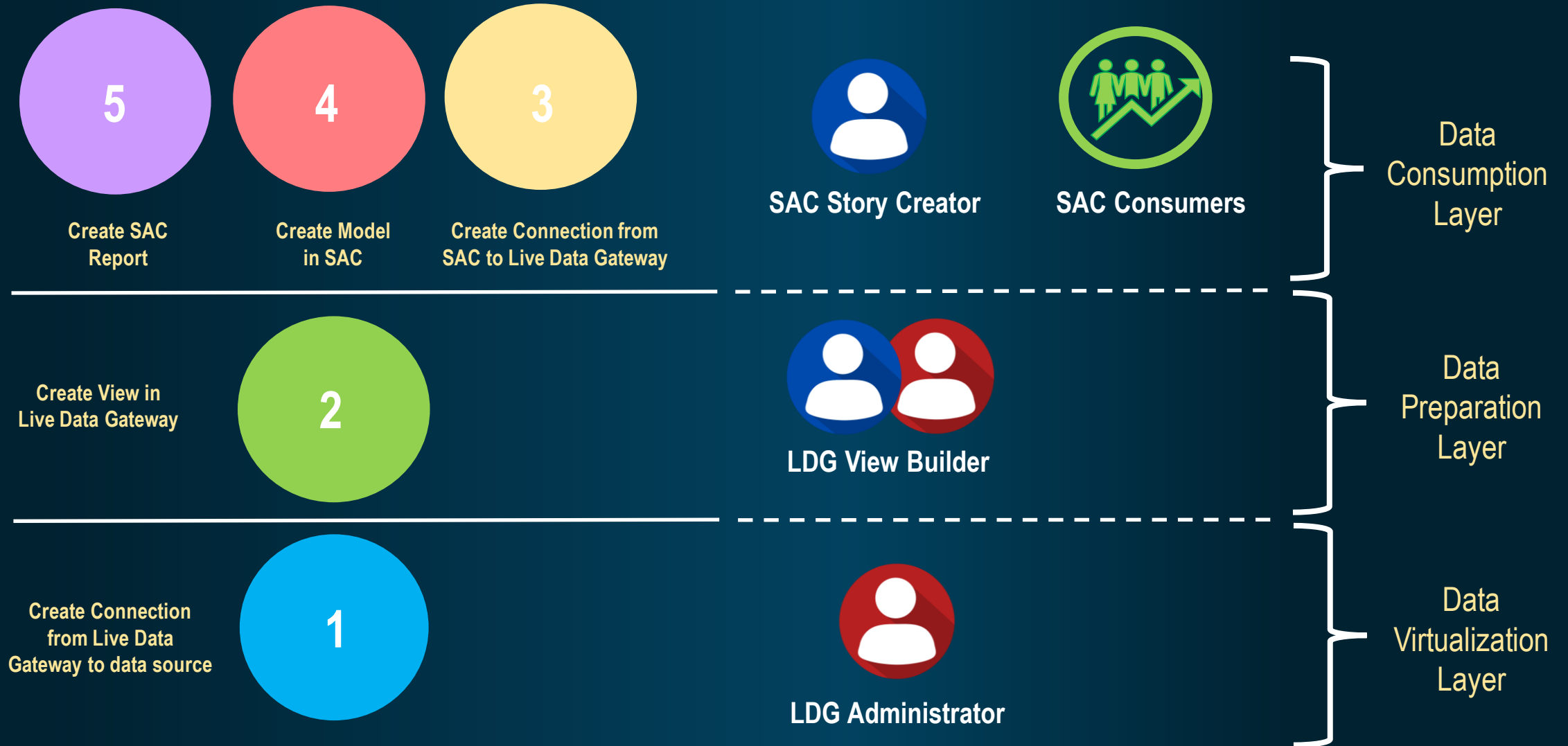
**Create View**  
in Live Data Gateway

**Create Connection**  
from SAC to Live Data  
Gateway

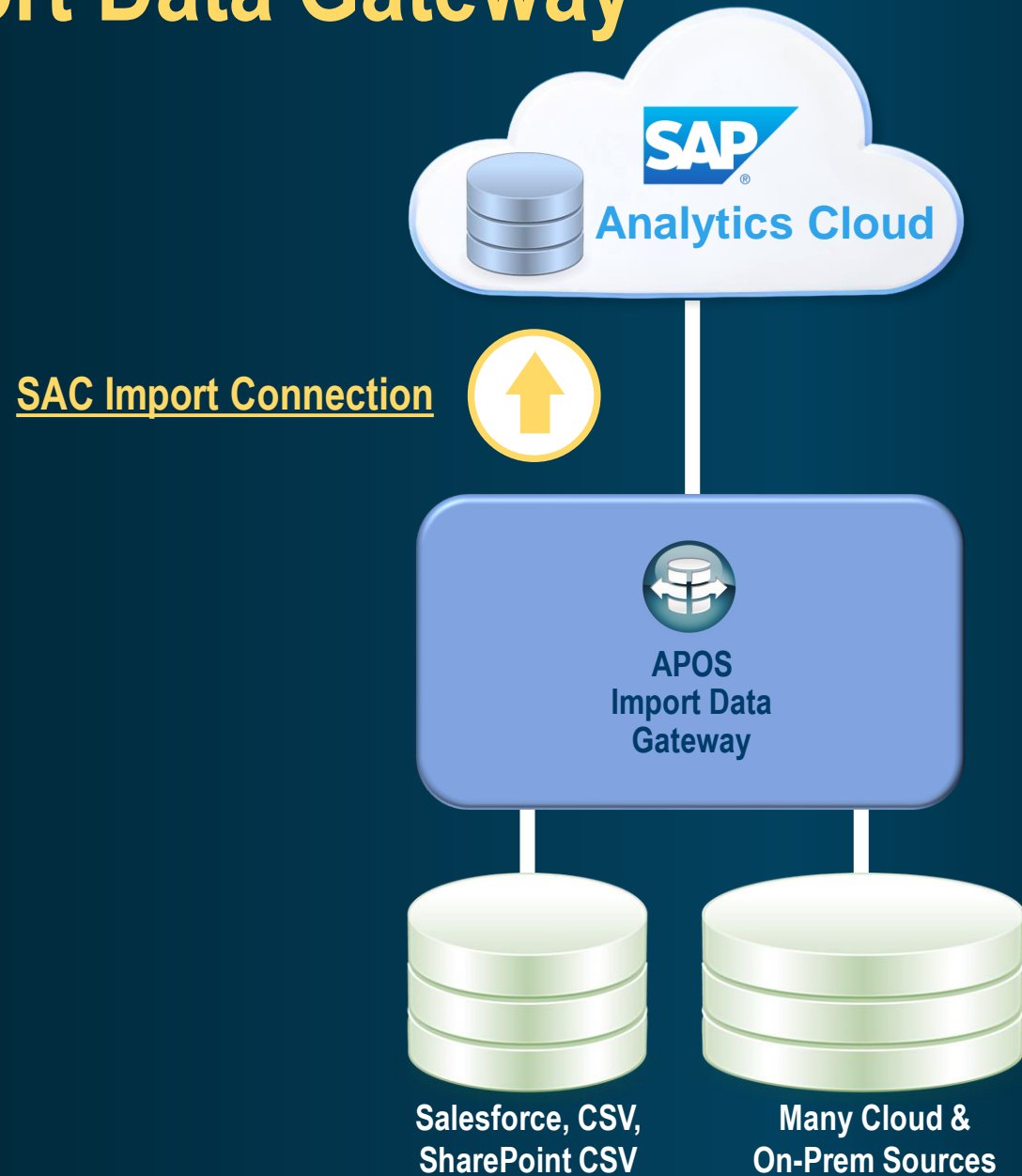
**Create Model**  
in SAC

**Create Report**  
in SAC

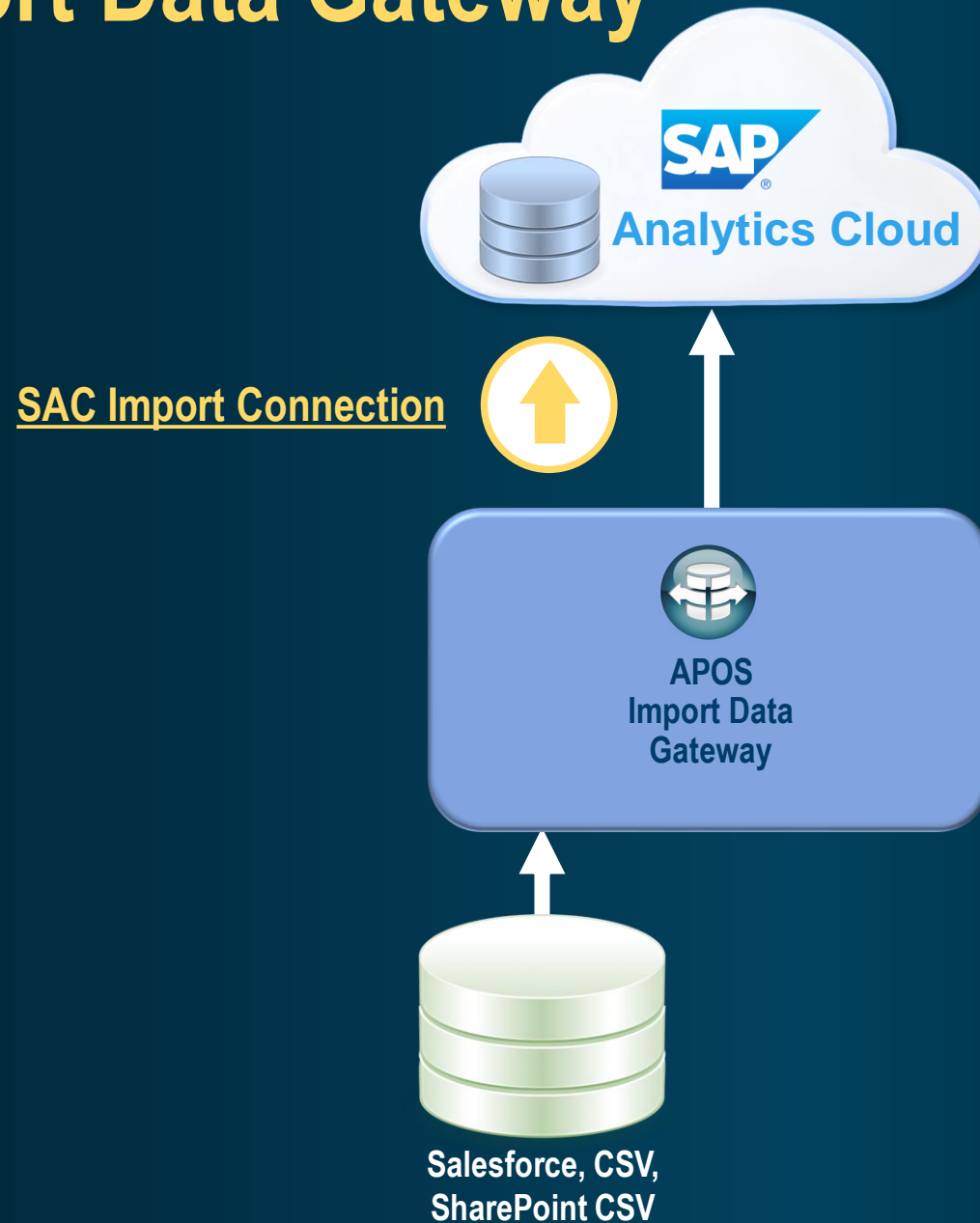
# Demonstrating the 5 Steps



# APOS Import Data Gateway



# APOS Import Data Gateway



# APOS Import Data Gateway

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', 'SAP Learning Journeys', and 'What's New'. Below the navigation bar, there are utility icons for 'Favorite', 'Download PDF', and 'Share'. The left sidebar contains a list of navigation items, with 'Import Data Connection to Salesforce' highlighted in blue. The main content area features the title 'Import Data Connection to Salesforce', a brief description, and a 'Prerequisites' section. A 'Caution' box is present, containing a warning message about the deprecation of the Salesforce connection.

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

↓ ↑ << ☆ Favorite PDF Download PDF Share

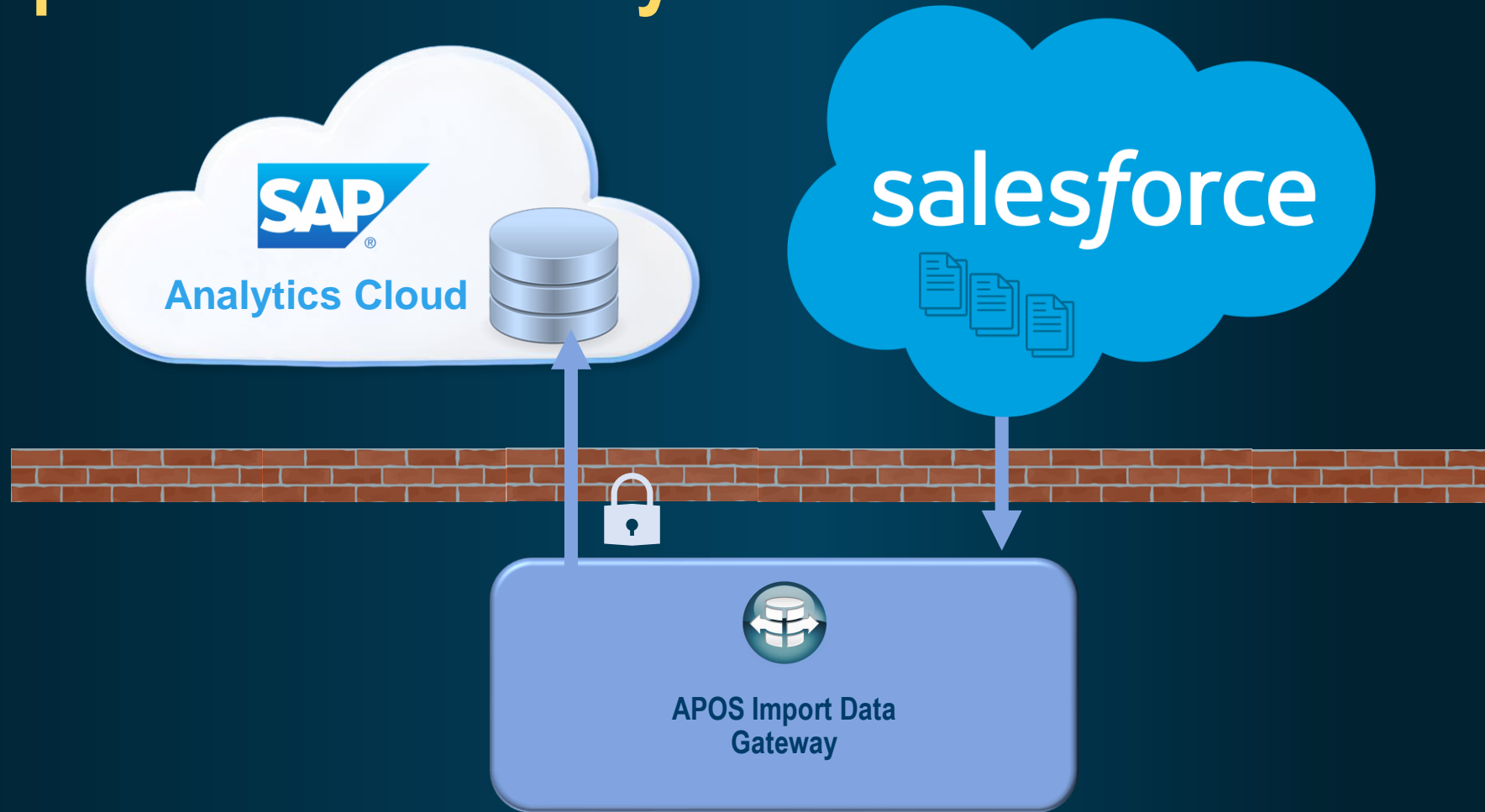
## Import Data Connection to Salesforce

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

### Prerequisites

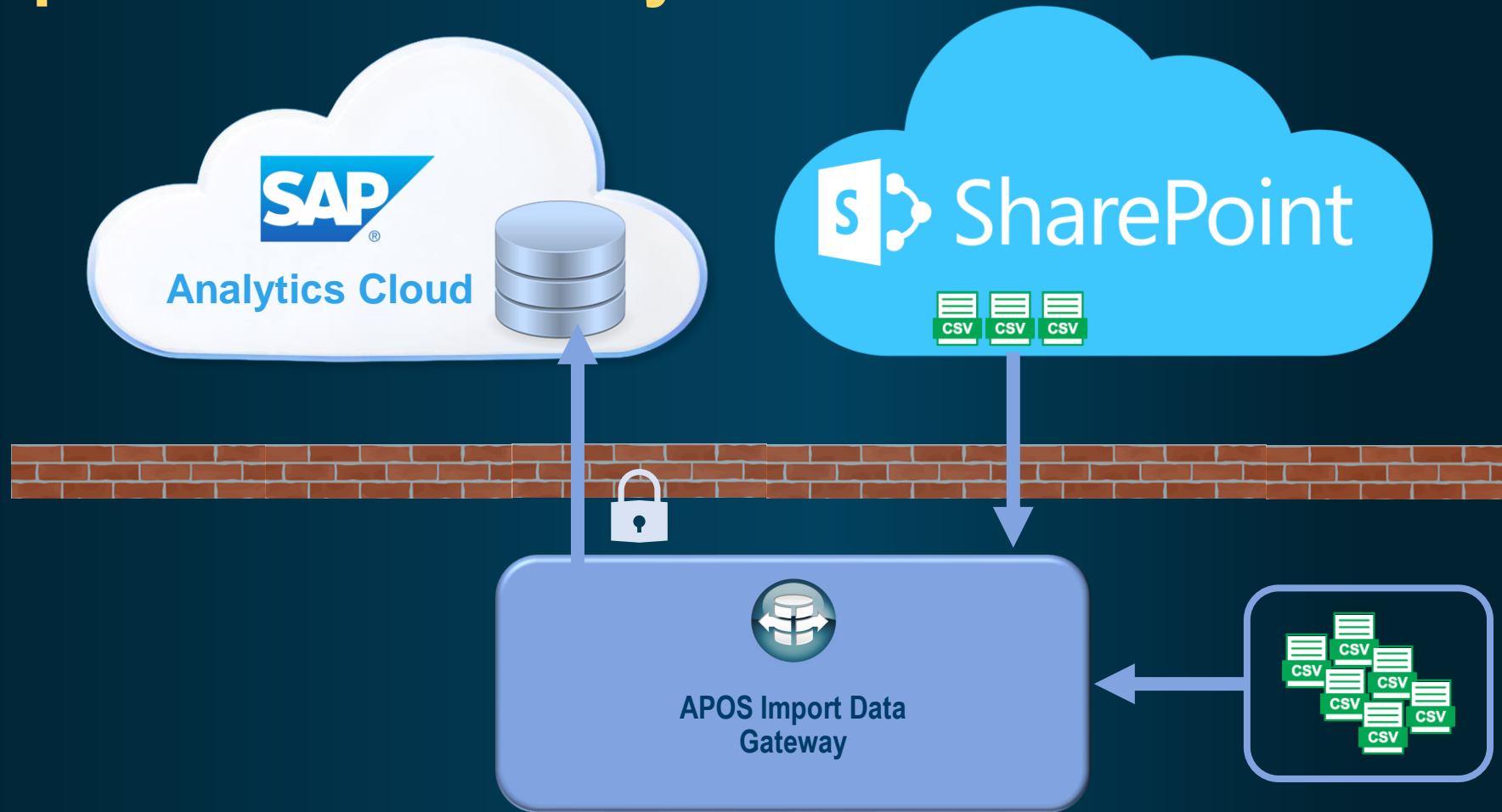
**⚠ Caution**  
Salesforce connection will be deprecated in QRC4 2024. Please utilize a SQL Database connection using JDBC or APOS Live Data Gateway for Acquired Connections. See SAP Note [3402695](#).

# APOS Import Data Gateway

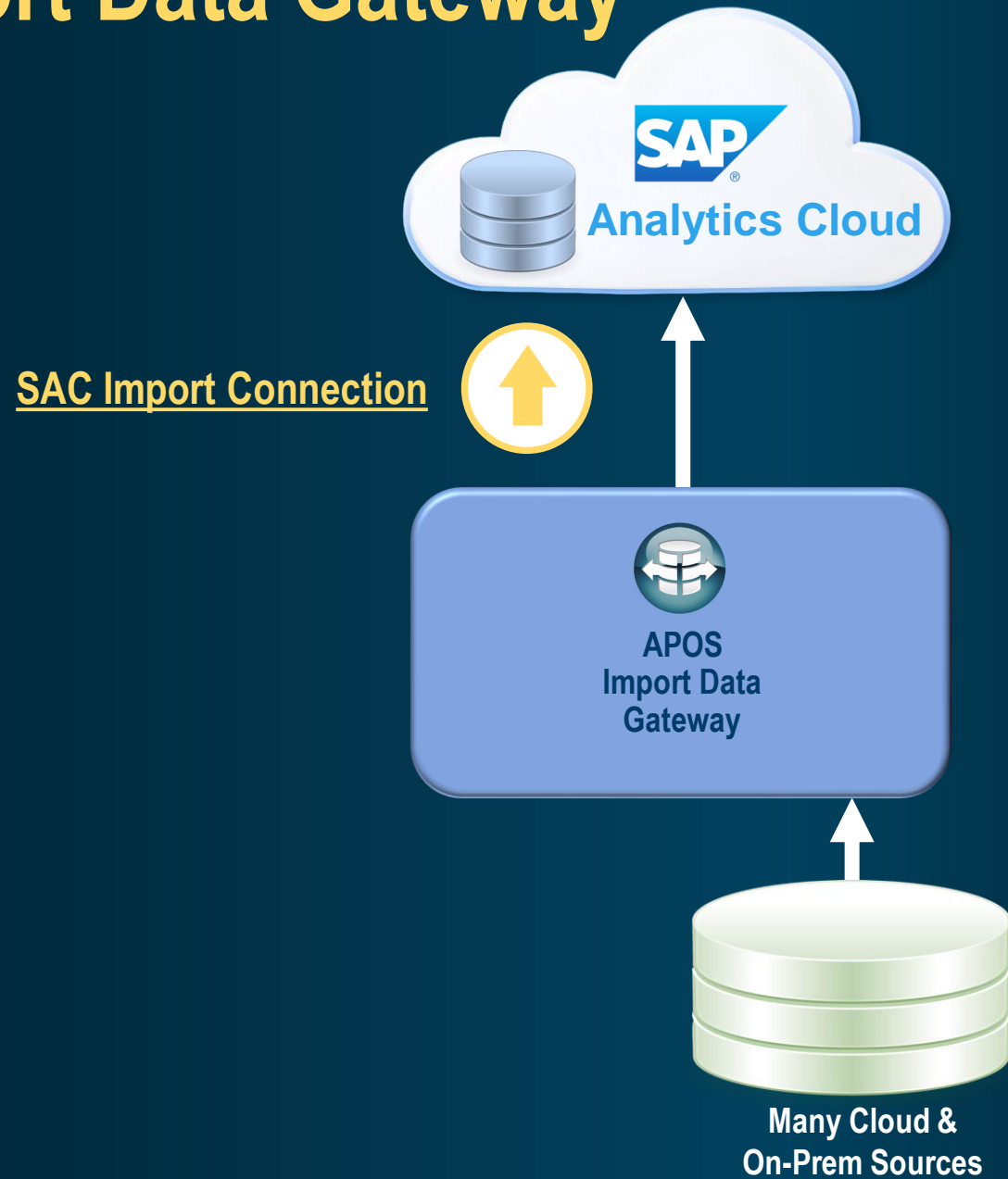




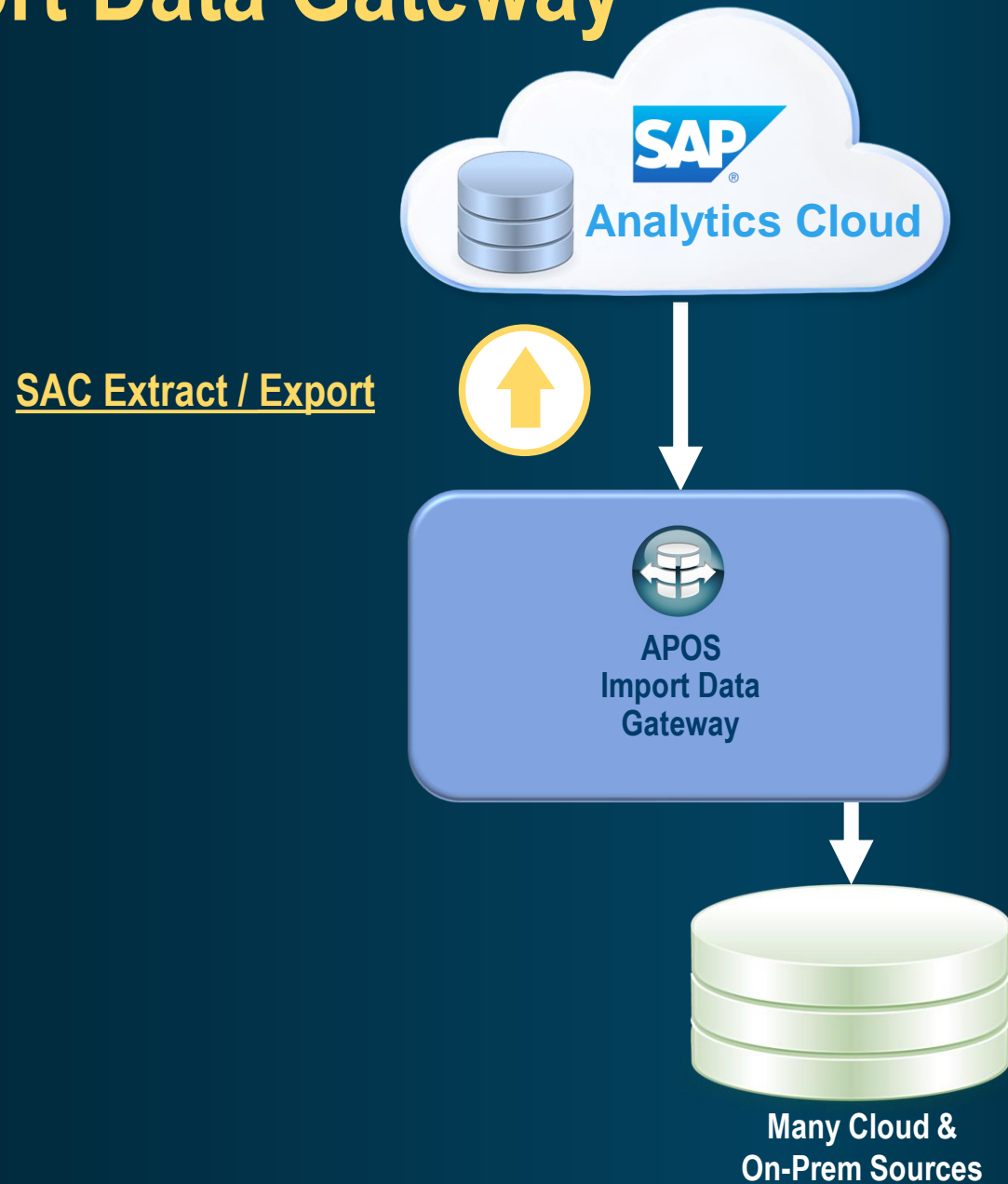
# APOS Import Data Gateway



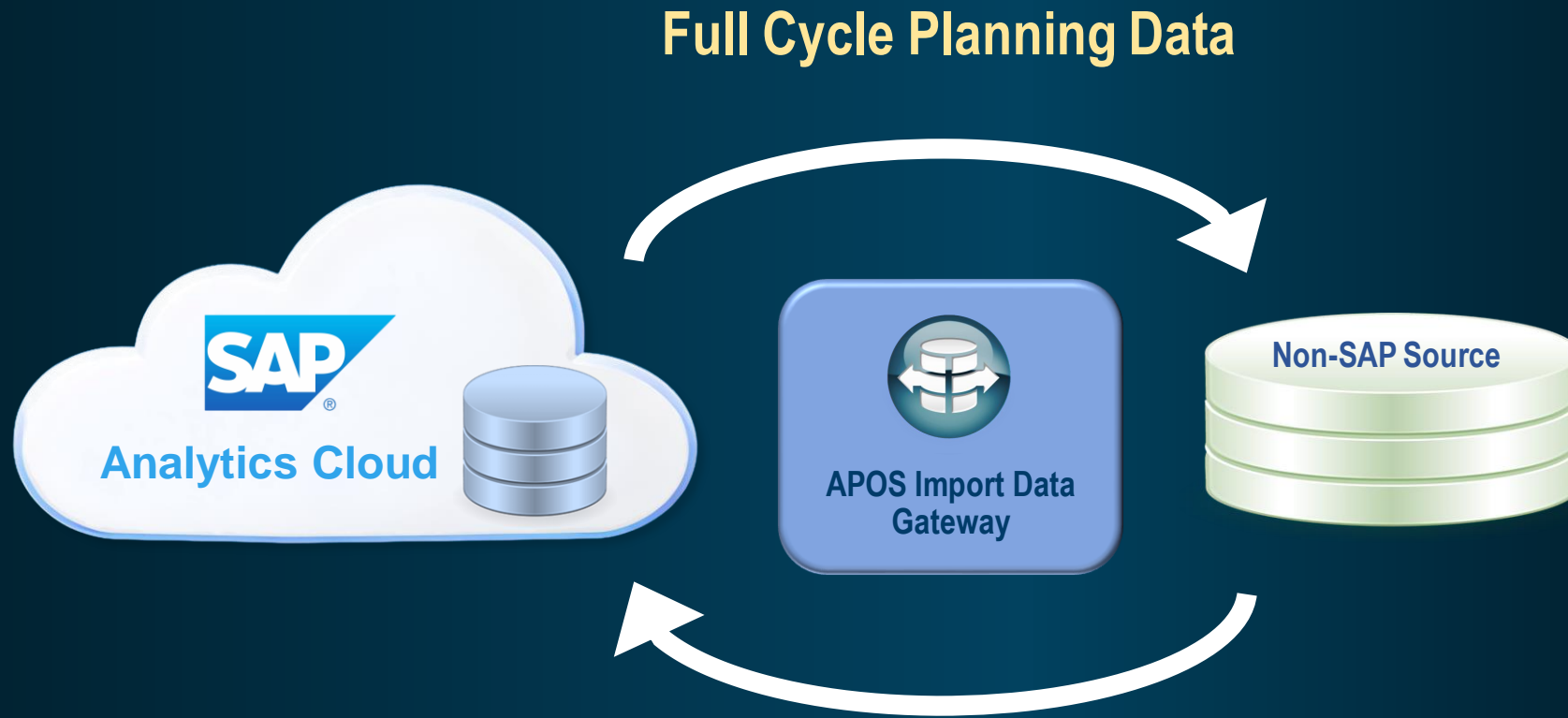
# APOS Import Data Gateway



# APOS Import Data Gateway



# APOS Import Data Gateway



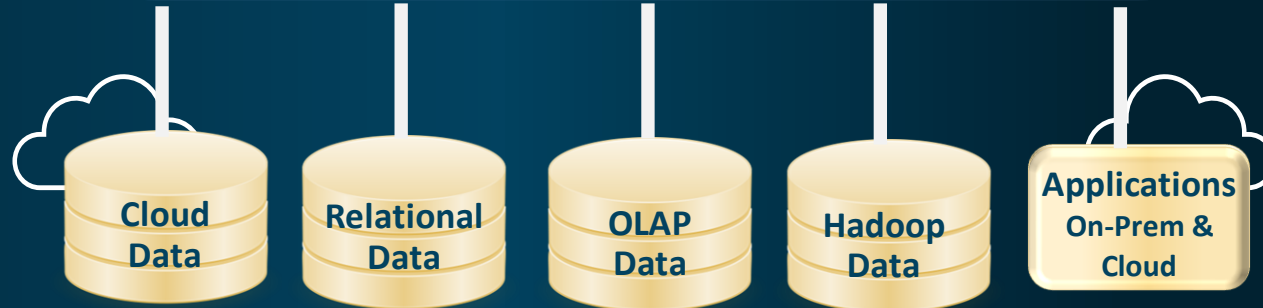
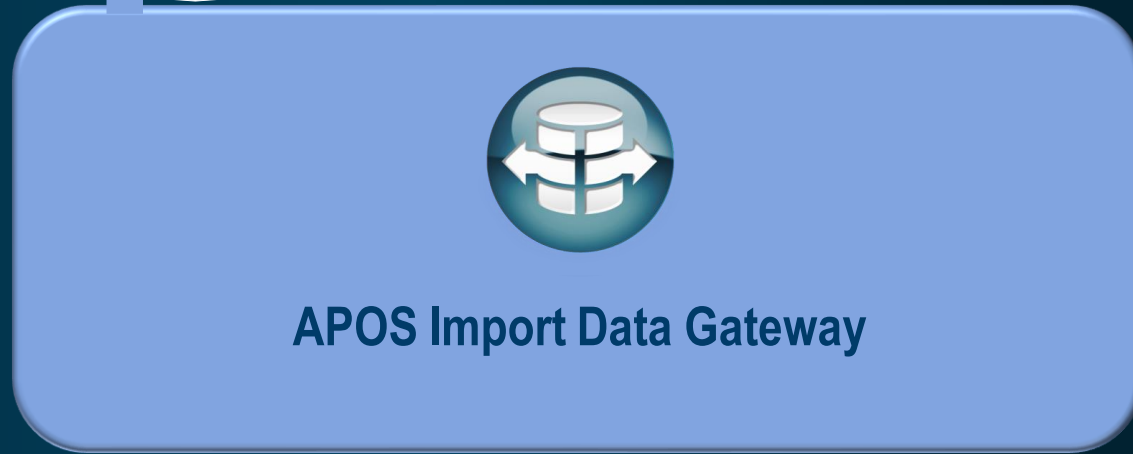
Bi-Directional Data Process

# APOS Import Data Gateway

## Direct SAC Import connection

No SAP Cloud Connector/Agent required

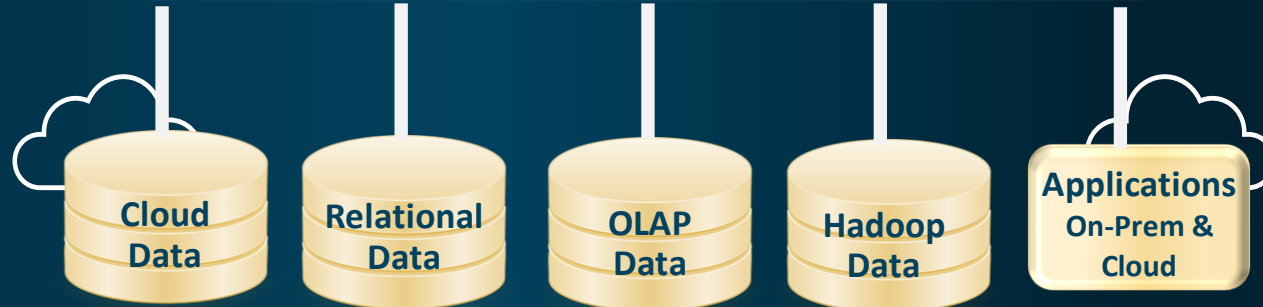
- Easy to deploy
- Secure communication
- Scheduled data uploads
- Full or Delta data uploads
- Field Mapping
- Data Modelling



# 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)



# APOS Live Data Gateway – Use Case 1

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

# APOS Live Data Gateway – Use Case 2

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



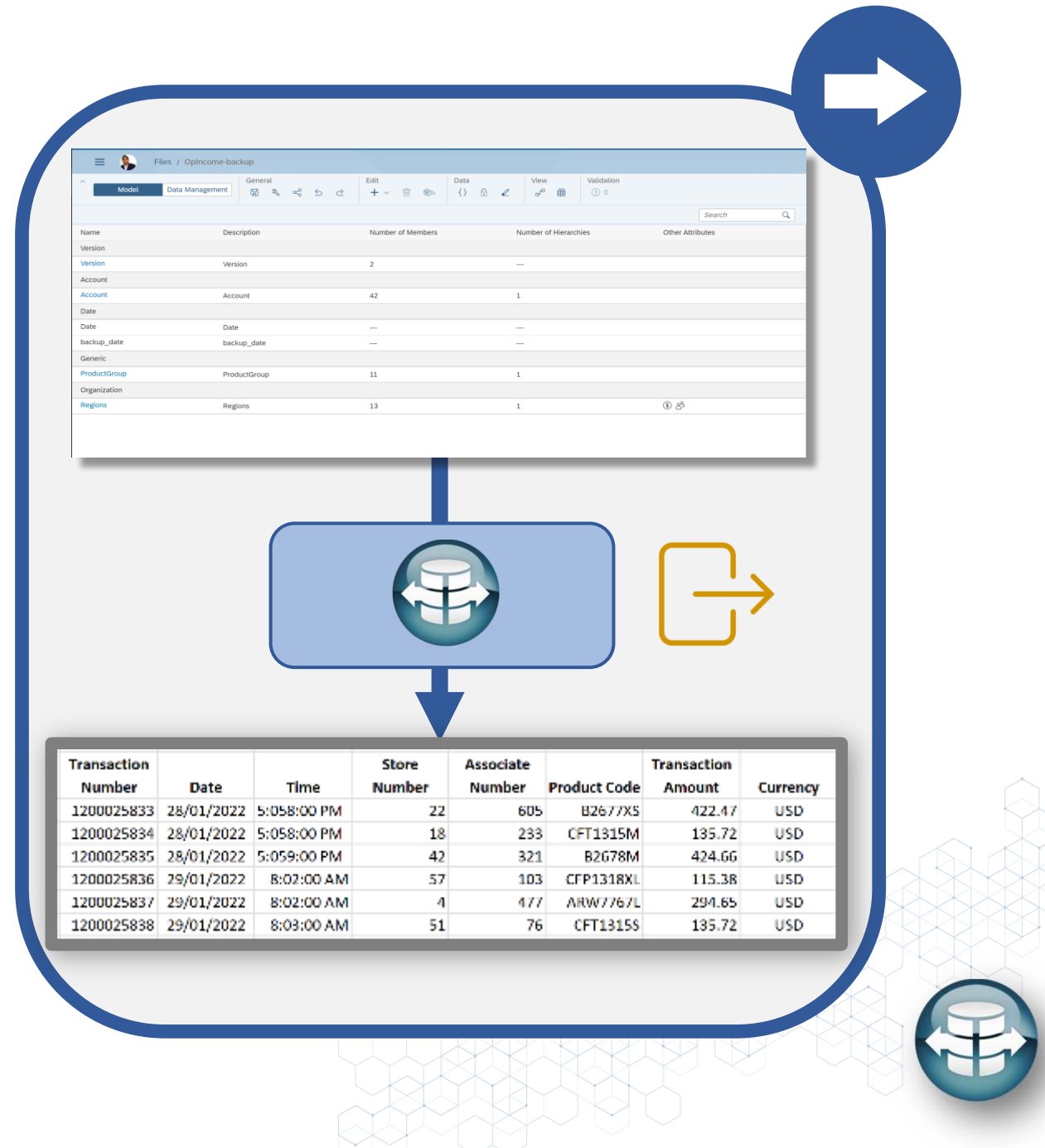
# APOS Import Data Gateway – Use Case

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

# Export Data Gateway (coming soon)

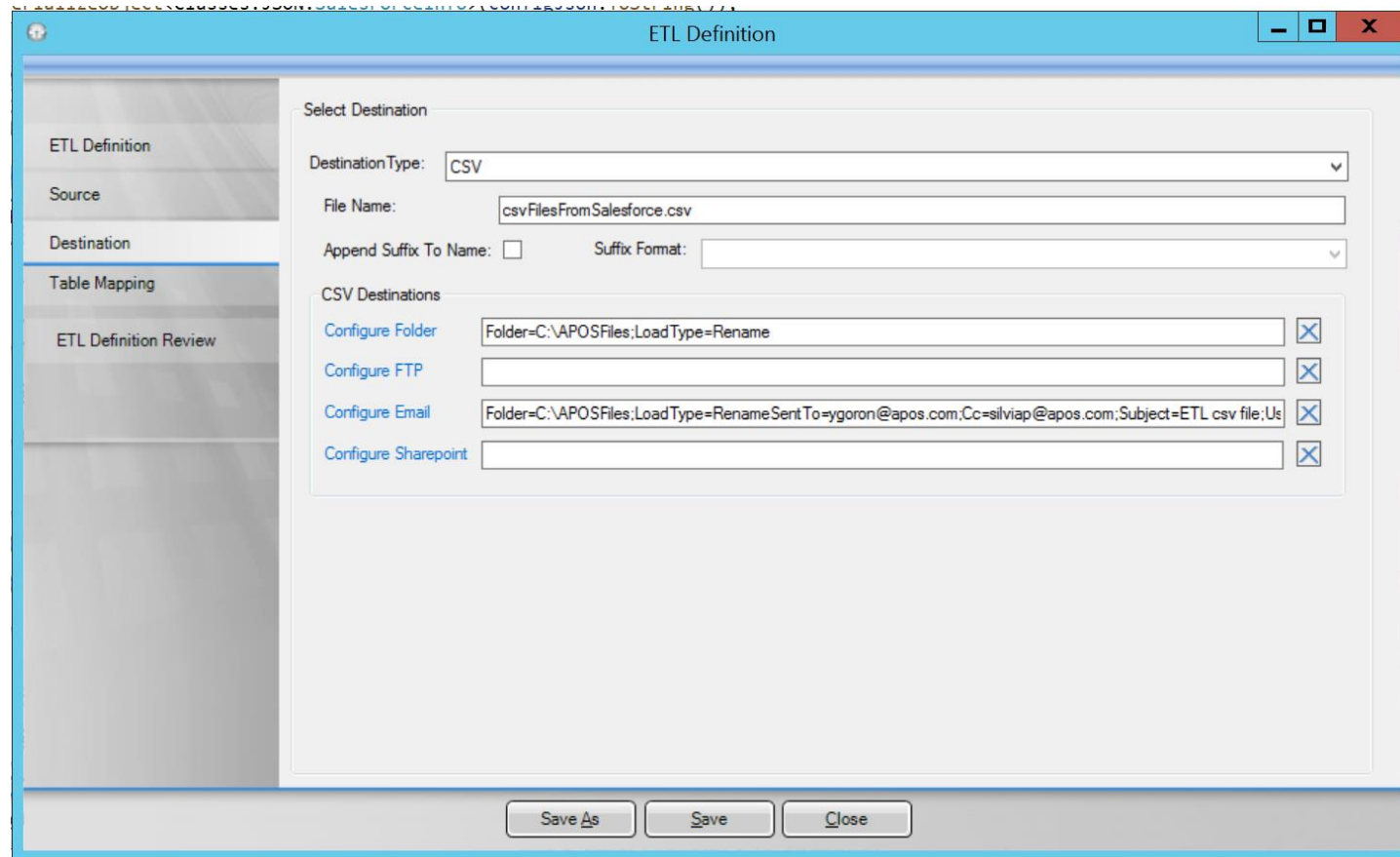
## Export Data to Strategic File

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



# 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:

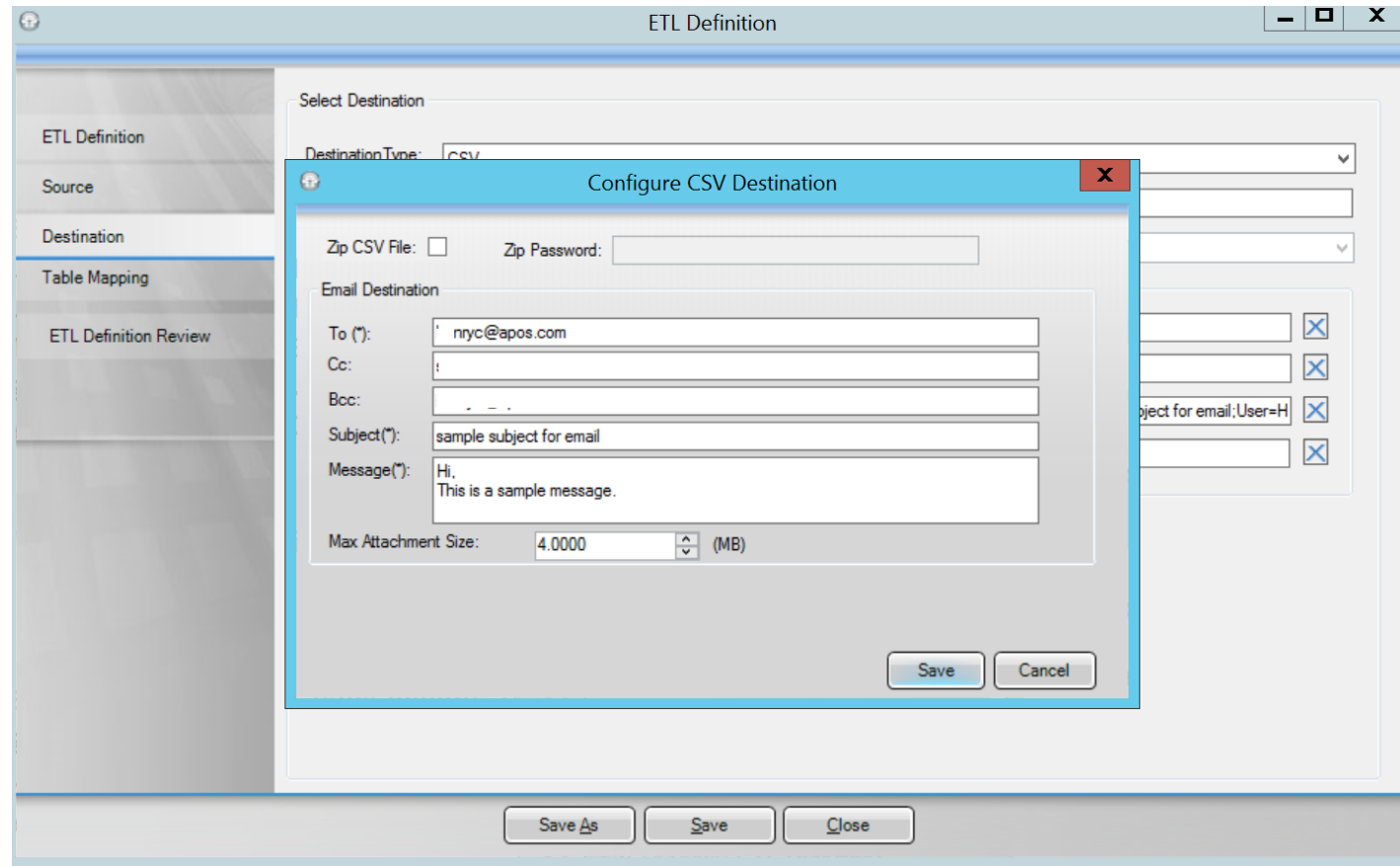
- DestinationType:** A dropdown menu set to 'CSV'.
- File Name:** A text input field containing 'csvFilesFromSalesforce.csv'.
- Append Suffix To Name:** An unchecked checkbox.
- Suffix Format:** A dropdown menu.
- CSV Destinations:** A section with four rows, each featuring a 'Configure' link and a text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

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 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

Free Production deployment use of APOS Web Intelligence Migrator:

- 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
- Inventory multiple systems
- Guidance and support



Access now at  
[apos.com/freemium](https://apos.com/freemium)



# Upcoming Event

*Ignite Analytics*

## Automated SAP Analytics Cloud Report Broadcasting



This session will give you a clear view into how APOS Publisher for Cloud delivers on enterprise-level report broadcasting and distribution requirements, as well as an update on our plans for **support for broadcasting Analysis for Office content** and a new **web-based UI for scheduling**.

**March 21 - 11am Eastern Time**

Register at [www.apos.com](http://www.apos.com)

APOS has been serving the SAP BusinessObjects user community for 20 years, providing solutions for automating key functions in managing an SAP BI platform.

Whether you are upgrading your on-premise BI in preparation for SAP BusinessObjects 2024, moving to SAP BusinessObjects Private Cloud Edition, or migrating to SAP Analytics Cloud, migrations can be challenging, putting strains on resources, so streamlining and automating processes is needed. APOS solutions simplify and automate many key processes in a successful SAP BusinessObjects migration.



## SAP BusinessObjects Migration Kit

### Upgrade Readiness, Execution & Content Governance

Achieve a streamlined, efficient and effective deployment that is upgrade ready. APOS solutions help you run bulk upgrade operations, validate content, optimize security, and maintain your BI environment.

[Learn More](#)

## SAP BusinessObjects Private Cloud Edition (PCE) Adoption Kit

### Streamline, simplify, safeguard, and accelerate your move to SAP BusinessObjects Private Cloud Edition (PCE)

The PCE Adoption Kit by APOS bundles time-tested APOS technology to simplify migration from on-premise to the Cloud, providing vital automation to assist you through the stages of your migration.

[Learn More](#)



# STAY CONNECTED



LINKEDIN

APOS Systems Inc.



TWITTER

@apos\_systems

# QUESTIONS?

Please enter your questions in the Q&A panel.



# Thank you!

## Get in touch

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