

# Modernizing the Fleet Using VectorCAST



**Challenge:**

Much of the installed equipment software was not RTCA/DO-178B compliant in the aging C-130s. The TAI development team needed to achieve DO-178B Level A certification on all systems in a shortened development cycle.

**Solution:**

TAI turned to Vector Software's VectorCAST Automated Test Platform to automate unit and integration testing, code coverage analysis, and regression test management in order to meet DO-178B Level A compliance.

**Details:**

Headquartered in Ankara Turkey, Turkish Aerospace Industries (TAI) is Turkey's center of technology in design, modernization, manufacturing, and life cycle support of integrated aerospace and defense systems, from fixed and rotary wing air platforms to unmanned vehicles and space systems.

TAI's ERCIYES C-130 Modernization Project is an avionics upgrade program of thirteen (13) Lockheed C-130E and six (6) C-130B Hercules aircraft for the Turkish Air Force (TurAF). The project covers the integration of 23 systems in total, ranging from flight management system to Night Vision Imaging Systems (NVIS). Once completed, the aircraft will comply with Global Air-Traffic Management (GATM), Reduced Vertical Separation Minimum (RVSM), and CAT-II Instrument Landing System (ILS) requirements.

Turkish Aerospace Industries Inc.

