

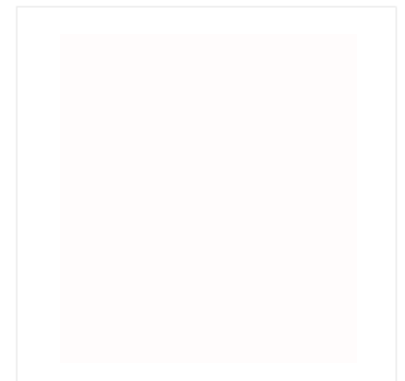
From World IPv6 Day to World IPv6 Launch: This time it's for real

Mat Ford

www.WorldIPv6Launch.org

World IPv6 Launch 2012

- **This time it's for real: 6 June 2012 is the kick-off date**
- **Regular business operation with IPv6**
- **“On by default”**
- **Commercial IPv6 at scale by year-end.**



IPv6 is a “Must Have” Technology

Connectivity

- No, you cannot have more IPv4 addresses
- Even if you could, connecting the next 4 billion requires something more than IPv4 can ever do

Innovation

- Additional infrastructure inhibits innovation through operational and technological constraints
- IPv6 enables an open, fully connected Internet
- Permission-free innovation is a key part of what makes the Internet the network that it is – where will the next Google or Facebook come from?



Where are we coming from?

What was World IPv6 Day?

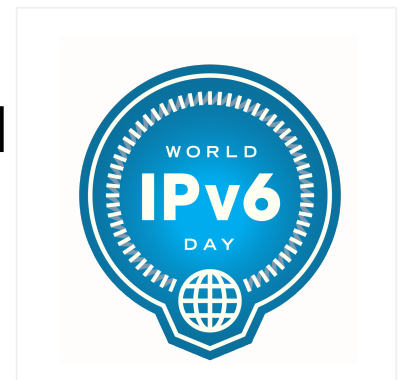
www.worldipv6day.org

**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”**

Goals:

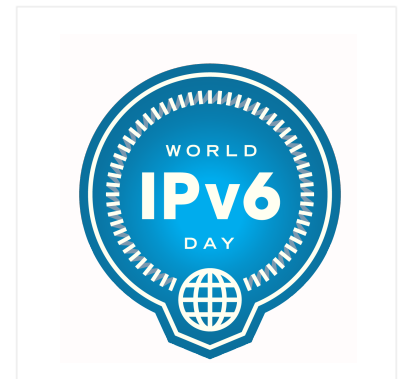
- **Motivate Internet service providers, hardware makers, operating system vendors, Web companies and others to prepare their services for IPv6**
- **Understand what issues still need to be addressed to ensure a successful transition to IPv6 as IPv4 addresses run out.**

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



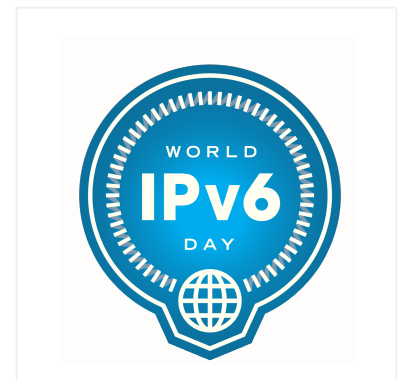
Motivations for the World IPv6 Day Event – and Impacts

- **Breaking the chicken-and-egg problem of IPv6 deployment – networks clearly see that content is getting there**
- **Improving IPv6 connectivity by understanding outstanding issues faced by a small percentage of users (but significant numbers for large content providers) – more fixes are in flight**
- **Providing a target date for already planned IPv6 rollouts – people definitely responded to having a date**
- **Spurring organizations to create a plan for rolling out IPv6 – being like Google, Facebook, and Yahoo! is important**
- **Catalyzing the kind of collaboration that the Internet has relied upon through its history – people noticed that the Internet industry came together to advance something that is important for the overall long term health of the Internet**



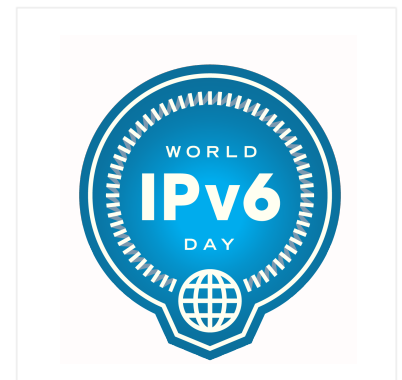
What happened?

- **Nothing! (this was terrific)**
- **Provided a basis for the world to think about IPv6, this can be done, won't break.**
- **Traffic numbers were low globally (< 1%), but in France >3% of traffic was IPv6, due to one IPv6 enabled network (Free)**
 - this demonstrates that if you enable your network with IPv6, it will get used with IPv6
 - this will be true wherever IPv6 is turned up.
- **Only isolated issues reported**



World IPv6 Day Impacts

- **Have heard other industries say: “Well, that clearly worked.”**
- **It was collaborative effort, across business boundaries**
- **What this means for the operator community: content providers are ready; if you provide access over IPv6, increasingly you will have traffic**
- **World IPv6 Day blew the doors off some preconceptions:**
 - that IPv6 isn’t doable, and won’t be done
 - that industry players can’t coordinate
 - we’ve seen and heard repeated evidence of “changed minds” because of the event



Where are we going?

World IPv6 Launch

www.worldipv6launch.org

When?

- 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 participating, please join – 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 are establishing IPv6 as the new normal



World IPv6 Launch: Access Networks

Who?

- **ATT, Comcast, Free, Internode, KDDI, Time Warner Cable, XS4ALL**
- **Additional networks are welcome to join, see: www.worldipv6launch.org**

IPv6 becomes part of Regular Business now

- **New subscribers get IPv6 on by default after 6 June 2012**
 - No user config required
- **1% of visits to IPv6-enabled websites from participating networks is done using IPv6 by 6 June**
 - IPv6 usage will depend on IPv6 capabilities of home networks and home equipment, so the enabled customer base should be higher
 - This will be measured by the big participating websites



World IPv6 Launch: Home Router Vendors

Who?

- Cisco, D-Link
- Additional home router vendors are welcome to join, see: www.worldipv6launch.org

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 verification by UNH-IOL (and others?)



World IPv6 Launch: Websites

Who?

- Facebook, Google, Microsoft Bing, and Yahoo!
- Others are welcomed to join, see: www.worldipv6launch.org
- Akamai and Limelight are enabling their customers who ask for it.

IPv6 becomes part of Regular Business now

- IPv6 is permanently enabled on the main website
 - No IPv6 specific URLs (www.ipv6.example.com) or mirror sites
- IPv6-enabled users will use IPv6 without extra configuration
- The World IPv6 Launch website will have a reachability dashboard similar to what was used in 2011 for World IPv6 Day



Joining World IPv6 Launch is a Commitment to Commercial-grade IPv6

- **Industry leaders are committed**
- **Aims to encourage additional commitment**
- **Builds on and makes a significant step up from World IPv6 Day in 2011**
 - World IPv6 Day blew the doors off some preconceptions:
 - that IPv6 isn't doable, and won't be done
 - that industry players can't coordinate
 - we've seen and heard repeated evidence of "changed minds" because of the event





Is for realz now. Srsly.



**THIS TIME IT IS FOR REAL
6 JUNE 2012**

www.worldipv6launch.org