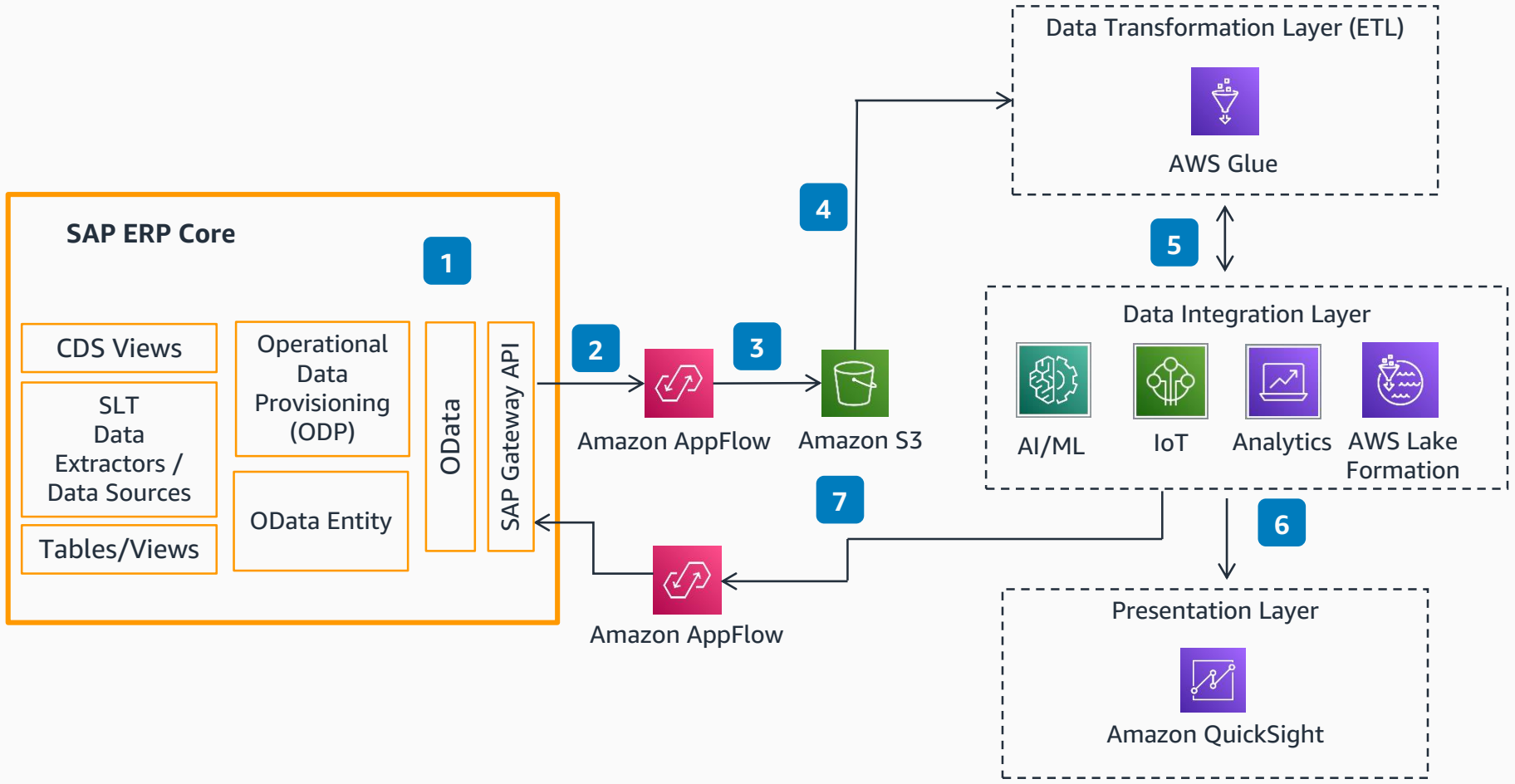
# Guidance for Data Integration & Management to/from SAP on AWS

This reference architecture is for extracting and writing data from SAP Systems to AWS with the Amazon AppFlow SAP OData connector. The Amazon AppFlow SAP OData connector allows data extract through OData entities or using operational data provisioning (ODP) with support from change data capture (CDC) by using operational data queues (ODQ) in SAP.




1. Configure OData service for extraction SAP system (such as, Sales Order). Extract is possible from ODP or OData Data Entities.
2. Create the OData connection from **Amazon AppFlow** to the SAP server. This can be over **AWS PrivateLink** for SAP on AWS. You can connect with AWS using VPN/**AWS Direct Connect**, or over the internet.
3. In **Amazon AppFlow**, create the flow using the OData connection created in step 2 to extract data from SAP and save to an **Amazon Simple Storage Service** (Amazon S3) bucket.
4. Use **AWS Glue** to cleanse and transform the data fields, integrate with other data, then save the transformed data into another **Amazon S3** bucket.
5. Enrich the data with AWS services such as artificial intelligence/machine learning (AI/ML) models, Internet of Things (IoT), analytics, and data lake capabilities.
6. Create dashboards to visualize the business data as required by ML-powered visualizations (for example, forecast or anomaly detection).
7. In **Amazon AppFlow**, create a flow using the OData connection created in step 2 and start to write data from **Amazon S3** to SAP using OData.

*Reviewed for technical accuracy November 02, 2022*



**AWS Reference Architecture**