ABSTRACT ii

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IPS (Intrusion Prevention System) is an important component for

protecting computer system in computer network. Basically an IPS is an IDS

(Intrusion Detection System) with some added components so it can perform

spesific security actions when an intrusion is detected by IDS. An IPS consists of

the following components: NIDS (Network Intrusion Detection System) to

capture all network traffic flows, analyze the content of individual packets for

malicious traffic and generate security events. The second component is a central

rules engine that captures the security events and generate alerts based on the

events received. The third component is a console to monitor events and alerts and

control the NIDS. IPS that will take action based on the alerts and attempt to

block the malicious traffic.

IPS Management System is a software which can help network

administrator to control the IPS. IPS Management System provide access for

network administrator to manage its network security exspecially web server via

web based user interface.

Keywords: network security, IPS, IDS, NIDS, traffic flows, mallicious traffic.