

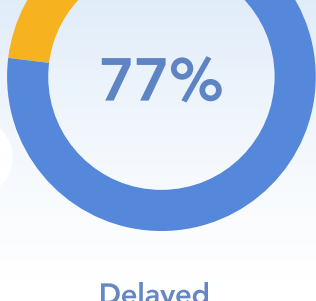
NO MORE LOST BAGGAGE

And say hello to smoother operations, happier passengers

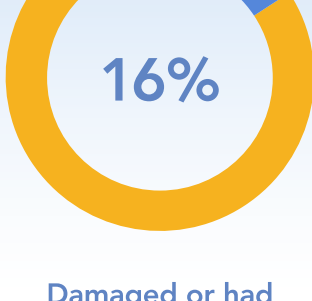
In a move that promises to jump-start investment in the RAIN RFID tagging infrastructure while giving airlines new ways to enhance the passenger experience, the International Air Transport Association (IATA) will mandate that, as of January 2020, all checked bags must bear a tag that contains a RAIN RFID inlay. Every piece of checked luggage will have a unique identity and will be able to report its precise location at any point in its journey.

"It's a big step for airlines," says Andrew Price, the IATA's Head of Global Baggage Operations. "Tracking bags will enable proactive reporting, speed up aircraft readiness for departure, facilitate the automation of baggage processes, and also reduce fraud."

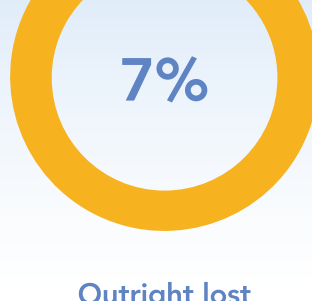
WHAT'S HAPPENING TO MISHANDLED LUGGAGE?



Delayed



Damaged or had items taken out



Outright lost or stolen

Transfers between flights cause nearly half of all bag mishandling episodes



Source: SITA 2017

PAYING THE PRICE

Mishandled bags are a serious pain point for airlines. According to IATA, the air transport industry now spends roughly USD 2 billion a year to correct bag mishandling, and has spent more than USD 27 billion on the issue in the past decade.

BEYOND BARCODES

Barcodes have helped in the past to reduce mishandling rates but they're prone to misreads. As many as one in three barcode reads has some kind of error and needs manual intervention, adding delays and raising labor costs.



RAIN RFID TO THE RESCUE

When bag tags are equipped with RAIN RFID inlays, accuracy goes way up. No line of sight is required, so even large batches of bags, sitting in piles or stored in a container, can be read in an instant – with an accuracy rate near 100%.



RAIN RFID TAG
Battery-free operation and multi-use capability yields a light, flexible tag.



RAIN RFID READER
Even tags that are facing away from the reader or blocked by other bags get read.



RAIN RFID DASHBOARD
Real-time data is easy to read and accessible to all stakeholders, even passengers.

HAPPIER AIRLINES

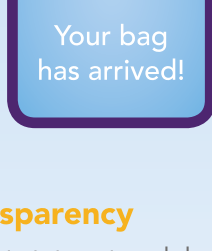
True process improvement, with significant savings of up to \$3bn with RFID in the next 7 years.



Source: SITA 2017



Efficiency
Up to nearly 100% read rate/accuracy. Can read an entire flight's worth of luggage in just seconds.



Transparency
Report status at each key point. Fully compliant with IATA R753.

- Handover to airline
- Load to aircraft
- Deliver to transfer area
- Return to passenger



Security
Embedded algorithms prevent unauthorized access and protect privacy.

INFRASTRUCTURE

As part of the wider airport infrastructure, RAIN RFID increases automation and helps speed aircraft readiness for departure.

- Automated inventory of onboard trolleys
- Real-time inventory checks of onboard safety equipment
- Equipment tracking as part of e-freight initiatives

- Tool tracking for maintenance teams
- Reduced waste in food-service chain
- Secure access for airport personnel
- Streamlined retail in airport concourses



HAPPIER PASSENGERS

Today's tech-savvy flyers appreciate the ways RAIN RFID bag tags can enhance the journey.



Confidence
Real-time updates in mobile apps improve customer satisfaction and confidence.



Loyalty
Multi-use RAIN RFID luggage tags make check-in even faster and easier for frequent flyers.

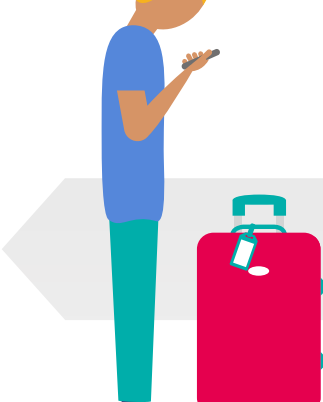


Convenience
Self-service bag drops can automatically read RAIN RFID bag tags and dispatch luggage.

The bag and its tag move through security and wait for loading.



The tag ensures delivery to the right reclaim carousel, and can be verified upon exit.



CONNECT WITH NXP

NXP's industry-leading UCODE RAIN RFID solutions deliver the speed, accuracy, and security required for peak performance in airline applications. NXP is a board member of the RAIN Alliance and a IATA Strategic Partner, and has a global network of support partners who provide local expertise.

UCODE 8 IS A BREED APART

- 20% less power consumption than any other available tag in the market
- High read sensitivity: – 23 dBm, high write sensitivity: – 19 dBm
- Self-adjust feature for robust performance against detuning effects

IT'S TIME TO FIND OUT MORE

To discover about how NXP gives you security by design for all your IoT products, visit nxp.com

