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

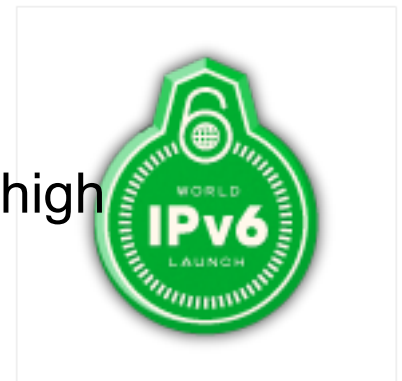- Definition: industry leaders have established IPv6 as the new normal

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%
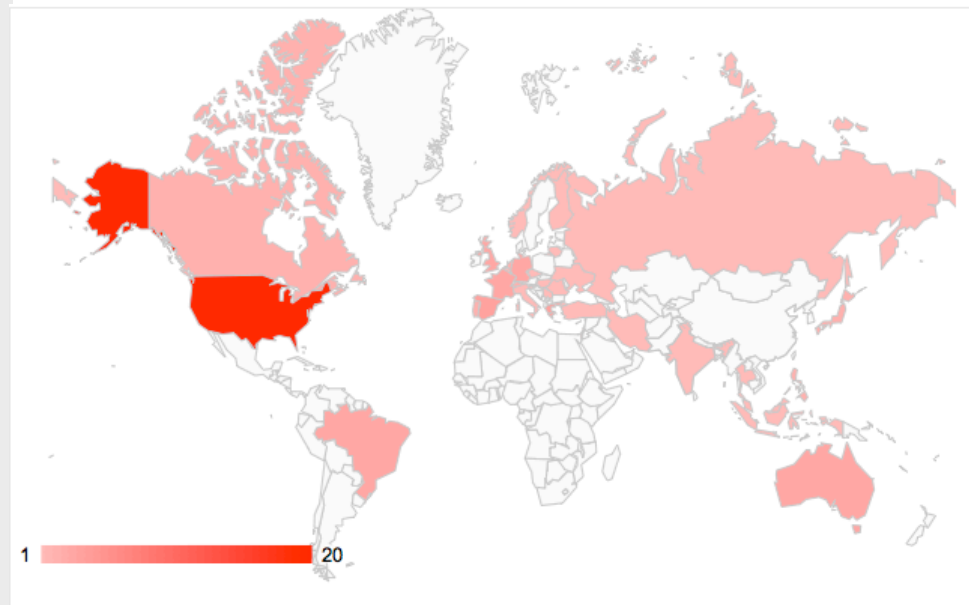
IPv6 is part of Regular Business now

- 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

- Serious commitment from access networks, more soon

- Traffic depends on the end user equipment – note very high percentage usage from universities

Network operator measurements, 11th June 2012 ([notes](#))

Search: _____

Participating Network	ASN(s)	IPv6 traffic
Free	12322	17.35%
ATT	6389, 7018, 7132	4.06%
KDDI	2516	10.93%
RCS & RDS	8708	16.65%
Comcast	7922, 33287, 33491, 33650, 33651, 33652, 33657, 33668	1.47%
Verizon Wireless	6167, 22394	7.36%
UniNet	4621	13.78%
CESNET	2852	14.71%
Janet	786	2.73%
Time Warner Cable	7843, 10796, 11351, 11426, 11427, 12271, 20001	0.20%
Swisscom	3303	0.99%
FCCN	1930	18.30%
XS4ALL	3265	4.55%
ARNES	2107	15.92%
UNINETT	224	13.96%
Indiana University	87	49.00%
LITNET	2847	7.06%
Leibniz Supercomputing Centre	12816	18.81%
Internode	4739	1.67%
NIIF/Hungarnet	1955	7.28%
EPT Luxembourg	6661	3.32%
University of Pennsylvania	55	31.78%
RENATER	2200	1.93%
Virginia Tech	1312	59.10%
RedIRIS	766	2.35%
TUBITAK ULAKBIM / ULAKNET	8517	2.27%
Louisiana State University	2055	58.42%
University of Iowa	3676	31.34%
Starlink	34602	10.14%
Belnet	2611	2.98%
OVH	16276	0.85%
SuperCSI	2506	4.08%
PT.MEDIA SARANA DATA(GMEDIA)	55666	4.99%
Funet	1741	4.38%
Greek Research & Technology Network	5408	3.96%
SURFnet	1103	1.22%
Defense Research and Engineering Network	668	9.13%
University of Wisconsin – Madison	59	5.32%
GARR	137	0.51%
Karlsruhe Institute of Technology (KIT)	34878	19.91%

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Data sources: Google, Facebook, Yahoo! – for 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 becomes 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
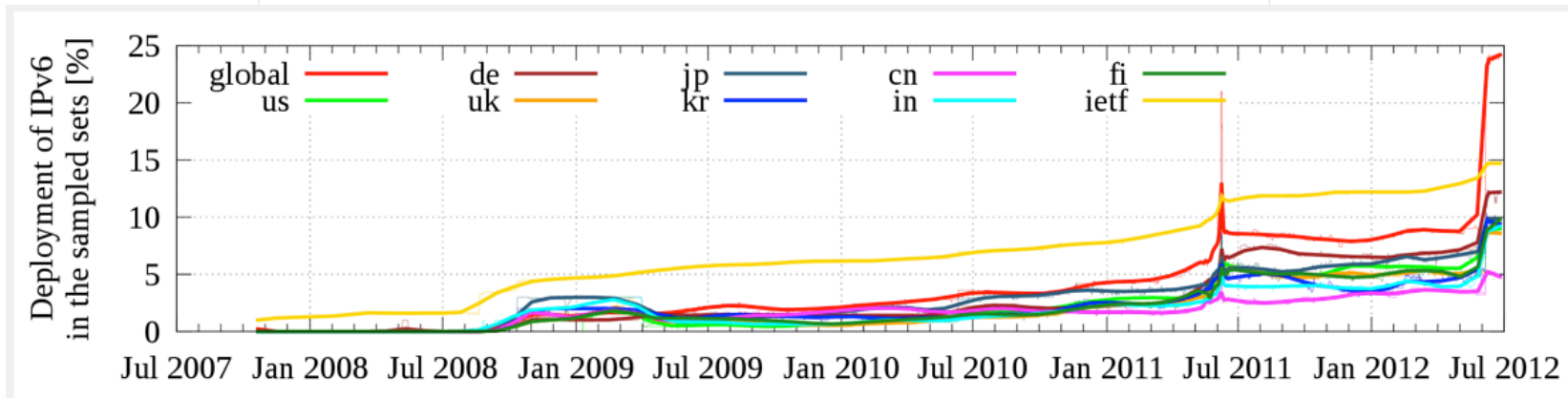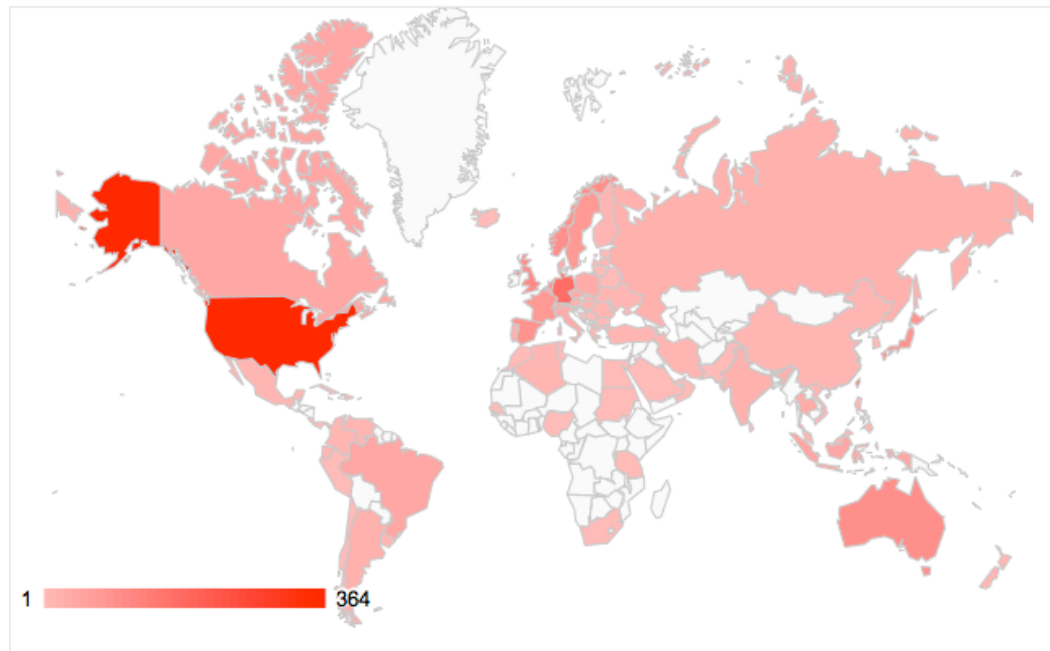
World IPv6 Launch: Websites

Who?

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

IPv6 becomes 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!, Wikipedia, Netflix, etc.
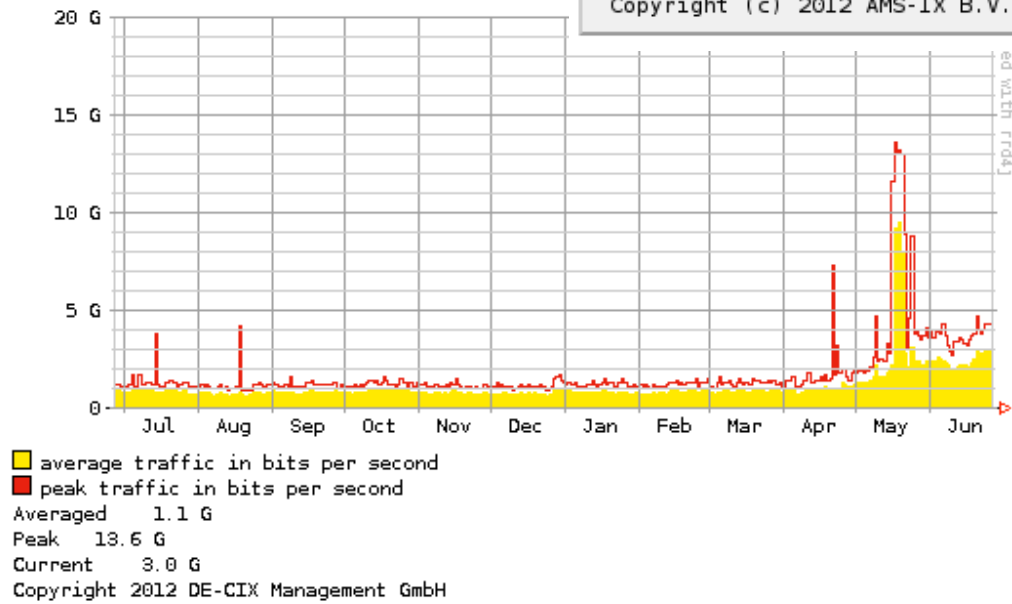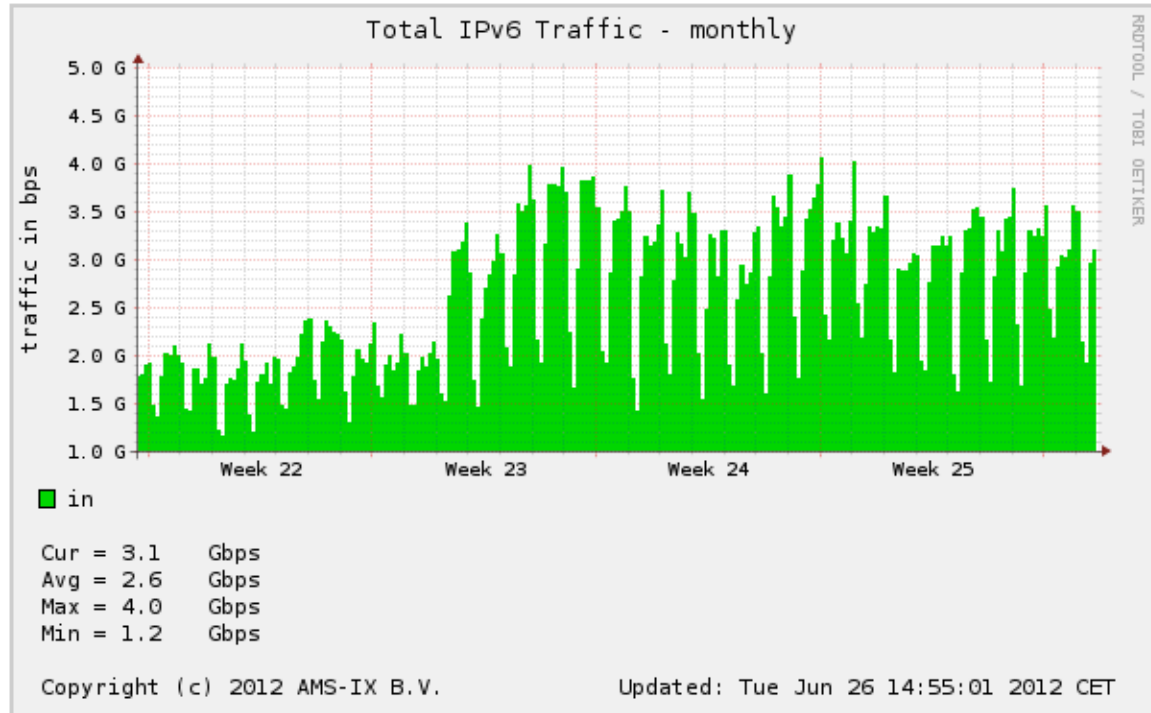- Over 10% of Alexa top 1,000 sites serve IPv6 now

Websites – breadth and impact

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

Traffic

Total IPv6 Traffic - monthly


```
Cur = 3.1   Gbps
Avg = 2.6   Gbps
Max = 4.0   Gbps
Min = 1.2   Gbps
```

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Sources: AMS-IX, DE-CIX


```
average traffic in bits per second
peak traffic in bits per second
Averaged    1.1 G
Peak       13.6 G
Current     3.0 G
Copyright 2012 DE-CIX Management GmbH
```

IPv6 and DNSSEC knowledge share including tutorials, case studies, training resources, and more.

http://www.internetsociety.org/deploy360/

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