



# AiPRON CONNECT

## Connecting to share real-time intelligence

The apron and gate areas are populated with systems, equipment and technology owned by various stakeholders and, in many cases, never designed to work in concert with each other. A common problem is when aircraft arrive at their assigned gate and the equipment or personnel aren't ready or capable of receiving and servicing the aircraft. This leads to delays, missed connections, unnecessary fuel burn and increased wait time for passengers and crews.

Connecting these systems to a common communication platform can provide unprecedented visibility into the apron operation, enabling automation and ensuring equipment is prepared and available for incoming aircraft.

ADB SAFEGATE's AiPRON Connect is the information broker for all equipment used to service an aircraft. It integrates ground service equipment (GSE) such as passenger boarding bridges, pre-conditioned air, ground power units, flood lighting and many others to schedule and monitor their usage in real time, while collecting data for operational analysis and aeronautical billing. Through enhanced integration and data sharing capabilities, AiPRON Connect works together with AiPRON Manager to increase safety, efficiency and productivity to shorten turnaround times and reduce operational costs, as well as facilitate billing of used services for flights and to report on overuse.

### HOW AiPRON CONNECT WORKS



- 1 Integrates all GSE used to service aircraft
- 2 Schedules and monitors GSE usage, while collecting data for operational analysis
- 3 Makes data available to other Intelligent AiPRON applications
- 4 Gateway between the stand, GSE and AiPRON Manager; matching real-time gate intelligence with accurate flight information
- 5 Enables automatic calculation of customer charges and dynamic billing (together with AiPRON Finance)

# AiPRON CONNECT

## The connected gate

AiPRON Connect consumes and normalizes data from fixed GSE and sensors, as well as mobile equipment in an IoT set up, making it available to other Intelligent AiPRON applications. Datapoints are used for turnaround management, trending and technical monitoring of all equipment, as well as evaluation of KPIs. When combined with AiPRON Finance, the system enables automatic calculation of customer charges and dynamic billing.

AiPRON Connect is also a gateway between the stand, GSE and AiPRON Manager. Using the Safedock A-VDGS as intelligent sensors at the gate, the system collects and distributes real-time gate intelligence and accurate flight information between airport, airline, ground handler and air traffic control systems. Matching data from the flight information system with real-time gate/stand/GSE status and monitoring capabilities, leads to minimized disturbances, interruptions or incidents at the apron and gate area.



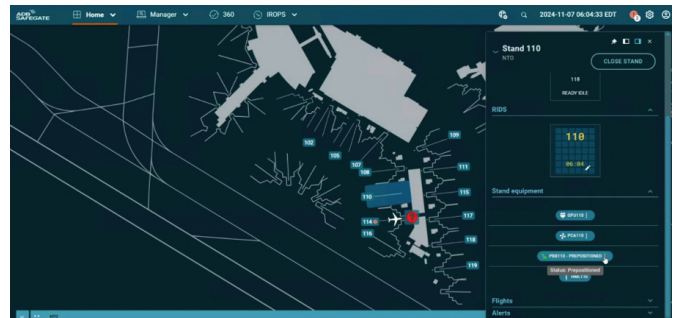
## KEY FEATURES AND BENEFITS:

### Data broker for all ground support equipment

- Utilizes Internet of Things (IoT) concept to connect and collect data from fixed and mobile GSE
- Distributes published data to other Intelligent AiPRON applications
- Real-time status from all stand and ground support equipment
- Tracking of utilization and alarm codes
- Equipment authentication
- Organizes all data in topics based on equipment specific abinterface
- Saves data to database for future use
- Allows for authorized clients to control specific equipment, e.g., apron flood lighting

### Connected and standardized application programming interface

- Compatible with industry standards
- Agnostic data source works across technologies and mechanisms



### Cloud-based architecture

- Deployment in private cloud or on premise
- Scalable to enable seamless adoption of new tools and processes

### No device or transportation layer constraints

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

AiPRON FOD 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 FOD

[www.adbsafegate.com](http://www.adbsafegate.com)

**ADB  
SAFEGATE**