TegoAir Solutions
Solution Briefs and Use Cases

"Much has been written about the opportunities that the digital airline provides in terms of operational efficiencies and customer experience. The data is available and the potential for value creation is vast."

— Aviation Week, Feb. 2017

Enable Visibility into Processes and Assets | Accelerate and Streamline Workflow
Local, Asset-Level Insight Unlocks Significant Value

Challenges

- Time-intensive processes affect the entire commercial aviation ecosystem - airframe manufacturers, airline crews and MRO personnel all feel the pressure.

- Low visibility into line replaceable and shop replaceable units' lifecycles creates safety concerns and inefficient usage
    - Nearly expired parts continue to slip by final inspection onto brand new planes
    - Parts often get retired before their actual expiration date

- Outsourced maintenance of aircrafts makes it difficult to ensure and enforce the use of authentic parts and components.

- Airlines continue to look for opportunities to increase airframe utilization.

- Documentation of regulatory compliance is time consuming and can pose a risk factor.

The Solution

For Airframe Manufacturers, Tego provides a means toward more reliable, full digital inspection and verification during final assembly and delivery to customers. Receiving operations can identify and route parts automatically without manual intervention.

For Airlines, Tego gives flight and ground crew personnel a walk-through inspection and digital alert regarding the status of safety equipment and other cabin interior parts, to enable faster pre-flight inspections and instant corrective action.

For MRO Organizations, Tego provides a locally stored, digital, lifecycle history on the part itself for every aircraft presenting for maintenance. Digital certificates of authenticity improve oversight and reduce risk of counterfeits in the supply chain.

Tego Connect Mobile in Action

The Solution Benefits for OEMs, Airframer, Airlines and MROs

OEM/Airframer

Benefits
- Reduce final inspection times.
- Establish digital audit trail for regulatory compliance.
- Expose rogue and nearly expired parts before delivery.
- Provide accurate "as delivered" configuration to customer to streamline acceptance.

ROI

$4 Million Configuration Savings Annually
- Without Tego – manual processes to configure a new airplane for delivery
- With Tego – $4 million annual savings for a single aircraft configuration

Airlines

Benefits
- Shorten gate turnaround times.
- Eliminate wasted cost of pre-expiry replacements.
- Increase inspection accuracy.
- Digitize inspection logs for audit preparation.
- Ensure up-to-date equipment condition.
- Digitize process compliance records.

ROI

60x Reduction in Manhours and Process Time
- Without Tego - 5 hours to inspect seats and life vests in final assembly of a single-aisle plane
- With Tego - 5 minutes to inspect the same plane

Over 20% Useful Life Extension
- Without Tego - Oxygen canisters often replaced with months of useful life still remaining
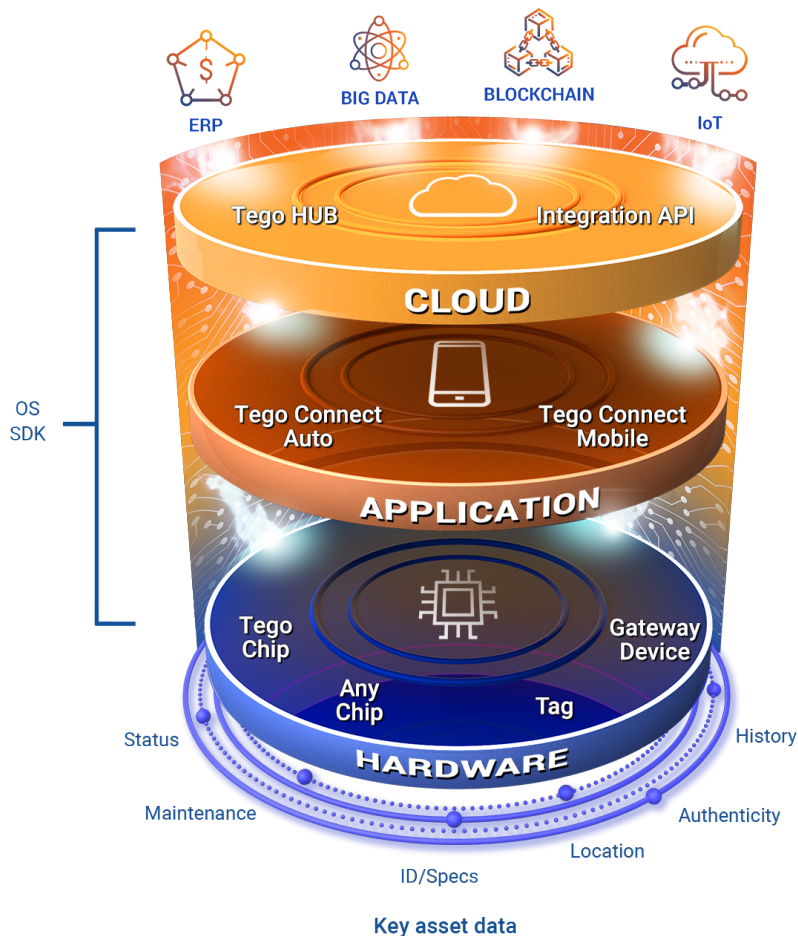- With Tego - Lifecycle extended by 20 percent

MROs

Benefits
- Significantly improve maintenance turnaround times leveraging digital documentation.
- Know precise repair and condition history no matter the asset or the location.
- Guarantee every part's accurate flight hours and ensure each achieves its full lifetime value.
- Digitize process compliance records.
- Update digital information on every part, at every interaction, across the ecosystem during the part's entire lifecycle.
- Enable tighter inventory controls.
- Eliminate paper-based record keeping and data entry errors.
- Digitally certified parts and components provide authentication and remove risk of counterfeits in the supply chain.

ROI

Millions in Savings
- Without Tego – A legacy, inefficient engine maintenance program
- With Tego – Annual maintenance cost savings in excess of $3 Million on 100 engines and 10,000 parts

ERP BIG DATA BLOCKCHAIN IoT

CLOUD
Tego HUB   Integration API

APPLICATION
Tego Connect Auto   Tego Connect Mobile

OS SDK

HARDWARE
Tego Chip   Gateway Device
Any Chip   Tag

Status
Maintenance
ID/Specs
Location
History
Authenticity

Key asset data

Flyable Part Compliance with Tego's Asset Intelligence Platform (AIP)

- Tego's solution is the aerospace standard used by most OEMs, airframe companies, airlines, and MRO shops. It is fully compliant with the ATA Spec 2000, Chapter 9-5
- It enables the capture of data throughout an asset's life cycle - from manufacturing through distribution to use and maintenance
- Open and multi-platform, Tego's mobile device application supports all major mobile and desktop operating systems, including iOS, Android, Windows and OS X
- Tego operates across all RF gateway protocols and handheld readers
- Tego enables distributed data to sync with any cloud-based IoT platform, SAP, ERP, EAM, or BI

Solution Overview

- COTS (Commercial Off The Shelf) ease-of-deployment
- Enterprise Solution, SaaS or on prem deployment
- Platform agnostic - interoperable with all major ERP, EAM, IoT and BI technology stacks
- Smartphone or tablet-ready with Tego Connect, a mobile device application software running on IOS or Android device
- Data security controls (LDAPS and Multi Factor Authentication)
- Configurable alerts and notifications
- Universal acceptance and interoperability via standard RFID protocols
- Unique component location feature picks individual components out of crowded groups

→ **Find out how your organization can eliminate inefficiencies and save significant costs by leveraging a turnkey solution and visibility across the organization.**
Contact Us Today.

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