Over 70 years experience serving the air industry

SITA
AT AIRPORTS

SITA
AT BORDERS

SITA
FOR AIRCRAFT

Community-owned, 100% dedicated to air transport
A cooperative (neutral) organization with over 400 active members

Sherry Stein
Head of Technology Strategy, Americas
SITA
Industry Expectations

Seamless Travel Journey
Safety & Low/No Contact
Security & Experience

Operational Excellence
Economic-Pressures
Sustainability

Connected, Informed, In Control
Automation & Digitization
Mobility & Cloud
A Commitment to Investment Spanning 5+ Years

- 2015
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021+

- SITA and key industry partners launch MRG blockchain alliance
- CHIMP – in collaboration with SITA and Siafra – announced as finalist for the IATA 2019 Ciego Innovation Awards
- SITA invites airlines to join blockchain research project
- Sovrin joins Sovrin Foundation to explore self-sovereign identity in travel
- Tracking of ULDs through blockchain to save industry $400M
SITA Lab Blockchain Research Program Initiated in 2015

The Challenge: Can blockchain technology be used to streamline processes and create a collaborative ecosystem and trust framework?
Aviation Blockchain Sandbox

Invites global participants to use FlightChain foundation to create projects of their own and learn about blockchain technology, using SITA-provided platform and technical expertise.

More than 50 airlines & airports participated in the project.
Global Blockchain Alliance

New SITA initiative to further explore Blockchain

SITA’s Aviation Blockchain Sandbox is evolving into a new collaboration forum called the SITA Global Blockchain Alliance. The new forum comes on the back of the success of the Sandbox and the rapid evolution of blockchain and Smart contract technology.

Its goal is to promote the development of key blockchain-based applications, increase the ‘network effect’ and contribute to and define blockchain standards for the air transport industry.
CHAMP – in collaboration with SITA and Safran – announced as finalist for the IATA 2019 Cargo Innovation Awards

CHAMP Cargosystems is delighted to have been shortlisted alongside SITA and Safran Electronics & Defense for the IATA 2019 Cargo Innovation Awards for their Smart ULD project providing end-to-end visibility. Smart ULD is a unique combination of Mobile technology, IoT and Blockchain to increase the quality of the supply chain in aviation by providing advanced tracking, monitoring and transparency across multiple cargo operations.

The end-to-end solution starts with aero-certified sensors attached to the ULD. These can capture a host of data from geo-localization, temperature, vibration to shock and humidity which is sent via a low power wide area network (LPWAN) to SITA IoT platform. Based on information raised on the IoT platform ULD alerts can be sent out, checklists managed, and task assignments created for tug drivers, for example. An iOS based mobile app lets tug drivers know when ULDs need to be picked up from where and delivery points, flags up if they contain dangerous goods and immediately sends out a warning to supervisors if ULDs have been opened or damaged.
50% of the shipping time is spent on back-office paperwork.

“Air cargo represents only 1% of all global trade in terms of volume but accounts for 35% of the total trade value and the inefficiency is significant. A container traveling from Shanghai to Long Beach could take up to 30 days to finish its journey, but the true travel time on sea or road is only around 15 days, with the remaining time spent on back-office and paperwork. The use of blockchain could revolutionize that process.”

Bob Rogers, Vice President and Treasurer, ULD Care

SITA and trade association ULD Care hope to bring new efficiency to the air cargo industry by exploring the use of blockchain to digitally track and record change of custody of airline cargo containers or Unit Load Devices (ULDs) across their journey.
MRO Blockchain Alliance

MRO Industry
- Processes 25 billion parts per year
- Produces 3 billion new parts per year
- Network of 20,000 suppliers
- Airline spare parts inventory: $50B USD
- Overall market $100B USD year

Blockchain-enabled improvements:
- Could increase revenue by 4%, $40B USD
- Cut MRO costs by 5%, $3.5B USD

Source: Data for the life of the aircraft, published by PWC in April 2019:
SITA joins Sovrin Foundation to explore self-sovereign identity in travel

Monday 16 July 2018 | 12:44 PM CET

SITA has been named a Founding Steward of the Sovrin Foundation, a private-sector, international non-profit whose mission is to enable self-sovereign identity online.

In its role as a Founding Steward, air transport technology provider SITA, will collaborate with the Sovrin Foundation and other Sovrin Stewards to create, operate and maintain the foundation’s decentralized digital identity network.
Use Cases

- Flight Information
- Digital Identity Credentials
- MRO Lifecycle
- Customs Clearance
- Cargo, Smart ULD
- Distribution & Supply Chain
- Baggage Management
- Certification & Licenses
- Redemption & Payments
- Registries & Records
Blockchain Makes Sense

Complex Supply Chain(s) to provide:

- Provenance & Trust of Source
- Chain of Custody
- Tracking & Tracing

Where Timely Access to Data Affects Decision-Making AND When Process & Members Are Ready for Digitization
The Building Blocks

Stakeholder Collaboration

Standards & Recommended Practices

Framework for Trusted Data Exchange

Privacy & Data Protection Principles
Lessons Learned

Governance is key
Garbage in, garbage out
Where’s the killer app?
I need solutions NOW
Thank you!