



SKY MATRIX

FLY INFORMED

User Guide

Flight Briefing Assistant

Version 1.2 · build 2026-07-27-batch80 · July 2026

FOR REFERENCE ONLY — NOT FOR OPERATIONAL USE

The official hard-copy OFP must be used for flight operations. Individual use only.

Welcome to Sky Matrix

Sky Matrix turns your Operational Flight Plan into a briefing you can actually use, and then stays useful for the whole flight. Load the OFP once and you get the weights, fuel, levels, route, weather and NOTAMs, plus a waypoint-by-waypoint nav log, cabin announcements, checklists, timers and an in-flight rest plan.

It runs in your browser and installs to the Home Screen on iPad, or as an app on Android. Everything you load stays on your own device.

For reference only - not for operational use.

Sky Matrix is a personal reference and situational-awareness aid. The official hard-copy OFP and your approved company documents always govern flight operations. Individual use only.

Your data stays on your device

Sky Matrix does not collect, store or transmit what you load. Flight plans carry other crew members names and roster details, so a briefing is never uploaded, never synced in the background, and never included in a settings backup.

1. The first time you open it

Get an access code. Enter your email on the access screen, then tap **Start my free 10-day trial**. Sky Matrix emails you a 6-digit code to prove the address is yours; enter that and your access code is issued.

You do not need to tap Activate

Your trial code is filled in and activated automatically. The Activate box below it is only for when you are pasting a code by hand.

- **Set a PIN** (6 to 8 digits) to reopen the app quickly, and Face ID / fingerprint if your device offers it. After ten wrong PINs the app locks for 15 minutes; your access code always unlocks it again.
- **Your details** - full name, position, airline and aircraft. These personalise your announcements. Your name is set once; position, airline and aircraft can be changed later under **Utilities** → **PA** → **Edit my saved details**.
- **Name this device** so you can recognise it later (for example "Mike iPad").

One subscription covers **two devices** - typically your iPad and your phone.

2. Load a flight plan

The **Load** page has three sub-tabs on the side rail: **Load**, **My Devices** and **Share**. On **Load**, drop your OFP (PDF or text) or tap to choose one, then tap **Sky Matrix AI**.

Sky Matrix has built-in readers for **Qatar Airways, Emirates, Etihad, PIA and Air Sial**. These read the whole plan **offline** - no internet needed - including the nav log, NOTAMs and weather printed in the plan. Any other airline is read by Sky Matrix AI from the OFP pages, which needs internet.

- On **Android** you can share an OFP straight into Sky Matrix from your email.
- Your briefing is kept when you close the app, and is re-read automatically after an update so you always see it the way the latest version reads it.

- Loading a new flight plan clears the previous flight's entries.

A new airline can be added without an app update

If your airline is not in the list, send a copy of the OFP to support. Sky Matrix can be taught a new flight-plan layout in the admin OFP Training Studio, and every app then reads that airline offline - usually within a day, with no new version to install.

3. OFP Briefing

Five pages, from the left rail:

- **OFP** - flight identification, aircraft, weights, fuel and times, with a data check at the top that flags anything that does not add up.
- **Route** - the route string, SID/STAR, cruise levels and the FIRs you cross.
- **Weather** - METAR and TAF for departure, destination and alternates, decoded, plus SIGMETs.
- **NOTAMS** - colour-coded against your own flight times: **red** active at your time, **amber** a time window to check, **green** clear. Airspace NOTAMS are grouped under the FIR they belong to. Star the ones that matter and they sort to the top and stay marked.
- **Info** - a plain-language route synthesis, the commander, MEL/CDL items carried, and any company bulletins printed in the plan.

A NOTAM whose validity could not be read is shown neutral, never green - an unknown window is never presented as "clear".

4. Inflight Display

Departure and **Arrival** hold the details for each end of the sector, with **Blocks off** / **Blocks on** driving the block timer.

Nav Log

A waypoint-by-waypoint table read straight from your OFP. It runs **airport to airport** - it starts at the departure aerodrome and ends at destination.

- **Plan columns** - NM (cumulative distance), **RETA** (plan ETA), **RFOB** (plan fuel remaining) and **PFL** (plan flight level).
- **Your columns** - **ATA**, **AFOB** and **AFL**, saved on this device.
- **Automatic times.** Enter your take-off time and every ATA below fills in, worked forward from the plan. Projected values are shown dimmer than the ones you typed. Type an actual at any waypoint and everything below re-works from it - so a delay or a short-cut carries down the page.
- AFOB projects the same way using the plan burn, and AFL carries your last entered level forward.
- **Tap any waypoint** for its OFP detail - airway, lat/long, EET, wind, temperature, MORA - a notes box, and an RVSM altimetry cross-check tick.
- **Alternate nav log** sits collapsed under the main leg. Tap it to expand the full diversion routing.
- The three-dot menu on a row lets you insert a DIR TO, add your own waypoint, or remove one - for this flight only. Your OFP is never changed.

Airport weather & NOTAMS

Type any ICAO and tap **D-ATIS**, **METAR / TAF** or **NOTAMs**. Weather is fetched live and is colour-coded against the active time window. D-ATIS covers airports worldwide, not just the US. If a live source is unavailable, Sky Matrix falls back to the weather printed in your own OFP.

Alerts & markers

One card for both jobs. Set an **alert** for a waypoint, a lat/long or a UTC time and get a sound and a message when you reach it. Below that, **time markers** stamp the current UTC against any event - top of climb, oceanic entry, a level change - and keep a running list.

Time

- **Flight time** - tap START at take-off, or let GPS stamp take-off and landing automatically.
- **In-flight rest** - builds the rest window from take-off plus the OFP trip time, splits it by your rest pattern and shows each crew member's slot.
- **The time block** - elapsed, time to go, ETA in UTC and destination local time, rest countdowns, and sunrise/sunset at both ends.

5. Cabin announcements

Under **Utilities** → **PA**. Announcements are spoken in your name, taken from your profile.

Writing one

- Write or paste your announcement, or upload one (photo, PDF, Word or text).
- Tap **SKY MATRIX AI**. It corrects the wording and **highlights the details that change from flight to flight** - flight number, destination, cruise level, flight time, crew names.
- Below that box you get **EDIT**, **Copy** and **SAVE**. Saving files it under **My announcements**.
- You do not need to mark the blanks yourself - Sky Matrix works out which details vary.

Welcome and Descend

Name a script **Welcome** or **Descend** and it is routed automatically to the Departure and Arrival pages, and re-filled for whichever flight is loaded.

- The window shows only **flight time** and **cruise level**, because everything else is filled from the flight already.
- **Edit all details** opens the rest - speaker, crew names, aircraft, destination, airline.
- Anything you change there applies to **this flight only**. Load a new plan and every field re-fills from the new OFP.
- The greeting is chosen for you from the **local time at the airport** - departure for the Welcome PA, destination for the Descend PA - so an overnight sector still greets the cabin correctly.

Crew roster

Upload a roster (photo, PDF, Word or text) and Sky Matrix reads the flight-deck and cabin names by rank, ready for your announcements.

6. Documents

- **OFP** - the flight plan document for the current flight, all pages, expandable to full screen.
- **My Docs** - your own PDFs and images, stored on the device.

- **Checklist** - build several named checklists shown as tabs. The **Checklist maker** turns any document into steps you can review, edit and add.
- **Admin Docs** - reference documents your administrator sends you. A pushed **flight plan** does not appear here: it shows on the **Load** page as a green **Received flight plan - Acknowledge & load** button, which confirms delivery to the sender and opens it in one tap. Tap **Check for new documents** to pull them without reopening the app.

7. Other tools

- **Dangerous Goods** - ICAO emergency-response **drill codes** (the code on the NOTOC, which is not the UN hazard class) and drill letters. Reference only: the ERG carried on the aircraft and your operator's DG manual always take precedence.
- **Aircraft Lookup** - enter an **ATC callsign** (QTR6F, SIF161) for the airline, route and the aircraft currently operating it, or a **registration** (A7-ALW, APBHX) for the exact type and operator. A registration gives the definitive answer; a callsign shows whoever is flying it right now. Needs internet.

Reading comfort

Under **Load** → **My Devices** → **Display & accessibility** there is a **Text size** slider that enlarges everything in the app up to 160% - for glare, vibration or simply tired eyes at the end of a long night sector. It is remembered on that device. Sky Matrix also follows your device's **Reduce Motion** setting: switch it on and all animation stops.

Location

The first time you use it, Sky Matrix asks before touching your location, and explains what it is for. The position stays on the device and is never uploaded. Whenever GPS is actually running you will see a green **Location in use** badge in the corner - tap it to switch GPS off.

8. Back up, move and share

On the **Load** page, under **Back up & move your setup**.

- **Export / send to cloud** - saves your profile, checklists, announcements, documents and preferences to one file. On iPad and Android the share sheet opens, so you can save to iCloud Drive, Google Drive, OneDrive, Dropbox or Files. **Import** restores it.
- **My other device** - your subscription covers two devices. **Save to my account** on the first, **Load onto this device** on the second.
- **Share with another pilot** - creates a 6-digit code, valid 15 minutes, usable once. You choose whether to send just checklists, announcements and documents, or those plus your profile.
- **Share this briefing** (Load → Share) - hands the current flight plan to the crew operating with you, again by 6-digit code.

What never travels in a settings file

Your loaded OFP and briefing, your access code and your PIN. A flight plan carries other crew members names and roster details, so it only ever moves as a deliberate, single-flight action - never automatically and never in the background.

9. Your account

Load → **My account** shows the email you signed in with, your Device ID and your device name.

- **Log out** - signs you out and returns to the access screen. Your Device ID is kept, so the same access code works when you sign back in, and your checklists, announcements, documents and profile are all kept.
- **Log out and erase my data** - also deletes everything stored on this device. This cannot be undone; export a backup first.

Reinstalled and got a new Device ID?

Your access code is locked to your Device ID. Reinstalling the app, or clearing website data, can mint a new one. On the access screen, enter your email and tap **Restore my device & licence**: Sky Matrix emails you a 6-digit code and puts your original Device ID and access code back. You never need to buy a second licence for the same tablet.

10. Version and updates

The PIN screen shows your version and the exact **build** you are running, for example **Sky Matrix v1.2 · build 2026-07-27-batch80**, together with a **What's new** list.

If something has just been fixed and you are not seeing it, check that build number first - close and reopen the app to pick up the newest version.

For administrators

Open **admin.html** and enter your admin token.

- **Users** - every device with its pilot, email, plan, status and **usage** (OFPs loaded, active days, last load). A red **0** means the licence was issued but never used.
- **Grant licence**, block, unblock or delete a device.
- **Contact users, Feedback, Reviews, Services & billing.**
- **Push docs** to one device, a group or everyone - they land in each pilot's Admin Docs.
- **OFP training** - the Training Studio (below).
- **Group admins** - mint a token so a fleet's own admin can use **subadmin.html** to see only their group, push documents and name devices. They cannot grant, block or delete.

Licensing

Up to TWO active devices per email - one subscription covers a pilot's iPad and phone. Codes are device-locked and expire on their day. A third device supersedes the oldest.

Teaching Sky Matrix a new airline

The **OFP training** tab opens the Training Studio. It adds an airline without any app update.

- Upload a real OFP. The studio reads it exactly as the app does and shows what it got, field by field.
- Correct anything wrong. For the nav log or NOTAMs, click one sample row so the studio can see the shape.
- **Derive** works out the patterns, **Test** runs them against that same OFP, and **Save** publishes.
- Saving is blocked until a test passes - a layout that cannot read the plan it was trained on never reaches a cockpit.
- Every app then reads that airline **offline**.

The five built-in airlines always win

Qatar, Emirates, Etihad, PIA and Air Sial have hand-validated readers, so a trained layout will not replace one unless you deliberately tick Override. Use an override to correct a single field; send the OFP to support for anything structural.