The main objectives of this project are the development of an application client/server and its own communications protocol to manage a flight simulator network, and the development of an application that generates aeronautical meteorological information reports (metar). The client/server application has a flight planner module to check this meteorological information and other information and send standardized flight plans to the server. These two applications have the purpose to be used at the practical classes of the Technical Aeronautical Engineering, Aero Navigation Systems speciality degree, which is cursed at the Escola Politècnica Superior de Castelldefels. Finally it’s been made a study of the actual software we can find currently that works similar at described above. This study works as a reference to design and develop the main characteristics and functionalities of our own applications.