

ABSTRACT

With nowadays increasing of internet usage, there seems promising for new players in internet service provider (ISP) business. Not only big scale, but also smaller even sub-districts scale ISP don't want to miss a chance. This small ISP can't afford to make their own internet network, so they must rent access networks to internet. Not only cables but also they must pay for bandwidth to the other service provider. It's not cheap to rent a connection moreover the international link, and international link usage is higher than local link. This problem occur because the content provider like video streaming it's comes from abroad. This highly international bandwidth usage rise the ISP budget for rent the connection. That's why user get high price per bandwidth ratio.

With that problem, writer want to make a video cache server on district-size ISP with wireless access connection from ISP to user, server and router is evenly placed. There some parameters like Hit, Miss, video streaming traffic statistis, video loading duration and Throughput will be gathered with this cache method. After that the Hit result will be counted and analyzed, comparing Throughput and Time efficiency between before and after implementing the video cache server.

The result that will be achieved from this research is the effectively bandwidth saving and low latency video cache server design.

Keyword : cache, cache server, video streaming cache, ISP, video cache server