

	FMGS OPERATIONAL PRINCIPLES INTRODUCTION		4.02.10	P 1
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INTRODUCTION

The flight management and guidance system (FMGS) performs navigation functions and lateral and vertical flight planning functions. The FMGS also computes performance parameters and guides the aircraft along a preplanned route.

Each FMGC is divided into three main parts :

- The Flight Management (FM) controls :
 - Navigation
 - Management of flight planning
 - Prediction and optimization of performance
 - Management of navigation radios
 - Management of displays
- The Flight Guidance (FG) performs :
 - Autopilot (AP) command
 - Flight director (FD) command
 - Autothrust (A/THR) command
- The Flight Envelope (FE) provides :
 - Speed envelope computation
 - Monitoring of parameters used by FG and FE parts
 - Windshear and aft Center of Gravity (CG) detection
 - Computation of GW and CG information

This chapter (4.02) describes the operational principles of flight management and flight guidance in order to help the reader understand how the FMGS functions.