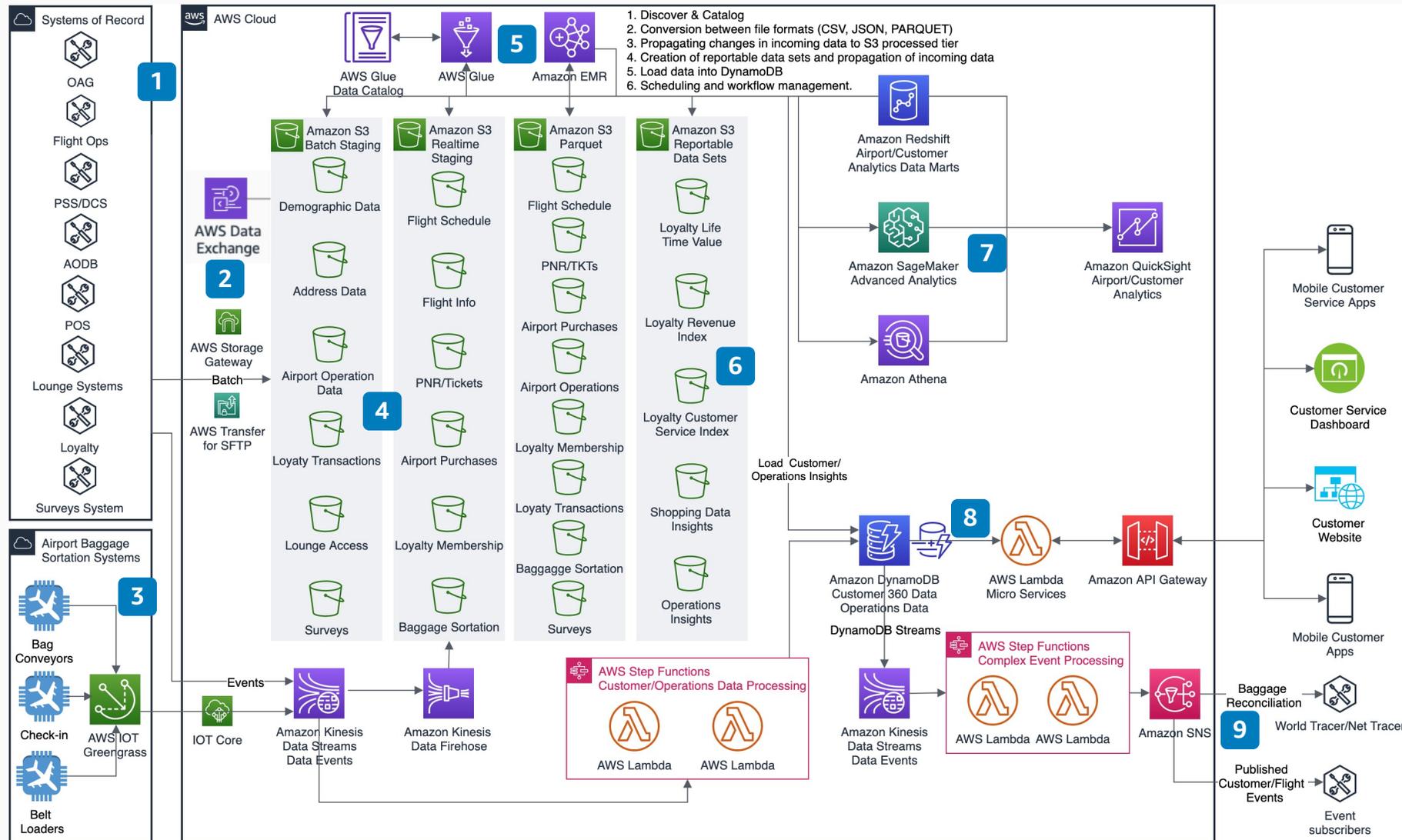


Airport Data Platform for Enhanced Traveler Experience

Build a data platform for airports that can create an enhanced customer experience by collaborating with airlines, vendors, and lounge providers using open data standards, purpose-built databases, and extensible serverless architecture.



- 1 Build a data platform with schedules, real-time flight information, traveler check-ins, loyalty transactions, lounge usage, transactions in the airport, and loyalty.
- 2 Leverage **AWS Data Exchange** to make the data collection from public sources for demographic and address data.
- 3 Optionally, enhance the baggage system with RFID based sortation and tracking. If not, leverage the bar code scanners and baggage sortation events.
- 4 Provide Staging for ingesting all batch and real-time data using cost effective storage classes in **Amazon S3**.
- 5 Use open standards to build the data lake using the same data as the operational data platform. Use a read pattern schema to make the raw data and curated data readily available for all user roles seamlessly.
- 6 Build all reportable data sets in **Amazon S3** and leverage **Amazon Redshift** and **Amazon Athena** for analytics. Optionally, build data marts in **Amazon Redshift** for heavily used analytics. For ad-hoc requirements, publish the data catalog and use **Amazon Athena** for analysis directly using the data lake.
- 7 Use **Amazon SageMaker** to provide standard AI/ML models for operational analytics. Customers can also use **Amazon SageMaker** to build their own models on top of the data.
- 8 Use purpose-built databases like **Amazon DynamoDB** and serverless architecture to deliver microservices and events for operational data store. Build a real-time operational dashboards and customer applications leveraging these microservices.
- 9 Publish flight and customer events to customers and down stream systems for baggage reconciliation and ground transportation.



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