FA

FLIGHTS & AIRCRAFT SOLUTIONS

Optimize your aerial operations with full safety

Summary

About us

FA Solutions is a French company specializing in the development of flexible and innovative software solutions, perfectly adapted to the requirements of the aeronautics sector.

Some members of our team have **over 30 years** of combined industry experience. We design comprehensive, high-performance, and technologically advanced tools, tailored to the specific needs of modern aviation and helicopter operations.

Our team

FA Solutions' expertise is based on a multidisciplinary team that encompasses all the key skills required for the success of our solutions:

Technical Experts: Specialists in the development and maintenance of complex systems, they ensure the robustness, reliability, and performance of our software platform.

Marketing Team: Through targeted analyses, we optimize the user experience and facilitate the rapid adoption of our tools by your teams.

Trainers: We offer comprehensive training programs to ensure rapid and effective implementation of the solution.

Regulatory Specialists: Our in-depth understanding of regulatory frameworks ensures the compliance of our tools with current standards.

Operational Managers: They ensure that every aspect of using our solutions is simple, seamless, and efficient, to optimize your daily operations.

Fabrice LOURME

brings valuable expertise, consolidated by numerous certifications, specialized training and years of experience in the demanding field of air operations.

Its technical and operational know-how, combined with a detailed understanding of regulatory and field issues, positions the company as a key player in the market.

Your challenges

In the field of air operations, you face multiple and demanding constraints:

Secure your air operations *while complying with complex aviation regulations.*

Optimize passenger distribution on each flight while ensuring operational safety and compliance.

Efficiently manage your resources: *crews, passengers, cargo, maintenance, and documentation.*

Ensure reliable traceability of your flights, completed tasks, and required authorizations.

Streamline administrative tracking with compliant, easily usable documents (flight logs, flight schedules, and OFP archiving).

Have easy-to-use tools *that fit your organization and reduce the risk of errors.*

Our solutions

FA Solutions' products are purpose-built to meet these challenges:

- *Integrated flight management: planning, monitoring, and generation of regulatory documents (weight-and-balance sheets, flight folders, flight logs, etc.)*

- *Automated weight-and-balance calculation: a quick, user-friendly tool that finds the optimal load distribution for each flight, factoring in aircraft configuration.*

- *Crew and passenger management: tracking pilot qualifications (recurrent, non-recurrent, type ratings, special), ground personnel, and more.*

- *Maintenance tracking: via the e-CRM, schedule AD/SB limits, periodic inspections, and MEL tasks.*

- *Traceability and archiving: secure storage of flight dossiers (weight-and-balance sheets, tickets, NOTAMs, NOTOCs, weather briefings, …).*

- *Regulatory compliance: tools designed around authority requirements to guarantee up-to-date, compliant documents.*

- *Customization: adapts to your fleet, procedures, and business specifics to match your exact needs.*

- *Ergonomics: a clear, intuitive interface that your teams can master quickly, ready for EFB certification.*

Our software

Our solution is designed to support helicopter operators in day-to-day management fully compliant with EASA CAT/SPO operations.

The software enables rigorous control of every parameter required to plan and conduct a flight under optimal safety conditions.

Conceived as a complete, intuitive platform, it delivers a set of key features that ensure optimal management of flights, maintenance, and safety.
Here is an overview of the software's main capabilities:

The software & its features

Its features

- **1. Real-Time Flight Monitoring**

Flight schedule management: *Track planning, register passengers, follow flight status, and process billing.*

- **2. E-logbook (Maintenance & Interval Management)**

Flight logging: *Technical time, customer time, and flight-log details.*
Maintenance tracking: *Automatically schedule inspections and servicing based on flight hours and MEL limits.*

- **3. Personnel Qualification**

Training file scheduling: *per-department configuration of deadlines for recurrent, non-recurrent, and type-rating training within the airline.*

- ### 4. Billing

Comprehensive flight-data tracking with invoicing: *each flight is linked to the e-CRM to generate accurate bills.*

Booking connector: *flights approved for online sale can be booked and paid for directly on your website; the software automatically delivers boarding passes.*

Agency commission management: *monitor master contracts for commissions and vouchers.*

- ### 5. Ergonomic User Interface

Simplified access: *a clear, intuitive interface available on all devices (desktops, tablets, mobiles).*

Ease of use: *designed for smooth adoption by everyone involved, from pilots to fleet managers.*
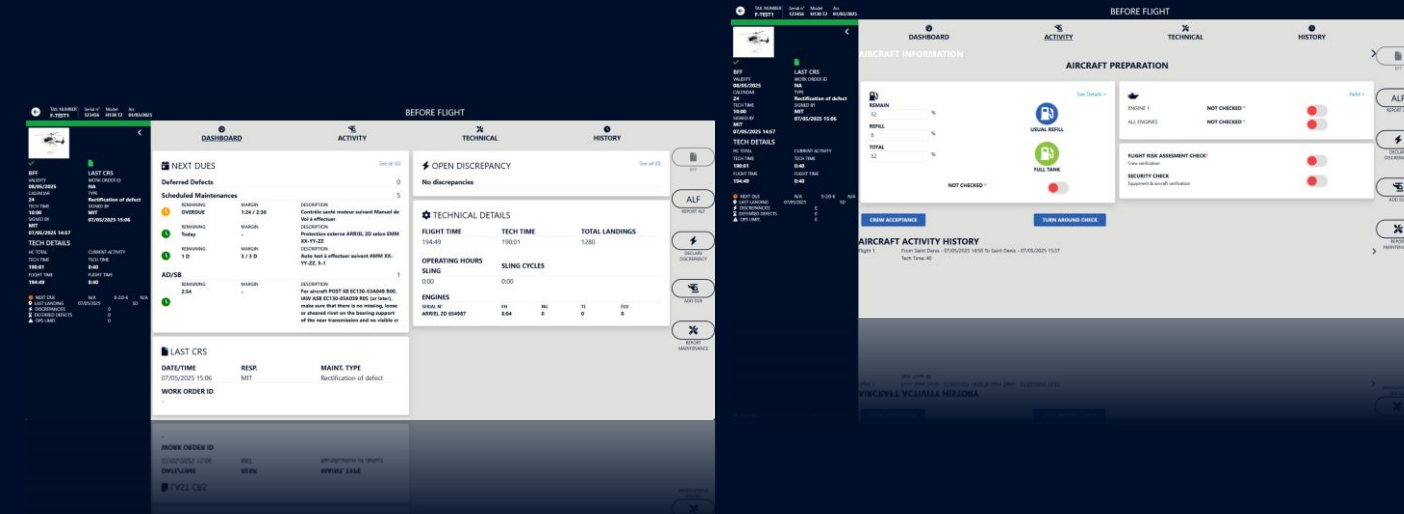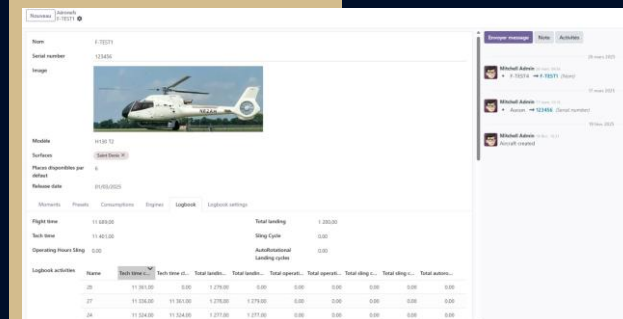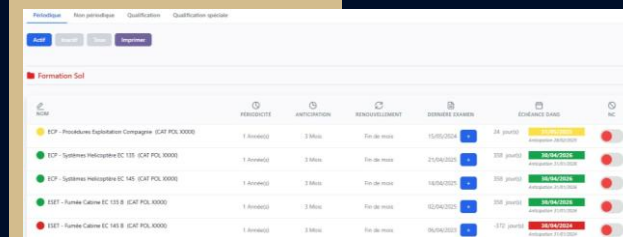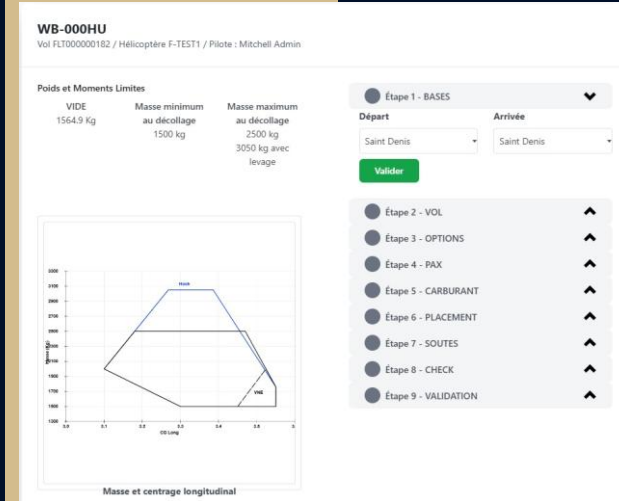
- ### 6. Maximum Security

Data protection: *advanced encryption protocols safeguard sensitive information.*

Security alerts: *notification system to anticipate risks or detect any operational anomaly.*

- ### 7. Technical Support & Updates

24/7 assistance: *dedicated support team for technical issues or usage questions.*

Automatic updates: *keeps the software cutting-edge and compliant with regulatory requirements.*

Why choose us ?

AIR OPS COMPLIANCE
(CAT, SPO, NCO and
manufacturer requirements)

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2 **Fast execution of weight-and-balance calculations**

Optimized administrative
management **3**

4 **Customization to customer-specific requirements** (aircraft, terrain, mission)

5 Secure archiving

6 **Accessibility** (multi-user, PC/tablet/phone compatibility)

Contact & project monitoring

FLIGHTS & AIRCRAFT SOLUTIONS

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Datasheet – Server Infrastructure

Prerequisites for on-premise installation of the FA Solutions software

Architecture technique

- **Software base :** Odoo 18 CE (Community Edition)
- **Deployment environment :** k8s on 3 nodes on 3 servers minimum
  - Node01 : HA Nginx
  - Node02 master : pods app (from 1 to 10), PostgreSQL, redis, minio (S3)
  - Node03 slave : pods app (from 1 to 10), PostgreSQL replicated, redis, minio (S3) replicated

Host requirements (physical or virtual server)
Recommended processor (Intel Xeon or equivalent)

Users	Minimum	Cores / Threads	Frequency (base)	Cache	Score PassMark min.
Up to 20	Xeon E-2386G	6 / 12	3.5 GHz	12 MB	> 20 000
Up to 50	Xeon Silver 4316	20 / 40	2.3 GHz	30 MB	> 30 000
Up to 100	Xeon Gold 6348	28 / 56	2.6 GHz	42 MB	> 50 000
Over 100	Contact us				

RAM

- **Type :** DDR4 ECC (Error Correcting Code)
- **Quantity :** 4 GB + 300 MB per user
Example for 50 users → 4 GB + (50 x 300 MB) = 19 GB RAM

Storage

- **Minimum disk space :**
  - 20 GB available for the application
  - 80 GB if the Qualification module is used
  - 5 GB if the E-Logbook is used
- **Recommended storage type : SSD (NVMe recommended for higher I/O performance)**

Datasheet

Bandwidth

• **Minimum per user :** 2Mb down / 250kb up
• **Recommended per user :** 5Mb down / 1Mb up

System & network

• **Preferred OS**
 - Debian ≥ Bullseye (v11)
• **Preferred web server**
 - Nginx
• **Ports to open**
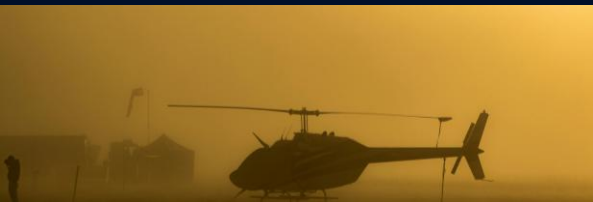 - 443 (HTTPS)
 - SSH (port of your choice)

Backup

• **Local or external (optional)**
 - Full daily backup with 5-day retention
 - Extended history available as an option

Client-side prerequisites

• **Browser**
 - Up-to-date Chromium based (Chrome, Edge…) or Mozilla Firefox
• **RAM**
 - At least 1 GB available
• **Supported platforms**
 - Windows or Linux PC
 - macOS
 - Android
 - iOS

These specifications are indicative and may vary with module usage and data volume. A detailed sizing will be performed during the project study.

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