

## ABSTRACT

### IMPLEMENTATION AND NETWORK DESIGN AND WEBSITE FILTER SYSTEM WITH MIKROTIK IN PT REMICON WIDYAPRIMA

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The goal of this practical work is to give a solution for the problem that has been experienced by PT. Remicon Widyaprima which is their internet access has no limitation. The outcome of this matter is their bandwidth not optimally used.

This practical work has been held for 3 months from March 2019 until end of May 2019. The Stages of this practical work consist determine the topic, collecting information with interview and literature review, analysis and design with NDLC, implementation, testing and the last is report preparation.

The result of this implementation show that with limiting access to certain website with layer 7 protocol helps the company optimizing their bandwidth use. Beside website filtering, there is also IP distribution base on MAC Address to that increase the network security on the company.

*Keywords: website block, layer 7, mikrotik, firewall*