IPv6, DNSSEC, RPKI, etc.:
What's the Holdup and How Can We Help?

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Internet Society

Overview

- Internet Society introduction
- Why IPv6 matters
- New ISOC deployment initiative

Who We Are - "The Internet is for Everyone"

- **International non-profit cause-based membership organisation**

- **Diverse global network of members committed to shaping our future Internet**

- **Mission is to promote the open development, evolution, and use of the Internet for the benefit of all people throughout the world**

- **Neutral and independent voice for the future development of the Internet**

- **Organisational home of IETF**
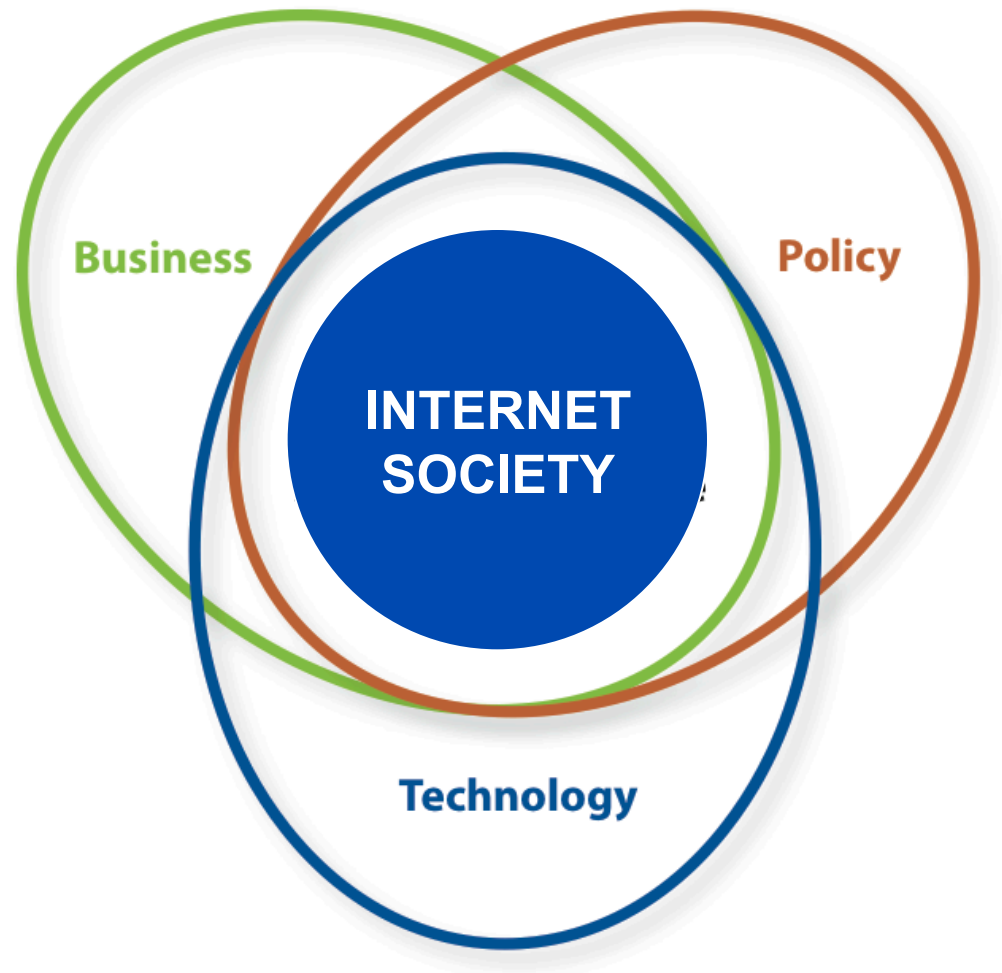
What Makes the Internet Society Unique?

ISOC brings together Internet users to help shape the future Internet

ISOC works at the intersection of policy, technology and business

Promotes access
- Policies and regulation

- Technical capacity development & community building

Business

Policy

INTERNET SOCIETY

Technology

Why do we want the Internet to continue evolving?

- ### More new stuff
  Innovating without permission

- ### More people
  Enjoying the same Internet we enjoy today

- ### More devices
  Supporting sensor nets and concepts like "smart grids"

- ### Independent and collaborative networks
  Evolving in their own right

- ### IPv6 deployment is critical to the Internet's growth and evolution

IPv6 Makes Business Sense

IPv4 addresses now have prices attached

NATs are hard and expensive

Party lines don't work for business

Certain apps don't work at all (games)

New markets are going to be driven by IPv6

IPv6 Deployment Already Underway

Free (France)

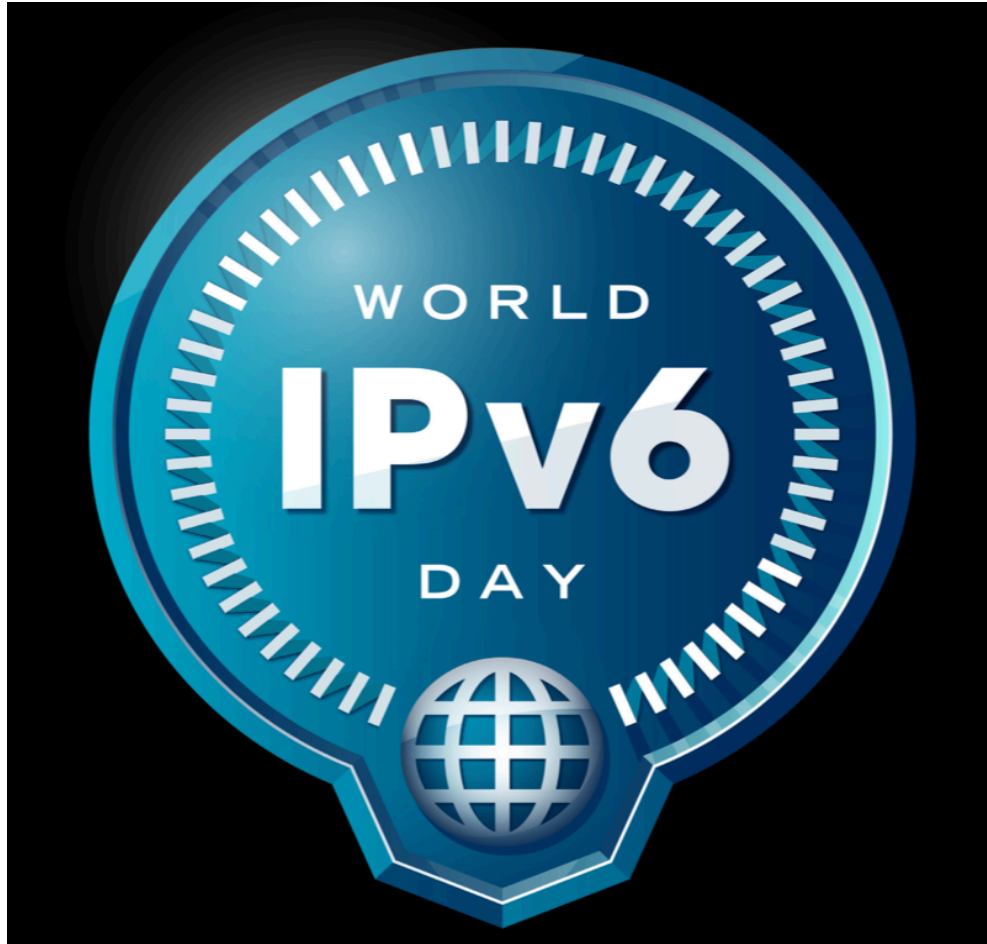**Comcast**

Japanese ISPs

Hurricane Electric

Google

YouTube

The Internet Society

[8 June 2011](#)

http://www.worldipv6day.org

The Internet Society

What was World IPv6 Day?

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."

– 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.

Upcoming Initiatives

Additional world events
– Could target a different segment of industry
– Perhaps longer than a single day event (week)
– Likely mid-2012 with announcement soon

Much work going on behind the scenes
– Meetings with various industry segments
– Bringing together different groups to discuss deployment

Deployment & Operationalization Initiative

Deployment & Operationalization (DO) Hub

DO Hub will work with the first adopter community to leverage their knowledge of new technology deployment and create resources that are easy to understand and quickly actionable by the greater operations community.

Internet Society

Deployment & Operationalization (DO) Hub

Helps you

- DO IPv6
- DO DNSSEC
- DO other future standards

Internet Society ™

What DO Hub Will Look Like

- Online portal for new standards adoption
  - IPv6, DNSSEC, future standards topics
  - Knowledge base with deployment articles
  - Case studies
  - Blogs (deployment commentary)
  - Social media
  - Multiple languages

- ION meeting series
  - Co-located with diverse set of events
  - Events being planned to reach each continent

When DO Hub Will Be Available

- October 2011
  - Preview web presence release
  - Engagement with first adopters to create initial knowledge base articles
  - First co-located ION event in Buenos Aires

- December 2011
  - Official launch of DO Hub resource (may launch with name different than "DO Hub")
  - First knowledge base articles published
  - Social media and blogging

www.isoc.org/do

How DO Hub Will Grow

- New deployment articles will be added to the knowledge base on a regular basis

- Our blogs and social media efforts will provide an ongoing conversation about deployment

- We will feature the work of other groups

- We will add features to this deployment resource in response to feedback received from audiences

- ISOC is committed to this initiative

How to Participate

- Visit and explore www.isoc.org/do

- Help Create Content
  - We are working with first adopters and experts to develop materials
  - We will credit your work

- Help Define New Features
  - We seek your valuable feedback on this deployment resource
  - We have the flexibility to make changes/additions

- Contact us: dohub@isoc.org

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Thank You!