



The Internet Society and IPv6 Deployment

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ISOC Standards & Technology

The Internet Society is...

- A cause-related organisation that works for the open development and evolution of the Internet for all people through work across the areas of:
 - technical standards,
 - education and capacity-building, as well as
 - public policy
- An international not-for-profit founded in 1992 by Internet pioneers with:
 - 90+ organisation members
 - 28,000+ individual members
 - 90+ chapters worldwide
 - Regional Bureaus: Africa, Latin America & Caribbean, South & South East Asia

The programmatic work of ISOC

- Since 2008, ISOC has focused on 3 strategic initiatives:
 - *Enabling Access* – to the Internet through public policy, standards and technology, and new resources;
 - *InterNetWorks* – so that the Internet remains an open end-to-end entity – with all of the associated technological, social and business benefits;
 - *Trust & Identity* – identifying and promoting activities that resolve some of the persistent issues in this critical area.



What makes ISOC unique in tackling IPv6 deployment?

- Focus is the Internet as a global ecosystem
 - Education, Standards, Public Policy
- Organisational home of the Internet Engineering Task Force (IETF), Internet Architecture Board (IAB), and related bodies
- Enable capacity and technical community building throughout the world
- Key player in public policy discussions pertaining to the Internet

Our programmatic work

- **InterNetWorks Global Addressing programme**
 - focus on continued ability for global addressing of the Internet
 - IPv4 free pool runout – policy development
 - collecting and disseminating credible, neutral information about IPv6, IPv6 deployment, transition technologies
 - fostering communications between impacted players
 - reaching beyond technical realm, to governments at global and local scale
 - education and development
- **Promoting the importance of the globally addressable Internet**

Working with partners

- Community Grants Programme
 - Supported Irish IPv6 Summit 2009
 - <http://www.ipv6.ie/summit2009/>
 - Supported Taiwanese Chapter in a project to deploy dual-stack infrastructure to education campuses
 - Up to \$10k available for eligible projects
- ISOC Australia chapter is very active
 - <http://www.ipv6now.com.au/>
 - <http://www.ipv6.org.au/>
- Many other chapters also promoting IPv6 deployment in their own regions and countries

Working on the global stage

- **OECD**
 - OECD Ministerial on Future of the Internet Economy, Seoul, June 2008
 - Coordinated Internet technical community for “Internet Technical Forum” day; establishing Internet Advisory Committee for OECD (2009)
- **ITU**
 - World Telecommunications Standardisation Assembly (WTSA) 2008
 - WTPF 2009
- **European Commission**
 - ICT for a Global Sustainable Future, January 2009
- **WSIS and IGF**

Working for IPv6 education

- Regional NOGs
 - ISOC contributes to fellowship programmes and other meeting costs
 - ISOC develops and contributes to training curricula
- Regional Internet Leaders Forums
 - Educating regional policy makers about the Internet model and the priorities for Internet development
- IETF Fellowships
 - Bringing technologists from the developing world to IETF

ISOC and Technologies



IPv6 Organisation Member Study

- ISOC has about 100 Organisation Members
- Great diversity in size, type of organisation, geographical location, and operational network types
- During Q3-08 we canvassed our members for information about actual deployment of IPv6 in their operational network
- The results were recently published
 - Follow the link from <http://isoc.org/ipv6/>

IPv6 Organisation Member Study

- Respondents varied in IPv4 allocation blocks of from a few addresses to a /8; most of the allocations reported utilisation of their address space at around 80%
- Predominant response to the question about what to do when you can't get more space is not to use IPv6 but to use more NAT
- Predominant response to the question about advantages of IPv6 is of course that it has more addresses

IPv6 Organisation Member Study

- When asked whether an organization would be willing to return any of its IPv4 allocation, almost everyone said “no”
- Response to questions about specific business drivers were pretty vague, but two high runners were 1) needed for IPv6 product development and 2) customer demand
- Specific advice for others interested in deploying IPv6 highlighted the need to start now and the lack of skills and experience in working with IPv6

IPv6 Operator Roundtables

- Discuss operational and technical issues facing operators who are in the process of deploying IPv6 for commercial service offerings
- Identify common issues that require vendor and/or IETF attention
- Build confidence in IPv6 deployment
- Also convening Summit meeting between operators and content providers
 - What are content providers expectations of the network?

Thanks for your attention!

Any questions?