



3DEXPERIENCE

AEROSPACE & DEFENSE **LICENSE TO FLY** Certify on time



HOW CAN YOU ACHIEVE TYPE CERTIFICATION ON TIME?

Today, much of the Aerospace and Defense industry is at risk from disruption due to a flood of new startups, the arrival of new competitors, the emergence of new technologies, and the tightening of regulations. Innovation is a necessity but comes with a cost, as the increased complexity of aircraft (use of composites, advanced electrical systems, global suppliers, personalization, etc.) makes it more challenging for aerospace OEMs, suppliers and aviation authorities to certify aircraft and ensure passenger safety.

License to Fly, by Dassault Systèmes, transforms how you execute Aircraft Certification Projects to:

- Achieve Type Certification on time
- Reduce overall cost to certify by 25%, and
- Build confidence with authorities to potentially reduce the number of audits

SIMPLIFYING THE END-TO-END CERTIFICATION PROCESS

Today's certification process is highly fragmented and lacks a single version of the truth between engineering and certification organizations. This fragmentation persists as a lack of visibility between companies, the aviation authorities and operators. The result is a highly inefficient process for both startups and established OEMs alike, with little reuse from one program to another. Regulation becomes a barrier to innovation due to high costs and complexity with more risk for delays.

OVER 30% OF CERTIFICATION PROCESS TIME IS SPENT ON NON-VALUE ADDED ACTIVITIES

- Prepare presentations – 1%
- Obtain approvals – 1%
- Check-in, Check-out, Create Context – 5%
- Collate information from multiple systems – 5%
- Collect and distribute information to suppliers – 6%
- Internal Meetings – 8%
- Follow up on issues, status, approvals – 8%

License to Fly powered by the **3DEXPERIENCE®** platform, accelerates the certification process in four areas while ensuring aircraft safety remains the primary objective.

First, **License to Fly** speeds up the Application-Basis phase and better prepares Type Certificate board meetings using a common platform that aligns engineering and certification teams, automates the search and collection of regulations, standards & recommended practices, and that makes it possible to standardize certification methods across the supply chain.

Second, the solution builds Certification Dossiers "on-demand" with full traceability from requirements to test records, across engineering and the supply-chain with controlled access to a common platform. Leverage this same platform to enhance exchanges with authorities and to track submission feedback.

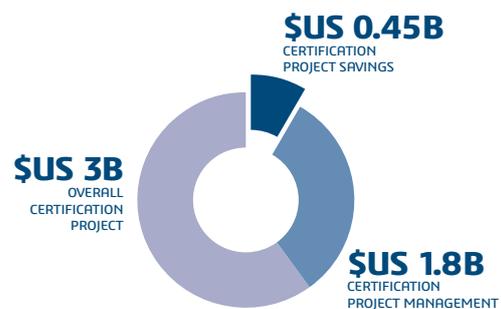
Third, it assesses certification status across the entire value chain and actively drives execution using simple and dynamic dashboards to pilot each certification project. Live status to key performance indicators and the ability to drill-down to the source for each ensures transparency and timeliness.

Last, **License to Fly** enables you to maintain and reuse certification knowledge to enforce certification methods within the organization and across the supply chain for Means of Compliance, Recommended Practices, templates, etc. Reusing certification content allows engineers to avoid "starting from scratch" for each new project, saving time and reducing exposure to surprise audits.

CUT CERTIFICATION COSTS

Leveraging the capabilities of **License to Fly** to execute certification projects can reduce both recurring and non-recurring costs. From a total certification project investment of \$3B, you can cut certification costs by about 15% or \$450M for a commercial aircraft program. With the **3DEXPERIENCE** platform to manage your certification project, you can reduce:

- number of people
- number of audits
- number of late stage design changes
- time to freeze Compliance Basis: from 16-18 months to less than 12
- time to produce proof of compliancy documents



ACHIEVE CERTIFICATION ON TIME

Whether you are an aerospace startup or established OEM, **License to Fly** can help you achieve type certification on time and significantly cut costs while ensuring aircraft safety. With this newfound control over the certification process, companies can more readily adopt new technologies and new processes to drive innovation for a competitive advantage.

Contact us to learn how at <http://www.3ds.com/License-to-Fly>

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE®** Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 210,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

