Global Eagle & Snowflake

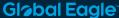
June 8th, 2017





Agenda

- 1. Introduction
- 2. About Global Eagle
- 3. The Problem
- 4. The Solution: Snowflake
- 5. Conclusions



1. Introduction

Andrew Rae

Director, Information Technology Special Projects, Operations Solutions Global Eagle

Background:

Amazon.com, MaxJet Airways, Sybase 365, SAP Systems and Data Engineering Productions Operations

2. About Global Eagle

Leading Provider of Global satellite-based communications and entertainment media content to mobility markets.







GLOBAL CROSS-ENTERPRISE DATA ANALYTICS & INTELLIGENT INSIGHTS

1,500+ employees

50+offices on 6 continents

49

satellites

300+

Customers

31

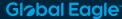
teleports

Gløbal Eagle

masFlight Analytics & Intelligence (AI) Platform for Personalizing Passenger Experiences & Improving Airline Operations

Our business is data!

We are always looking for better ways to improve our data quality and processes.



Global Eagle Analytics by the numbers

Movies, Music, Magazines, Passenger Preferences, Flight Data, Airport Gates, Weather, etc.

30M+

Flights available every year for data analysis

20K+

Aircraft tracking information available in the platform

2009

Comprehensive global operations data stored in masFlight platform since 2009

1,000

Real-time data processed per second on our Big Data Analytics Platform 500TB+

Terabytes of Operational data available in the platform

10PB

Terabytes of Entertainment Media data processed & distributed globally

900 +

Connected aircraft globally

400+

Ships with Global Eagle Entertainment Distributed 1.2 Billion

Global passengers experiencing Global Eagle products & services

Analytics Platform & Data customers





















































Also ...

Website In-Flight Entertainment listings UX & GUI Onboard Portals IFE delivery iPad iOS IFE listings App Smartphone iOS / Android IFE listings App



Enterprise Airline Applications



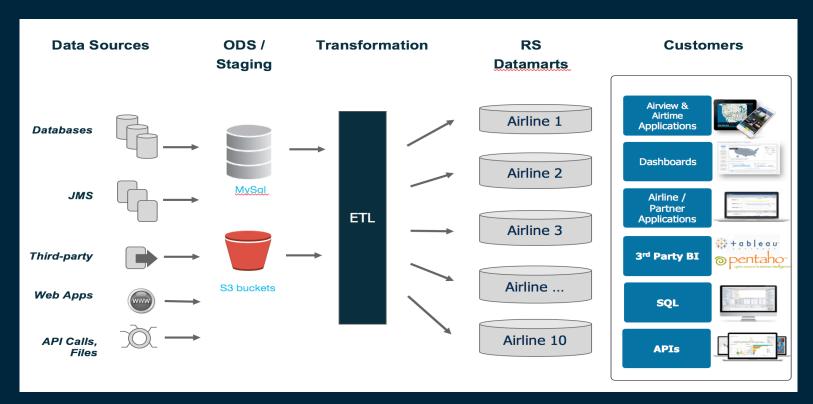






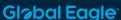


3. The Problem



3. The Problem

- Multiple airlines using the same data sets -> One dedicated RS cluster per airline
 - (avoid negative impact and for data privacy)
- Multiple data load processes (Duplication)
- Data potentially out-of-sync
- Problems with redundancy (starting around 10-12 concurrent users)
- Daily VACUUM
- Painful upgrade process (Up to 72 hrs in some cases)
- Out-of-Space Risk (80% is the maximum recommended).



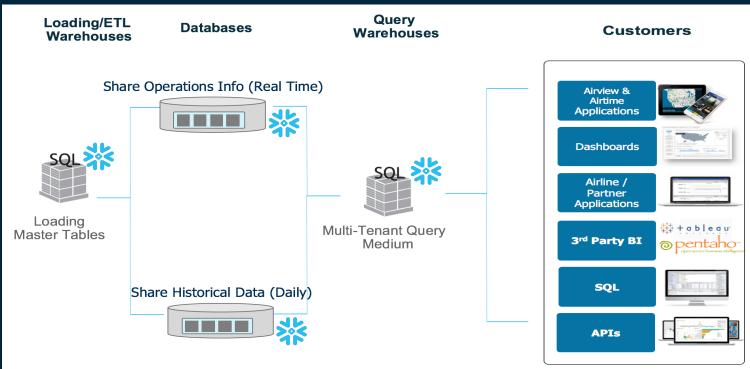


The only data warehouse built for the cloud



4. The Solution



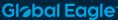


4. The Solution

- Multi-tenant environment
- Only one Load process
- No problems with redundancy
- Separated Extract (Data Ingest) and Querying (Customers)
- Easy scalable
- More OLAP functions

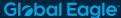
5. Conclusions

- Snowflake helped us to resolve the Struggle with Data Loading, Data Integration and Data Analytics
- Queries are faster and customers appreciate the difference
- Scalability and Redundancy are critical for our business
- Unlimited data storage: A great peace of mind!
- One single process to extract and transform the data
- And much more!



Thank you

Andrew Rae Director, Information Technology



Backup Slides

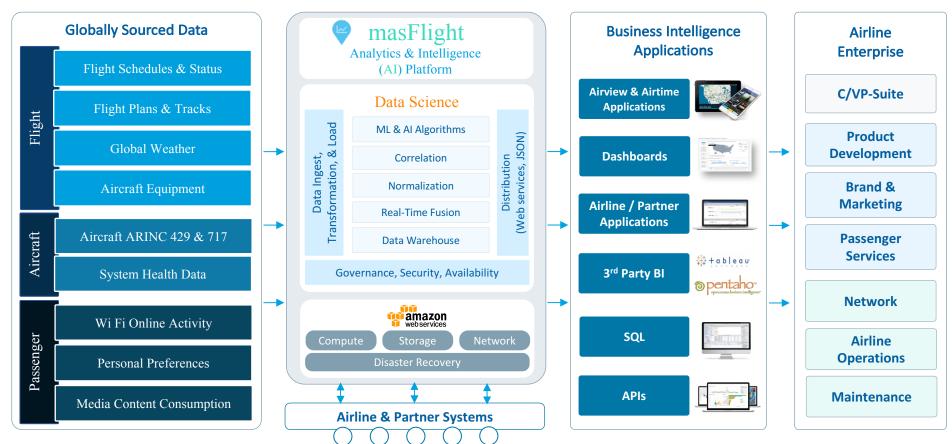


masFlight AI Platform

... Enabling Enterprise-wide business intelligence & analytics to transform passenger experience and improve flight operations



Global Eagle's masFlight Analytics & Intelligence (AI) Platform



Benefits of ONE Global Data Management Platform & Warehouse for Airline Operations & Passenger Analytics

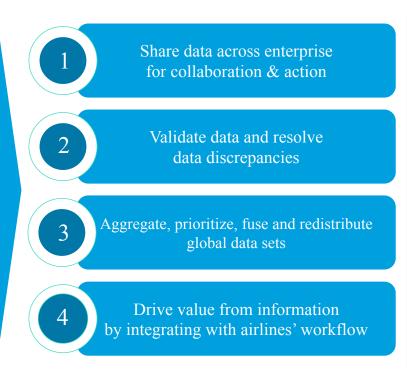


Analytics & Intelligence Platform



AWS Cloud Computing Infrastructure

- Managed Data Warehouse
- High Performance on Cloud
- Multi-source Structured / Unstructured Data Fusion
- Normalization & Storage







Enterprise Business Intelligence