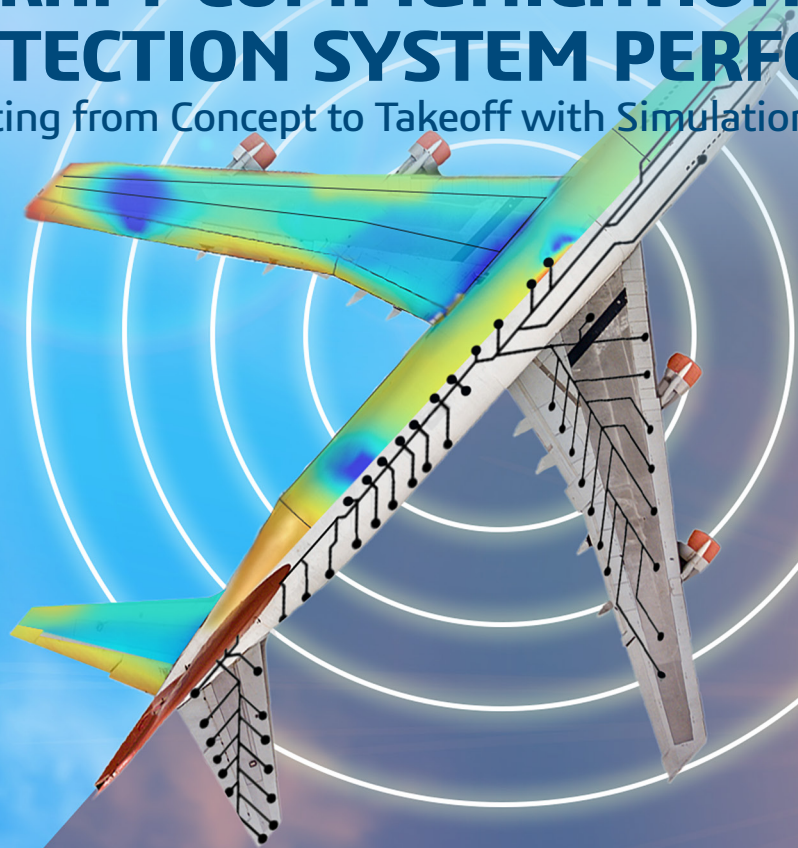


AIRCRAFT COMMUNICATION & DETECTION SYSTEM PERFORMANCE

Accelerating from Concept to Takeoff with Simulation



Aircraft Communication and Detection System Performance enables the development and virtual validation of antenna concepts, assessing the antenna performance when installed on the aircraft, and minimizing interference problems due to multiple co-existing radio systems, at a very early design stage. This leads to better performance and reduces overall device design time.

Engineers from multi-disciplinary teams can synchronize the antenna, electronics, and mechanical CAD design data to provide digital continuity, from requirements to architecture to component design. They can leverage best-in-class project and product management tools to improve new aircraft communication system designs and ensure compliance to functional and safety standards.

INDUSTRY CHALLENGES

Safely and profitably introduce innovative and reliable radio frequency communication and detection solutions.

- Extended frequency spectrum use
- Increasing number of antenna systems
- New lightweight composite materials

Reduce certification and testing costs while ensuring highest level of quality and security.

Facilitate knowledge transfer and intellectual property protection within the workforce and with the partners.

BENEFITS AND DIFFERENTIATORS

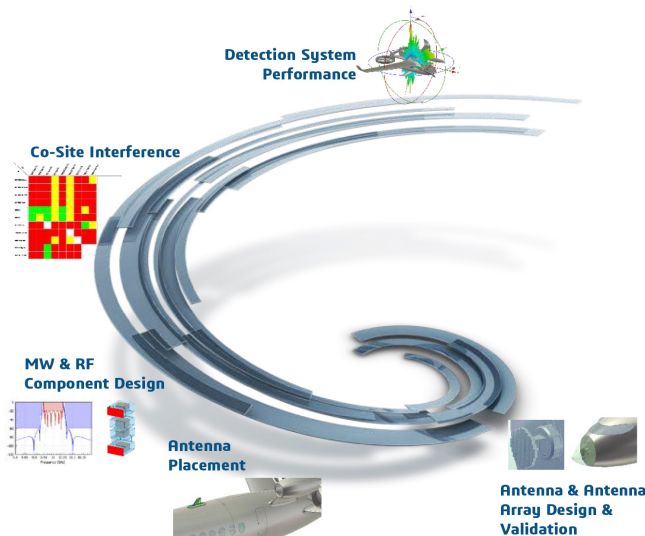
Rapid development and validation of communication systems at physical and system level

Reduction of physical testing through high accuracy multi-scale simulation

Reduce time to market by virtual compliance testing

Improve product quality by effective collaboration between multi-disciplinary teams

WORKFLOWS



Our 3DEXPERIENCE® platform powers our brand applications, serving 11 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 250,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.



KPIs

Reduce development time: validate antenna performance within minutes

Reduce cost by minimizing in-flight and ground-based physical testing

Improve safety and performance of co-existing communication systems

Reduce risk of failing certification tests through high accuracy simulation

USERS

Antenna engineers, RF engineers, system integration engineers, EM engineering specialists