The Airline Baggage Tracking Challenge

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How many of you...
Flew here?
Checked a bag?
Had no issue?
Mission and aims of IATA

REPRESENT, LEAD and SERVE the airline industry

► Promote safe and secure air services
► Provide means of collaboration
► Cooperate with ICAO and relevant organizations
Baggage Industry figures
Baggage industry figures

4.08 billion scheduled passengers in 2017

5.57 Mishandled bags per 1000 passengers in 2017

70.5% Drop in rate of mishandled bags since 2007
Baggage industry figures

99.5%

In the right place at the right time!
Why do we want to track bags?
Why track bags?

Reduce global baggage mishandling

99.5% bags 😊
0.5% 😞 = 22.7 million bags
2.3 billion $US

Increase efficiency in baggage operations

4.08 billion 2017 pax
7.8 billion 2036 pax

Better passenger experience
The Baggage Journey

Mandatory tracking points by June 2018

CHECK-IN  SECURITY  SORT  LOAD

Information sharing:
Airlines should share tracking information with interline partners as needed.

TRANSFER  SECURITY

ARRIVAL  UNLOAD

A4A RESOLUTION #A4A30.53
IATA RESOLUTION #IATA753
IATA’s Resolution 753 journey

PSC(35) Dublin
October 2013
IATA Resolution 753 voted by all IATA member airlines

PSCRM(34)
June 2014
IATA Resolution 753 published in the PSCRM*

1 June 2018
IATA Resolution 753 becomes effective

* IATA Passenger Services Conference Resolutions Manual
Where does RAIN RFID fit?
Where does RAIN RFID fit?

Member Airlines mandated IATA to meet customer expectations for **real time** tracking of baggage.

One year to develop a global standard for **RAIN RFID inlays in all** baggage tags by 2020.
Where are we now?

- Active sub-working group
  - Updated global standard (RP1740c)
  - Developing an implementation guide

- IATA End to End Baggage
  - Creating an industry global development plan on **HOW** to implement RAIN RFID efficiently
Usage of RAIN RFID

- Unique identity (TID)
- ID transmitted in the .M of the BSM/BPM
- Can identify bags in a point or in an area
- Read rate 99.5%
- Single or permanent use (tag less / EBTs)
Levels of RAIN RFID

**INLAY ONLY**
Inlay in baggage label & pre encoded AFI

**INLAY PLUS ASSOCIATION**
RAIN RFID (TID) associated with 1d barcode (LPN) in the airline systems

**BASIC INLAY ENCODING**
RAIN RFID inlay is encoded with LPN & date & EPC memory

**RICH INLAY ENCODING**
RAIN RFID inlay is encoded with LPN & date & additional information & EPC and user memory
Implementation outline

- Airline buys RAIN RFID enabled labels and issues them
- Ad hoc operational models (airlines and terminals)
- Share baggage tracking information
- Airport installs the infrastructure for new processes (arrivals)
- Run operations
- Usage of information for business intelligence
Track My Bags

Bag# 7006077639

- Delivered to Baggage Claim 1
  7:49 am
- Bag On Plane DL 446 JFK-KEF Jun 14
  8:55 pm
- Bag On Plane DL 1630 DEN-JFK Jun 14
  6:26 am
- Bag Checked-In for DL 1630 DEN-JFK Jun 14 DL 446 JFK-KEF Jun 14
  5:16 am

SEARCH FOR YOUR BAG

Delivered to Baggage Claim 1
7:49 am

Delivered to Baggage Claim 1
7:49 am
Industry collaboration

- Operation models (airlines and terminals)
- Stakeholders
- Usage of information for business intelligence
RAIN RFID is coming to Baggage!
Questions?

Contact us at baggage@iata.org
Thank you

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