

# AIRBUS FLY-BY-WIRE: A PROCESS TOWARD TOTAL DEPENDABILITY

PASCAL TRAVERSE, ISABELLE LACAZE, JEAN SOUYRIS Airbus, 316, route de Bayonne, 31060 Toulouse, France

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#### Abstract

This paper deals with the digital electrical flight control system of the Airbus airplanes. This system is built to very stringent dependability requirements both in terms of safety (the systems must not output erroneous signals) and availability. System safety and availability principles are presented with an emphasis on their evolution, on future challenges and on pilot aids.

#### 1 Introduction

#### 1.1 Background

The first electrical flight control system (a.k.a. Fly-by-Wire, FbW) for a civil aircraft was designed by Aerospatiale and installed on Concorde. This is an analogue, full-authority system for all control surfaces and copies the stick commands onto the control surfaces while adding stabilizing terms. A mechanical back-up system is provided on the three axes.

The first generation of electrical flight control systems with digital technology appeared on several civil aircraft at the start of the 1980's including the Airbus A310. These systems control the slats, flaps and spoilers. These systems have very stringent safety requirements (in the sense that the runaway of these control surfaces is generally classified as Catastrophic and must then be extremely improbable). However, loss of a function is permitted, as the only consequences are a supportable increase in the crew's workload.

The Airbus A320 was certified and entered into service in the first quarter of 1988. It is the first example of a second generation of civil electrical flight control aircraft, which is now a full family (A318, A319, A320, A321, A330, A340). The distinctive feature of these aircraft is that high-level control laws in normal operation control all control surfaces electrically and that the system is designed to be available under all circumstances.

This family of airplane has accrued a large and satisfactory service experience with more than 10000 pilots operating a Fly-by-Wire Airbus, and more than 40 million flight hours. Nevertheless, system architecture is permanently challenged to take benefit of technical progress and of this large in-service experience. Indeed, on top of the architecture level reached by A340<sup>[1]</sup>, A340-600, A380, and A400M are going steps further.

The A340-600 is the first significant change compared to the A320/A330/A340 baseline. It entered into service mid of 2002, introducing structural modes control, a full rudder electrical control and integration of autopilot inner loop with manual control laws. The full rudder electrical control is now part of all A330 and A340 definition.

A380 and A400M will be the first in-service aircraft with electrical actuation of control surfaces (a.k.a. Power-by-Wire). Additionally, new avionics principles are applied and a full autopilot and manual control integration is performed<sup>[2]</sup>.

A350 baseline is A380 functions and system. Other architectures are possible<sup>[3]</sup>. The family of architectures we have designed has the merit of

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