

ABSTRACT

This project presents its analysis and design for Inventory Control System of Thai Audio Co., Ltd. The Inventory Control System is the important section of Thai Audio Co., Ltd. Therefore, the company wishes to develop the inventory control system in order to serve the customer's requirement quickly and to improve work flow and data flow within the company.

At present, the company operates its business activity manually so it causes many problems such as delay response for customer's need, inaccurate information of goods in stock and disorderly function between inventory and sales staffs. Under this circumstance, the company decides to operate its business by using a computerized system instead of the manual based system. The study of the proposed system concerns the data flow diagram for improving work flow of the company. The system is implemented on Microsoft Access as the software tool. The cost analysis and cost comparison of the proposed system is determined by using the payback methods. Also, we are concerned with the break-even analysis in which we use the accumulating cost to determine the break-even point between the existing system and the proposed system. As a result, the graph on page 26 shows that at the averaged year 1.4, the new system costs the same as the old one. With regard to implementing the proposed system, the employees will work in parallel between the existing system and the proposed system until they are familiar with the new one. At the same time, they will be trained to use the computer system on how to enter the main menu and exit the screen.

After the implementation, it is satisfactory to the company's performance even if there are some problems in using the computer system at first. We found that the transaction process of the proposed system provides about 10 records of stock available in 1 minute whereas the same records take at least 15 minutes by the manual system. We can say that the new system gains many advantages such as rapid time in response to the customer's requirements as well as orderly employee function within each section. As for the coming future, the company would bring Microsoft Excel to implement with accounting section. This would enhance the company's performance promptly.