

Incentivizing Time-Shifting of Data: A Survey of Time-Dependent Pricing for Internet Access

November 2012 [IEEE Communications Magazine](#)

ISPs are starting to use pricing as a congestion management tool, as seen from the elimination of flat-rate data plans in favor of usage-based pricing. This article outlines the sources of today's congestion and pricing challenges and then discusses regulatory and technological trends that influence this issue. Proposals for incentivizing time-shifting of data by customers are also described. A prototype system incentivizing time-shifting of delay-tolerant data is highlighted, with a feedback loop from network measurement and price update to the end user graphic interface and responses, and with a revisit to the architectural division between functionalities in management servers and those in end-user devices. This article would be of considerable interest to readers who wish to go beyond technology-based issues to the underlying business aspects of telecommunications and mobile networks.

Title and author(s) of the original paper in IEEE Xplore:

Title: Incentivizing Time-Shifting of Data: A Survey of Time-Dependent Pricing for Internet Access

Author: S. Sen, C. Joe-Wong, S. Ha, and M. Chiang

This paper appears in: IEEE Communications Magazine

Issue Date: November 2012

[Back](#) [IEEE Xplore](#) [Version](#) [Similar Articles](#)

Source URL: <http://www.comsoc.org/ctn/incentivizing-time-shifting-data-survey-time-dependent-pricing-internet-access>