



THE FUTURE IS FOREVER
6 JUNE 2012

www.WorldIPv6Launch.org

World IPv6 Launch

www.worldipv6launch.org

When?

- Beginning 6 June 2012

What?

- IPv6 is part of regular business, on by default, no special configuration necessary for anyone anywhere

Who?

- Access networks, home router vendors, websites from around the world participated, for more info: www.worldipv6launch.org

Why?

- Acceleration: those already planning to roll-out IPv6 should accelerate their plans
- Adoption: those who don't have plans yet – it's safe now, please start
- Definition: industry leaders have established IPv6 as the new normal



World IPv6 Launch: Access Networks

Who?

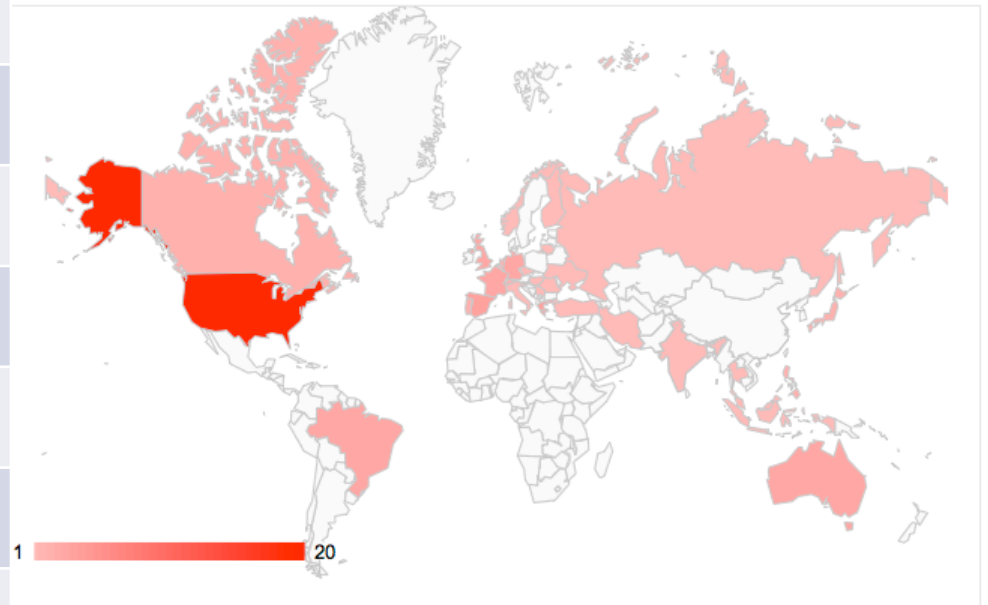
- ATT, Comcast, Free, Internode, KDDI, Time Warner Cable, and XS4ALL initially
- 69 networks achieved a measurable deployment with an average of at least 0.1% by 6 June 2012

IPv6 is part of Regular Business now

- New subscribers getting IPv6 on by default, no user config needed
- Goal: 1% of visits to big websites from participating networks use IPv6 by 6 June
- This was measured by Google, Facebook, and Yahoo! on 6 June, results: www.worldipv6launch.org/measurements
- Traffic depends on the end user equipment – note very high percentage usage from universities

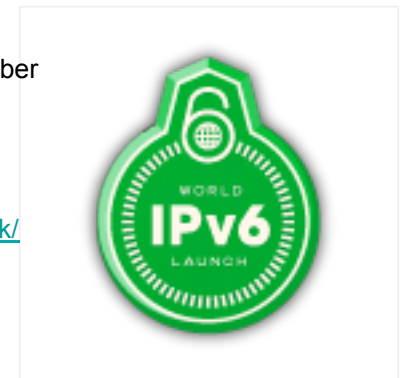


Network	IPv6 traffic
ATT	8.26%
Free	18.16%
KDDI	13.07%
RCS & RDS	18.46%
Verizon Wireless	17.01%
Comcast	1.62%
Chubu	12.46%
Time Warner	0.32%
XS4ALL	11.61%
Softbank BB	1.34%
CESNET	17.91%
Virginia Tech	59.98%



Network operator measurements, 18th December 2012

Data sources: Google, Facebook, Yahoo!
 For measurement methodology details, see <http://www.worldipv6launch.org/apps/ipv6week/measurement/timeline-nets.html#notes>



World IPv6 Launch: Home Router Vendors

Who?

- Cisco and D-Link initially
- 3 other home router vendors joined

IPv6 is part of Regular Business now

- Majority of products shipping with IPv6 on by default
- No user configuration is required to use IPv6
- V6 interoperability verified by UNH-IOL
- Great start - much work remains to be done for all sorts of consumer devices



World IPv6 Launch: Websites

Who?

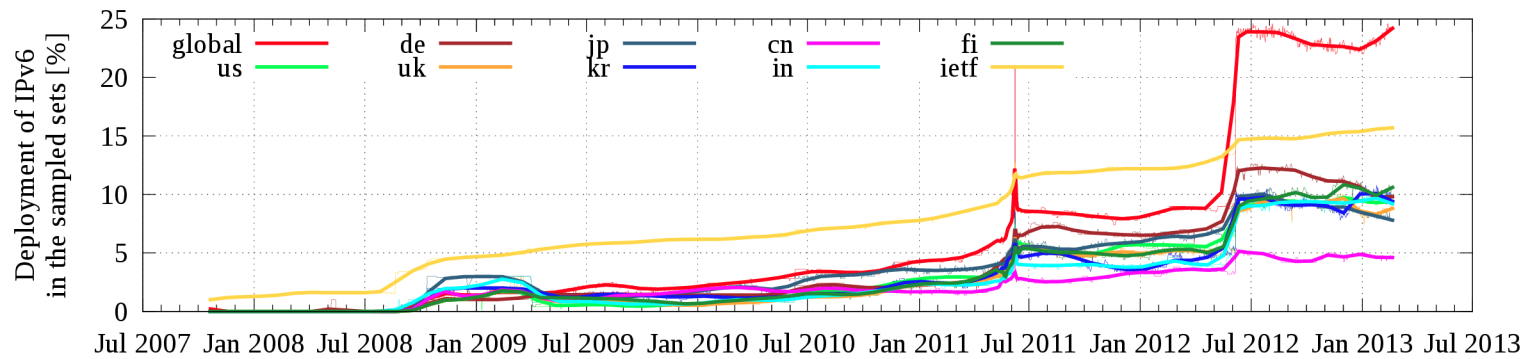
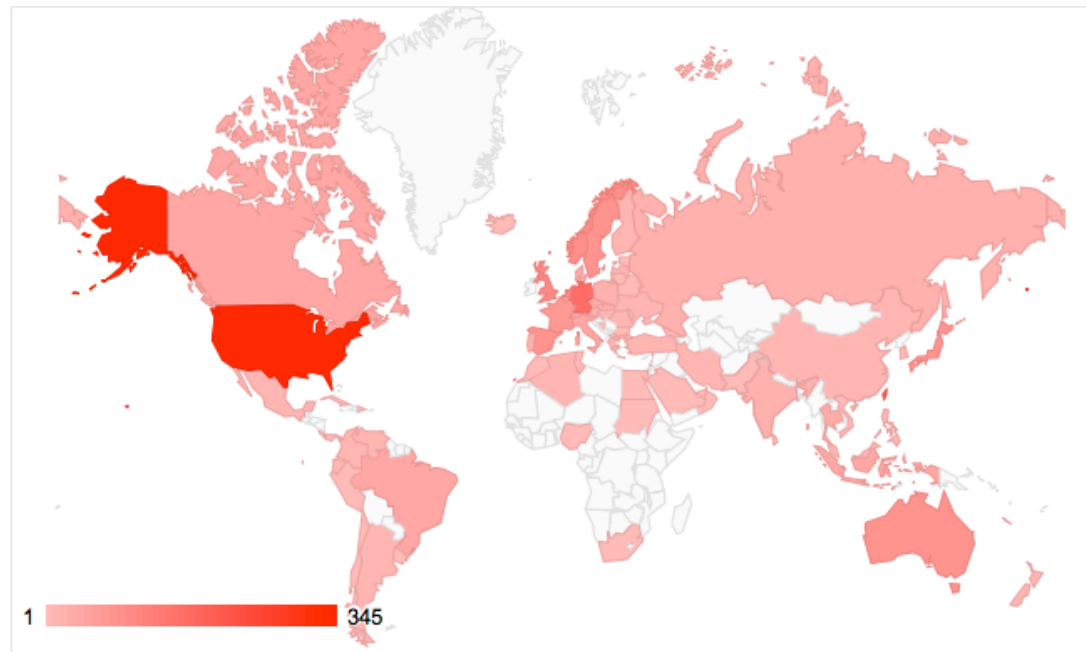
- Facebook, Google, Microsoft Bing, and Yahoo! initially
- 2300 websites turned up IPv6

IPv6 is part of Regular Business now

- IPv6 is enabled on the main website
- No IPv6 specific URLs (www.ipv6.example.com) or mirror sites
- IPv6 enabled users use IPv6 without doing anything
- Big content available over IPv6 now: Google, Facebook, YouTube, Yahoo!, Bing, Wikipedia, Netflix, etc.
- Over 10% of Alexa top 1,000 sites serve IPv6 now



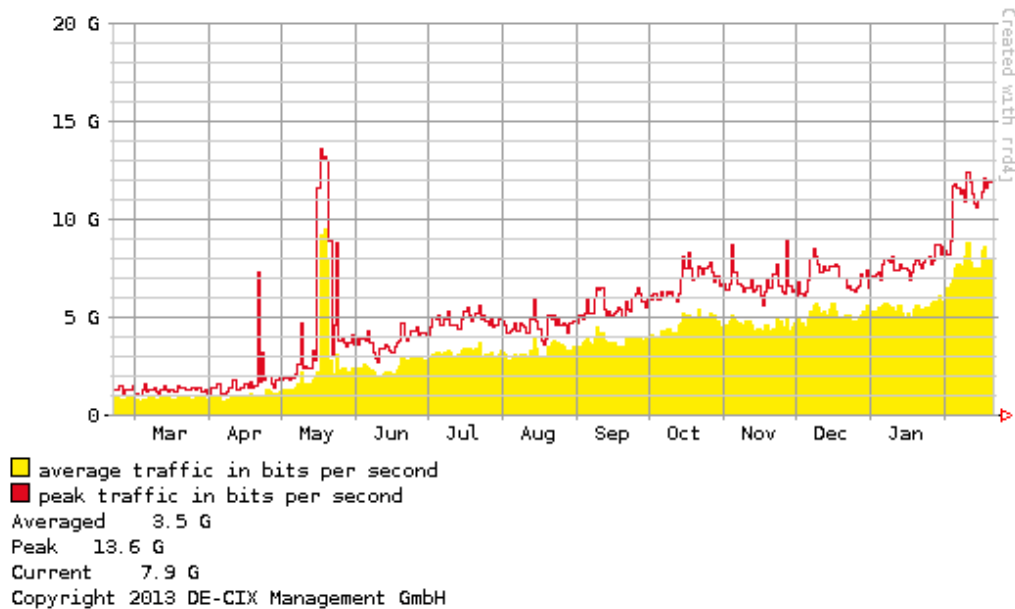
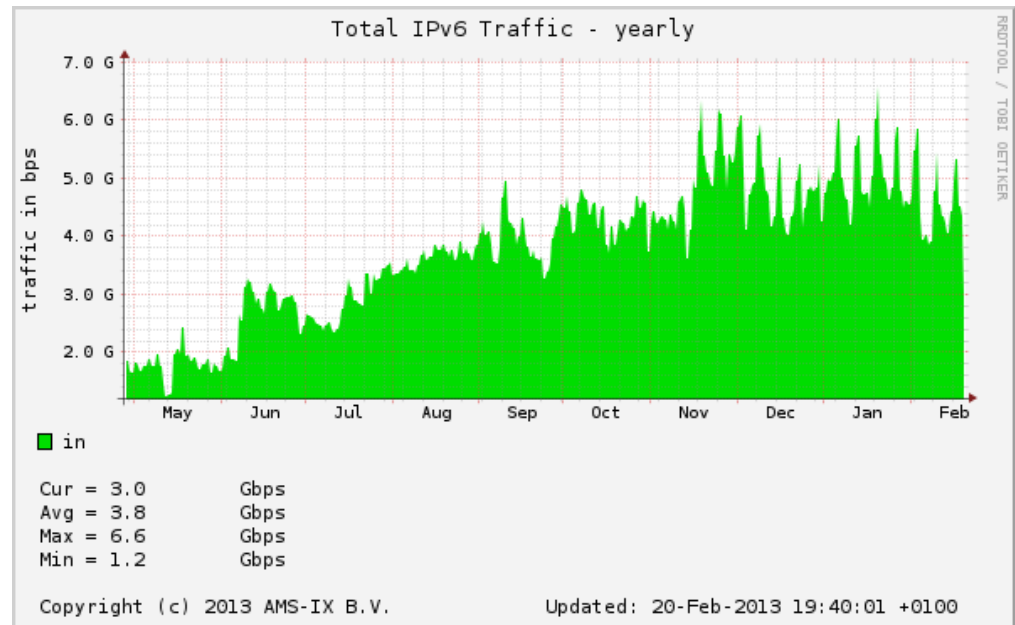
Websites – breadth and impact



Source: Lars Eggert, <http://eggert.org/meter/ipv6>



Traffic



Sources: AMS-IX, DE-CIX



World IPv6 Launch: What's next?

Measurements

- Google, Facebook, and Yahoo! continued to measure v6 traffic to their sites through 2012 and we summarized the results monthly here: <http://www.worldipv6launch.org/measurements>
- These measurements will continue through 2013. Each month we will summarize the results.
- If you are doing measurements that have a large footprint and would like to contribute please contact us.

Access Network Deployments

- Some large networks have started deploying v6 since last June
- Very limited deployments in mobile networks, would be nice to encourage that

Consumer Devices

- All kinds of devices in the home need v6 also.





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