



OVERDRIVE INTERACTIVE

AIRBUS A320 · CIDS · FAP

A320 FAP Simulator

Instructor Guide



Version 3.9 · Android tablet · Windows PC

Classroom set-up, license codes, quick reference,
eight ready-to-teach lessons with expected indications, and an assessment checklist.

For academic, familiarization and training purposes only. Not for operational use.

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HOW TO USE THIS GUIDE

Chapters 1 to 4 prepare the class. Chapters 5 to 12 are lessons: the **instructor** creates a situation with the dashed TRAINER controls, the **student** answers with the real FAP keys only, and the **expected indications** (exact messages shown by the simulator) let you check the answer. Chapter 13 is a printable practical assessment. The User Manual explains every key in detail.

About the Simulator

The A320 FAP Simulator reproduces the Flight Attendant Panel of the Airbus A320 Cabin Intercommunication Data System (CIDS) on a tablet or PC, so cabin crew students can practise every page, hard key and drill before they meet the aircraft or a cabin mock-up.

What students learn

- The FAP layout: header, message line, page tabs, hard keys and card slots.
- Normal duties: boarding lighting and music, PRAM announcements, cabin temperature, water and waste, passenger calls.
- Door and slide procedures: arm and cross-check, CABIN READY, what happens when an armed door is opened.
- Abnormal and emergency indications: lavatory smoke, evacuation command, CIDS faults, low cabin pressure.
- CAM pages: cabin programming, layout selection, level adjustment, with the CIDS default access codes.

Colours

Colour	Meaning on the FAP
GREY	Key available, not selected.
GREEN	Selected or active; normal status (e.g. closed + armed).
AMBER	Caution: passenger call, waste tank full, smoke still being monitored, one CIDS director failed.
RED	Alarm, flashing: smoke, slide deployed, evacuation, CIDS 1+2 fault.

TRAINER boxes

Dashed boxes labelled **TRAINER** are not part of the real FAP. They simulate what happens away from the panel: a passenger pressing a call button, smoke in a lavatory, a crew member moving a door arming lever, the flight crew changing a cockpit selector. Tell students on day one: **only the keys outside the dashed boxes are cockpit-and-cabin realistic.**

TEACHING RHYTHM

You (or a student acting as "instructor") use the TRAINER controls; the student on duty reacts with the FAP keys only, and says out loud what they see and do.

How close it is to the aircraft

The separate **Sources & Conformance** report lists every function: 57 match the A320 CIDS FAP, 17 are simplified (mostly airline-configured content such as the announcement list and music channels),

9 are trainer controls, 7 are simulator-only (license, settings) and 12 real functions are not included (maintenance or optional items, see Chapter 15). Every A320 is configured by its airline through the CAM, so always teach with your airline's cabin crew manual.



Classroom Set-up

The simulator runs on Android tablets (landscape) and Windows PCs. Every device needs its own license code (Chapter 3); after activation it works offline.

Recommended equipment

Device	Best use	Notes
Windows PC + projector	Instructor demonstration	Full-screen panel, readable by the whole class.
Android tablet	Student practice	Landscape only. A 10-inch tablet shows the panel close to real size.
Speakers	Chimes, PRAM, alarms	Sound is part of the training: chimes, smoke alert, evacuation tone, announcements.

Installing

- 1 Open opulencecircle82.github.io/OI/fap on the device.
- 2 **Android:** scan the QR code or tap DOWNLOAD APK, allow "Install unknown apps" for the browser, install, open **A320 FAP**.
- 3 **Windows:** DOWNLOAD FOR WINDOWS, open the Setup; if "Windows protected your PC" appears, click More info → Run anyway. No administrator rights needed.
- 4 Enter the license code (internet once), then read and accept the notice that appears at every start.

Starting state (aircraft at the gate)

Every new session starts in the same state, so all students see the same situation:

System	State at start
Doors	L1 open for boarding; all other doors closed. Door slides disarmed ; overwing exits (EMER L1/L2/R1/R2) always armed.
Message line	<i>Please check door/slide status prior departure</i> (flashing).
Evacuation selector	CAPT & PURS.
Smoke, faults, calls	None.

Resetting between students

- **RESET DRILL** (Doors page, TRAINER): doors and slides back to the start, deployed slides repacked.
- **RESET SIMULATOR** (System Info, TRAINER): every system back to factory defaults, after a confirmation.
- **FAP RESET** (hard key): restarts only the FAP screen, like the aircraft; the cabin keeps its state and protected pages lock again.

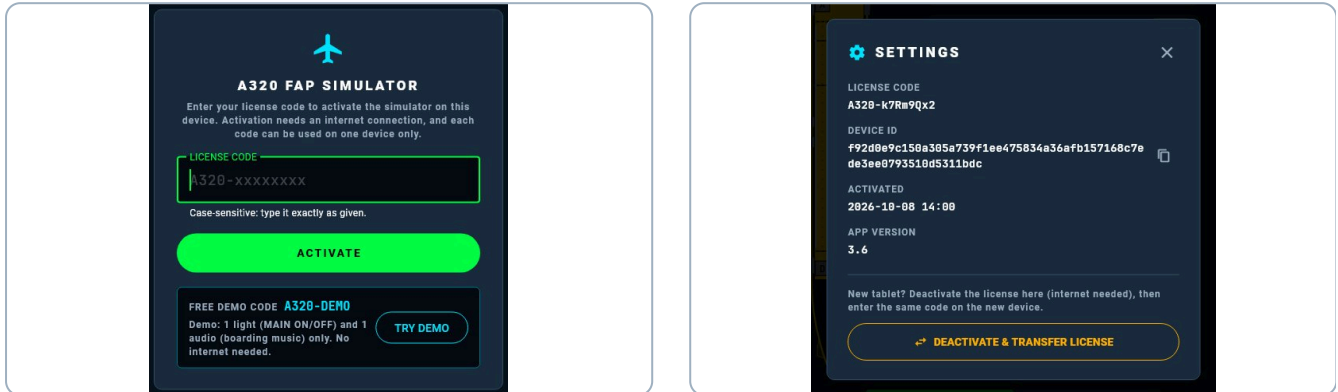
FAP CONFIG

The FAP CONFIG key (title bar) switches °C / °F and has a **MUTE** for all sound. It is a simulator setting, not part of the aircraft FAP.



License Codes & Admin Page

Each device needs a license code such as A320-k7Rm9Qx2. A code works on one device at a time. A320 MCDU Trainer codes (MCDU-...) do not work in the FAP.



Start screen: license code or free demo.

⚙ SETTINGS on the panel frame: code, device ID, Deactivate & Transfer.

Rules students must know

- Codes are **case-sensitive**. Activation needs internet **once**; afterwards the simulator works offline.
- Reinstalling on the same device restores the license automatically (online). A factory reset counts as a new device.
- New device: on the old one tap ⚙ **SETTINGS** (top frame, right) → **Deactivate & Transfer License**, then enter the same code on the new device.
- Demo code A320-DEMO (no internet): only LIGHTS MAIN ON/OFF and boarding music ON/OFF. Other keys ask for a license code.

Admin page

Open opulencecircle82.github.io/0I/admin, sign in, and keep the tab **A320 FAP** selected (codes A320-...).

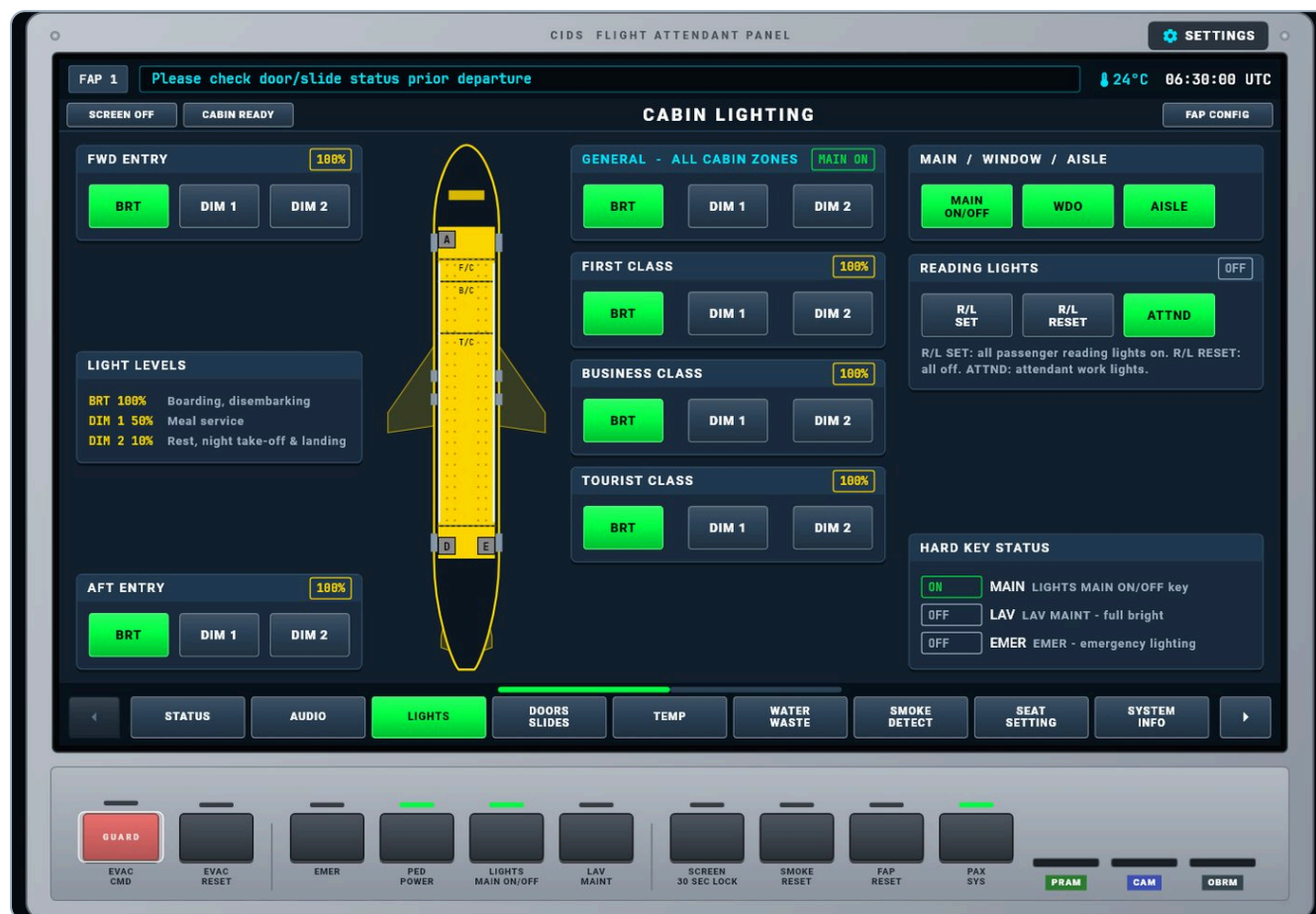
Section	What to do
Unused codes	Always exactly 10. Copy one for each student; a new code appears automatically. Replace only a code shared by mistake.
Used codes	Grouped by 📱 Android and 💻 PC, with date and device.
Release	Student's device broken or lost: frees the code for that student's new device. The old device locks itself when it next goes online.
Transferred	Codes that have moved to another device.

KEEP CODES PRIVATE

Give each code to one student. Never post the list in a group chat.



Quick Reference



Header with message line, title bar, page area, two rows of page tabs, hard keys and card slots.

Pages

Page	Main content
STATUS	One tile per system; tap a tile to open its page.
AUDIO	Boarding music (4 channels, VOL, CHAN), PRAM with DIRECT PLAY and MEMO list, CALL RESET, CHIME INHIBIT.
LIGHTS	BRT 100 % · DIM 1 50 % · DIM 2 10 % per zone or GENERAL; MAIN, WDO, AISLE, R/L SET/RESET, ATTND.
DOORS/SLIDES	8 exits: L1, R1, EMER L1/L2/R1/R2, L2, R2. DOOR and SLIDE status.
TEMP	FWD / AFT zones: cockpit selection 18–30 °C, FAP adjustment ±2.5 °C, actual temperature.
WATER/WASTE	Potable water 200 L, waste 170 L, preselection 25–100 %, lavatories A, D, E.
SMOKE DETECT	Lavatories A (FWD), D (AFT LH), E (AFT RH), SMOKE RESET.

SEAT SETTING	Inhibit call or reading light per seat; CALL INHIBIT, CHIME INHIBIT, PES.
SYSTEM INFO	CIDS directors, PAX SYS, EVAC selector, messages; fault and cockpit TRAINER controls.
Row 2 (CAM)	CABIN PROG, LAYOUT SELECT, LEVEL ADJUST (code 318), SW LOAD (code 813), FAP SET-UP (no code).

Hard keys

Key	Function
EVAC CMD	Guarded: first tap lifts the guard, second press commands the evacuation.
EVAC RESET	Silences the evacuation tone at this station, clears EVAC indications.
EMER	Cabin emergency lighting.
PED POWER · PAX SYS	In-seat power · passenger system power.
LIGHTS MAIN ON/OFF · LAV MAINT	General illumination · lavatory lights full bright.
SCREEN 30 SEC LOCK	Touchscreen locked 30 s for cleaning.
SMOKE RESET	Silences the lavatory smoke alert.
FAP RESET	Restarts the FAP screen only.

PRAM announcements

Code	Announcement	Code	Announcement
010	Welcome aboard	080	Turbulence alert
020	Safety demonstration	090	Doctor on board
030	No smoking	100	Ground delay
040	Electronic devices	110	Descent preparation
050	Prepare for take-off	120	Final approach
060	Fasten seat belts	130	Arrival / disembark
070	Seat belt sign off		

Chimes (TRAINER, Audio page)

HIGH passenger call · **HIGH-LOW** crew call (interphone) · **LOW** seat belt / no smoking signs · **EMER CALL** emergency call from the cockpit (high-low three times).

Panel Familiarization

Duration: 30 minutes. Students learn where everything is before any procedure.

Objectives

- Name the header parts, the page tabs, the hard keys and the card slots.
- Read the CABIN STATUS page and explain the colours.
- Tell real FAP controls from TRAINER controls.

Steps

- 1 Open **STATUS**. Ask the student to read every tile out loud.
- 2 Ask why the DOORS/SLIDES tile is not green.
- 3 Switch between the two rows of page tabs with the arrows at the ends of the tab bar.
- 4 Point to each hard key and ask for its function (Chapter 4).
- 5 Show FAP CONFIG (°C/°F, MUTE) and explain it is a simulator setting.



CABIN STATUS at the start of a session.

Expected answers

Question	Expected
Doors tile	Not all doors secure: L1 is open for boarding and the door slides are disarmed (only the four overwing exits are armed).
Message line	<i>Please check door/slide status prior departure</i> (flashing).

Which pages need a CABIN PROG, LAYOUT SELECT, LEVEL ADJUST (318), SW LOAD (813).
code?



Boarding

Duration: 20 minutes. Prepare the cabin for passengers and welcome them.

Steps (student)

- 1 LIGHTS: GENERAL – ALL CABIN ZONES **BRT**; check MAIN is on; switch on **ATTND**.
- 2 AUDIO: select a music channel, press **ON/OFF**, set a comfortable VOL.
- 3 When boarding is complete: select 010 and press **DIRECT PLAY**.
- 4 After the announcement, stop the boarding music.

Expected indications

Action	What the panel shows
GENERAL BRT	Every zone tag 100 %, the fuselage diagram fully lit.
Music ON	ON/OFF green, note symbol on the selected channel.
DIRECT PLAY 010	ON ANNOUNCE shows 010 Welcome aboard. The music is lowered, not stopped , during the announcement and comes back afterwards.



Extension: different levels per zone; the diagram dims each zone to match.

ASK

Which level would you choose for meal service (DIM 1, 50 %) and for a night take-off (DIM 2, 10 %)?

Doors & Slides

Duration: 40 minutes. The most important lesson for safety: arming, cross-checking, CABIN READY, and the consequence of opening an armed door.

A • Arm slides with a door still open (trap)

- 1 Instructor (Doors TRAINER): **ARM SLIDES X-CHECK** while L1 is still open.
- 2 Student: reads the notice and the Doors page.
- 3 Instructor: AT DOOR L1 **CLOSE**, then ARM SLIDES X-CHECK again.
- 4 Student: cross-checks every exit (CLOSED + ARMED, green) and presses **CABIN READY**.

Moment	Expected indication
Arm with L1 open	<i>NOT ARMED - DOOR OPEN: L1</i> — the other door slides arm, L1 does not.
All closed and armed	Message line <i>ALL DOORS CLOSED - ALL SLIDES ARMED</i> (green).
CABIN READY	<i>CABIN READY SENT TO COCKPIT</i> ; message line adds - <i>CABIN READY</i> ; key green. Press again: <i>CABIN READY CANCELLED</i> .



All doors closed, all slides armed.

B • Armed door opened

- 1 Slides armed. Instructor: AT DOOR R2 **OPEN** (simulates a crew member opening an armed door).
- 2 Student: identifies the alarm, the door, and reports it.
- 3 Instructor: **RESET DRILL**.

Expected indication

SLIDE DEPLOYED AT R2 - DOOR OPENED WHILE ARMED, then the message line *SLIDE DEPLOYED R2* in red; R2 red on the page; DOORS/SLIDES tab red.



R2 opened while armed: slide deployed.

Discussion

- Why are the overwing exits always armed? (Their slides are permanently armed; there is no arming lever.)
- Who disarms after arrival and when? Use **DISARM SLIDES X-CHECK** to practise the arrival call.

Announcements (PRAM)

Duration: 20 minutes. Prepare and play the pre-departure announcements in the correct order.

Steps (student)

- 1** AUDIO: select 020, press to copy it into MEMO. Do the same for 040 and 050.
- 2** Check the order with /: 020 safety demonstration, 040 electronic devices, 050 prepare for take-off.
- 3** Press **PLAY ALL** (or **PLAY NEXT** one by one). **STOP** stops the sequence.
- 4** LIGHTS: **DIM 2** for a night take-off.



Three announcements in the MEMO list.

Expected indications

Action	Expected
PLAY ALL	The MEMO entries play one after the other; ON ANNOUNCE shows the current one; music (if on) is lowered during each.
PLAY NEXT with an empty MEMO	<i>MEMO IS EMPTY</i>

New announcement while
one plays

The new one replaces it: two announcements never play together.

CHIME INHIBIT on

CHIME INHIBITED - PRESS CHIME INHIB TO RESTORE

020 SAFETY DEMONSTRATION

Includes the life vest briefing: over the head, fasten the straps, do not inflate inside the aircraft, pull the red tabs, blow into the mouthpieces if needed, light and whistle.



Lavatory Smoke

Duration: 25 minutes. Recognise the smoke alert, silence it, act, and understand when the indication clears.

Steps

- 1 Instructor (Smoke TRAINER): **SMOKE** on LAV D.
- 2 Student: the SMOKE DETECTION page opens by itself. Press **SMOKE RESET** (page or hard key).
- 3 Student describes the crew actions: go to the lavatory, feel the door, locate the source, fight a fire with the nearest extinguisher, inform the cockpit, keep the door closed and monitor.
- 4 Instructor: **EXTINGUISH**.

Moment	Expected indication
Smoke detected	Page opens automatically; aural alert; message line <i>SMOKE LAV D</i> in red, flashing; SMOKE DETECT tab flashing red.
After SMOKE RESET	Aural alert silenced, but the smoke stays displayed while the detector still senses it (tab amber).
After EXTINGUISH	The CIDS clears all smoke indications by itself.
SMOKE RESET with no smoke	<i>NO ACTIVE SMOKE ALERT</i>



Smoke in LAV D.



After SMOKE RESET: silenced, still shown.

COMMON MISCONCEPTION

SMOKE RESET does not "clear" the smoke. It only silences the alert. The indication disappears when no more smoke is detected.

Evacuation

Duration: 30 minutes. The guarded EVAC CMD key, the cockpit CAPT / CAPT & PURS selector, and an evacuation commanded from the cockpit.

A • EVAC CMD from the cabin (selector CAPT & PURS)

- 1 Student presses **EVAC CMD** without lifting the guard.
- 2 Student lifts the guard (first tap) and presses EVAC CMD.
- 3 Student presses **EVAC RESET** to silence the tone at this station.

Moment	Expected indication
Guard closed	<i>LIFT THE EVAC CMD GUARD FIRST</i>
EVAC CMD	Evacuation tone; title bar <i>EVAC – PRESS EVAC RESET TO SILENCE</i> flashing red; EVAC tile red.
EVAC RESET	Tone silenced, EVAC indications cleared. Pressed with nothing active: <i>NO EVAC COMMAND ACTIVE</i> .



Evacuation command active.

B • Selector in CAPT

- 1 Instructor (System Info TRAINER): set the selector to **CAPT**.
- 2 Student: lifts the guard and presses EVAC CMD.

Expected: *SELECTOR IN CAPT: COCKPIT HORN ONLY (3 S) - NO CABIN EVAC*. Discuss why the airline may require the captain to command the evacuation.

C • Evacuation commanded from the cockpit

Instructor: **COCKPIT EVAC CMD**. **Expected:** *EVAC COMMANDED FROM THE COCKPIT*, evacuation tone and red indications. Student: EVAC RESET at this station, then states the evacuation commands of the airline procedure.



Cabin Service Systems

Duration: 40 minutes. Passenger calls and seat settings, cabin temperature, water and waste.

A • Passenger calls

- 1 Instructor (Seat TRAINER): **PASSENGER PRESSES CALL** two or three times.
- 2 Student: reads the seats, "answers" them, then presses **CALL RESET**.
- 3 Student: inhibits the call button of a "broken" seat on SEAT SETTINGS (row + letter, INHIBIT).

Expected: high chime; message line *PAX CALL 9E / 14C ...* (random seats); SEAT SETTING tab amber; seats listed under CALL RESET on the Audio page. After CALL RESET the calls are cleared. With CALL INHIBIT on: *PASSENGER CALLS INHIBITED*.



SEAT SETTINGS.

B • Cabin temperature

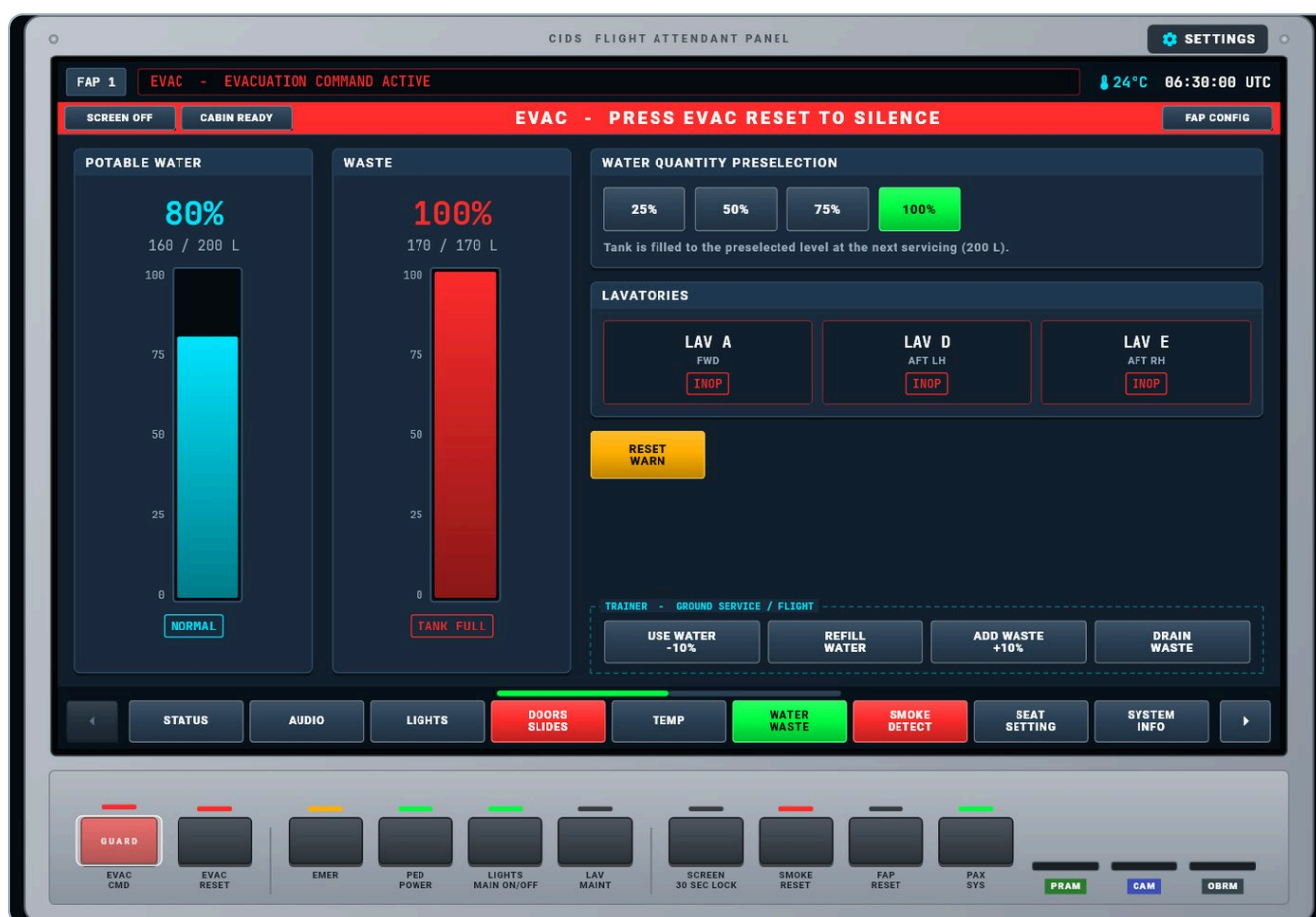
- 1 Passengers in the aft cabin feel cold. Student: TEMP, AFT zone **+**.
- 2 Keep pressing + until the limit.
- 3 Instructor (TRAINER cockpit selector): raise the AFT cockpit selection by 2 °C.

Expected: the target rises by 0.5 °C per press and ACTUAL moves towards it gradually. Beyond +2.5 °C: *FAP ADJUSTMENT LIMIT ±2.5°C - ASK THE FLIGHT CREW*. Teaching point: larger changes are made by the flight crew (18–30 °C).

C • Water and waste

- 1 Instructor (Water TRAINER): **ADD WASTE +10%** until the tank is full.
- 2 Student: identifies the consequence, presses **RESET WARN**, informs the purser.
- 3 Instructor: **DRAIN WASTE**.

Expected: *WASTE TANK FULL - LAVATORIES INOP*; lavatories A, D, E **INOP**; WATER/WASTE tab amber. After draining, the lavatories are OK again. Low water: *POTABLE WATER LOW / EMPTY*.



Waste tank full: all lavatories INOP.

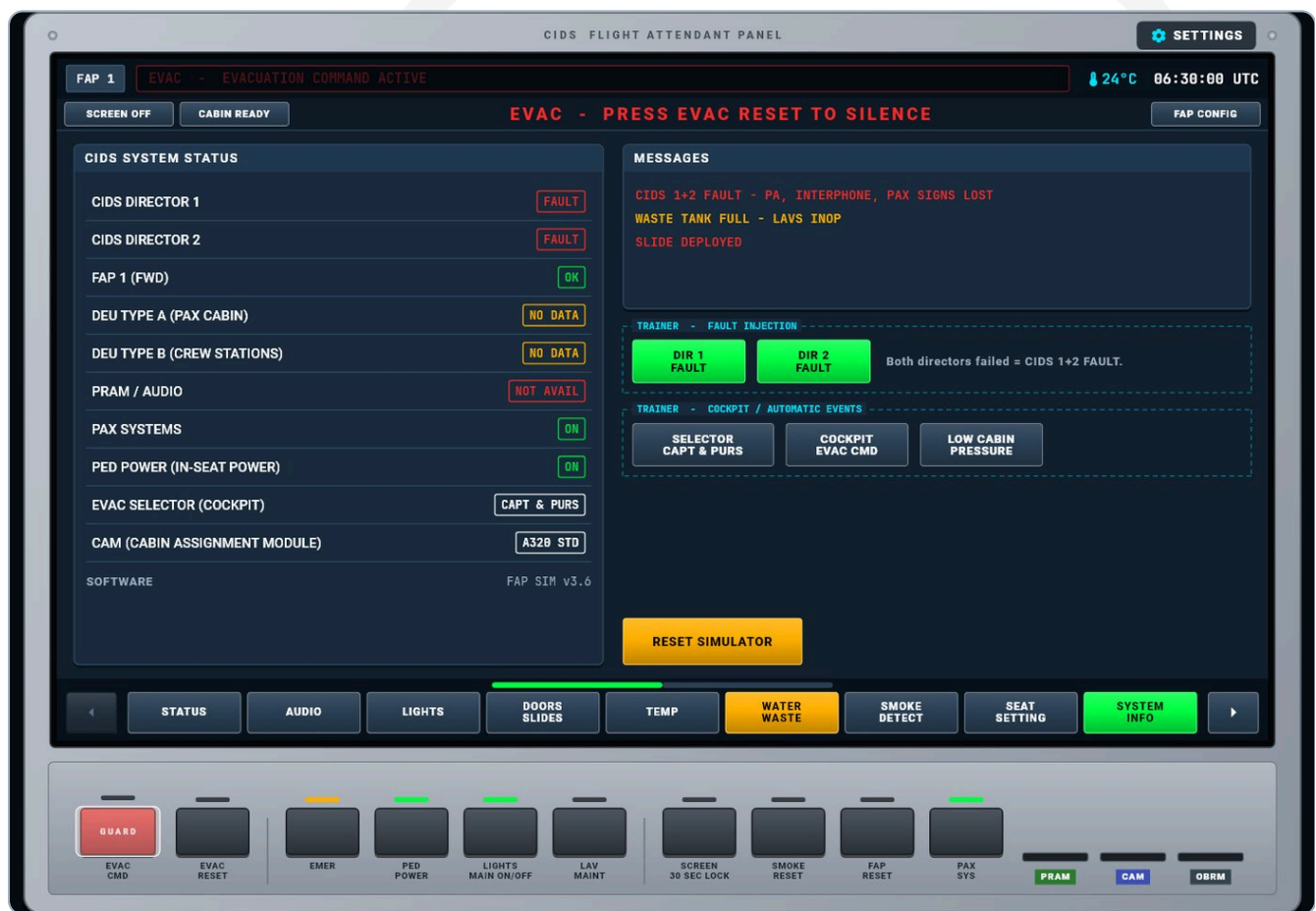
Abnormals & CAM Pages

Duration: 40 minutes. CIDS director faults, low cabin pressure, and the protected CAM pages.

A • CIDS faults

Instructor (System Info TRAINER)	Expected
DIR 1 FAULT	CIDS DIR 1 FAULT (amber): DIR 2 takes over, cabin functions continue.
+ DIR 2 FAULT	CIDS 1+2 FAULT: PA / INTERPHONE / SIGNS LOST; SYSTEM INFO tab red. Trying PA, music or chimes shows CIDS 1+2 FAULT - PA NOT AVAILABLE, - BGM NOT AVAILABLE, - CHIMES NOT AVAILABLE.

Discussion: how does the crew communicate without PA and interphone? (Airline procedure: megaphone, face-to-face, signals.)



Both directors failed.

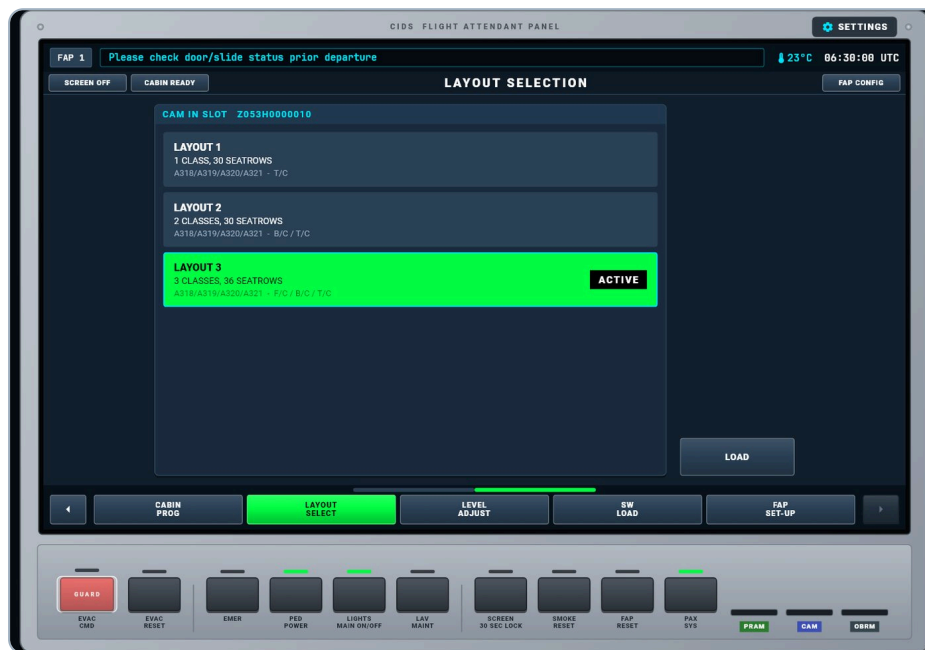
B • Low cabin pressure

Instructor: **LOW CABIN PRESSURE**. Expected: *LOW CABIN PRESSURE - CABIN LIGHTS BRT (AUTO)*: the CIDS sets the cabin lights to BRT automatically. Discuss the cabin crew actions for decompression

from the airline manual.

C • Protected pages

- 1 Open CABIN PROG and enter a wrong code: *INVALID ACCESS CODE*.
- 2 Enter 318. In LAYOUT SELECT choose another layout and **LOAD**: *LAYOUT ... LOADED*; the lighting zones follow the new layout.
- 3 Press the hard key **FAP RESET**: the protected pages lock again.



LAYOUT SELECTION.

Assessment Checklist

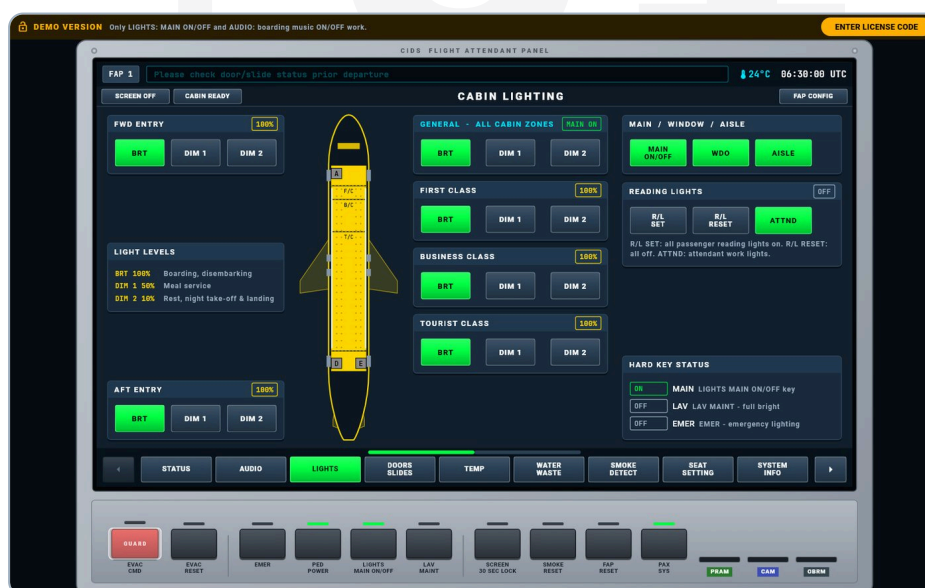
Student	Date
Device / code	Instructor

#	Task (student does it without help)	Pass	Retry
1	Names the header parts, page tabs, hard keys and card slots.	☐	☐
2	Reads CABIN STATUS and explains green, amber and red.	☐	☐
3	Sets boarding lighting (GENERAL BRT, MAIN, ATTND).	☐	☐
4	Starts and adjusts boarding music; plays 010 with DIRECT PLAY.	☐	☐
5	Detects a door left open before arming and reacts correctly.	☐	☐
6	Cross-checks all eight exits and sends CABIN READY.	☐	☐
7	Identifies and reports a deployed slide.	☐	☐
8	Builds a MEMO list in the right order and uses PLAY ALL / STOP.	☐	☐
9	Handles a lavatory smoke alert (SMOKE RESET + crew actions) and explains when it clears.	☐	☐
10	Uses the guarded EVAC CMD and EVAC RESET.	☐	☐
11	Explains CAPT vs CAPT & PURS and a cockpit-commanded evacuation.	☐	☐
12	Answers passenger calls, uses CALL RESET and inhibits a seat.	☐	☐
13	Adjusts zone temperature and knows the ± 2.5 °C limit.	☐	☐
14	Recognises a full waste tank and its effect on the lavatories.	☐	☐
15	Explains CIDS DIR fault and CIDS 1+2 FAULT consequences.	☐	☐
16	Opens a CAM page with the access code and loads a layout.	☐	☐

Result: ☐ Competent ☐ Needs more practice **Instructor signature:** _____

Troubleshooting & FAQ

Problem	Solution
"Invalid license code"	Check capital and small letters. FAP codes start with A320-; MCDU codes do not work here.
"Already used on another device"	Deactivate & Transfer on the old device, or Release the code on the admin page if that device is lost.
"No internet connection"	Activation and transfer need internet once. Classroom use does not.
"Too many attempts"	Wait 15 minutes after five wrong codes.
App back on the activation screen	The license was moved or released. Enter a valid code.
Windows: "Windows protected your PC"	More info → Run anyway. The app is not code-signed.
No sound	Device volume, MUTE in FAP CONFIG, CHIME INHIBIT, FAP SET-UP volume, LEVEL ADJUST.
Screen black	SCREEN OFF: touch the screen. SCREEN 30 SEC LOCK: wait for the countdown.
A page asks for a code	318 for CABIN PROG, LAYOUT SELECT, LEVEL ADJUST; 813 for SW LOAD.
Demo asks for a license	The demo includes only MAIN ON/OFF and boarding music.
Start a drill again	RESET DRILL (doors) or RESET SIMULATOR (everything).



Demo version with the amber bar.

Limitations & Important Notice

Real A320 functions not included

- Door / slide bottle pressure indication; screen auto-off and wake-up password.
- Mandatory layout mode (unreadable CAM); MCDU simulator menu page; CFDS / BITE tests.
- Integrated PRAM page variant and CAM-B graphics; up to six airline lighting scenarios (the three standard presets are taught).
- Automatic emergency announcements; PA volume increase at low cabin pressure.
- Attendant panels AIP / ACP / AAP and interphone handsets (separate systems); cargo smoke detection (cockpit system).

Announcement wording, music channels, layouts, access codes and levels are one typical configuration; each airline sets its own through the CAM.

Important notice & disclaimer

This software (A320 FAP Simulator) is developed by Overdrive Interactive for academic, familiarization, and educational training purposes only.

1. **NOT AN OFFICIALLY CERTIFIED FTD:** This application is a classroom supplement and is NOT certified by Airbus, FAA, EASA, CAAP, or any civil aviation authority for official type-rating or flight training credits.
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Always follow your airline's cabin crew operations manual and your approved training programme.

LINKS

Download, User Manual & tutorial: opulencecircle82.github.io/0I/fap · Admin: opulencecircle82.github.io/0I/admin