

Smart Airlines Baggage Management and improving Customer Experience

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Agenda

- Baggage Handling Processes and Costs
- ² Data Consolidation
- ³ IOT, Streaming and Smart Tracking
- 4 Maximizing Customer Satisfaction



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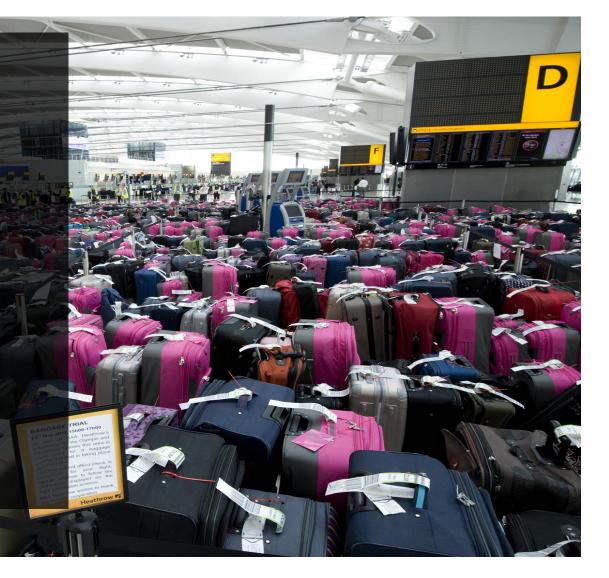
Chicago Airport Lines this summer, up to 3 hours wait time, to board a domestic flight!

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million

Checked bags. Mishandled (delayed, damaged, or lost) In 2015 * Source SITA



Costs to Airlines

Break-down of the mishandled bags

NORMAL HANDLING cost / bag = \$10	NORMAL OPERATING cost / passenger = \$185	6.1% П 14.8% 79.1%
DELAYED BAG cost / bag = \$100	LOST BAG cost / bag = up to \$3300	 Lost/Stolen bags Damaged/Pilfered bags Delayed bags Source: SITA

In addition erosion of Customer Satisfaction due to mishandled bags

Baggage Related Satisfaction

- Among the two-thirds of passengers who check baggage for their flight, 52% indicate they had to wait 15 minutes or longer to receive their baggage, among whom satisfaction is 711, compared with 751 among those who experience a shorter wait time.
- Satisfaction among passengers who pay for checked baggage has improved steadily during the past five years to 700 in 2015 from 637 in 2011.
- The above data implies that other expanded services can be sold to passengers around baggage, provided it reduces/eliminates wait and has lower delays/damages to the bags.

http://www.jdpower.com/sites/default/files/2015057%20NA%20Airline_%20(FINAL).pdf



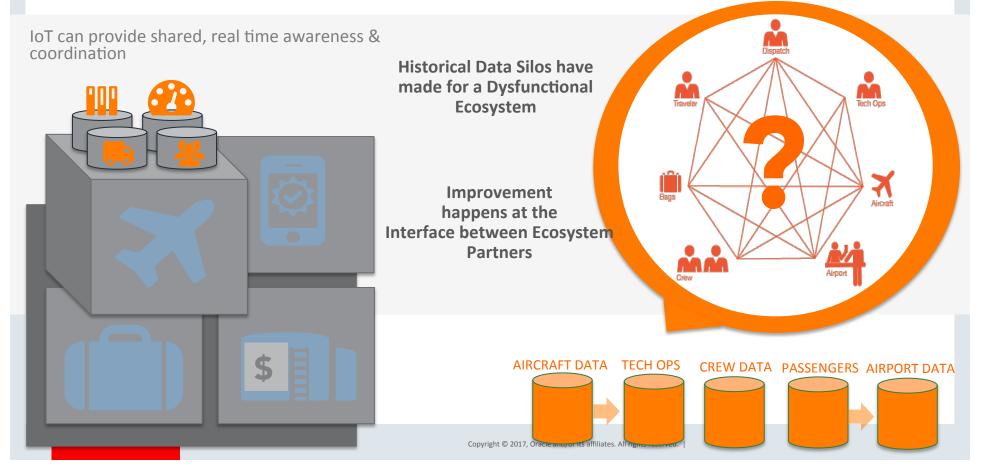
How Airline Baggage Handling Systems Work

- A baggage-handling system has three main jobs:
 - Move bags from the **check-in** area to the departure gate
 - Move bags from one gate to another during transfers
 - Move bags from the **arrival gate** to the baggage-claim area
- The measure of a successful baggage-handling system is simple: Can the bags move from point to point as fast as the travelers can?
- If the bags move slower, you'll have frustrated travelers waiting for bags, or bags failing to make connecting flights on time.
- If the bags move too fast, you might have bags making connecting flights that passengers miss (is that important?)

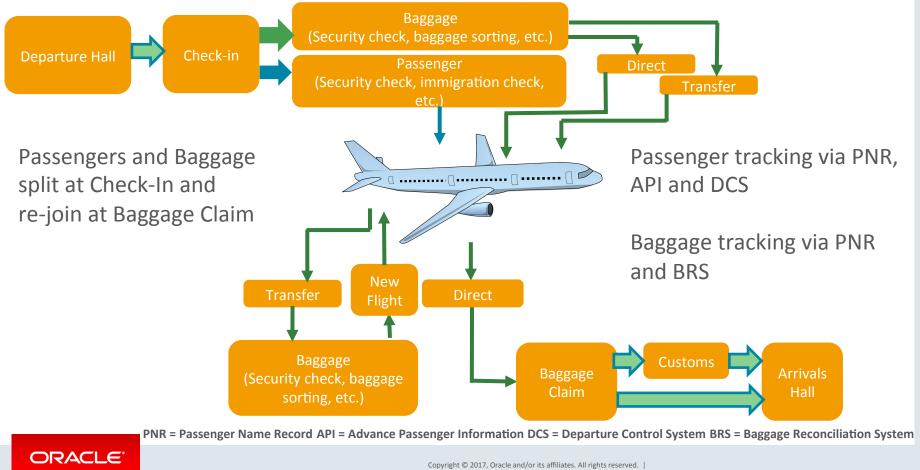
http://science.howstuffworks.com/transport/flight/modern/baggage-handling.htm



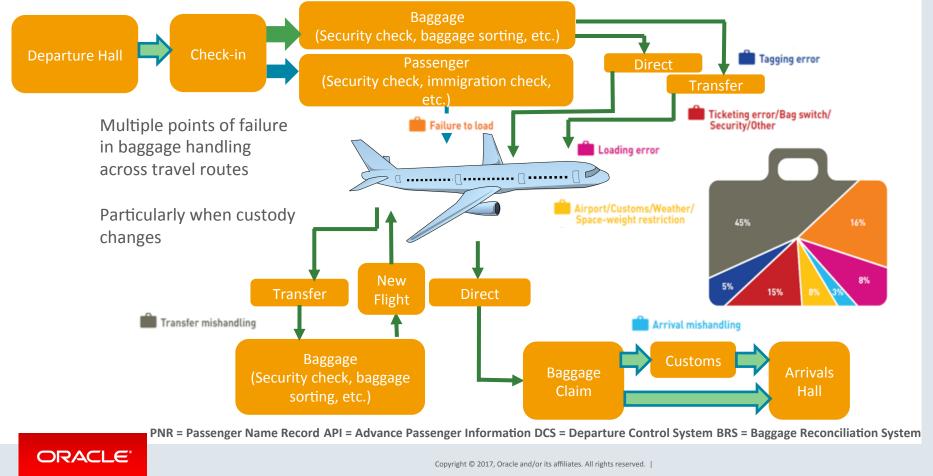
Transparency is #1 Aviation Impediment Data Silos, Situational Awareness, Interoperability



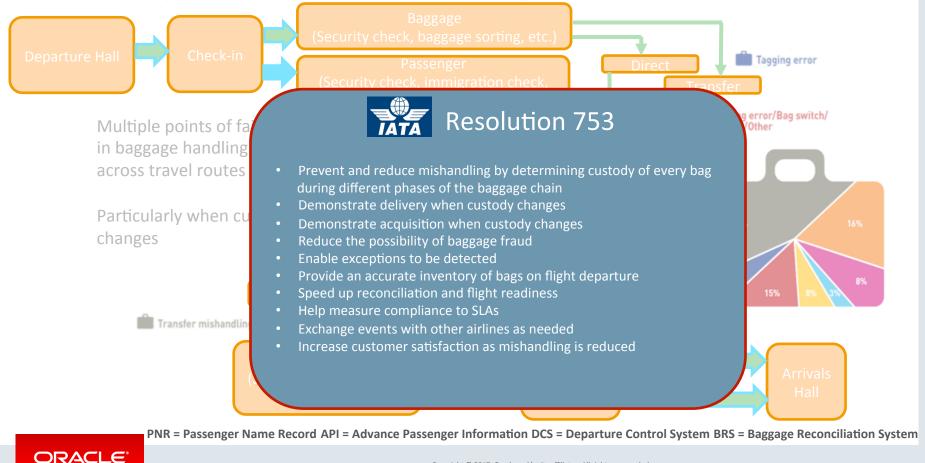
Baggage Flow and Mis-handling



Baggage Flow and Mis-handling



Baggage Flow and Mis-handling



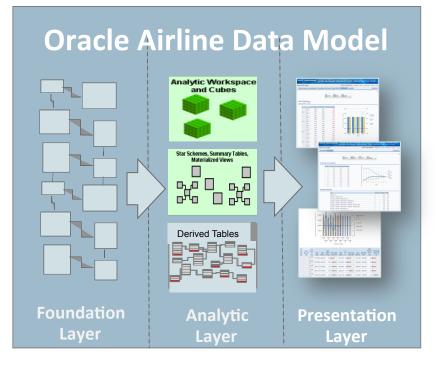
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Oracle Airline Data Model

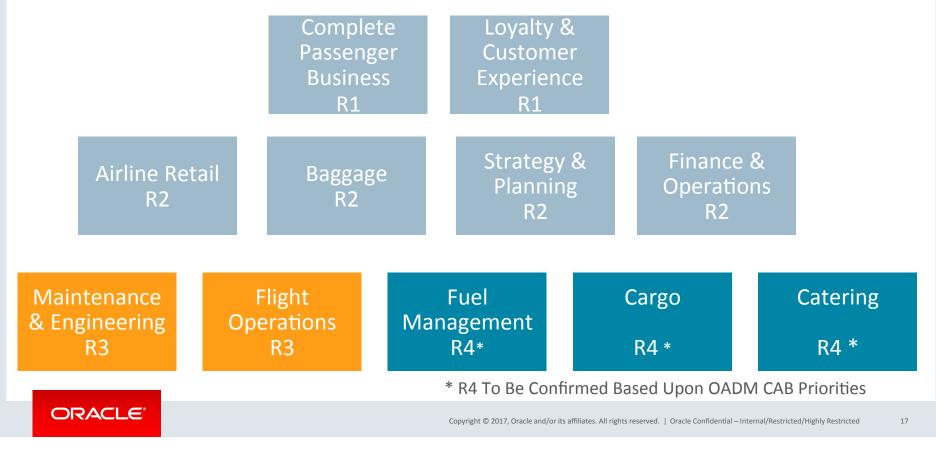


- Industry-standard compliant based Enterprise-wide Data Model
- Contains Logical and Physical Data Models Third Normal Atomic, Dimensional Schema
- Industry specific Airlines Measures and KPI
- Automatic Data Movement Among Layers
- Extensive business intelligence metadata
- Easily extensible and customizable
- Usable within any GDS, CRS/DCS Applications
- Central repository for atomic level data
- Pre-built Analytic Models and Reports
- Cloud enabled for DBCS

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The Oracle Airline Data Model

Product Roadmap – by line of business



Pre-Built Mining Models

- Customer Segmentation Analysis

 FFP
 - $-\mathsf{Non}\mathsf{-}\mathsf{FFP}$
- Customer Loyalty Analysis
- Customer Life Time Value Analysis
- Frequent Flyer Passenger Prediction

Overview	Revenue An	alytics Bo	oking Analytics	Passsenger	Mining V	Event Passeng	er Prediction									
Non-FFP (Customer P	rediction S	WM Factor													
				SVM Factor by Attribute Name												
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	LFT_VAL		>15000	5.75	4	6			FT VAL			_				
Non-FFP (Customer P	rediction D	T Rules						0.0	1.5	3.0 4	5 6.0	7.	5	9.0	
Non-FFP (DT Rule ID	Target Measure Name	Target Measure Value	Non-FFP Custon	ner Profile			Customer Count	Prediction Count	0.0	1.5 :	3.0 4.	5 6.0	7.	5	9.0	
DT Rule ID	Target Measure Name	Target Measure	Non-FFP Custon	<= .5			Count 2,034	Count 1,067		1.5 :	3.0 4	5 6.0	7.	5	9.0	
DT Rule ID	Target Measure Name 1 1 2 1	Target Measure	Non-FFP Custon MD_GRP_BKGS MO_GRP_BKGS	<= .5 <= .5 AND TO		<= 1485.035	Count 2,034 1,576	Count 1,067 908		1.5 :	3.0 4	5 6.0	1 7.	5	9.0	
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DT Rule ID	Target Measure Name 1 1 2 1	Target Measure	Non-FFP Custon MD_GRP_BKGS MO_GRP_BKGS	<= .5 <= .5 AND TO <= .5 AND TO		<= 1485.035	Count 2,034 1,576	Count 1,067 908 299		1.5	3.0 4	5 6.0	7.	5	9.0	
DT Rule ID	Target Measure Name 1 1 2 1 3 0	Target Measure	Non-FFP Custon MO_GRP_BKGS MO_GRP_BKGS MO_GRP_BKGS	<= .5 <= .5 AND TO <= .5 AND TO > .5 Pare datss IVS Average a Frequency Check-in T	e Descriptio , Y,B,H,K,M advanced bool y. Total numbi Type, Web, KI	 = 1485.035 > 1485.035 # etc king days er of bookings i IOSK, Airport Co 	Count 2,034 1,576 458 252 with "Confirme counteretc	Count 1,067 908 299	by a Non-freq				7.	5	9.0	

Customer Travel Doc Number	Customer SVM Prediction	Customer SVM Prediction Probability	Customer DT Prediction	Flag
00150444	0	0.82	1	01
012345678	0	1.00	1	01
017373329	1	0.82	0	10
02YK37247	1	0.82	0	10
038543178	0	0.82	0	00
038621441	1	0.82	1	11
040533435	1	0.82	1	11
050326571	1	0.82	1	11
050411618	1	0.82	1	11
060135436	1	0.82	0	10
060654399	0	0.82	1	01
06AB56180	1	0.82	1	11
070504826	1	0.82	0	10
070857346	1	0.82	1	11
072021835	0	1.00	1	01
077213661	1	0.82	1	11
07CI10041	1	0.82	0	10
093244540	1	0.82	1	11
094191140	0	0.82	1	01
094285203	1	0.82	0	10
094463411	1	0.82	1	11
096749753	0	0.82	1	01
099023990	0	0.82	1	01
099035982	1	0.82	1	11
099080275	0	0.82	0	00
099082730	1	0.82	1	11
099127975	1	0.82	1	11
099152822	1	0.82	0	10
099193810	1	0.82	1	11
09AT65894	1	0.82	1	11
09PC18174	1	0.82	1	11
101396025	1	0.82	1	11



Non Frequent Flyer Customer Mining

Customer Loyalty Analysis

- Identifies factors that may have more influence on customer loyalty to airlines
- Leveraging Support Vector Machine(SVM) algorithm and Decision Tree (DT)
- The output from the model is twofold:
 - The discovered rules provide correlation between the customer loyalty to Airlines and Customer attributes.
 - The prediction can be made on current base customer's data for the next month/quarter/year using the model built on historical data.



Customer Life Time Value Analysis

- Identify/predict the customers who are likely to represent the highest value of revenue over their life time
- Regression model used to find out relationship between customer information and their potential value
- Model can be used to predict future revenue for any new or existing customer over next 1-5 years (# years can be adjusted in the model)
- Leverages Generalized Linear Model (GLM) and SVM algorithm



Frequent Flyer Passenger Prediction

- Identify/predict the Non-FFP(Non Frequent Flyer Passenger) customers who are likely to become a FFP
- Classification algorithms, Support Vector Machines (SVM) and Decision Tree (DT) are used in this model
- The training data would be mix of Non-FFP passengers and FFP passengers. FFP passengers are those who became FFP from Non-FFP in the last 1 year time period.



Customer Segmentation Analysis

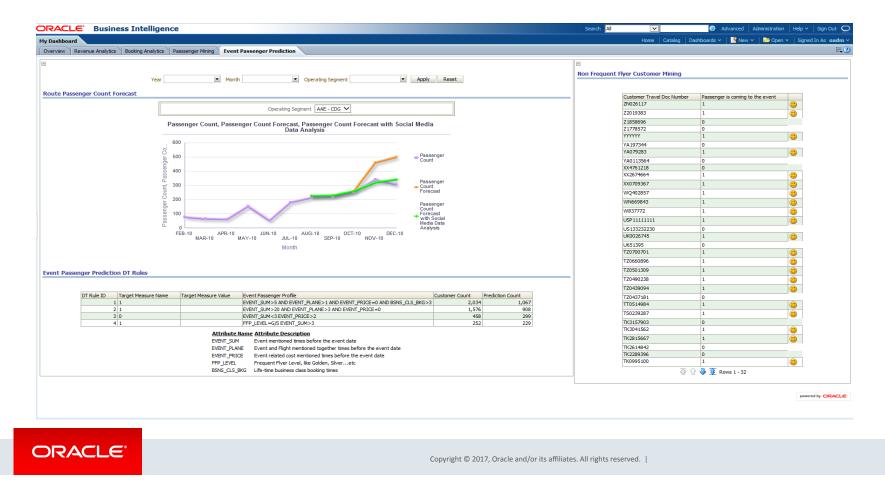
- Groups customers based on customer demographics, flown history, booking patterns, profitability, etc.
- Business analysts can further look into each identified segment to better understand each customer group
- Clustering rules draw profile of the customers; show most important similar characteristics of each group.
- Leverages K-means clustering algorithm



Sample Reports - Passenger Booking Revenue Report Sample



Sample Reports - Passenger Volume Event Base Prediction

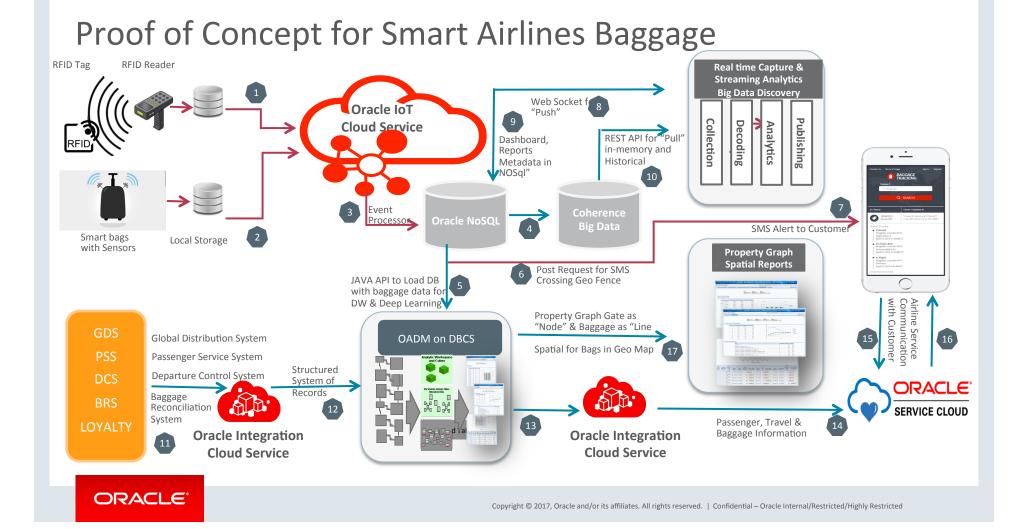


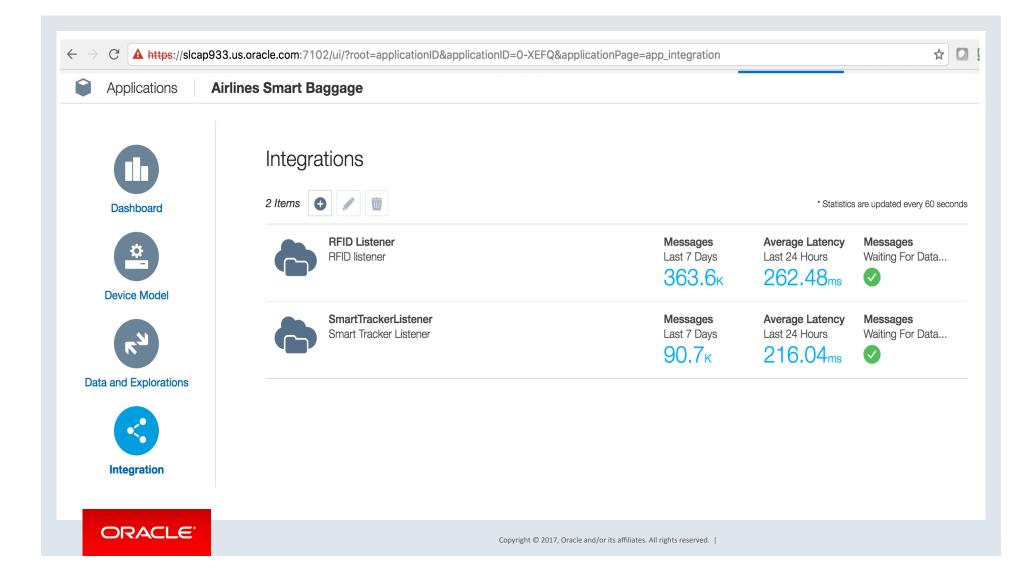
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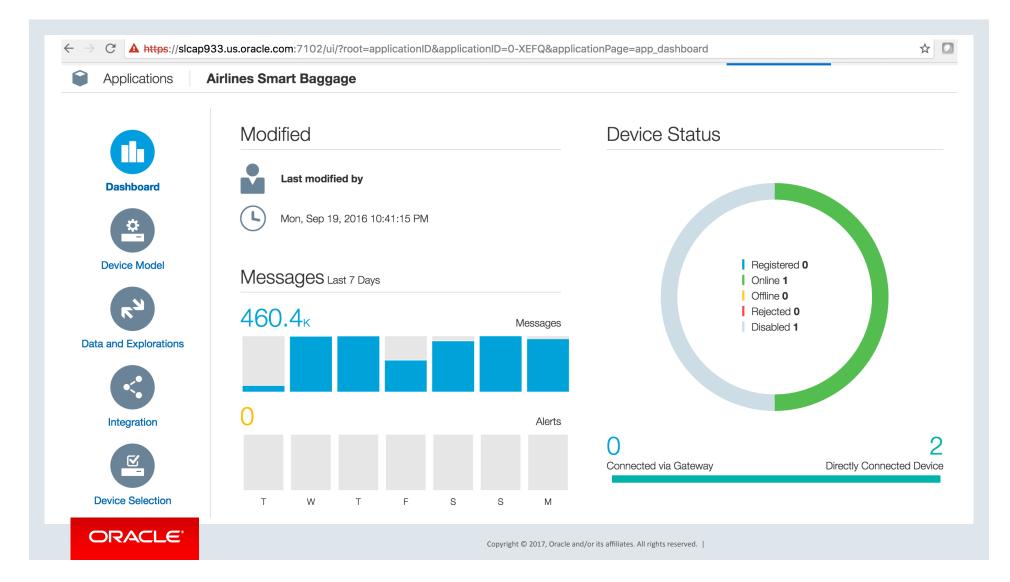
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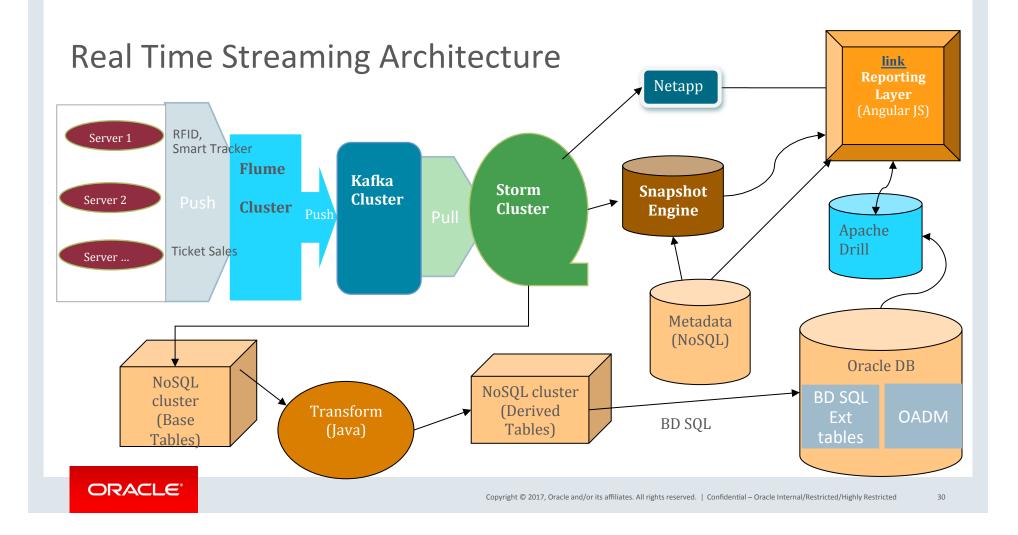


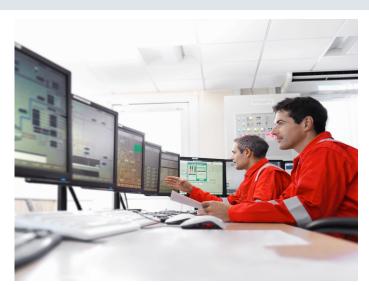




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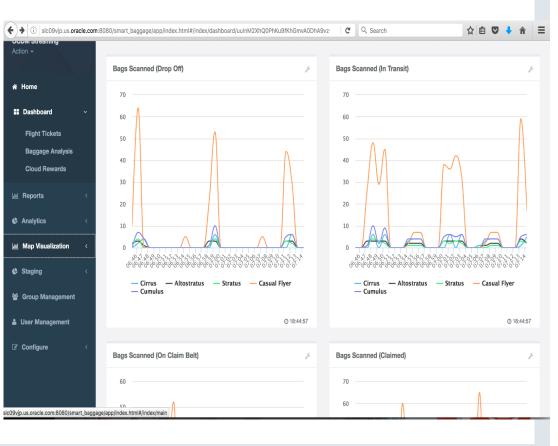
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Device Selection	2	0-UIHQ	urn:com:oracle:iot:device:rfidSimulat	status = drop_off	Low	From Device	Mon, Sep 19, 2016 10:40:0
	3	0-UIHQ	urn:com:oracle:iot:device:rfidSimulat	status = drop_off	Low	From Device	Mon, Sep 19, 2016 10:40:0
	4	0-UIHQ	urn:com:oracle:iot:device:rfidSimulat	status = drop_off	Low	From Device	Mon, Sep 19, 2016 10:40:0
	5	0-UIHQ	urn:com:oracle:iot:device:rfidSimulat	status = drop_off	Low	From Device	Mon. Sep 19. 2016 10:40:0





Airline logistics monitor and analyze the flow of bags with real-time streaming analytics

Misrouted or stuck baggage can trigger alerts, and support incidents

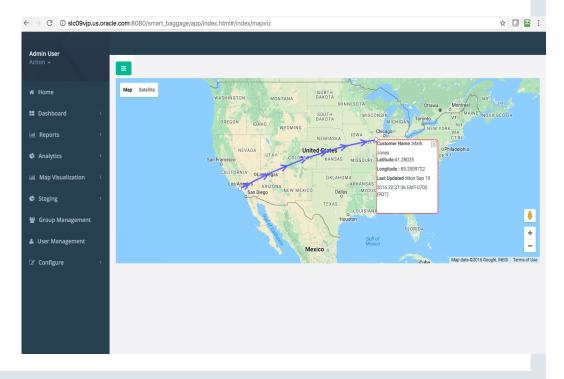


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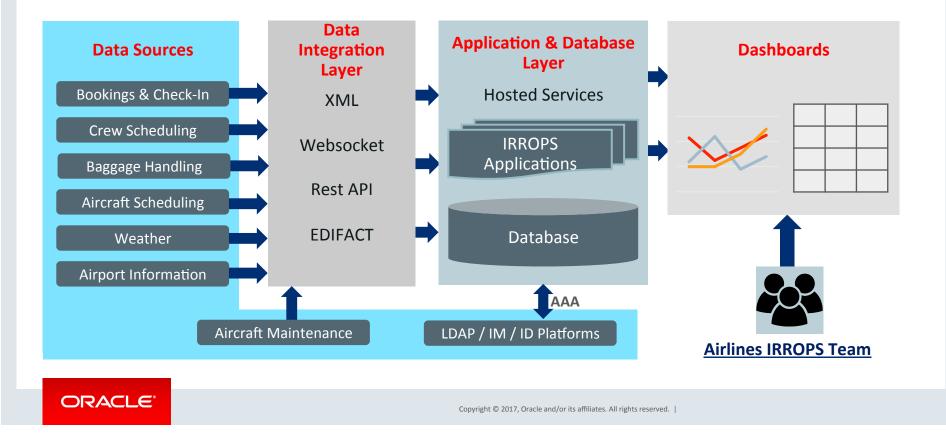
Logistics can also follow the golf bag thru the airport, and across the country*, using real-time maps generated from the tracker's GPS data and Oracle Spatial technologies.

*FAA requires that Smart Tracking devices to be deactivated while onboard the aircraft



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eBIW Solution Architecture



IRROPS Dashboard Sample

Single view for Flight, Crew and Seat (Capacity, Check-In, Boarded)

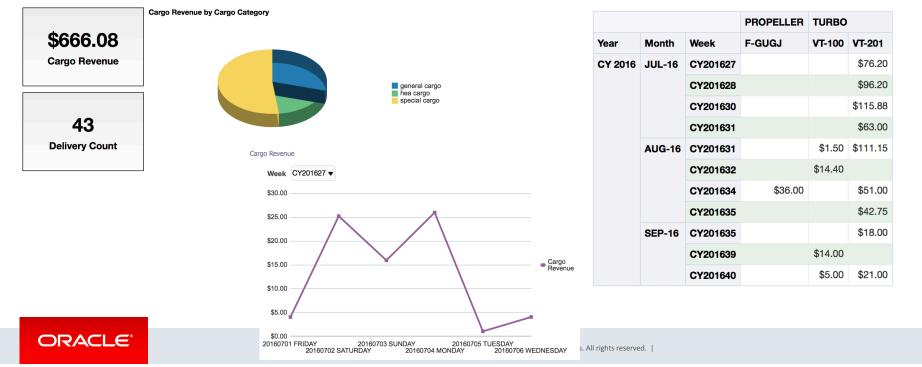
Can be configured to show desired data points, in customized report formats

				Seat	Availabilit	v			
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		co-pilo	ots	Reena R	оу	DMK			
		air hos	ts/hostesses	Vijay Var	adwaj	DMK			
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Cargo Reports

Single view for all Cargo related data.

Drill-down to Month-wise, Week-wise performance.

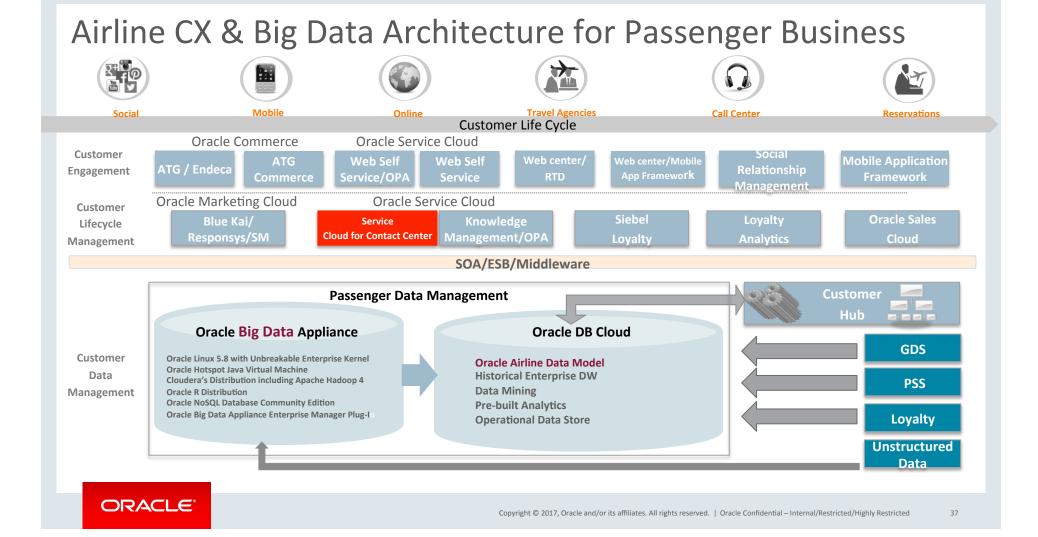


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Mark Purchases his trip...

Mark is heading to play golf near Miami, he's planning to use his Smart Tracker to make sure he knows where his golf clubs are at all times during the trip





Mark is ready for his trip!



Mark packs his bags

He includes the Smart Tracker he received from the airlines Loyalty Program in his golf bag. His other bag will use the RFID tracking





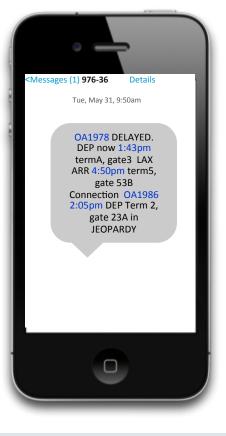
Delayed Travel Notification – CX Save



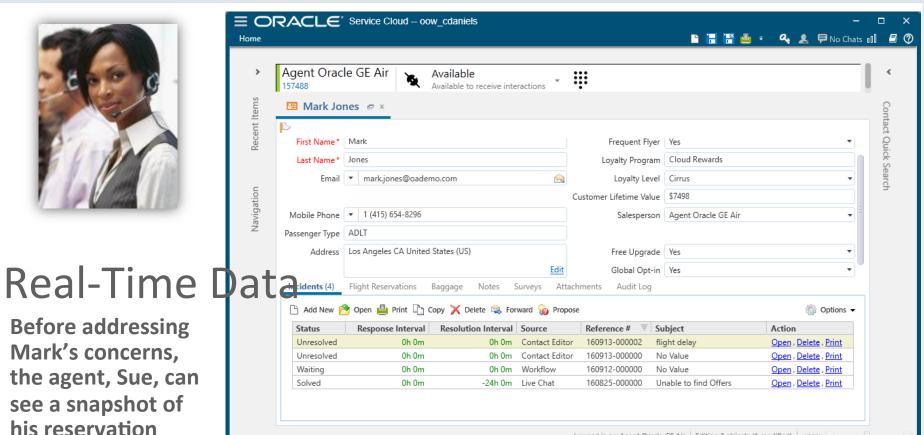


Delayed Travel...

Mark checked in for the flight but as he arrives at the LAX, he receives an alert that the flight is delayed. He's worried about making his connecting flight in Chicago and contacts a service agent







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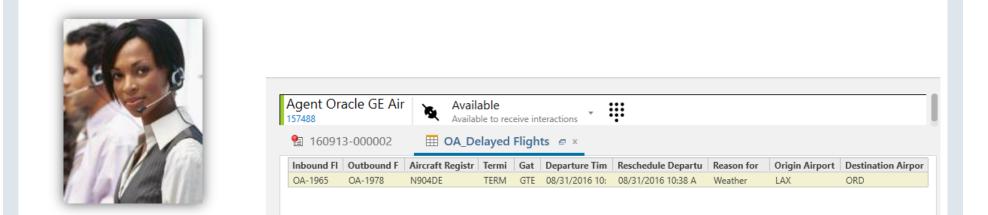


Real-Time D

Sue could also see Mark's flight history, which was used to calculate his Customer Lifetime Value

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	Mark	Jones	ADLT	Yes	Cirrus	TCQ12KX	OA-9148	TVL	LAX	Р	08/14/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	CXP09YD	OA-9147	LAX	TVL	Р	08/10/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	WDX16SL	OA-4355	OCE	LAX	Р	08/04/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	PWE03VK	OA-4354	LAX	OCE	Н	08/02/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	XZD28NQ	OA-7341	ISP	LAX	Р	07/30/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	RPL06GK	OA-7342	LAX	ISP	Р	07/27/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	ZOR11FN	OA-5291	SGF	LAX	Р	07/25/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	CFQ9HU	OA-5290	LAX	SGF	Р	07/23/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	PLK29HD	OA-2895	ECP	LAX	Н	07/21/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	QSD34TY	OA-2894	LAX	ECP	Р	07/18/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	SFT8NP	OA-8797	SCF	LAX	Р	07/15/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	LRF15OR	OA-8796	LAX	SCF	Р	07/11/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	KZM7XB	OA-6535	AGA	LAX	Р	07/06/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	IAD24SV	OA-6534	LAX	AGS	Н	07/02/2016 0
	Mark	Jones	ADLT	Yes	Cirrus	GCB12UT	OA-1876	CHS	LAX	Р	06/27/2016 0
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Real-Time Data

Sue can also get real-time updates around customer concerns, such as flight delays

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Real-Time D

Sue also sees there are 15 other passengers with the same connection

Recent Items	Agen 157488	t Orac	le GE Air		vailable	eive inter	actions	- 1				
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	Janni	Pelk	485	ORD	MIA	OA-1	ADLT	Cloud	Altost	485	Q	08/31/2
	Mark	Jone	1230	ORD	MIA	OA-1	ADLT	Cloud	Cirrus	1230	U	08/31/2
	Noo	Vayr	821	ORD	MIA	OA-1	ADLT	Cloud	Cirrus	821	Т	08/31/2
	Pepp	Heik	823	ORD	MIA	OA-1	CHD	Cloud	Cirrus	823	Х	08/31/2
	lan	Stro	6738	ORD	MIA	OA-1	ADLT	Cloud	Cumu	6738	Y	08/31/2
	Lupe	Gonz	484	ORD	MIA	OA-1	ADLT	Cloud	Cumu	484	Х	08/31/2
	Rafa	Mak	703	ORD	MIA	OA-1	ADLT	Cloud	Cumu	703	Y	08/31/2
	Rui	Kokk	546	ORD	MIA	OA-1	ADLT	Cloud	Cumu	546	С	08/31/2
Navigation	Carla	Kaya	1044	ORD	MIA	OA-1	ADLT	No Val	No Va	1044	М	08/31/2
	Edvin	Snar	858	ORD	MIA	OA-1	ADLT	No Val	No Va	858	L	08/31/2
4 Notifications	Shar	Kaya	2070	ORD	MIA	OA-1	INF	No Val	No Va	2070	A	08/31/2
I OA_Delayed Flight	Sudi	Kaya	2181	ORD	MIA	OA-1	CHD	No Val	No Va	2181	Р	08/31/2
III OA Passenger Flig	Jinhe	Li	6739	ORD	MIA	OA-1	ADLT	Cloud	Stratu	6739	T	08/31/2
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OA_Delayed Flight												
III OA_Passenger Itin												
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🔠 OA_Baggage Track												

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Real-Time Data

She sends a shuttle to take Mark and the other passengers to their gate



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Mark Makes it to Chicago!

Despite the delay, Mark lands in his connection city 15 minutes prior to final boarding for his flight





Mark Makes the Connection!

He receives an alert that his golf clubs have arrived in Chicago, but are not in the Miami-bound geo-

f<u>enced</u> transit area





Agent (157488	Oracle (GE Air	Available Available to re	ceive interactio	ons -				
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E 100	010 000	002	III OK_Delayed	riigints		iggage nac	king 🖻 🔺		
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	First Na		_ ,			55 5	5	Baggage St Misdirected	Baggage Scanne 08/31/2016 01:40

Instant resolution

Sue also receives an alert about the misdirected bag, and sends





Instant resolution

Sue contacts ground control and is able to route the bag correctly









Agent (157488	Oracle (GE Air	Available Available to rec	eive interactio	ons 👻				
160 😢	913-000	002	⊞ OA_Delayed	Flights	🖽 OA_Ba	iggage Trac	king 🖻 ×		
Contac	First Na	Last Na	Passenger Check-in	Baggage	Baggage Tag	Baggage W	Baggage Weight Un	Baggage St	Baggage Scanne
2086	Mark	Jones	1230	0HMA9BL	SM_TRCK	60 lb	lb	Misdirected	08/31/2016 01:40
2086	Mark	Jones	1230	JG8NNNY	RFID	60 lb	lb	In Transit	08/31/2016 01:41
2086	Mark	Jones	1230	JG8NNNY	RFID	60 lb	lb	In Transist	08/31/2016 01:45
2086	Mark	Jones	1230	0HMA9BL	SM TRCK	60 lb	lb	On Track	08/31/2016 01:50

Instant resolution

Sue receives confirmation the bag is back on track to Miami





Mark is relieved!

Mark is happy to know exactly where is golf clubs are, and where he can pick them up



ORACLE



Customer Satisfaction

Sue sends Mark some discounts for participating partners

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	Starbucks	Dallas, Chicago, Houston, San Francisco, Seattle	DFW, ORD, IAH, SFO, SEA

ORACLE

Welcome to Miam!



Advocacy!

Mark Posts his excitement at making it to the Miami.



ORACLE



customer satisfaction

customer effort

Mark is now an Advocate for Oracle Air!

We reduced Mark's customer effort and simultaneously increased his satisfaction, moving him from merely a fan, to a customer advocate.



