

OMB 2012 RECAP

Agenda



- OMB 2012 Review
- NIST adoption metrics
- Another view of government adoption



OMB IPv6 2012 Requirements



"Upgrade public/external facing servers and services (e.g. web, email, DNS, ISP services, etc.) to operationally use **native IPv6** by the end of FY 2010 IPv6 Memorandum

- All network services provided to the general public over the Internet must be accessible via both IPv6 and IPv4
 - External web (HTTP)
 - Email (STMP)
 - Domain name system (DNS) services
- Internal network services and external services only accessible over a VPN or with a login and password are not required to support IPv6.

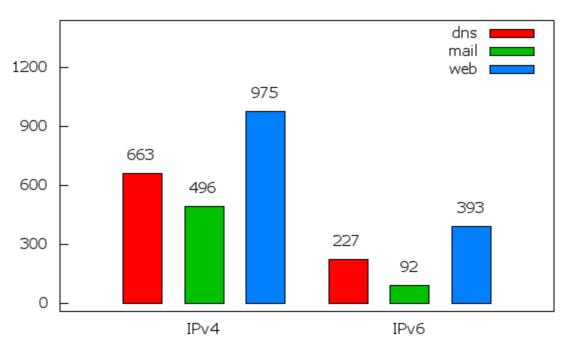
Source: Federal Government Adoption of IPv6 FAQ



Current Status As Measured by NIST







DNS 25.5% Mail 15.6% Web	28.7%
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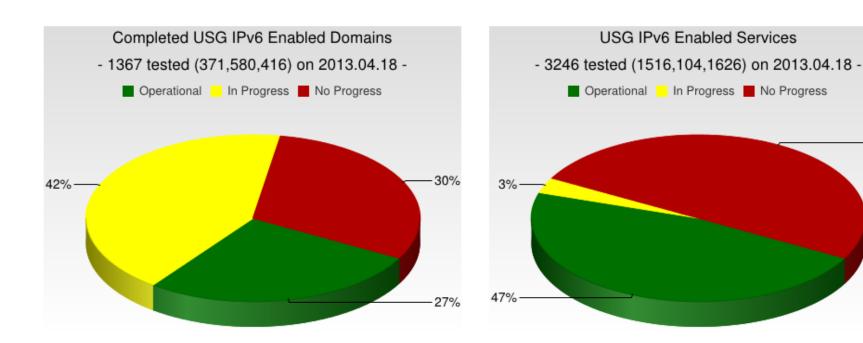
Source: http://fedv6-deployment.antd.nist.gov/cgi-bin/generate-gov



NIST IPv6 Snapshot



50%



USG IPv6 Enabled Domains

- 1367 tested on 2013.04.18 -

Source: http://fedv6-deployment.antd.nist.gov/snap-all.html



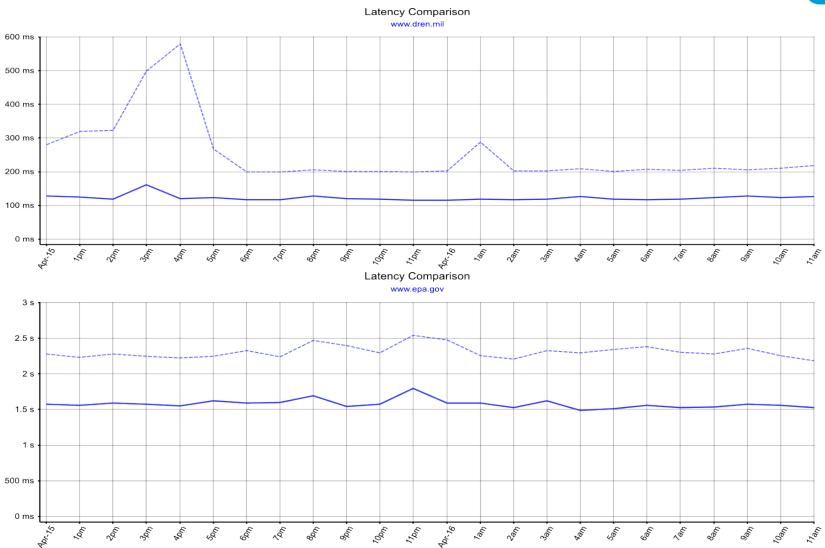
Another Data Driven Perspective on Federal Adoption

- IPv6 Sonar web performance metrics
 - See Ciprian Popoviciu's presentation for more information
- IPv6 Enablement tracked <u>http://usgv6-deploymon.antd.nist.gov/cgi-bin/generate-gov</u>
- Selected 50 agencies listed "GREEN" for IPv6 enabled web service
- Took 2x 24hours samples



Avg Performance 24 Hours Profile - Very Good



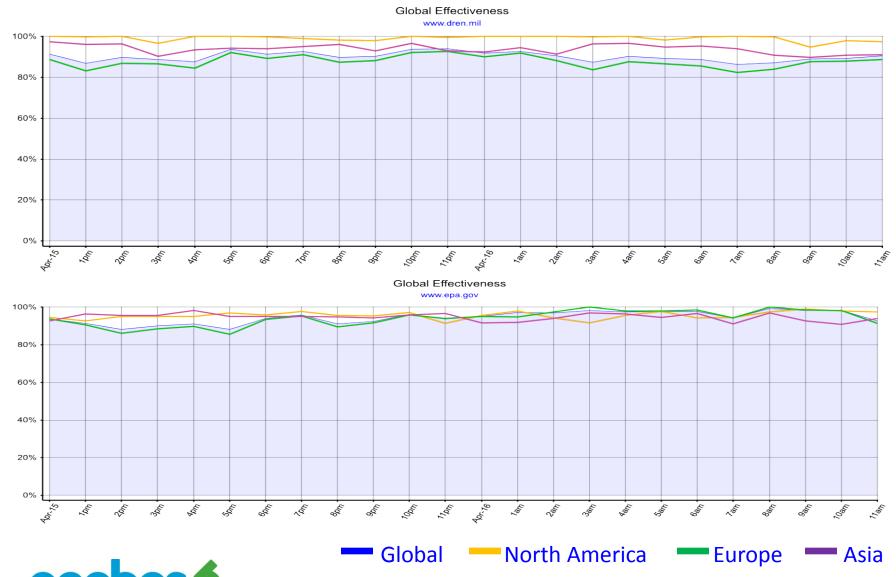






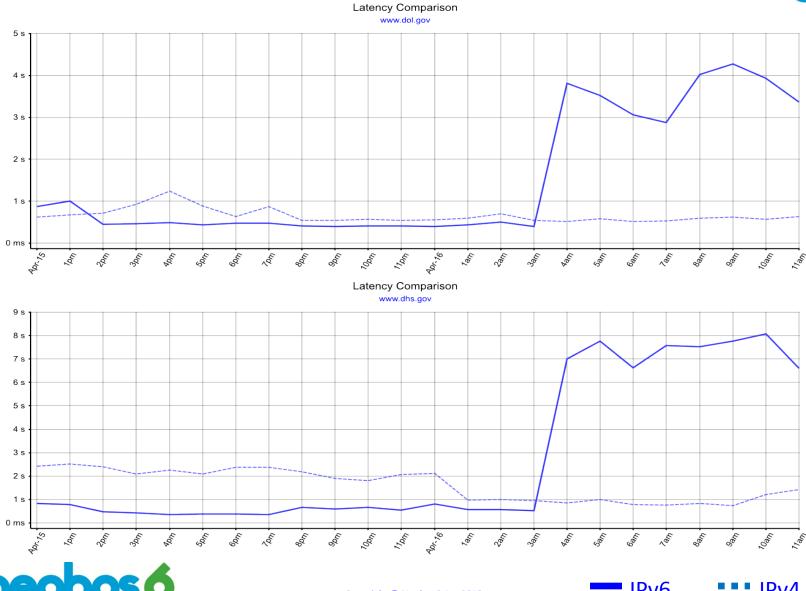
IPv6 Effectiveness 24 Hours Profile – Very Good





Avg Performance 24 Hours Profile – ...



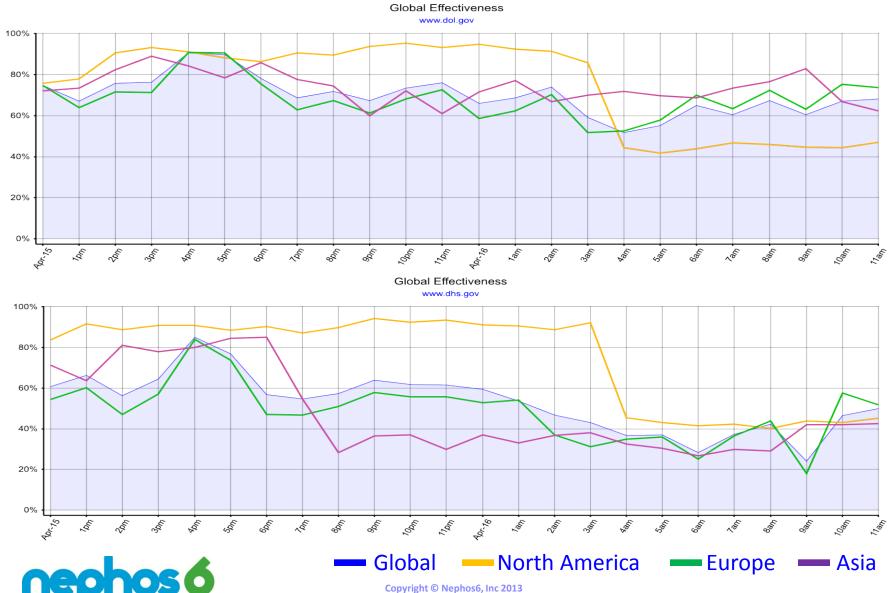






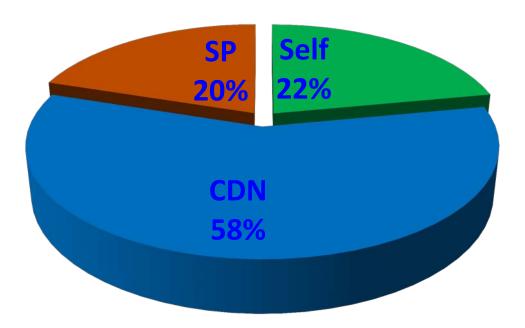
IPv6 Effectiveness 24 Hours Profile – ...







IPv6 Infrastructure

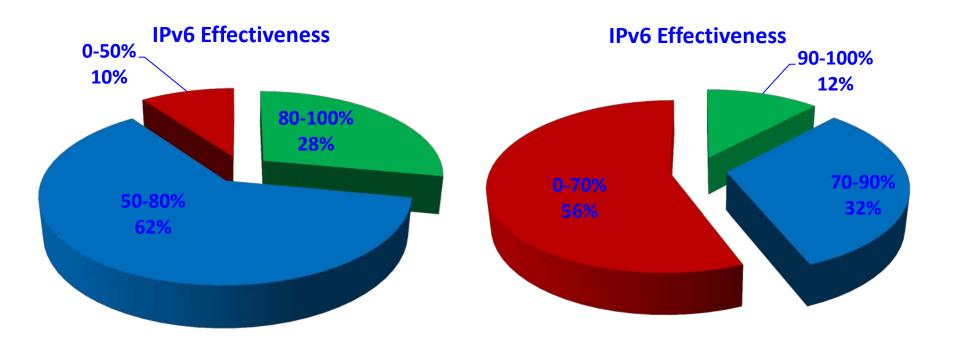


- Most IPv6 enablement is via CDN or CDN/ISP
- Self deployments have the highest IPv6 Effectiveness and the most stabile IPv6 performance
- On average, the poorest IPv6 Effectiveness was for CDN based sites. CDN/ISP IPv6 enabled sites do better



IPv6 Effectiveness of Tested Gov Websites





Increasing Expectations



Conclusion



- 1) We are not there yet
- 2) There are real implications to the "short path" approach to compliance
- 3) It is not just about "meeting the mandate" needs to be also about doing it well





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