

AVOPSIM MANUAL

Boarding Bridge

4 articles · Complete website edition

Includes all article text, tables and available illustrations. Videos and interactive resources are linked. Printed page numbers restart with each article. Use the clickable contents or PDF bookmarks to navigate.

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Passenger Boarding Bridge

Passenger boarding bridge docking practice. Docking, retraction and checks for jetway operators, without an aircraft at the gate.



Program overview

A bridge strike on a door or fuselage grounds the aircraft and starts an investigation. New bridge operators rarely get enough supervised dockings before they work alone, because every one needs an aircraft at the gate. AVOPSIM models the bridge, its console and your aircraft types so operators can dock, retract and repeat without a turnaround in progress. The bridge model, console layout and aircraft types are configured to your gates.

Note

Boarding bridge training is a new program with pilot installations available. Start at one gate and expand.

Program at a glance

Status	New program. Pilot installations available
Equipment	Bridge model and console configured to your gates
Aircraft	Your carriers' types and door variants
Stations	Any tier, from desk station to console mock-up

Program	Scoped per terminal, on top of the AVOPSIM integration
Included	Mission Editor and Examiner Console

In this manual

- **Training exercises:** the mission types instructors can assign, repeat and score.
- **Running a mission:** how a mission is set up, driven and scored.
- **Features and benefits:** what the program adds to your training.

Every program runs on the same **digital twin**, **stations** and **instructor tools**.

Training exercises

Each item is a mission type your instructors can assign, repeat and score. All of them run on your own airfield, and all of them can be built or adapted in the [Mission Editor](#).



Bridge cab at the forward door of a Boeing 737

Mission types

Pre-docking checks

Clearance around the aircraft and console checks.

Cab approach

Initial positioning and approach path to the door.

Height, extension, slew

Console control as on the real bridge.

Final alignment

Stop position and door alignment.

Canopy deployment

Against the aircraft type and door.

Retraction and parking

Post-operation checks.

Aircraft variants

Door heights and positions by type.

Weather and night

Rain, wind and darkness at the gate.

Summary

Exercise	What is practiced
Pre-docking checks	Clearance around the aircraft and console checks.
Cab approach	Initial positioning and approach path to the door.
Height, extension, slew	Console control as on the real bridge.
Final alignment	Stop position and door alignment.
Canopy deployment	Against the aircraft type and door.
Retraction and parking	Post-operation checks.
Aircraft variants	Door heights and positions by type.
Weather and night	Rain, wind and darkness at the gate.

Running a mission

A passenger boarding bridge mission follows the standard AVOPSIM flow: assign, drive, track, score. See [Running a training session](#) for the general session checklist.

1. The instructor selects the gate, the aircraft type and door, and the conditions: day, night, rain or wind.
2. The operator works from a modeled bridge console on a desk station, driving station or a console mock-up in a full cab.
3. Cab position, height, extension and slew are controlled as on the real bridge, with the aircraft door as the target.
4. The mission flags contact, misalignment, missed checks and excessive approach speed, and records the result.

After the mission

Results are recorded in the [Examiner Console](#). Review the violation log with the trainee and use [scenario replay](#) to repeat any situation that went wrong.

Features and benefits

Feature	Benefit
Low frequency, high consequence	Train the task that costs the most when it goes wrong.
No aircraft required	Dockings happen at the station, not during a turnaround.
Measured	Every approach is scored against the same criteria.
Your gates	Bridge type and console layout configured per terminal.
Console mock-up	Tier 3 stations fit a replica console.
Pilot program	Start at one gate and expand.

From the digital twin



Bridge cab at the forward door of a Boeing 737



Gates and boarding bridges at Winnipeg



Gates at night

What comes with every program

- **1:1 digital twin.** Your airfield, signage, lighting and buildings, reproduced from real-world data.
- **Microsoft Flight Simulator 2024 engine.** World, weather and physics maintained by Microsoft and Asobo.

- **Modular and scalable.** Add programs, vehicles and stations as you go, from desk station to full cabin.
- **Turn-key delivery.** Hardware, software, installation, instructor training and one year of support.