



skywise. The beating
heart of aviation

AIRBUS



The Skywise ecosystem

Created with the vision to connect the aviation industry and accelerate its digital transformation, Skywise is an open data platform that connects both in-flight, engineering and operational data in an analytic-rich environment.

At its heart, Skywise is about making the right information available at the right time. It leverages the massive amount of data previously locked in company and functional silos across the industry, to create value for all of its players.

Skywise Core

Internal data silos and a high degree of data complexity create inefficiencies, undue costs, and impede effective collaboration with other organizations in the aviation value chain. Fuelled by Palantir Technologies, Skywise Core is the backbone of the whole Skywise infrastructure.

Skywise Core is designed specifically to overcome these challenges and allows airlines to capture, transform, aggregate and arrange these pieces of data into a meaningful picture. Airlines can start on Skywise Core with no initial investment and get tangible results in few weeks!

SKYWISE CORE: TRANSFORMATION & ANALYSIS

INTEGRATE

ANALYZE

OPERATIONALIZE

SKYWISE DATA FOUNDATION

OPERATIONS
DATA

MANUFACTURING
DATA

ENGINEERING
DATA

PRODUCTION
DATA

SUPPLIER
DATA

REPAIR
DATA

IN SERVICE
DATA

MAINTENANCE
DATA

Skywise Core

- **Integrates and connects all data from across the organization**, regardless of size or format (MIS, Flight Operations databases, QAR/SAR/DAR, spreadsheets, PDFs, ...).
- **Provides best-in-class analytical tooling** for technical and non-technical users: by visualizing, exploring, reporting and investigating data right out of the box, users translate data into insights that are relevant to their daily business.
- **Offers a suite of plug-and-play workflows** that deliver value immediately, developed in partnership with airlines currently using the platform.
- **Enables secure collaboration and sharing** to facilitate troubleshooting among Airbus, airlines, and suppliers.

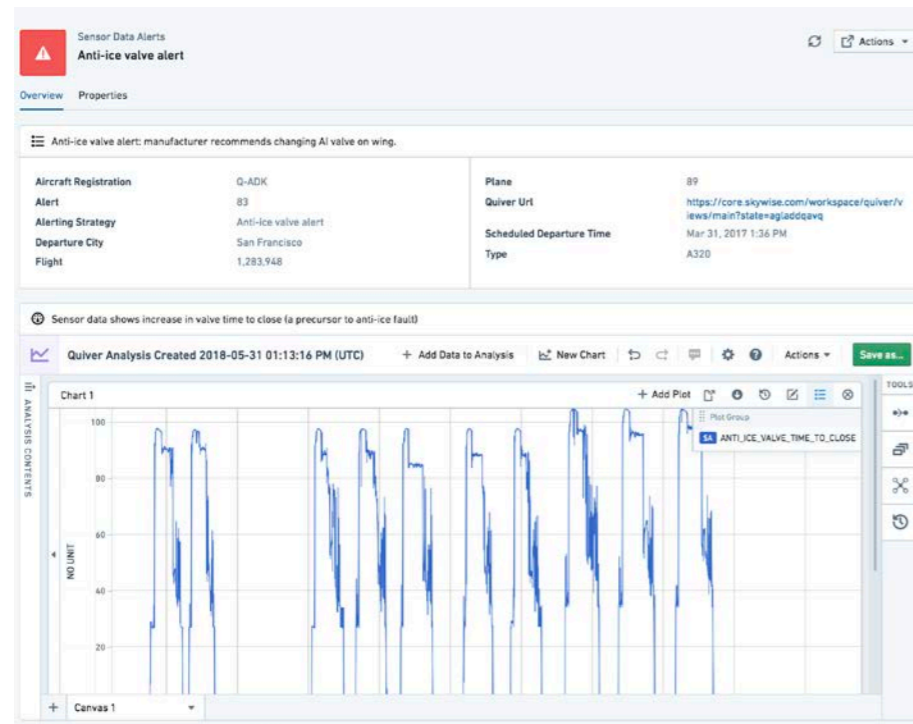


Explore aircraft data

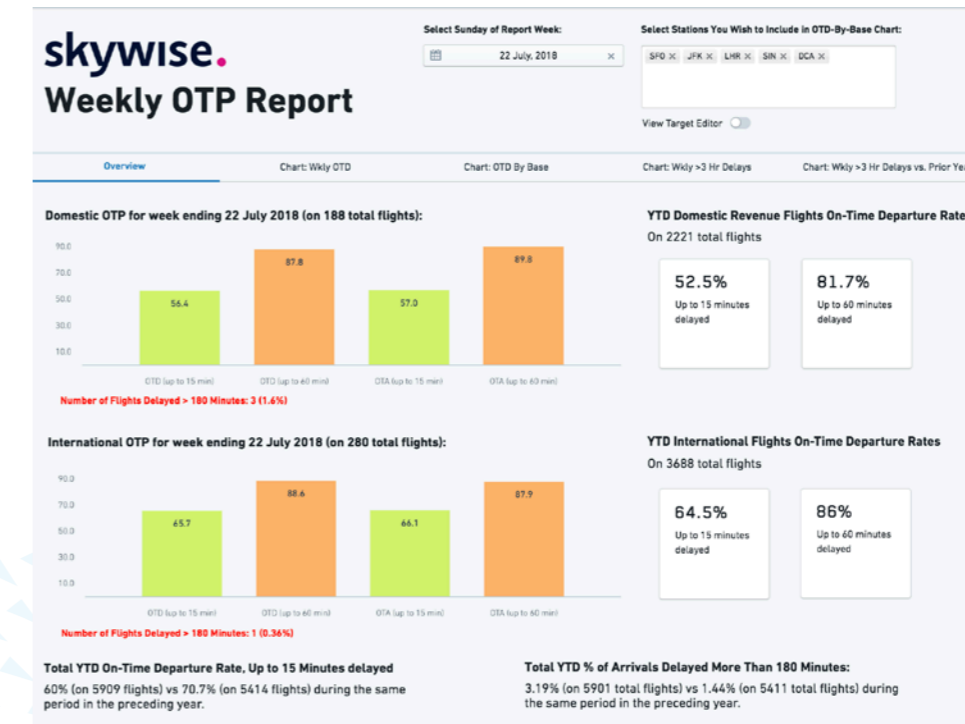
The screenshot displays the Skywise Aircraft Q-AFM interface. The main content area shows a table of defects with columns for Title, Defect Description, ATA, Type, and Main. The table lists various defects such as 'IDG FILTER REPLACED AS PER...', 'ENG2 IDG TEMP HI', 'EGR TEST CARRIED OUT.', 'OIL LEVEL CHECK PERFORMED', 'IDG REPLACED', 'F/CTL AIR SER FAULT', 'ENG 1 FUEL LP VALVE FAULT', 'PLASTIC COVER OF SLIDE PRES...', 'F/CTL. FLAP SYS. 1 FAULT', 'DURING DY CHK FOUND HYD LE...', 'NO 2 ENGINE IDG TEMP INCREA...', 'IFE SEAT 4J NOT OPERATIONAL', and 'F/CTL AIR SER FAULT'. The sidebar on the left includes a 'Keyword' search bar, an 'Add filter' button, and a filter for 'ATA' with a bar chart showing a distribution of values. The chart has a y-axis ranging from 0 to 2000 and an x-axis with a value of 50. Below the chart are input fields for 'min value' and 'max value'. The sidebar also includes a 'Defect Description' filter and a 'Show 1 active filter' button.

TITLE	DEFECT DESCRIPTION	ATA	TYPE	MAIN
IDG FILTER REPLACED AS...	IDG FILTER REPLACED AS PER ...	24	Pilot detected	Nov
ENG2 IDG TEMP HI	ENG2 IDG TEMP HI	24	Pilot detected	Nov
EGR TEST CARRIED OUT.	EGR TEST CARRIED OUT.	24	Pilot detected	Nov
OIL LEVEL CHECK PERFO...	OIL LEVEL CHECK PERFORMED	24	Pilot detected	Nov
IDG REPLACED	IDG REPLACED	24	Pilot detected	Nov
F/CTL AIR SER FAULT	F/CTL AIR SER FAULT	27	Pilot detected	Nov
ENG 1 FUEL LP VALVE FA...	ENG 1 FUEL LP VALVE FAULT	28	Maintenance personnel detected	Nov
PLASTIC COVER OF SLIDE...	PLASTIC COVER OF SLIDE PRES...	25	Pilot detected	Nov
F/CTL. FLAP SYS. 1 FAULT	F/CTL. FLAP SYS. 1 FAULT	27	Maintenance personnel detected	Nov
DURING DY CHK FOUND H...	DURING DY CHK FOUND HYD LE...	29	Maintenance personnel detected	Nov
NO 2 ENGINE IDG TEMP IN...	NO 2 ENGINE IDG TEMP INCREA...	24	Pilot detected	Nov
IFE SEAT 4J NOT OPERATI...	IFE SEAT 4J NOT OPERATIONAL	46	Maintenance personnel detected	Nov
F/CTL AIR SER FAULT	F/CTL AIR SER FAULT	27	Pilot detected	Nov
DEFECT DESCRIPTION	DEFECT DESCRIPTION	24	Pilot detected	Nov

Analyze time series data



Build live reports and custom dashboards



Airbus expertise
combined with
Skywise powerhouse



Skywise Digital Services

Skywise Digital Services leverage Airbus expertise to address common pain points across airlines and support their operations.

Co-designed with airline members of the Skywise community, Skywise Digital Services continuously evolve to include additional capabilities and cover a growing scope of use.

Skywise Predictive Maintenance

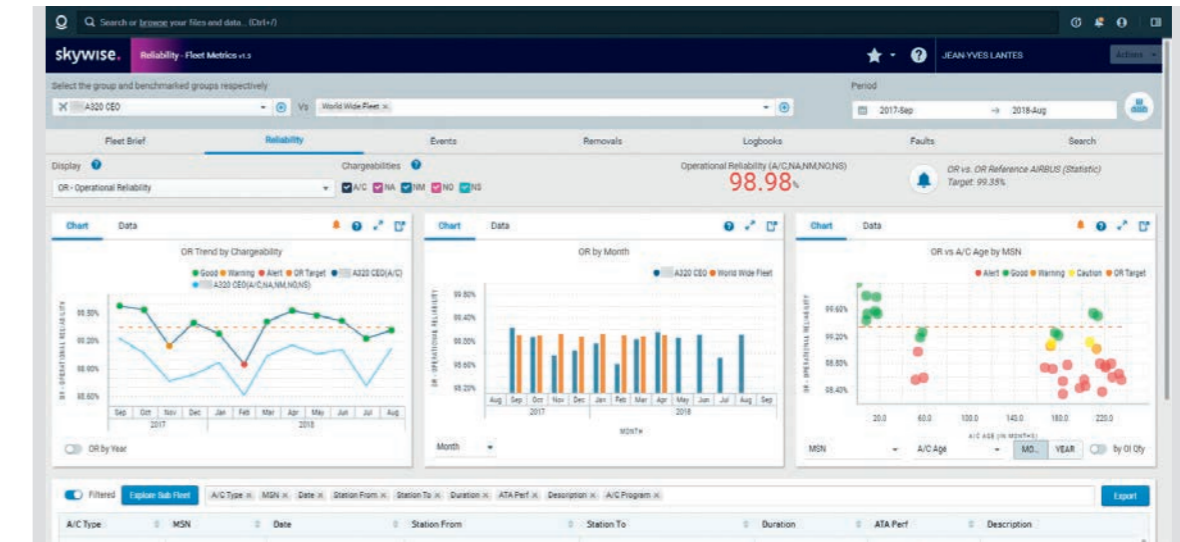
is a unique combination of aircraft design knowledge and airline operational expertise running on massive amounts of data generated by the Airbus fleet. Skywise Predictive Maintenance provides early alerts of upcoming system degradation and required servicing, supports preventive actions planning and tracking, with the objective of anticipating failures and reducing operating risks.



Skywise Reliability

integrates all relevant fleet-wide data and drastically simplifies all type of reliability analysis:

it offers an intuitive point-and-click environment to explore fleet metrics, identify and analyse fleet issues, measure and benchmark fleet performance against the worldwide fleet.



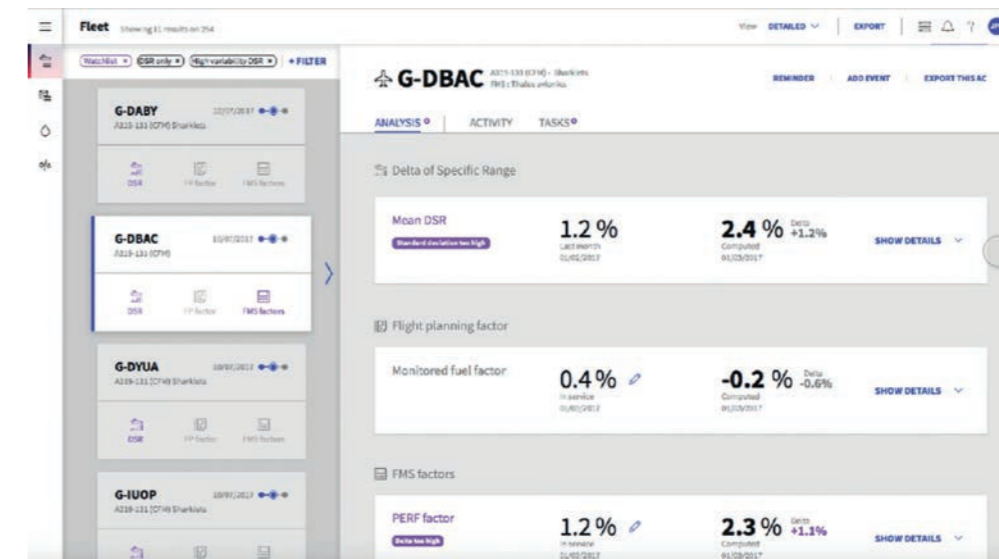
Dynamically coupled with Skywise Reliability and Skywise Predictive Maintenance alerts, **Skywise Health Monitoring** improves the overall fleet availability by managing aircraft events and their associated troubleshooting in real-time, allowing prioritization and tracking to increase the dispatch reliability.

The screenshot displays the Skywise Cockpit Alerting interface. At the top, there are navigation tabs for 'Cockpit' and 'Alerting', and a user profile 'SHM-AIB-USER-01' with a 'Privacy policy' link. Below the navigation, there are filters for 'Event Bank' (W, C1, C2, P, DR, SE) and 'Workflow Status' (Review, Opened, Medium - Low, Discontinue). A search bar and 'Sort by: Date & Time' are also present. The main content area shows a list of 6 events, each with a status icon (Warning, Error, or Opened), aircraft ID, date, time, and description. The events are as follows:

Status	Aircraft ID	Date	Time	Description	Action
Warning	O-18JB AIB2111018	11 Oct 2018	17:06	VENT BLOWER FAULT	Review + Add a comment
Warning	O-15JB AIB2111018	11 Oct 2018	17:05	VENT BLOWER FAULT	Review + Add a comment
Warning	OY-4A1 SHM300	09 Oct 2018	22:04	NAV GPS2 FAULT	Opened Work Ref: w123 Work to be planned before October 31
Warning	OY-4A5 SHM203	08 Oct 2018	02:34	AUTO FLT AP OFF	Opened Work Ref: w345 Request sent to DO
Warning	OY-4A3 SHM204	07 Oct 2018	17:44	FUEL CTR TK PUMP 2 LO PR	Opened Work Ref: w234 Airt reproduction: 3000 for 10 flights
Warning	OY-4A2 SHM226	07 Oct 2018	09:54	ENG 2 START VALVE FAULT	Review + Add a comment

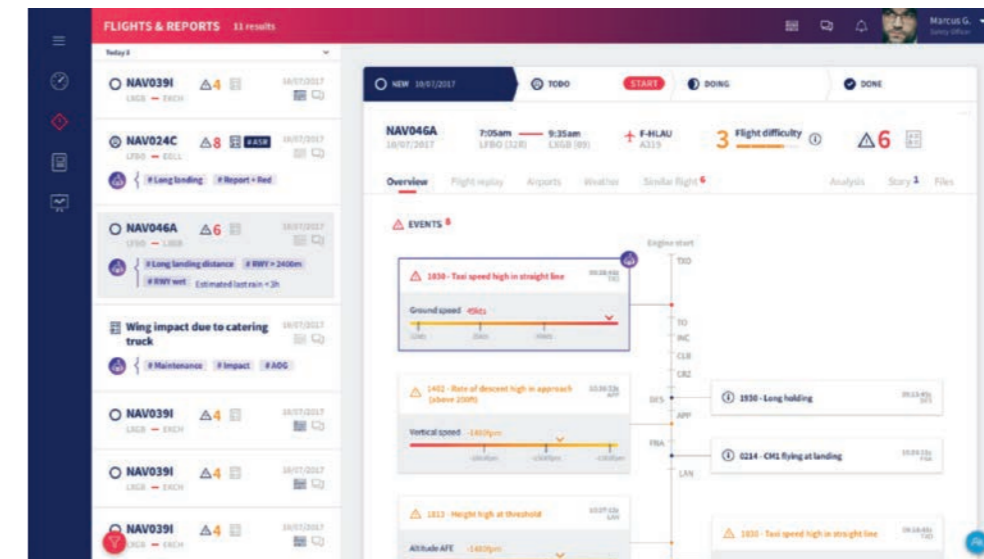


Analytics – OPTIMIZE is the first tail-centric suite of applications leveraging aircraft data to improve individual aircraft performance. Analytics – OPTIMIZE computes an optimized IDLE factor and an automatic PERF factor to be set in the Flight Management System, based on the real individual performance of each aircraft.





Analytics – PREVENT
renews Flight Operations
and Safety. It combines Flight Data
Analysis and Safety reporting in one
single tool to cope with the most
demanding Safety Management System
requirements, thanks to one-of-a-kind
innovative functionalities.



Connecting your aircraft

Our in-service fleet is already an incredible source of data.

With the objective of increasing drastically the volume of sensor parameters available for analysis, aircraft connectivity has become a strong pillar of Skywise: as started with the A350, our mission is to ensure that every bit of data generated by an Airbus aircraft is used on-ground to create value.

Now with the A320 and A330 fleet, Airbus continues the journey with FOMAX (Flight Operations and Maintenance Exchanger). FOMAX couples nose-to-tail connectivity with a fully integrated data pathway to Skywise: unrevealed amounts of aircraft sensor data are now securely captured, transmitted and analysed by platform users.



Our customers say it best



We want to become a technology airline, and we are thrilled by what we see. Skywise will enable us to reach new insights into the operation of our aircraft, optimise our maintenance, engineering, and flight options decision making; and reduce our costs.

Tony Fernandes
AirAsia Group CEO



Our investment in the Skywise platform can really make a tangible difference for thousands of passengers by harnessing the power of big data to reduce delays. It will transform the way that we maintain and operate our aircraft with the long-term aim of eliminating delays due to technical faults.

Johan Lundgren
CEO of Easyjet

Skywise Core
empowers airlines,
suppliers & Airbus
to **increase reliability,**
improve safety and
decrease operating costs
by connecting the industry's
in-flight, engineering
and operations data.



Why airlines choose Skywise

Decrease costs

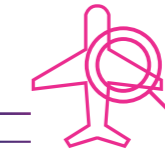
Beyond the significant time-savings of automated reports, Skywise airlines have also: optimized flu-over costs, increased money-back from warranties, optimized contingency fuel, to name a few examples.

Increase reliability

Skywise airlines have increased reliability by improving parts inventory, line maintenance tasks and proactive defect management. One airline reported 20 fewer Aircraft on Ground per year thanks to Skywise!

Improve safety

Interpreting safety data to understand trends and compliance is challenging. Using Skywise, one carrier with ~ 100 aircrafts reduced time spent on monthly reporting from 3 weeks by a team of 8 to less than 1 day by one engineer.



Why users love Skywise

Analyse

Skywise users can investigate or analyze across systems on one platform - giving one big picture of all your data. You can also analyze more data than before. For example, one airline tracked 89 parts inventory in 10 hours before Skywise and now can track 3566 in under an hour!

Collaborate

Skywise users collaborate across teams in real-time. Users never have to worry about looking at the latest version of a report, dataset or spreadsheet. One airline's engineering team reduced time spent versioning a task management spreadsheet from 2 days to zero, thanks to Skywise.

Automate

Once you build a report, create a search or add an app you can simply save it for next time and it will update automatically. You don't need to build the same report twice or update the data. An airline Flight Ops team saves 2.5 days a week of reporting thanks to Skywise. Now they create the report in 2 clicks and can focus on taking action!

OUR VISION

The ambition of Skywise is to **create shared value** for the **entire aerospace industry**, becoming the open data platform of reference used by all major aviation players to improve their **operational performance** & support their own **digital transformation**.

Conclusion

Over the past two and a half years, Skywise has grown from a concept to the most robust data asset in the aviation industry.

To maximize the value created by Skywise across the industry, Airbus will continue to grow it as a true open ecosystem, bringing together stakeholders around the shared goal of more efficient, reliable, greener and comfortable air transportation, and deeply involving its customers in the development of Digital Services.

For more information on Skywise, please visit services.airbus.com

[#letsgetdigital](#)



skywise.



How to start

skywise@airbus.com

