Avistrata Capability Overview

Maintenance, engineering and flight operations in one system · Version 2.2 · 24 October 2026

Avistrata runs an aviation organization's hangar and flight department in one system: a web app, plus the Avistrata mobile app for iPhone, iPad and Android in 5 flavors: Admin, Pilot, Mechanic, Student and FAA. A squawk becomes a task card, the task card is signed off, the aircraft's status updates, and the flight release knows about it before anyone books the aircraft. Every step is recorded, signed and kept, ready for an FAA inspection or a customer audit. The Engineering workspace gives the technical services desk its own place for requests from the shop floor, repairs and alterations, engineering orders, the technical library and the inspection program.

What it covers

Area	What you get
Work orders & task cards	Work orders with sub work orders, parts and labor lines and hours roll-ups; task cards with mechanic and QC sign-off, RII inspectors kept independent of the mechanic (121.369(b)(7) / 135.427), non-routine cards, kitting, rotable tags, time clock, single or dual FAA + EASA sign-off and a printable card. Work order numbering per organization. Scan a paper card to prefill a new one.
Maintenance overview & calendar	The top of Home in the Maintenance workspace shows, for everyone: tiles for overdue items, items due within 30 days, open discrepancies (with the grounding count), open work orders, open task cards and Engineering requests (AOG / past due); quick buttons for a new work order, a discrepancy, Maintenance Due, Task Cards, Hangar and Reports; "Aircraft needing attention" cards, worst first, each with hours / cycles, the next item due and its discrepancies, MEL items and work orders; and Coming due and Open work orders lists. The personal task log stays below it. The Maintenance Calendar puts hangar bookings, maintenance due, calibration, work orders and time off in one calendar; drag to reschedule.
Aircraft records & compliance	One record per aircraft (keyed by serial): status history, discrepancies with grounding, MEL deferrals with hour and cycle limits, equipment with serials, hours and expiry, maintenance due by hours, calendar and cycles, phase inspections, weight & balance, SOPs, flight log and logbook stickers (43.9 / 43.11). Life-limited parts: limits by hours, cycles and calendar, back-to-birth history from aircraft to aircraft, projected limit date and a dispatch block at the limit. Extensions (e.g. the 10% tolerance) and AD AMOCs recorded without overwriting the original due point. CAMP Due List import; AD / SB matching down to engines and props. A new aircraft fills in from its tail number (daily FAA registry download, plus Canada's register), with an aircraft photo; standard aircraft statuses, Zone and ATA values.
Engineering	A workspace for the engineering / technical services desk of a Part 135 / 145 / 91K operator or repair station, on the web and in the Admin and Mechanic apps. Engineering Home counts open requests, alterations in work, orders to check, documents to read and program changes waiting. Engineering requests (ENG-1, ENG-2…) come from a task card with "Ask engineering" or directly, with AOG / urgent / routine due times, a conversation thread and a disposition with the approved data reference. Repairs and alterations with major / minor classification and a Form 337 filled from the record; AD/SB applicability review per aircraft; reliability rates per ATA chapter per 100 flight hours with alert levels; engineering orders and work instructions approved with an electronic signature and published as task card templates; a damage map on seven aircraft diagram layouts; a technical library with revisions and read-and-acknowledge; configuration status per aircraft; inspection program changes with manufacturer's tasks mapped to your templates; parts interchangeability shared with Stores. Photos and files on every record; engineers and requesters are notified by email, text or push, and late requests are escalated.
Records integrity	Every change to a maintenance record is kept by the database: who, when, and what it said before. Signed records can't be deleted; a deleted record keeps a full copy with the reason and can be restored by an admin. Searchable history with CSV export for auditors.
Audits & records packages	Give an FAA inspector, customer quality auditor, IS-BAO auditor or lessor read-only, time-limited access to chosen aircraft's records: no account, a one-time code by email, and every page they open logged. One-click records package per aircraft: a PDF of status, due items, ADs,

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	life-limited parts, discrepancies, MEL, work orders and every signed task card, plus spreadsheets, attached files and a checksum for every file.
Tool control	Check tools in and out against task cards; status and calibration changes need a reason and are audited; a task card can't be signed off while its tools are still out; a failed calibration produces a recall list of every card and aircraft the tool touched; a tool lost on a task card raises a lost-tool report that can hold the aircraft for a FOD check. Scrap and mutilation records (43.10) with a scrap certificate.
Flight operations & safety	Flight releases blocked by grounding items, MEL limits, overdue inspections and parts at their life limit; FRAT with approver role; load manifest with W&B and CG check; crew checks, 61.57 currency, duty and rest limits; flight following with live tracking and overdue alerts; weather brief; takeoff and landing distance performance; open flights for crew to request; booking form that shows the aircraft's day and any clash before saving; recorded flights replayed on a map with altitude, speed and g-load charts; printed flight package. A Flight Tracking tab (Flightradar24) on each aircraft; eAPIS manifest builder for international flights (traveler profiles, checks, CSV / PDF); trip expenses on contract flying go to the pilot's own Expensify.
Trip planning & flight data	Trip planner on the web, iOS and Android: route with airways, winds-aloft NavLog, fuel, map and vertical profile, route suggestions, VFR / IFR cruising altitudes (91.159 / 91.179), multi-leg trips with stops, ground time and refuel, saved trips and drafts, applied to the release. Airport info with Info, Weather, Runway, Procedures and NOTAM tabs: NOTAMs from the FAA NOTAM Management Service, a runway diagram to scale with wind and best runway, the airport diagram, FAA procedure charts and the Chart Supplement, and a 7-day forecast; nearest airports on phones. My routes & weather: saved airports and routes and a weather email on your schedule. Engine data from Garmin and JPI logs: graphs, trends, limits per engine type, GAMI and mag checks, exceedances and links to squawks, in one Flight Log per aircraft, with a Flight Report PDF.
Crew & training	Crew records, medicals, certificates read by AI, checkouts per airframe, training courses and records, availability, pilot logbook with ForeFlight import, simulator entries and CSV export, My Flights home screen for pilots.
Flight school	Part 61 / 141 courses (18 standard), endorsements, booking rules, rental billing and a rental calendar in a Flight School workspace; import from Flight Schedule Pro and Flight Circle; partner simulator sessions into logbook and billing (built, partner connection in progress).
AOG desk & operations watch	Declare AOG from anywhere; time down, ETR, parts and recovery team in one place; grounding conflicts with bookings flagged; post-flight chase; alerts for watched aircraft; daily schedule email.
Billing & customers	Maintenance estimates signed online with optional items, one-click invoice, charter quotes with excise tax, crew expenses with receipt scanning, parts sales orders, quotes and invoices in any currency (daily exchange rates or your own), and a private customer portal with each customer's aircraft, work, estimates and invoices.
Business development	Business Development opens on its Dashboard, with Customers, Contacts and Billing inside it. Companies stay prospects until a deal is won, when it asks for the company details. Leads with prospecting fields (signal, score, drafts, LinkedIn), drag-and-drop spreadsheet import, filters and sortable columns; opportunities, follow-ups and a forecast; a lead becomes an opportunity and then a business case with tasks, owners, deadlines, reviews and after-action reviews. Contracts from templates (including a mutual NDA), signed in order with Avistrata e-signature or DocuSign, with versions, renewals and reports; Closing tracks NDA, license agreement, order, invoice and payment per opportunity. Message templates and an Outbox, with standard templates for every workspace added in one click. Partners and deal registration; two-way Salesforce sync.
Program management	A Program Management workspace: programs, deliverables (with a calendar view), risks, changes, furnished items and off-channel requests, with AI drafts that run in the background; WBS and baseline, earned value from shop-floor hours, a quality link, review packs and reports.
Marketplace	A Marketplace workspace: aircraft for sale (photos, specs, records status, buyer inquiries) and parts for sale (your own listings and a public parts page); a contractor marketplace for contract pilots, A&Ps and IAs, with pilot hours filled from a logbook export, PDF or photo, and reviews with review reminders.
Stores & purchasing	A parts store built for airworthiness: part master with alternates, stock by serial or batch per location, condition and certificate, and a ledger that can't be edited. Requisitions from task

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	cards, AOG and low stock; RFQs, purchase, repair, exchange, loan and consignment orders with approval limits; receiving inspection before issue; vendor bills three-way matched and sent to QuickBooks. Scrapping a tracked part closes its life-limited part record; equipment and MEL items are replaced from stock on a task card. Export-controlled parts (ITAR / EAR) are kept off the web store, Marketplace, the PartsBase file, public photos and MRO Insight. A Marketplaces tab builds the PartsBase inventory file with listing rules and finds a part elsewhere on ILS, PartsBase and Locatory. Stock list per organization with server search; Engineering-approved alternates shown on each part.
Ask & report	MRO Insight answers plain-language questions about your own data with links to the records, on the web and in the apps; report builder, scheduled reports, ADLS analysis and task cost forecasts.
Access & security	Organizations, sub-organizations, groups and bases with their own data; the first user of a new organization becomes its admin; roles per person; two-step sign-in that admins can require; sign-in time limits per organization; SAML single sign-on; PIN and biometric signing with lockout; Face ID or fingerprint sign-in in the apps; invite-only accounts with single-use email links; your own web address; an admin activity log that can't be altered. Organization boundary: each organization's data, people, messages and notifications stay inside it, while parent-organization admins keep managing their client organizations. Security review fixes and content-security-policy reporting; locked passwords on shared demo accounts.
Admin, files & everyday use	Admin → Setup → Integrations lists every outside connection in one place, with status and settings. An Organization Setup checklist and onboarding wizard, an Admin Guide PDF, default classifications with required certificates and FAR references, and codes unique per organization. Trial sign-up with optional sample data (removed in one click), read-only demo accounts, and the customer license agreement signed online. Files with folders, tags, a sortable table, suggested sorting, bulk move, drag to a folder, drag-and-drop upload of several files and email attachments from Files. Every list is a table: click a heading to sort, alternating rows, long lists scroll in their own box with pinned headings. On a phone, tabs stay compact and visible, tables become cards and form fields fit. A short menu bar for crew, mechanics and flight school roles who aren't admins; the same page header and icons on every page; floating Save / Close on long forms; Weekly Plan and Shared Tasks link to a work order, task card or Business Development, Program Management or Engineering record.
Mobile apps, offline & text	The Avistrata mobile app for iPhone, iPad and Android comes in 5 flavors: Admin, Pilot, Mechanic, Student and FAA; the flavor follows each person's sign-in and role. Pilot: flights, releases, FRAT, W&B, logbook, trip planner, airport info, post-flight check-in and a flight recorder that logs GPS track, times and g-loads with no signal. Mechanic: task cards with PIN sign-off, QC and RII, a lock-screen labor clock, tool checkout and parts issue. Admin: Maintenance, Operations and Business Development. Engineering in the Admin and Mechanic apps: requests with camera photos, the damage diagram, the library with files, orders and Home tiles. Student: bookings, training and balance, next flight on the Lock Screen and "I'm here" check-in. Face ID, signing logbook entries, a calendar, widgets and training completion with a certificate. Changes and sign-offs queue offline. The free FAA flavor classifies major and minor repairs under Part 43 Appendix A. Text Avistrata for status and next flights.

Integrations

Connects with	What it does	Status
ForeFlight	Flight times and logbook import	Available
Flight tracking	Live Flightradar24 position and history for booked and watched aircraft	Available
Text messaging	Two-way texts and alerts	Available
CAMP	Due List import into Maintenance Due; direct sync rolling out	Import available
QuickBooks Online	Invoices and payments to your books	Rolling out
Stripe	Online card payment of invoices	Rolling out
DocuSign	Envelope signing for estimates and contracts, signed in order (built-in signing works today)	Rolling out
FlightBridge	Hotels, cars, FBO and catering for trips and AOG teams	Rolling out
Legacy MRO systems	Secure sync agent for work orders, task cards, labor and parts	Available

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Salesforce	Two-way CRM sync: leads, accounts, contacts, opportunities	Available
FAA NOTAM service	NOTAMs in airport info, from the FAA NOTAM Management Service	Available
FAA aircraft registry	New aircraft filled in from the tail number (daily FAA download, plus Canada's register)	Available
Garmin / JPI engine data	Engine data logs imported into the aircraft's Flight Log, with graphs, trends and exceedances	Available
PartsBase, ILS, Locatory	PartsBase inventory file with listing rules; "Find elsewhere" part search on ILS, PartsBase and Locatory	Available
Expensify	Contract flying trip expenses sent to the pilot's own Expensify	Available
Lead spreadsheets	Drag-and-drop lead import from a spreadsheet (Gojiberry-ready)	Available

Admin → Setup → Integrations shows every outside connection in one place, with its status and settings.

Editions

Edition	For	Includes
Avistrata Operators	Part 91 / 135 and special-mission operators with their own maintenance	Maintenance, flight ops, crew, AOG, billing; priced per aircraft
Avistrata Workshop	Part 145 repair stations and shops	Maintenance, task cards, tools, customers, estimates and billing; priced per user
Avistrata Independent	Independent A&P / IA mechanics	Up to 20 aircraft, 2 users, maintenance, billing, customer portal and owner reminders
Avistrata Light	Small fleets and flight schools	Up to 3 aircraft, 2 users, maintenance; sign up online, 14-day free trial, $275 a year
Avistrata Flight School	Part 61 / 141 schools and rental fleets	Training records, endorsements, booking rules, rental billing; licensed per organization
Enterprise	Large operators and government	Everything, with SSO, onboarding and data sync

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