

Teamcenter

Lockheed Martin Aeronautics

Global F-35 aircraft coalition builds unique collaboration network

Industry

Aerospace and defense

Business challenges

Link three primary industrial partners, plus up to 1,000 suppliers in 30 countries

Ensure compliance with ITAR and proprietary control procedures; reduce cycle time significantly; lower operations costs for 30-year lifespan

Keys to success

Employ robust, scalable and secure collaboration solution – web-centric for integrated digital environment

Improve knowledge re-use

Manage and automate development processes with workflow capabilities

Results

Real-time online global collaboration

ITAR compliance

Over 6,500 global users

Teamcenter delivers global innovation, U.S. ITAR compliance

The world's first truly international, integrated digital environment complies with U.S. ITAR requirements to design, manufacture and sustain the Joint Strike Fighter F-35 aircraft

The F-35 Program – led by Lockheed Martin – is designed to provide the U.S. Air Force, Navy and Marine Corps, and the U.K.'s Royal Navy and Royal Air Force with an affordable and stealthy tactical aircraft for the 21st century.

Lockheed Martin is partnering with U.S. and international aerospace leaders, including Northrop Grumman and BAE Systems as well as almost 1,000 suppliers. In all, the parties involved in the production of the F-35 reside in more than 30 countries, spanning 17 time zones.

The F-35 team turned to the 21st-century product lifecycle management (PLM) technology of Teamcenter® software to meet its program challenges. The first phase of the F-35 Collaboration Network deployment linked 5,000 users at facilities owned by the three primary partners and Stork Fokker of the Netherlands.



These users are connected to the system with appropriate security safeguards to ensure compliance with U.S. International Traffic in Arms Regulations (ITAR) requirements. Teamcenter rules ensure compliance with ITAR and proprietary control procedures. To date, users across the extensive supplier network have also been brought online, totaling more than 130 sites worldwide (spanning seven countries and nine time zones).

Most importantly, real-time online collaboration is a reality for both engineering in-process and released designs, across five major partners and 35 design suppliers. Lockheed Martin sees this as a critical achievement of the program.

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