

## **ABSTRACT**

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Implementation of Load Balancing Dual ISP with ECMP (Equal Cost Multi Path)  
and PCC (Per Connection Classifier) Methods

Internet access needs must be completed in doing everything, and good internet quality with stable performance is needed. So that the connection stability remains on the network that requests more than one ISP. The use of load balancing technology is needed by networks that use dual ISP as a connection path, so that the load balance is maintained. Some methods that will be applied to load balancing testing in this study are PCC (Per Connection Classifier) and also ECMP (Equal Cost Multi Path). In this study using proxy as a means to make load balancing. The results obtained in the ECMP method traffic bandwidth research, on the telecommunication network amounted to 23.3 Mb/s and on the Moratel network 47.5 Mb/s, while on the PCC method, on the Moratell network 60.4 Mb/s and Telkom 21.0 Mb/s.

Keywords: Dual ISP, Load Balancing, ECMP, PCC, Mikrotik.