



# EXPAND DATA CONNECTIVITY OPTIONS FOR SNOWFLAKE & SAP ANALYTICS CLOUD

SOLUTION BRIEF



APOS Data Gateway

## Specialized Live, Import, and Export data connectivity for SAP Analytics Cloud and Snowflake Data Cloud

Expand, simplify, and unify your data connectivity for SAP Analytics Cloud and Snowflake. Leverage live connectivity with the performance and security of Snowflake, and achieve critical import and export of planning data, and data extraction from SAC and other supported sources. This extended Live, Import and Export data access allows SAP accounts to unlock greater value from their Snowflake Data Cloud data, yielding better and faster business analytics and decisions.

APOS Data Gateway provides fast, efficient, and transparent live data access to valuable Snowflake Data Cloud data from SAP Analytics Cloud, providing easy self-service through existing APOS semantic layer views. Users can also conveniently define their own semantic layer views and freehand SQL queries against Snowflake Data Cloud data, all while respecting Snowflake security structure and schema. Special features for Snowflake allow APOS Data Gateway to handle and respect Snowflake roles while minimizing and automating administration and maintaining Single Sign-On (SSO) between Snowflake and SAP Analytics Cloud.

## Why Snowflake + APOS for Snowflake connectivity from SAP Analytics Cloud?

SAP Analytics Cloud does not have built-in support  
for a live connection to Snowflake

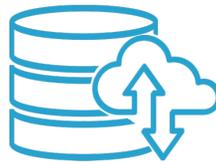
# LIVE, IMPORT, AND EXPORT DATA CONNECTIVITY

APOS Data Gateway consists of:



## LIVE DATA GATEWAY

Live connectivity from SAP Analytics Cloud to Snowflake Data Cloud



## IMPORT DATA GATEWAY

Import and export connectivity supporting the full cycle of SAP Analytics Cloud Planning



## EXPORT DATA GATEWAY

High-volume, secure, data exports to network file shares, FTP, secure FTP, SharePoint, email

APOS Data Gateway provides fast, efficient, and transparent live data access to valuable Snowflake Data Cloud data from SAP Analytics Cloud, providing easy self-service through existing APOS semantic layer views. Users can also conveniently define their own semantic layer views and freehand SQL queries against Snowflake Data Cloud data, all while respecting Snowflake security structure and schema. Special features for Snowflake allow APOS Data Gateway to handle and respect Snowflake roles while minimizing and automating administration and maintaining Single Sign-On (SSO) between Snowflake and SAP Analytics Cloud.

This extended Live, Import and Export data access allows SAP accounts to unlock greater value from their Snowflake Data Cloud data, yielding better and faster business analytics and decisions.

- **Leverage existing Snowflake security**
- **Expand live, import, and export data connectivity**
- **Snowflake Data Cloud data is always current**
- **“Push” Import for SAP Analytics Cloud Planning**
- **Leverage existing Snowflake data modelling**
- **View data consistently using a unified semantic layer**
- **Data stays in Snowflake**



## APOS Live Data Gateway

### Live data connectivity to Snowflake Data Cloud data from SAP Analytics Cloud



#### LEVERAGE EXISTING SNOWFLAKE SECURITY

Control and govern what Snowflake Data Cloud data is exposed through a focused Single Sign On (SSO) integration from SAP Analytics Cloud into Snowflake, creating mapping between SAC IDP SAML users and Snowflake users through OAuth. Snowflake roles are respected, and administration is minimized and automated.



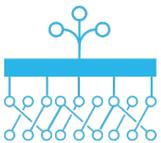
#### DATA STAYS IN SNOWFLAKE

With a live connection to SAP Analytics Cloud, analytics processes work directly with the Snowflake environment, so that replicating data outside of Snowflake is not needed. Snowflake's powerful data processing engine is used to deliver very high-speed processing of live queries, performance tested with over a billion rows of data.



#### SNOWFLAKE DATA CLOUD DATA IS ALWAYS CURRENT

Live data is always current, with no data replication or data latency. Live Data Gateway works with Snowflake's powerful data processing engine to efficiently access and serve large and growing data environment scenarios.



#### UNIFIED SEMANTIC LAYER

Snowflake data is presented in business terms to the business user to enable self-serve and ad hoc consumption of Snowflake Data Cloud data and broad dissemination of information from Snowflake to business users. The Snowflake schema is easily read by the semantic layer to help the users generate business-friendly views of the data.



#### LEVERAGE EXISTING DATA MODELLING

Easily build and share views on your data for agile data modelling. Since Snowflake security structure and schema are maintained, there is no need to rebuild row level security or data structures.

### USE CASE

APOS Live Data Gateway is delivering live data connectivity to Snowflake for customers in various industries and markets. One such deployment is by a large mining company who began running SAP Analytics Cloud (SAC) for connectivity to their SAP S/4HANA deployment. To expand beyond those analytics processes, this company needed live connectivity to their Snowflake Data Cloud data to meet key needs for company executives for financial analytics and monthly operational reports focused on various corporate performance KPIs. The APOS Live Data Gateway was deployed to enable this live data connectivity from SAC to Snowflake, removing the need for data to be replicated outside of Snowflake, and fulfilling these critical analytics needs.



## APOS Import Data Gateway

Import Snowflake data into SAC and extract SAC data to import into Snowflake



### SNOWFLAKE DATA SOURCE FOR SAP PLANNING

Import files directly from Snowflake Data Cloud



### BI-DIRECTIONAL INTEGRATION WITH SAP PLANNING DATA

Extract data out of SAC for Import into Snowflake Data Cloud



### SIMPLIFY DATA CONNECTION

Easy-to-configure and use alternative to the SAP Cloud Connector



### SCHEDULE DATA IMPORTS

Ensure timely imports and appropriate data for SAC Planning and other Analytics applications



### FULL AND DELTA DATA UPLOADS

Strong configuration options to control data load settings and import methods



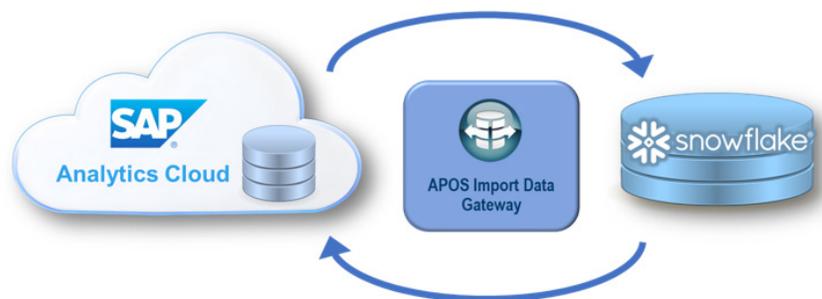
### UNIFY DATA MANAGEMENT

Centrally manage and execute data imports and extracts across many sources

## USE CASE

Import Data Gateway expands, simplifies and unifies your data connectivity for SAP Analytics Cloud users of Snowflake Data Cloud. This middleware platform enables you to enrich SAC Planning with data imported from Snowflake Data Cloud, without the need to use the SAC Cloud Connector. Strategic bidirectional movement of data in and out of SAC Planning to Snowflake.

## Bi-Directional Data Process



Full Cycle Planning Data



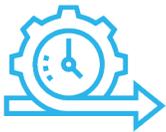
## APOS Export Data Gateway

Schedule your strategic data export to a variety of destinations



### HIGH VOLUME DATA EXPORTS

- CSV format output
- Strong performance



### SCHEDULE RECURRING EXPORTS

- Hourly
- Daily
- Weekly
- Monthly



### AUTOMATED DELIVERY TO:

- Network File shares
- FTP or secure FTP
- SharePoint
- Email



### ON-DEMAND DATA EXPORTS

- Secure
- Self-service

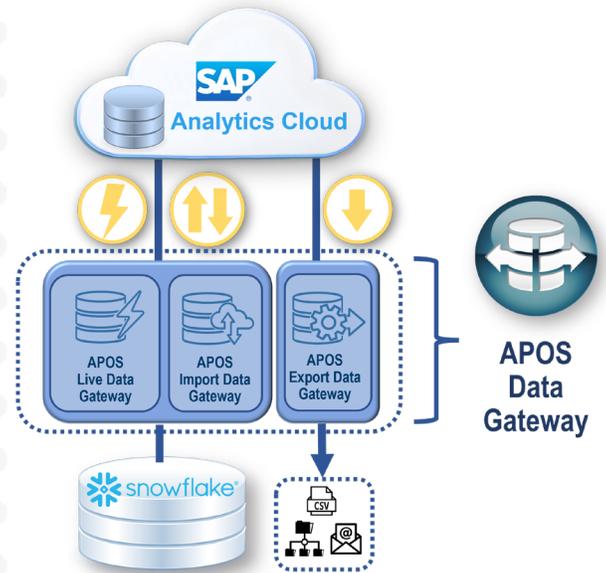
## USE CASE

Export Data Gateway is designed to meet strategic requirements for data extracts from a data source, which are then saved to a static file (CSV) and distributed to a targeted location or user. These capabilities provide effective automation to meet common requirements where a static data file is needed to fuel a separate data process, a regulatory requirement, or other strategic information need.

This means that APOS Export Data Gateway enables scheduled processes to export SAP Analytics Cloud Planning data to a CSV file and send to a strategic user or file location for Import into Snowflake Data Cloud. It also means that APOS Export Data Gateway can export data from an extensive range of relational, OLAP, Hadoop and Cloud sources to CSV files and send to Snowflake Data Cloud for further processing.

APOS Export Data Gateway respects database security: users can only export data that they have rights to access, and a self-service end user interface simplifies the extract process.

## HOW IT WORKS



## SEE IT IN ACTION



Snowflake Data Cloud presents power and scalability, and APOS Live Data Gateway presents the live data connectivity and unified semantic layer organizations need to use large data sets from Snowflake in SAP Analytics Cloud analytics solutions.

Watch [this demonstration](#) to see how easy APOS Live Data Gateway makes connecting to and querying a Snowflake Data Cloud of over **288 billion rows (10.5 TB dataset)**, with results in under 2 seconds.



## APOS Data Gateway

# Specialized Live, Import, and Export data connectivity for SAP Analytics Cloud and Snowflake Data Cloud

Learn more at [apos.com/snowflake](https://apos.com/snowflake)

