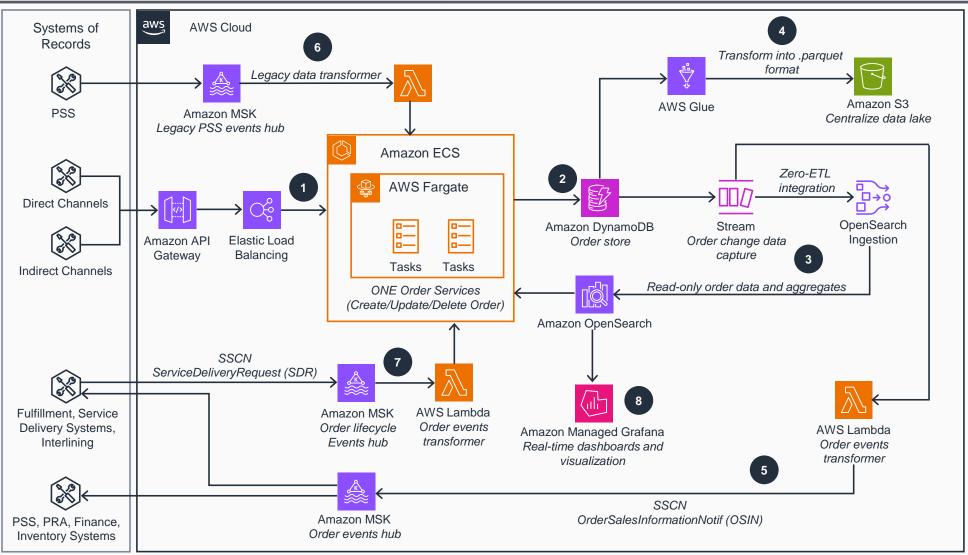
Guidance for Building Airline Order Management Systems on AWS IATA ONE Order-compliant

This architecture diagram shows how airlines can implement an IATA ONE Order-compliant solution on AWS, leveraging cloud-native services to unify customer data, streamline order management, and enhance operational efficiency.



- Deploy the order services as containers on Amazon Elastic Container Service (Amazon ECS) using AWS Fargate, and expose the endpoints using Amazon API Gateway with traffic routed through Elastic Load Balancing (ELB).
- Emit order lifecycle events (create/update) to Amazon DynamoDB for persistent storage.
- Capture order changes in real time using DynamoDB Streams and ingest them into Amazon OpenSearch Service using zero-extract, transform, load (ETL) integration for search and aggregation.
- Export order data from DynamoDB to Amazon Simple Storage Service (Amazon S3) using AWS Glue for reporting and historical analysis.
- Transform order events with AWS Lambda and stream them to passenger service system (PSS), passenger revenue accounting (PRA), finance, fulfillment, and delivery using Amazon Managed Streaming for Apache Kafka (Amazon MSK).
- Process and transform the PSS messages, such as passenger name record (PNR), electronic ticket (ETKT), electronic miscellaneous document (EMD), or departure control system (DCS) changes, with Lambda. Update the **DynamoDB** order store.
- Ingest ServiceStatusChangeNotif (SSCN) and ServiceDeliveryNotif (SDN) messages from fulfillment and delivery companies using Amazon MSK. Process them with Lambda, and update the order store.
- Visualize real-time order data with dashboards and metrics using Amazon Managed Grafana.

