

ABSTRACT

The project presents the proposed computer networking system of aircraft maintenance, whose operation is applied to the Virtual Private Network (VPN) technology. It is designed to support communication among maintenance divisions inside the Directorate of Aeronautical Engineering (DAE) and between DAE and Wings that are located in different provinces.

The study started from gathering information from the existing aircraft maintenance processes that are manually operated. Then, the existing system is studied and analyzed. The study suggests that a computerized process should replace the manual operation. The analysis tools such as data flow diagram, logical record structure, and entity-relationship diagram, used to develop the behavioral model and data model.

Because the processes in the existing system are manual, problems arise in many ways. For example, the information isn't up to date, retrieval of information is difficult and work is duplicated.

The proposed system is designed to solve the problem of the existing system and meet user requirements. The solution of the proposed system is effective communication and the sharing of aircraft maintenance information among maintenance divisions inside the Directorate of Aeronautical Engineering (DAE) and between DAE and Wings that are located in different provinces.