

Project Title: Internet Broadband Charging QoS Model For Network Mobility
Project No.: RG 041-10ICT
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Co-researcher (s):
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Abstract:

Bandwidth estimation is becoming a main problem of fundamental internet engineering. There is difficult in determining bandwidth required to carry traffic with a specific bit rate offered to an internet link and satisfy the Quality-of-Service requirements. The aim of this research is to introduce an approach/model to providing Internet service charging according to a capacity and usage based charging. The users are charged according to the contracts that they subscribed. In fixed contract, a user paid the Internet charging in advance according to his/her monthly subscription while in flexible contract, user paid the resources according to number of minutes that they want to access the Internet. The capacity based charging is charged based on resource allocated to different types of application where amount of resources are provisioned by referring to the classes subscribed. The resources are charged according to the maximum amount of resources allocated to the subscriber for a certain period. On the other hand, the usage based charging is charged based on the resources used by different level of users. A user survey will be conducted to collect information related to a user interests. A charging model is introduced according to the interests and preferences. An experiment is conducted using a test-bed/network simulation to evaluate the model and analyze the results.