# ABSTRAK

Juniper Networks is pivotal in the business world due to its affordability, integration of ASIC for fast performance, simple interface, and OS design that supports cloud-based networks. Juniper routers provide the capacity, flexibility, and automation necessary to support increasingly interconnected connections today. However, Juniper devices require preventive maintenance to maintain reliability and optimal performance. Through literature review and team discussions, Auto Preventive Maintenance Juniper was discovered. This solution enhances efficiency, reduces human errors, and ensures optimal performance. Auto Preventive Maintenance Juniper also aims to improve log analysis accuracy by reading log files and Network Management Systems (NMS) and parsing them using regular expressions. Additionally, this program can scrape websites for additional data. The ultimate result of Auto Preventive Maintenance Juniper is an executable program that processes log files and generates word documents.

Kata kunci – preventive maintenance, efficiency, juniper networks, automated