

Integrating Custom Queuing strategy for enhancing security of a Packet Scheduling in Wireless Networks

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Abstract

The wireless technologies became a part of our day to day life, for sending and sharing data very rapidly so that everyone today uses wireless networks for their business or personal. Current wireless communication technology in mobile electronic commerce applications cannot meet real-time transmission criteria, such as access to books from digital libraries, access to stock exchange information etc. Recent wireless networks in real-time require high-level protection to ensure the information is transmitted through wireless channels. It is therefore highly desirable to design flexible security mechanisms for real-time applications, and to transmit packets via wireless networks. The present research introduces a new packet scheduling algorithm to improve security that primarily aims to dynamically evaluate packet security rates based on an application's security requirements and also to guarantee packet deadlines. The overall efficiency of real time networks is improved by integrating Custom Queuing method with security aware packet scheduling algorithm.

Keywords: Wireless Networks, Packet Scheduling, Custom Queuing

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