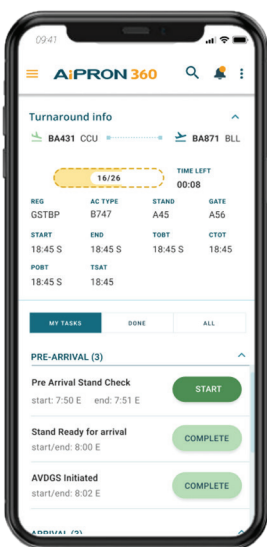# AiPRON 360

360° VISIBILITY
IMPROVES COLLABORATION, SAFETY AND PERFORMANCE

The FAA estimates the annual cost of delay, including direct cost to airlines and passengers, lost demand and indirect costs, to be $33 billion, or about 10% of U.S. aviation industry revenue.[1] According to Ericsson Consulting, operational inefficiency is driving an increase in the total cost per passenger for airports, while industry return on invested capital and airline net profit margin are declining.[2]

Managing the time aircraft are on the ground has never been more important for airports and airlines. Shorter turnaround times help airports accommodate more flights with existing infrastructure avoiding significant capital expense, while airlines gain better utilization of aircraft and improve passenger satisfaction.

ADB SAFEGATE's AiPRON 360 utilizes artificial intelligence (AI) to monitor and manage aircraft turnaround activities from landing to takeoff. This holistic tool offers a true 360° view of the turnaround process, enabling predictability and implementation of the most efficient and safest operating procedures.

HOW DOES AiPRON 360 WORK?

1 Collects data from multiple sources to provide an accurate and real-time view of activities and processes

2 Leverages AI to generate a predicted off block time (POBT)

3 Provides critical information when and where it is needed to proactively address issues and improve on-time performance

4 Reacts to changes in resources and task progress indicators by responding in a timely manner

5 Utilizes machine learning to provide recommendations to improve turnaround planning

ADB SAFEGATE

AiPRON 360°
Reimagining the aircraft turnaround

A successful aircraft turnaround relies on collaboration between stakeholders synchronizing to execute a wide range of tasks in a limited period of time. AiPRON 360 provides real-time visibility of turn-based events with a clear and concise overview of all such activities and their respective progress. The browser-based solution can be accessed from any connected device getting the right information into the hands of the right people, when and where they need it.

Transparency and sharing of real-time operational data leads to a more accurate prediction of Target Off Block Time (TOBT). AiPRON 360 alerts when adherence to the TOBT is at risk and presents users with solutions to avoid delay based on machine learning algorithms. An early view of potential risks allows operators to mitigate or take appropriate action to bring the turnaround back on track ensuring on-time performance targets are met.

KEY FEATURES AND BENEFITS:

Autonomous tracking of turnaround tasks and progress

- Holistic view and precise status of turnaround events available at all times
- Creates timestamps for the start and completion of turn activities and reports milestones in support of A-CDM

Interactive aerial maps with status indicators

- Real-time situational awareness via aerial maps and dynamic data feeds
- Visual aid to help direct operations across the entire airport or a section

Remote monitoring via A-VDGS built-in video camera

- A powerful visual aid to validate situational awareness in real time
- Plan and direct resources remotely to achieve operational excellence

Predictive and prescriptive analytics

- Analyze data holistically to provide better predictability of operations
- Measure and track key performance indicators to tackle uncertainty – e.g., predicted off block time or taxi time

Connected, standardized application programming interface

- Compatible with industry standards including the IATA AIDX flight schema
- Agnostic data source works across technologies and mechanisms

Cloud-based architecture

- Quick, easy deployment in private or public cloud
- Scalable to enable seamless adoption of new tools and processes

Browser based, no device or operating system constraints

- Quick, efficient delivery of content to any connected device
- Manage operations on the go with real-time status updates

AiPRON 360 is part of ADB SAFEGATE's Intelligent AiPRON suite of software solutions bringing digitalization and intelligence to the apron.

AiPRON 360 | AiPRON Resource | AiPRON Manager | AiPRON Connect | AiPRON Finance

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