Let your apron operations take off

Safedock A-VDGS

Automation and intelligence for more predictable, faster aircraft turns

ADB SAFEGATE

The apron is where the action is

As more people fly, airports face growing pressure. This is having a deep impact on the apron and gate areas, where multiple activities must be choreographed to turn aircraft around safely and rapidly.

ADB SAFEGATE is applying automation, integration and digital technologies to deliver faster, more predictable aircraft turn-arounds for the smoothest flow of travelers.

The future of apron management moves a step closer

Efficiently guiding a landed aircraft to the apron, into the parking area and docked safely at the correct gate calls for accurate, up-to-date information and tight integration of multiple systems. Only then can teams work together efficiently to achieve on-time departures, no matter what the circumstances or how conditions change.

ADB SAFEGATE brings a holistic, intelligent approach to managing aircraft turnaround activities from landing to takeoff. Our Intelligent AiPRON operational platform integrates all the systems and processes important to apron operations into a single ecosystem that uses automation and the latest digital technologies to unleash the power of data and predictability.

Our Safedock Advanced Visual Docking Guidance Systems (A-VDGS) are a key part of the Intelligent AiPRON, ensuring safe, quick and precise automated aircraft docking every time, even in poor visibility. The A-VDGS also act as intelligent sensors to collect and distribute gate intelligence and accurate flight information to the AiPRON Manager and other Intelligent AiPRON software modules.

Operational data is constantly analyzed and presented to stakeholders in real time – from any connected device – to improve decision making, mitigate irregularities and create recommendations to stay on the critical path to on-time performance.

Safedock X and Safedock FleX are the latest members of the ADB SAFEGATE family of proven and reliable A-VDGS deployed worldwide at hundreds of airports.

Our future-proof X platform is packed with innovation to bring the future of fully automated, tightly integrated and intelligent docking and apron management closer to reality. New surveillance technologies, modern display capabilities, advanced integration and unrivaled reliability combine to deliver faster, safer aircraft turnarounds under any weather condition.

Transforming docking safety and efficiency

Safedock X

Safedock X is a new generation A-VDGS combining cutting-edge display capabilities to improve situational awareness, with state-of-the-art sensors to ensure safe, rapid aircraft docking under all weather conditions.

Safedock FleX

Safedock FleX offers intelligent advancements in A-VDGS technology on a flexible, modular format. Built on the same future-proof platform as Safedock X, customers can customize features to meet their needs.

Safedock X and Safedock FleX offer the latest in A-VDGS technology:

Display more information in more ways

- High resolution full-color display delivers clarity for pilots and ground staff
- Fully flexible content can be tailored for all ramp information display (RIDS) needs
- Turnaround support to help reduce delays
- Multiple display capability - one display for air crew and one for ground crew

Proven technologies on a modern platform

- 3D laser scan technology for safe, precise docking, even in low visibility
- Enhanced integration capacities for real-time gate and apron management
- Improves safety by scanning for apron obstacles
- Passenger boarding bridge interface ensures PBB is in a safe position
- Integrated IP camera logs every docking

Sleek design for low total costs

- Superior reliability and lifecycle costs
- Efficient heat management for long system life, especially in hot climates

Increased integration and approach monitoring for safer operations

- Integrated with A-SMGCS for greater situational awareness and turn predictability
- Acts as A-SMGCS sensor to eliminate black spots near terminal building
- Alerts when a parking aircraft obstructs the taxiway, helping to prevent tail collisions
- Positive aircraft ID reduces risk of docking at the wrong gate
- Monitors the apron and accuracy of aircraft approach to avoid accidents and delays
- Detects pushbacks to alert controller and help prevent unauthorized movements

All weather availability – exclusive to Safedock X:

- Radar sensor technology for safe docking in all weather conditions
- Increases gate availability for higher traffic handling capacity
- Improved/increased climate spec -40C to +60

Spearheading docking technology for four decades

Since installing its first docking system in 1977, ADB SAFEGATE has delivered more than 12,000 Safedock solutions, making it the most widely used and trusted A-VDGS at airports around the world.

Today, Safedock A-VDGS is used at 300 of the world's busiest airports, from Istanbul to Dubai, Bangkok to Atlanta. 18 million times each year, or every two seconds, an aircraft is safely docked with the Safedock system.

With its long heritage in docking technology, ADB SAFEGATE offers proven reliability and vast experience. As a trusted supplier to the world's largest airports and driven by innovation, ADB SAFEGATE is applying increased integration, greater automation and advanced digital technologies to help ensure fast and predictable aircraft turnarounds.

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