

# The Enduring Demand for RFID in Aviation

Why Chapter 9-5 Thrives Amidst  
Provider Scarcity

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# Agenda

Introduction - How RFID on Planes Started

The Foundation: ATA Spec 2000, Ch.9-5

The Provider Paradox

What's Coming Next

Future Outlook

Q&A

# Introduction – How RFID on Planes Grew

2006 Boeing issues spec for high-memory RFID chip on flyable parts

2009 Tego builds first chip for flyable parts

2009 ATA Spec 2000 Ch.9-5 published

2010 Tego launches first software to implement Ch.9-5

2011 Airbus selects TegoChip for tags on flyable parts

2012 Bell Helicopter Launches Limited Program

2013 Airbus Launches Limited Program / A350XWB

2016 Boeing Launches Limited Program

2016 Airbus Expands Program to all Airbus models

2016 Adoption forecast

- 1.5 Million tagged parts annually
- 5.5 Million by 2025

2019 Boeing Expands to all models



# Standard & Adoption

## **Purpose of Ch. 9-5**

Chapter 9-5 outlines a global standard vital for effectively managing RFID data specifically related to flyable aviation parts.

## **Role in Standardization**

The standardization process plays a crucial role in ensuring data integrity and compliance among critical aircraft parts in the industry.

## **Benefits to Industry**

Implementing RFID standards in aviation significantly enhances safety, boosts operational efficiency, and assures complete traceability.



# RFID Paradox in Aviation

Worldwide adoption of Flyable Parts, Boeing, Bell adopted same standard and the paradox of provider scarcity amidst high demand.

# Provider Scarcity & Challenges



## High Turnover

The aviation sector sees many tag providers exiting, leading to a shortage of reliable sources for flyable parts.

## Barriers to Entry

Finding new providers is tough due to essential industry knowledge and required certifications being highly specialized.

## Implications for Industry

Too many firms depend on developing their own tags, which constrains options and limits innovation in the market.



# Emerging RFID Trends

New end-to-end, smart connected solutions, digital twins with mixed types of automation.

Present examples of deployed systems and their benefits.

# Future Outlook & Opportunities

**The future of RFID in aviation is robust, driven by growing demand and technological advancements.**

**Opportunities for innovation are abundant amid provider scarcity, encouraging organizations to invest.**

**Companies can leverage RFID to improve operational efficiency and reliability in aviation.**

**Collaboration and integration with existing systems will be key to maximizing benefits.**

**Ongoing developments in digital solutions promise to enhance the role of RFID across the sector.**