Assessment of Mobile Broadband in California

Federal-State Joint Conference on Advanced Services, Panel on Internet Access and Adoption Programs and Strategies

November 19, 2014

Robert Osborn
Senior Analyst
Broadband, Policy & Analysis Branch
California Public Utilities Commission
robert.osborn@cpuc.ca.gov
Key Points

- Advertised coverage is meaningless without reliable service level parameters
- Despite prevalence of LTE, rural service is substantially inferior to urban service
- Mobile broadband is becoming more important, but is it a reliable substitute for wireline?
California Advanced Services Fund

- 0.464% surcharge on telephone bills in California
- Four accounts ($315M total):
  - Broadband Infrastructure Grant Account ($270M)
  - Broadband Infrastructure Revolving Loan Account ($10M)
  - Rural and Urban Regional Broadband Consortia Grant Account ($10M)
  - Broadband Public Housing Account ($25M)
- Provides funding for capital costs of broadband infrastructure projects in unserved and underserved areas in California.
- Maximum grant award:
  - 70% total costs for projects in unserved areas (<768 Kb/s down/200 up)
  - 60% total costs for projects in underserved areas (<6 Mb/s down/1.5 up)
CalSPEED and Field Testing

Description

CalSPEED, released by the California Public Utilities Commission (CPUC), empowers end-users with a professional-level, industry-standard testing tool to measure the quality and speed of their mobile data connection. CalSPEED conducts a two-phase test including initial testing and results validation in order to ensure statistically significant measurements. Test your upload speed, download speed, message delay (latency), and message delay variation (jitter) using CalSPEED. The first two metrics measure your Internet usage experience, while the second two measure the voice quality of voice over IP technologies.

Results are uploaded to a public repository at CPUC to provide you with the ability to compare broadband coverage at your location with other areas in California.

Visit Developer's Website  Email Developer  Privacy Policy

App Screenshots

[Image of app screenshots]

Users who viewed this also viewed

Voice Search
Google Inc.  (221,873)
Free

Quadrant Standard Edition
Aurora SoftWorks  (38,892)
Free

My Data Manager
Mobile Technology  (63,810)
Free

FCC Mobile Broadband Test
ODALA  (1,567)
Free

Users who installed this also installed
Cooler colors = faster speeds

Major urban areas circled
Advertised: 99% population is served

Mean minus one standard deviation: 64% of population is served (13.7M under- or un-served)
Urban vs. Rural

- Coverage
  - Rural/Tribal locations achieve broadband service levels half as often as Urban
- Obsolete wireless access technology
  - ~1 out of 5 rural and tribal wireless connections on Sprint and T-Mobile made using technology considered old when the first iPhone introduced (2007)