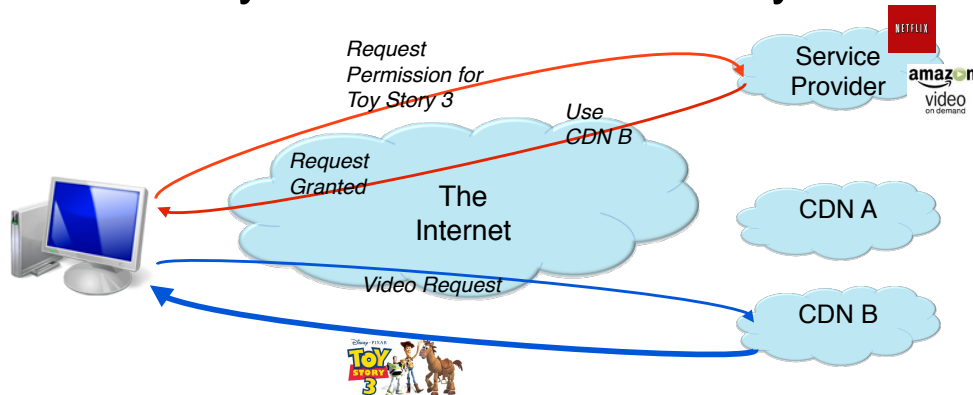




# Understanding HTTP-Based Video on Demand System

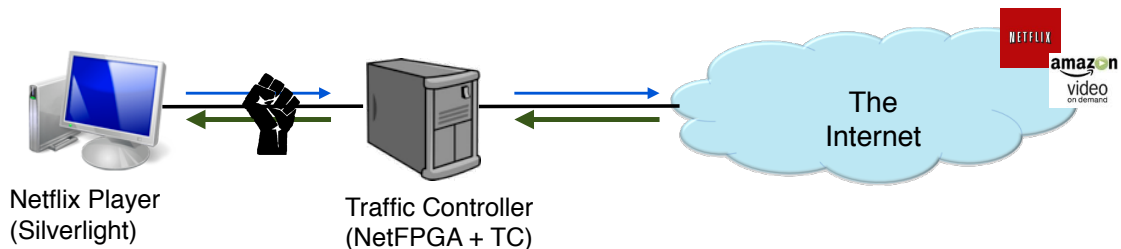
Te-Yuan Huang, Nikhil Handigol, Brandon Heller, Yiannis Yakoumis, Nick McKeown, Ramesh Johari

## Today's Video on Demand System

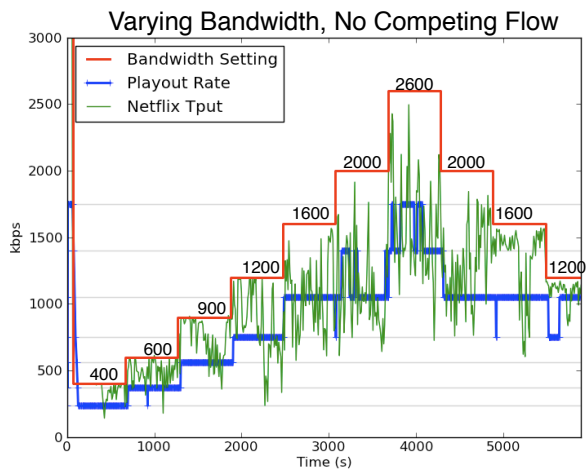


- Service provider authenticates and load-balances users across CDNs
- Actual video/audios are served from CDNs
- Client requests for different rate when available bandwidth is changed

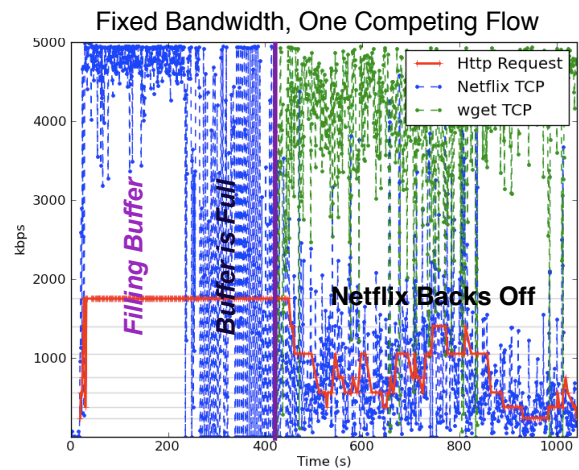
## Experimental Setup



## Rate Adaptation Algorithm: A Case Study on Netflix



Netflix is conservative on selecting rate, but in general pretty accurate



A competing TCP flow could cause quality fluctuation and quality degradation

## Future Work

- Repeat the experiment with other streaming service providers
- Understand the cause of inaccurate bandwidth estimation when competing with another flow