



World IPv6 Day: 8 June 2011

Rajnish D. Singh
Regional Director, Asia Bureau
singh@isoc.org

Asia Pacific Regional IGF
Singapore, June 2011



InternetSociety.org

**For 24 hours on 8 June 2011 (00h00-23h59 UTC)
Facebook, Google, Yahoo! and more than 1000 other
websites turned on IPv6 access on their “front door”**

www.WorldIPv6Day.org

What was World IPv6 Day about?

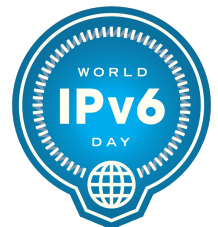
Encourage content providers to enable IPv6 on their main website i.e. *www.CompanyName.com*

- This was not about turning off IPv4

Goals:

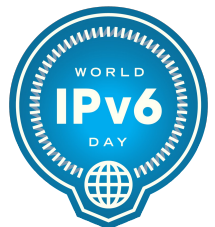
- Motivate Internet service providers, hardware makers, operating system vendors, Web companies and others to prepare their services for IPv6
- Understand what issues still need to be addressed to ensure a successful transition to IPv6 as IPv4 addresses run out

While there have been similar notable efforts, World IPv6 Day was the first global, real-world “test-flight” of IPv6, and the largest ever



Motivations for the World IPv6 Day Event

- **Breaking the chicken-and-egg problem of IPv6 deployment**
- **Improving IPv6 connectivity by understanding outstanding issues faced by a small percentage of users (but significant numbers for large content providers)**
- **Providing a target date for already planned IPv6 rollouts**
- **Spurring organizations to create a plan for rolling out IPv6**
- **Catalysing the kind of collaboration that the Internet has relied upon through its history**



Global Response

Initial commitment from websites:

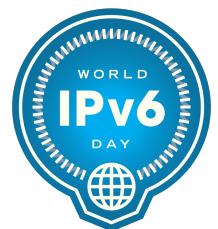
- Facebook
- Google
- Yahoo!

And content delivery networks:

- Akamai
- Limelight Networks

Interest from websites, ISPs, hosting companies, exchanges, vendors around the world

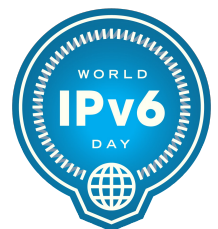
- More than 1000 organizations contacted us
- 1000s of websites turned on IPv6 for 24 hours



Local Events in Asia Pacific around June 8

Australia, China, Hong Kong, India, Japan, Malaysia, Pacific Islands, Philippines, South Korea, Sri Lanka, Taiwan, ...

- Press conference
- Seminars/workshops/conference
- Media coverage (newspaper articles, interviews)
- “Keeping a watch”
- Local resource list



Who turned up IPv6 on June 8?

www.google.com

www.facebook.com

www.youtube.com

www.yahoo.com

www.yahoo.co.jp (#12)

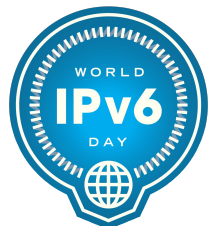
www.bing.com (#21)

www.microsoft.com (#25)

www.bbc.co.uk (#38)

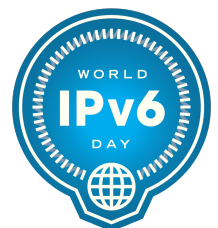
www.cnn.com (#48)

www.aol.com (#55)



In Asia Pacific

www.jinmei.org jprs.jp www.alexanderproductions.com.au www.woodstone.nu
www.ega.or.th www.freemasonry.org.fj www.iajapan.org www.outsource.co.id
www.ac.lk www.avonsys.com www.dtp.net.id www.ogcio.gov.hk www.v6pc.jp www.hkix.net
www.isoc-au.org.au www.picisoc.org www.domainregistry.my
tri-osaka.jp www.rsyc.org.fj vsix.kr pps.com.au www.bya.org.hk www.tokyohelpdesk.jp
soi.asia www.ubiteq.co.jp www.ipv6tf.or.id www.ipdn.tw www.intec.co.jp
www.iij.ad.jp www.twnic.net.tw www.jprs.co.jp www.ofta.gov.hk www.wide.ad.jp
gnj.kr vidavirtual.tk www.nav6.org www.techanalysis.com.au www.e-side.co.jp
www.soum.co.jp www.ipv6tf.org.pk www.myren.net.my www.internethotline.jp
monash.edu.au www.ipv6.org.au www.greatlearninghk.com www.aarnet.edu.au
www.capitalconsulting.com.au www.yahoo.co.jp www.gits.net.th www.sinet.ad.jp
www.wheel.gr.jp www.indofreebsd.or.id www.supercsi.jp www.grahamedia.net.id
www.fx.net.nz mitservices.com.au www.apnic.net ftp.jaist.ac.jp www.cuhk.edu.hk
www.ciputra.ac.id www.hiroshima-cu.ac.jp www.learn.ac.lk www.nettree.net.th
www.iga-ninja.jp www.nic.ad.jp www.wlan.net.id www.nict.go.jp www.kmd.keio.ac.jp
www.gov.hk www.internode.com.au www.nsk.ad.jp www.ipv6now.com.au
www.tera.ics.keio.ac.jp www.ipv6test.co.nz www.cenpac.net.nr www.netcreates.jp www.lguplus.kr
www.itojun.org www.monash.edu.my www.huntergroup.co.nz www.vkdb.jp
www.daum.net eng.mict.go.th www.naver.com www.isoc.lk



Sampling of US Government sites

Veterans Affairs (www.va.gov)

Commerce (www.commerce.gov)

Census (www.census.gov)

FAA (www.faa.gov)

Education (www.ed.gov)

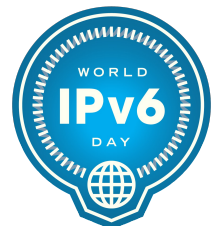
State (www.state.gov)

Treasury (www.treasury.gov)

Defense (www.defense.gov)

Energy (www.energy.gov)

...



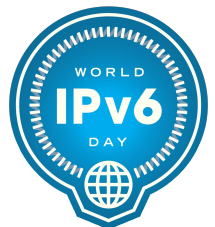
Hosting companies added thousands of domains...

www.host.md (@4500 - permanent)

www.task.com.br (@7000 – left on)

www.df.eu (@700,000)

www.strato.de (@4,000,000 – on now)



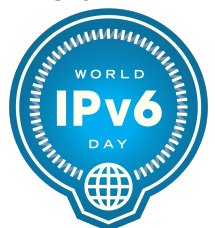
Documenting Success

Improved connectivity

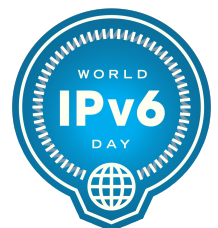
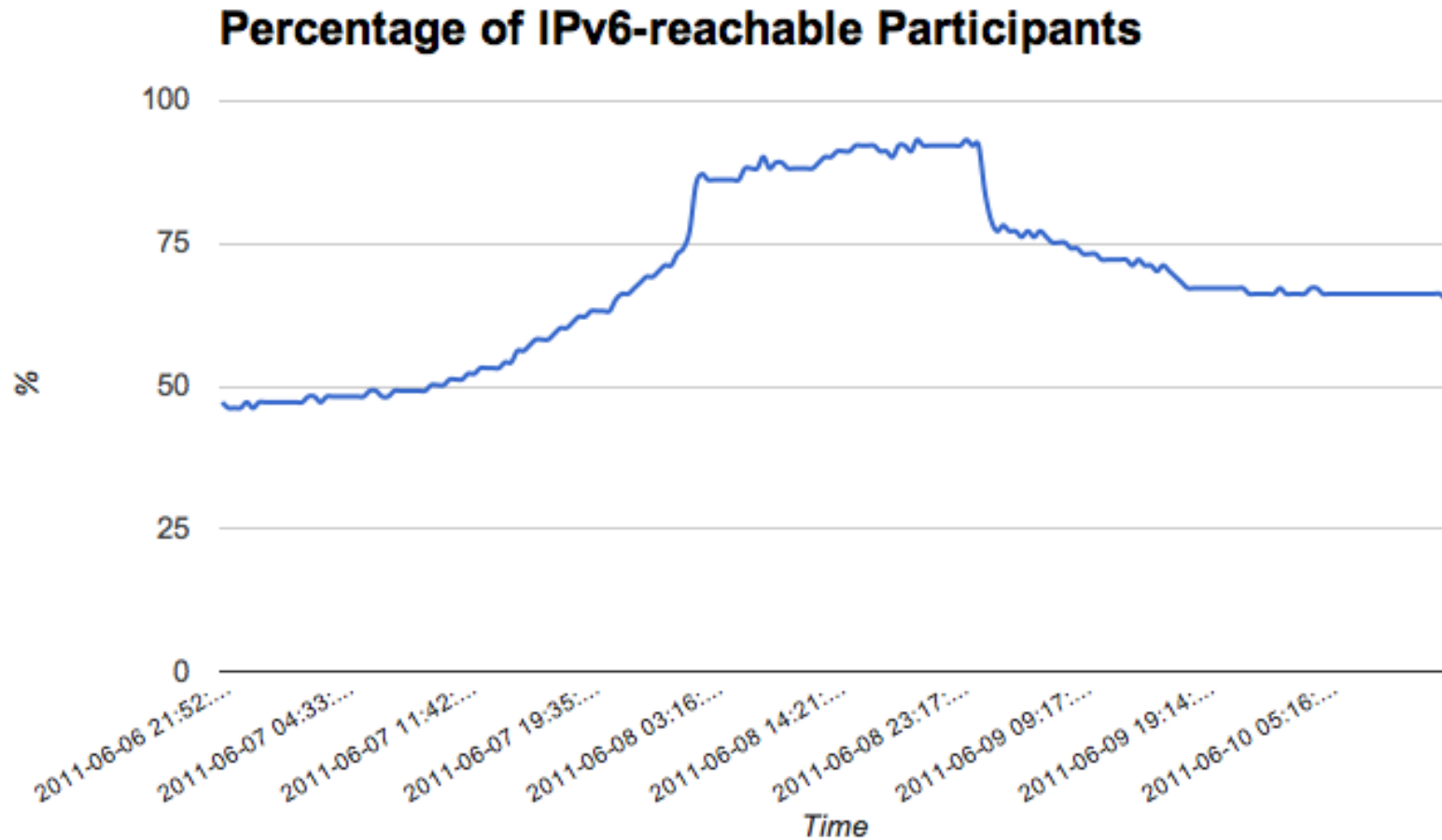
- **Large websites had their finger on the pulse of this important aspect of June 8 and the need to move forward with IPv6**

Participating sites

- **Documented through an IPv6 reachability dashboard**
 - <http://www.worldipv6day.org/participants-dashboard/index.html>
- **Longer term goal is permanently turning up IPv6:**
 - some of that happened on the day;
 - some will happen as a result of the activities on the day, but later;
 - some will need more time
- **Roughly $\frac{2}{3}$ of the participating sites who contacted us remained on IPv6 after the test period**



Participating Websites Graph



Links

World IPv6 Day website

<http://www.worldipv6day.org/>

List of Participants

<http://www.worldipv6day.org/participants/index.html>

IPv6 Enabled Websites

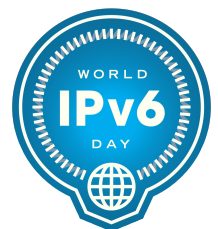
<http://www.worldipv6day.org/v6-enabled-websites/index.html>

Dashboards (ISOC, US Govt, RIPE NCC, Akamai, Arbor)

<http://www.worldipv6day.org/participants-dashboard/index.html>

On Twitter

[#WorldIPv6Day](https://twitter.com/WorldIPv6Day)



Thank you!

Questions? Comments? Feedback?

Rajnish D. Singh

singh@isoc.org

Tel: +1-650-918-6170

InternetSociety.org
info@InternetSociety.org