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(57) Abstract :
The present disclosure relates generally to field of network security. More specifically the present invention relates to a system for implementing dynamic security mechanisms in mixed networks. The system (100) includes a security manager (102), a security policy device (104), a security enforcement device (106), a cloud server (110) and a graphical user interface (108). The security policy device (104) is embedded with machine learning algorithms to analyze the characteristics of the different types of network traffic and apply appropriate predefined security policies. The security enforcement device (106) is provided to enforce the security policies on the analyzed network traffic. Further the present invention relates to a method for implementing dynamic security mechanisms in mixed networks. Advantageously, the present invention relates to a system and method for implementing dynamic security mechanisms in mixed networks that enhances network security while minimizing the impact on network performance.

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