

ABSTRACT

Information technology is growing rapidly. Problem that arise in conjunction magnitude of information technology devices is how to manage, maintain, and calculate the amount of required investments. Purpose of this study is measuring preventive and corrective cost optimization maintenance which determines the most optimal alternative maintenance activity. The case studies in this research is PT. Indonesia Comnets Plus (ICON +) West Java Regional, company that focused on maintenance of telecommunication customer service processes and information.

Analysis techniques that used in this research are descriptive and optimization analysis. Level of corrective maintenance costs are known through services damage probability, average cost of service damage at any period in 2011-2014, and corrective cost analysis formula. Whereas to determine level of preventive maintenance costs, requiring calculation of damage probability that estimated monthly service and then calculating total cost of preventive maintenance. This analysis, requiring data amount of damage and the cost of maintaining services.

Based on the results of the research, general implementation of maintenance services at the company has been running quite well, but not optimal. Of these problems are found, solution that can be applied is the taking into account cost efficient in execution of maintenance services and solutions to the problem of the maintenance period. Preventive maintenance system can be optimized for efficiency if company determine period of preventive maintenance services. Period of preventive maintenance services can be optimized with an average every 12 months treatment. Keywords: maintenance, maintenance cost, preventive maintenance, corrective maintenance.