Abstract

This work contributes to air traffic control. Particularly in the detection and tracking of aircraft in flight through electronic systems. The radar allows the air traffic controller locating aircraft flying under his jurisdiction, indicating the destination, altitude and the gained speed. This gives the opportunity to give precise instructions to crews, to maintain adequate separation between aircrafts and allowing a constant and insurance flow of them. Through the use of various techniques, the end result is the display of the position of each of the aircrafts detected by the radar, in a map similar to a flat cartesian, the origin of this represents the control tower. Google Earth allows for a three-dimensional view of the location of aircrafts, using an interface software such as Visual Basic, and thus can be exploited radar data in different areas of air traffic control, from the planning of airways, monitoring, study and solution phenomena in detecting aircrafts, analysis of accidents and incidents until staff training. All previous information generated by using the systems currently installed without purchasing expensive equipment and unconventional.

Keywords

Radar, Plot, Track, Aircat 500, BSC, API, SENEAM.