

Measuring Broadband America 2014

Working in open collaboration, to build a transparent measurement collection and reporting methodology, and to publish a freely available dataset of US consumer broadband performance, since 2010.

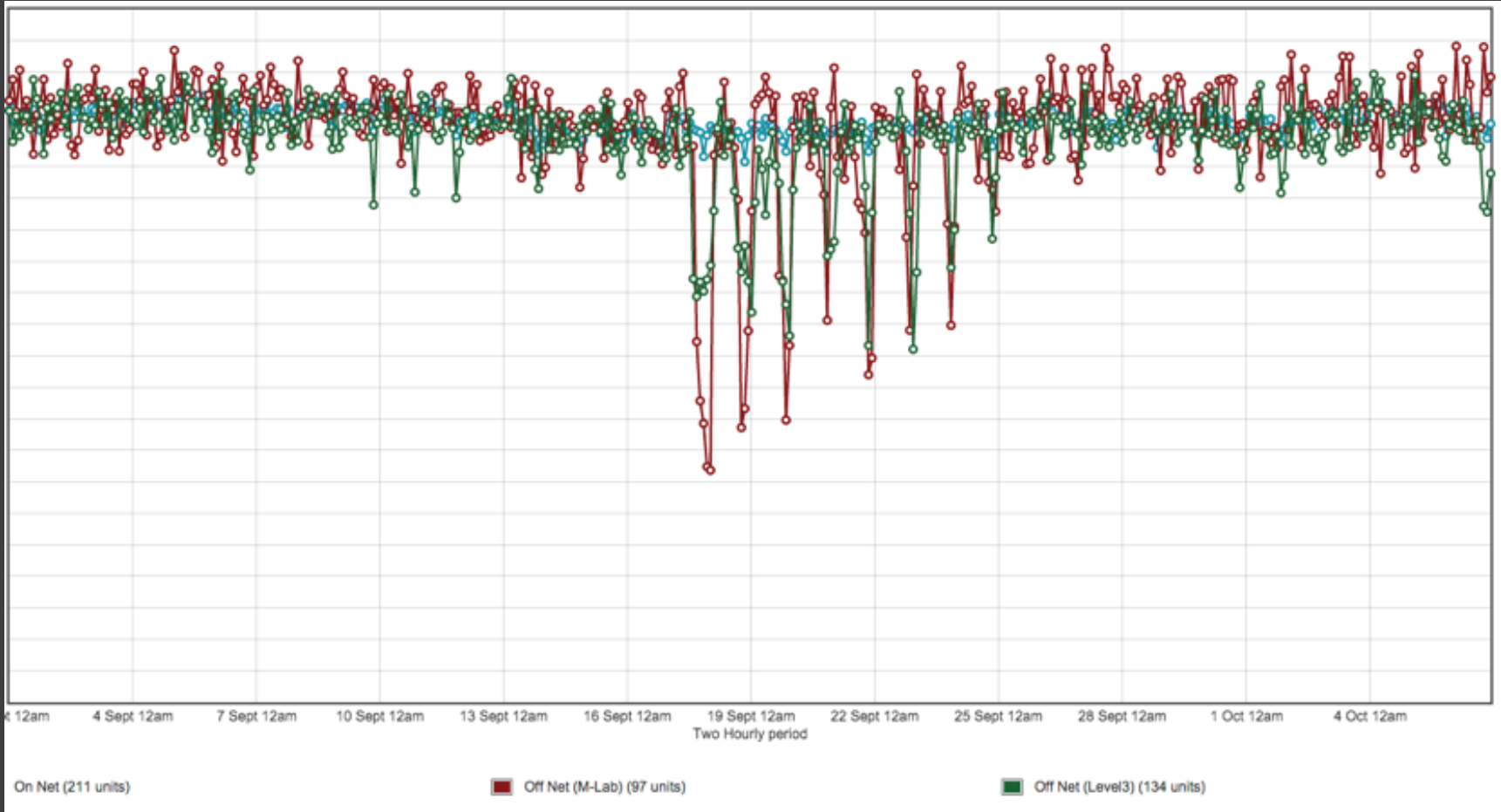
10 DECEMBER , 2014 | WASHINGTON D. C.

2014 Annual Review

- Platform used to identify congestion at interconnection locations.
- Consequence of this: development of video streaming tests for Netflix & YouTube.
- Hulu next to be developed.
- MBA platform opened up to include special studies.
- Inclusion of State of Hawaii in MBA program.

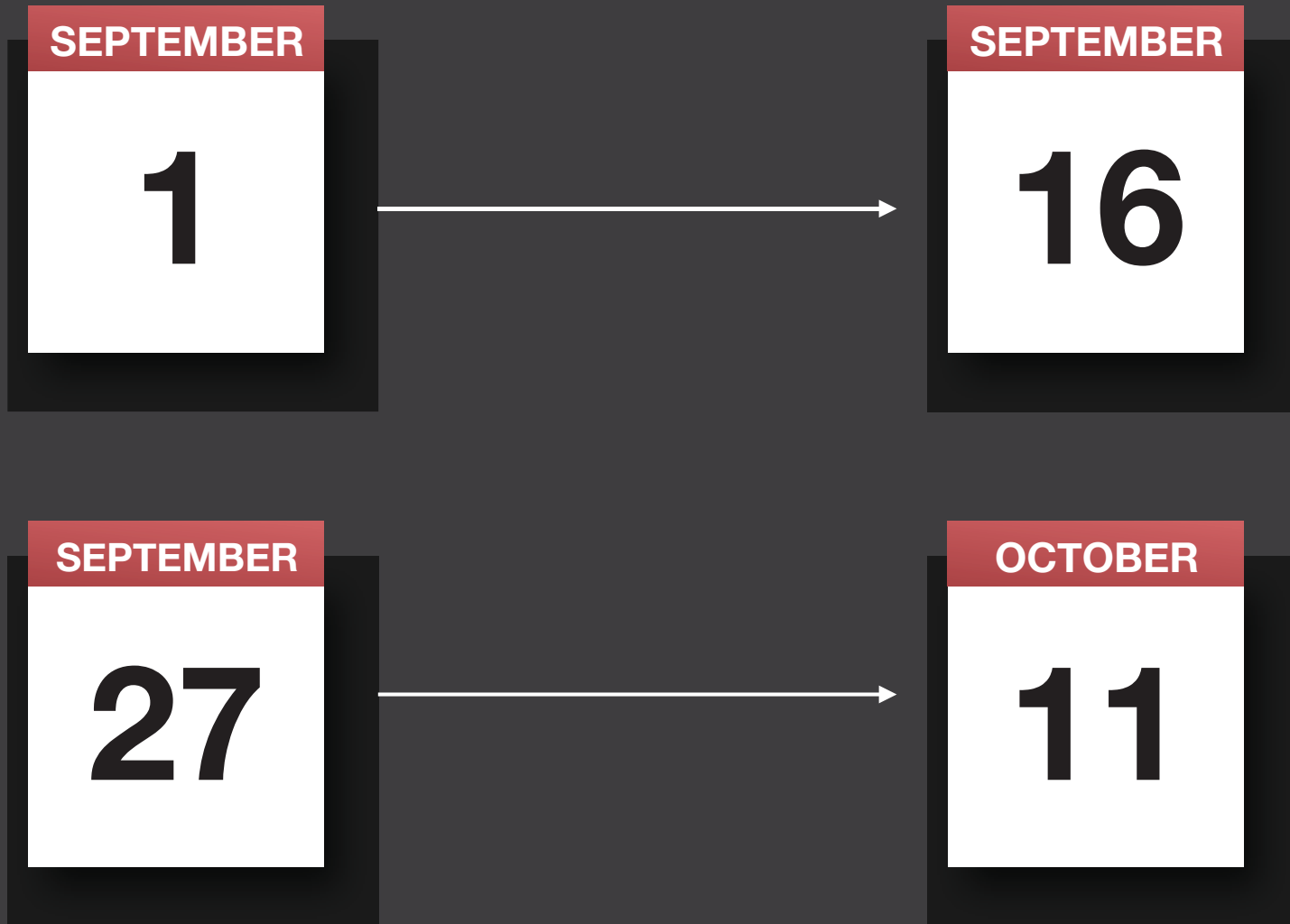
2014 MBA Reporting Period

- Congestion occurred between Sep 18th - Sep 25th.
- iOS 8 release is suspected cause.
- Raised in meeting dated: 8th October 2014.
- Agreed to extend reporting period.





Revised Reporting Period



Data Processing



Validations

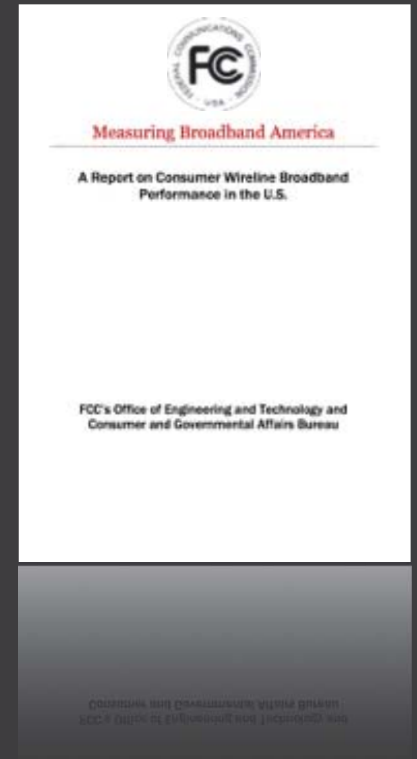
Pre and Post Validations received from all ISPs.

SamKnows

SamKnows review data and prepare for final processing.

Hansa

Final processing, charts generated and checked.



Open Platform: Georgia Tech

- Deployed on 3500 Netgear routers early November.
- Deployed for approx. 26 hours.
- Caused sporadic reboots on about 35% devices.
- Tests removed quickly to avoid further issues.
- 100,000 results collected; Georgia Tech analysing currently.

Open Platform: CAIDA

- Assisting with CAIDA geolocation algorithms.
- Used in multiple CAIDA initiatives including Time Series Latency Probe.
- Running pings from all probes in the US to all CAIDA Ark servers (approx. 100).
- Work in progress project, more updates to follow.

Sample Plan: Hawaii

- State of Hawaii to join MBA program.
- Initial order of 100 Whiteboxes.
- Look to measure broadband speeds in Maui, Honolulu, Kauai and Hawaii.
- ISPs include Oceanic TWC and Hawaii Telecom.
- Recruitment to start: December 2014

New SamKnows Tests



- Measures the rate that we can reliably stream YouTube and Netflix videos (i.e. without stalling).
- Uses the real content servers of YouTube and Netflix; the same ones that real users would use. Takes into account content caches and geography.
- Both tests currently running on Whiteboxes (YouTube: 120 Whiteboxes, Netflix: 75 Whiteboxes).
- Results available in the FCC dashboard.
- Aiming to deploy to whole panel in early 2015.

2015

