

## CONNECTIVITY

*For the civil as well as the defense world, systems and platforms connectivity is a major stake. Network-centric combat, virtual plateau, MRO, communications, seamless connections for business jets passengers: they all require expertise in the latest datalinks solutions.*

### Network-centric combat aircraft

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Dassault Aviation is the lead contractor on the New- Generation Fighter (NGF). Dassault Aviation and Airbus Defence & Space united their strengths on the Future Combat Air System (FCAS) in April 2018. This networked system will integrate the New- Generation Fighter, current fighters, drones, cruise missiles, satellites and surveillance aircraft, along with land and naval systems.

The F4 standard OF THE Rafale was launched in January 2019, and concerns enhanced connectivity, survivability, combat capabilities and dispatch reliability. It should be completely validated in 2024, and some functions will be available as early as 2022.

### Development of large airborne systems

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By “collaborative system engineering”, we mean using a shared digital model to coordinate everybody involved in the development of large airborne systems. This approach was applied to the modernization of the ATL2 maritime patrol aircraft, using the System PLM digital platform, and is now being used on all of our new programs. The system digital model also provides a way of integrating security and data privacy criteria very early in the process.

Dassault Aviation is also connected to the secure digital platforms for system engineering deployed by the French defense procurement agency DGA and its partners, expanding possibilities for the joint development of major weapon systems.

### Falcon Connections

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Our top priorities are naturally safety and the customer experience, especially in terms of providing the best possible work and communications environment. Here are some of the solutions we have developed to meet these goals.

FalconSphere II is an integrated Electronic Flight Bag (EFB), a solution that considerably simplifies and shortens the flight planning process based on a tablet with multiple applications, including a Weight & Balance Module, Electronic Cruise Computation and FalconPerformance.

FalconConnect is the new integrated solution for managing communications and data exchanges between the aircraft and ground networks. It offers clear and flexible connectivity packages for both passengers and operators. This service is available on all our new aircraft and, starting this year, it can be retrofitted on all others.

JetWave, a high- speed broadband antenna, allows passengers to surf the Web, watch videos, or participate in videoconferences anywhere in the world, including during trans- oceanic flights, via the Inmarsat Global Xpress network.

FalconTalk is a very user- friendly application that allows the simple use of mobile phones on the plane.

Falcon Broadcast gives support staff technical information in real time, so they can plan ahead, according to scheduled stopovers, for any servicing needed. The upshot is improved dispatch reliability for our airplanes.