

## ABSTRACT

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*In line with the development of information technology supporting equipment, computer network is still very necessary. Any such equipment is now becoming an important component in the development of computer networks. Mikrotik router is one of supporting the construction of computer network equipment. Mikrotik router serves as a liaison between two or more networks to forward data from one network to other kejarangan. Data storage limitations on mikrotik routers complicate the bandwidth settings for its users. This is exacerbated when not accompanied by a redirect (filter) against the use of bandwidth. Handycache applications a viable solution in answering the challenges these problems. Design application handycache on mikrotik router can be done through the development of transparent cache engine and as handycache filtering proxy using mikrotik. Development of transparent cache engine and as handycache filtering proxy using mikrotik makes storage data communications on computer networks can be run well.*

*Keywords: Handycache, Mikrotik, Filtering, Caching Engines*