ABSTRACT

One of multimedia data of most widely used is the Video on Demand. Video on Demand allows someone to get information easily and quickly. But,the ease of getting such information is misused. Video security is stiil lacking to be one factor poblems on video. Video data can hijacked by unauthorized person, caussing losses the owners of video data. To solve the problem built a security system with the science of crytography and Digital Rights Management.

A system built in this experiment using Rabbit algorithms that are implemented in video on demand based on Digital Right Management. Digital Rights Management aims to manage and control the client rights of existing data. Video data decrypt when accessed by a client who is not entitled to the video,so the original video can only be seen by the client is entitled to the video.

Result of testing data in this system show that rabbit algorithms can be implemented on a video on demand. Time encryption process takes longer than the time the decrypt process is relatively quick. To avalanche effect obtained an average number 50.195% to key value not change. Next,the quality of the video frame decrypt decreased average number 16.25% of the original video frame.

Keyword: Rabbit Algorithm, Video on Demand, Cryptography, Digital Rights Management