

 AEROLOG

User Guide

Aircraft Maintenance Tracking System

Complete reference covering the Dashboard, Fleet, Task List, Workcards, Maintenance Planner, Reports, Security, and Account settings.

Version 2.0 · April 2026

Table of Contents

1	Getting Started & Navigation	3
2	Dashboard	4
3	Fleet — Aircraft Overview	4
4	Aircraft Detail Page	5
5	Task List	6
6	Sign Off & Workcards	8
7	Batch Workcard Generation	9
8	Airworthiness Directives	10
9	Service Bulletins	10
10	Tracked Parts	11
11	Squawks & MEL Deferrals	12
12	Maintenance Events — Log Event	13
13	Import Data	15
14	Reports	16
15	Maintenance Planner	17
16	Account Settings	23
17	Search	25
18	Data Export & Privacy	25
19	Security	26
20	Help & Contact	27

1. Getting Started & Navigation

AeroLog is a web-based aircraft maintenance tracking system. New accounts receive a 30-day free trial with full access. No credit card required.

1.1 Quick Setup

- Add your aircraft — Fleet → + ADD AIRCRAFT, follow the four-step wizard
- Import your maintenance program — Import Data → upload CAMP/Traxxall PDF or CSV
- Set utilisation rates — Account → Fleet Utilisation (hours/month and landings/month)
- Review the task list — TASK LIST button on any aircraft
- Plan your next shop visit — Planning → Maintenance Planner

1.2 Sidebar Navigation

Section	Item	Purpose
OVERVIEW	Dashboard	Fleet summary — counts, overdue items, recent maintenance
OVERVIEW	Search	Search tasks, ADs, SBs, and parts across all aircraft
AIRCRAFT	Fleet	All aircraft you have access to
SETTINGS	Import Data	Upload CAMP/Traxxall PDFs or CSV files
SETTINGS	Account	Subscription, thresholds, utilisation, data export
PLANNING	Maintenance Planner	AI-assisted visit consolidation planner
SUPPORT	Help & Guide	In-app documentation and PDF user guide
SUPPORT	Contact Us	Opens the contact page

2. Dashboard

The Dashboard shows a real-time fleet summary. Stat cards are clickable — OVERDUE and DUE SOON open filtered task lists.

Card	Description
AIRCRAFT	Total aircraft in your fleet
TRACKED TASKS	Total active maintenance items across all aircraft
OVERDUE	Tasks past due limit — click to see full list
DUE SOON	Tasks approaching due limit within your threshold — click to see list

Below the stat cards: the five most recent maintenance events across all aircraft.

3. Fleet — Aircraft Overview

3.1 Adding an Aircraft

- Click + ADD AIRCRAFT on the Fleet page
- Four-step wizard: (1) Aircraft type/engine category, (2) Registration and ID, (3) Current times, (4) Engine/APU times and review
- Aircraft type determines subscription plan (Single Piston, Multi Piston, Turboprop, Jet/Turbine)
- Requires an active subscription or trial

3.2 Aircraft Type Categories

Type	Description
Single Engine Piston	Single reciprocating engine
Multi Engine Piston	Two or more reciprocating engines
Turboprop	Single or multi turboprop
Jet / Turbine	Turbojet, turbofan, or business jet

4. Aircraft Detail Page

The aircraft detail page is the hub for all activity on a specific aircraft. The header shows tail number, make/model, and time sources (airframe, engines, APU).

4.1 Header Buttons

Button	Function
+ LOG EVENT	Open the maintenance event logging modal
EDIT	Edit aircraft registration details and update times
TASK LIST	Full sortable/filterable inspection task list with batch workcard support
REPORTS	Generate PDF/CSV reports
■ MANAGE ACCESS	Invite users and set access levels (owner/admin only)

4.2 Collapsible Sections

- Inspections — recurring scheduled maintenance tasks
- Airworthiness Directives (ADs) — mandatory FAA compliance items
- Service Bulletins (SBs) — manufacturer bulletins
- Tracked Parts — life-limited or serialised components
- Squawks — aircraft discrepancies and MEL deferrals
- Maintenance Log — history of all logged events

■ Each section has checkboxes on the left of each row for batch workcard generation.

5. Task List

The Task List (TASK LIST button on aircraft detail) shows all maintenance items in a sortable, filterable table with sign-off capability and batch workcard selection.

5.1 Status Indicators

Status	Description
CURRENT	All intervals within limits
DUE SOON	Within your configured threshold (default 30d / 25h / 50 ldg)
OVERDUE	Past due limit and outside published tolerance
N/A	Not applicable to this aircraft

5.2 Task Types

Badg e	Type	Description
INS	Inspection/Task	Scheduled recurring maintenance
AD	Airworthiness Directive	Mandatory FAA compliance — never cap at DUE SOON
SB	Service Bulletin	Manufacturer bulletins — Required/Recommended/Voluntary
PT	Tracked Part	Life-limited or serialised components tracked by P/N and S/N

5.3 Key Columns

Column	Description
PROJ DUE	Projected months until due — calculated using your utilisation rate
INTERVAL	Published interval with tolerance badge (e.g. ±30d / ±25h)
DUE HRS	Hours-driven due limit — shows engine/APU source suffix for non-airframe tasks
REM HRS / LDG	Remaining hours/landings before due limit
STATUS	CURRENT / DUE SOON / OVERDUE / N/A

5.4 Sorting & Filtering

- Click any column header to sort — click again to reverse
- Filter tabs: ALL / OVERDUE / DUE SOON / 100 HRS–6 MO / 250 HRS–12 MO / CUSTOM
- Search box filters by task number, description, or part number
- ■ PARTS tab shows the parts inventory; ■ PACKAGES tab shows workcard packages

6. Sign Off & Workcards

6.1 Signing Off a Task

- Click ✓ SIGN OFF on any task row
- Enter completion date, airframe hours, and landings at completion
- For engine tasks, enter the engine hours at completion
- AeroLog automatically calculates the next due date from completion time + interval
- A maintenance event is created and linked to this sign-off automatically

■ *If a task is signed off early, the next interval resets from the actual completion date — standard practice for early compliance.*

6.2 Single Task Workcard

Click ■ WORKCARD on any task row. A prompt appears with two choices:

- Scope — this task only, or full package (task + all subtasks)
- Times — pre-fill current aircraft times as a reference baseline, or leave blank for the technician

The workcard is landscape letter format and includes: aircraft ID, task description, interval/tolerance/due/last-done reference, required tools section, parts removed/installed, times at completion, technician and independent inspector sign-off blocks, and RTS statement.

7. Batch Workcard Generation

Three ways to generate workcards for multiple tasks:

7.1 From the Task List

- Check the checkbox on the far left of each task row you want
- Click Workcard Selected in the tab bar above the table
- A dialog asks whether to pre-fill current times or leave blank
- A single PDF containing one workcard per selected task downloads immediately

7.2 From the Aircraft Detail Page

The Inspections, ADs, SBs, and Parts sections all have checkboxes in the first column of each row. Check any combination and click Workcard Selected above the table.

7.3 From the Maintenance Planner

Click Workcards on any visit card in the Maintenance Planner to generate workcards for all tasks in that visit at once. The same pre-fill dialog appears.

8. Airworthiness Directives (ADs)

ADs are mandatory FAA compliance items shown in the ADs tab with an orange AD badge. They are always Required compliance and are never capped at DUE SOON — they show OVERDUE when past their limit regardless of advisory status.

Field	Description
Task No / AD Number	The FAA AD number (e.g. 2023-15-02) or internal reference
Interval	Recurring interval for repetitive ADs
Tolerance	Published grace period — days, hours, or landings
Due Date / Due Hrs	Next compliance limit
Last Done	Date and times at last compliance
Status	CURRENT, DUE SOON, or OVERDUE

9. Service Bulletins (SBs)

Category	Description
Required	Operator has determined compliance is mandatory
Recommended	Manufacturer recommends — flagged DUE SOON but never OVERDUE
Voluntary	Optional — tracked for reference, never flagged as overdue
N/A	Not applicable — hidden from active tracking

10. Tracked Parts

The Parts tab tracks life-limited components, serialised parts, and any component you want to monitor by P/N and S/N.

Field	Description
Item Code	Internal reference code (e.g. 324001/L for Left Main Tire)
Part Number (P/N)	Manufacturer part number
Serial Number (S/N)	Component serial number
Position	Aircraft location (e.g. L MLG, E1**L)
Due Date / Due Hrs	Next replacement or inspection due
Status	CURRENT, DUE SOON, or OVERDUE based on part limits

11. Squawks & MEL Deferrals

Status	Meaning
Open	Reported, not yet deferred or resolved
Deferred	Formally deferred under MEL with category and repair-by date
Closed	Resolved and signed off

11.1 MEL Deferral Categories

AeroLog uses the midnight rule — the clock starts at 00:01 the day *after* the deferral date:

Category	Interval	Notes
A	Operator defined	Set the repair-by date manually
B	3 calendar days	Clock starts midnight after deferral date
C	10 calendar days	Clock starts midnight after deferral date
D	120 calendar days	Clock starts midnight after deferral date

■ MEL deferrals with approaching deadlines appear as hard visit anchors in the Maintenance Planner.

12. Maintenance Events — Log Event

Maintenance events record completed work. Linked tasks are automatically signed off and their next due dates are advanced.

12.1 Event Fields

Field	Description
Event Type	Inspection, Oil Change, Repair, Overhaul, Annual, Other
Date Performed	Date work was completed
Description	Brief description of work performed
Performed By	Technician name or company
Airframe Hours	Aircraft total time at maintenance
Landings	Aircraft total landings at maintenance
Engine/APU Times	Engine hours and cycles (turbine aircraft)
Estimated Labor Hours	Total man-hours — used by Maintenance Planner
Notes	Internal notes, work order references
Itemized Parts	Parts replaced during this event
Completed Items	Search and link tasks completed in this event

12.2 From the Maintenance Planner

Click + Draft Event on any visit card. The Log Event modal opens pre-filled with:

- Date — the planned visit date
- Description — visit number, task count, and ATA chapters
- Notes — all task numbers from the visit
- Completed Items — all tasks from the visit pre-linked as chips

Review and edit, then click LOG EVENT. All linked tasks are signed off automatically.

13. Import Data

Source	Format	Description
CAMP	PDF	Upload a Status Report PDF. AeroLog parses all tasks, intervals, tolerances, and completion dates.
Traxxall	PDF	Upload a Status Report or Due List PDF from Traxxall.
AeroLog CSV	CSV	Download the template from the Import page, fill it in, and upload.

13.1 Import Modes

- **Replace** — clears all existing tasks before importing. Use for initial setup.
- **Merge** — updates matching task numbers, adds new ones, preserves manual additions.

13.2 Import Workflow

- Select target aircraft
- Choose source (CAMP, Traxxall, CSV)
- Upload file — parser preview shows what will be imported
- Review parsed counts and any warnings
- Select Replace or Merge, then click Import

14. Reports

Report	Format	Description
Due List	PDF	All tasks due within a date/hours/landings window. Set the window before generating.
Status Report	PDF / CSV	Complete snapshot of every task with status, last done, next due.
Aircraft Record	PDF	Comprehensive record with squawks, recent events, upcoming tasks. Suitable for MRO or insurance.
Logbook Entry	PDF	Generated from a maintenance event — lists completed tasks and parts.
Workcard	PDF	Single-page task card. Available from task list or batch selection.
Maintenance Plan	PDF	Summary of the planner's recommended visit schedule. From Planner → Print Plan .

15. Maintenance Planner

The Maintenance Planner analyses your upcoming schedule and generates an optimised shop visit plan to minimise downtime and maximise aircraft availability. Access it under Planning → Maintenance Planner in the sidebar.

15.1 Overview

- Select aircraft and planning horizon (12, 24, or 36 months)
- Algorithm always runs the full 36-month window internally for stability — changing the horizon trims the display without altering visit recommendations
- Results show consolidated shop visits, each containing tasks grouped by ATA chapter

15.2 Planning Algorithm

Three-pass constraint-aware optimiser:

- **Pass 1 — Optimal date sweep:** For each anchor task, sweeps across its calendar tolerance window to find the visit date that maximises tasks included while minimising total interval deviation.
- **Pass 2 — Cascade planning:** Tasks committed to a visit are removed from the pool. Later clusters are planned with full awareness of earlier decisions — the entire schedule is internally consistent.
- **Pass 3 — Opportunity detection:** For each visit, identifies tasks that could be added via tolerance delay or early completion.

15.3 Consolidation Opportunities

Type	Colour	Description
Tolerance Delay	Orange	Task due shortly before/after this visit has enough published calendar tolerance to be deferred — completely within approved limits.
Early Completion	Purple	Task due later that could be done early to eliminate another shop visit. Next due date resets from actual completion date.

■ Hour/landing tolerances are tracked in flight hours, not calendar days. The planner flags these for manual verification of actual hours at the visit date.

15.4 Visit Cards

Element	Description
Visit date	Recommended date — click the underlined date to edit
Colour accent	Left border cycles through palette for easy visual separation between visits
Urgency indicator	Red = <14 days, orange = <30 days, green = further out
VISITS SAVED	How many separate shop trips this visit consolidates
LABOR HRS	Estimated total man-hours across all tasks (if set on tasks)
PARTS NEEDED	Tasks that require a specific part — shown with P/N

ATA groups	Tasks organised by ATA chapter — matches typical shop work order structure
Compliance flags	Red = hard deadline exceeded; orange = interval warning; blue = early completion note
MEL anchors	Red block if a MEL deferral expires near this visit

15.5 Editing the Plan

Action	How
Move a task	Drag by the ■ handle to another visit drop zone. Compliance re-validated on drop.
Edit visit date	Click the underlined date. Type or pick a new date, press Enter.
Delete a visit	Click X in the visit header. Tasks move to nearest adjacent visit as opportunities.
Take an opportunity	Drag from the opportunities panel into the confirmed task table.
Reset to recommended	Click ■ Reset. Discards all manual changes and restores the algorithm's plan.
Force fresh plan	Click ■ Fresh Plan. Clears saved state and fetches a new plan from the algorithm.

15.6 Plan Persistence

Your edited plan is automatically saved to the aircraft record after every change. All users with access see the same plan. The saved banner shows who last edited the plan and when.

15.7 Workcard Generation from the Planner

- Click ■ Workcards on a visit card to download workcards for all tasks in that visit
- A pre-fill dialog asks whether to print current aircraft times or leave fields blank
- Click + Draft Event to open the Log Event modal pre-filled with visit data

15.8 Print Plan PDF

Click ■ Print Plan in the planner toolbar to generate a summary PDF of the full plan including all visits, task lists, and opportunity notes.

15.9 Utilisation Rates

The planner projects future due dates using the aircraft's utilisation rate. Set these in Account → Fleet Utilisation. Per-aircraft rates override the fleet default. If no rate is set, the planner defaults to 40 hours/month.

15.10 Interval Preservation Scoring

Each early-completion opportunity is scored by the percentage of its interval consumed by the deviation. Cheapest opportunities appear first. The score (e.g. "12% of interval") helps you decide whether an early completion is worth the shortened next cycle.

16. Account Settings

Section	Description
Subscription & Aircraft	Current plan, aircraft count, and Stripe billing management
Organisation Settings	Organisation name and form number — appear on PDF report headers
Due Soon Thresholds — Defaults	Global defaults: calendar days, hours remaining, landings remaining
Due Soon Thresholds — Per Aircraft	Override defaults per aircraft (shared with all users of that aircraft)
Fleet Utilisation	Expected hours/month and landings/month per aircraft — drives PROJ DUE and Planner
Google Drive Backup	Automatic database backup to Google Drive (desktop version)
Your Data & Privacy	Download complete data export as CSV ZIP, links to Privacy Policy and ToS
Change Password	Update your password at any time via the sidebar footer

16.1 Data Export

Click  Export All My Data (CSV) in the Account page. Downloads a ZIP containing:

- aircraft.csv — tail number, make, model, year, serial, all times and cycles
- inspections.csv — every task, AD, SB, and part with full interval and completion data
- maintenance_events.csv — all logged events with date, type, times, and notes
- squawks.csv — all squawk records including MEL category and dates
- README.txt — export metadata

17. Search

Search across all aircraft you have access to simultaneously.

- Search by task number, description, part number, serial number, or tail number
- Results grouped by aircraft
- Click any result to open that task or aircraft directly

18. Data Export & Privacy

Commitment	Detail
No cookies	AeroLog does not use cookies of any kind — no tracking, session, or advertising cookies
Data never sold	We do not sell, rent, or share your data with any third party for commercial purposes
You own your data	Your aircraft records belong to you — AeroLog claims no ownership
Export anytime	Full CSV export available at any time from the Account page at no charge
Delete anytime	Account and all associated data permanently deleted on request
Encrypted in transit	All data transmitted over HTTPS/TLS
Passwords hashed	bcrypt one-way hashing — your password cannot be recovered

19. Security

AeroLog implements industry-standard security practices:

Feature	Implementation
Password storage	Werkzeug bcrypt — salted one-way hash, never stored in plain text
Session cookies	HttpOnly, SameSite=Lax, Secure=True — protected from XSS and CSRF
Session lifetime	7-day sessions that expire automatically
Secret key	Required environment variable — app refuses to start without it
Login rate limiting	Max 10 attempts per 5 minutes per IP — blocks brute force
Registration rate limiting	Max 3 registrations per hour per IP — blocks bulk account creation
Password reset rate limiting	Max 5 requests per hour per IP — response always 200 to prevent enumeration
Disposable email blocking	40+ known throwaway email domains rejected at registration
Honeypot field	Hidden registration field catches bots without CAPTCHA friction
SQL injection	All database queries use parameterised statements
Security headers	X-Frame-Options, X-Content-Type-Options, HSTS, Referrer-Policy, Permissions-Policy
Access control	Every API endpoint verifies user access before returning any data

■ *AeroLog is a record-keeping aid only. It is not a substitute for qualified aviation maintenance professionals or regulatory compliance.*

20. Help & Contact

The Help & Guide page in the app (sidebar → SUPPORT) provides a quick reference covering all major features, status indicators, task types, MEL categories, and FAQs.

20.1 Contact Support

Use the Contact Us link in the sidebar for:

- Technical support or bug reports
- Questions about subscriptions or billing
- Data deletion requests
- Feature requests or feedback