



# ISOC UK England

## So far and what's next


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Presentation for the Internet Society Board of Trustees – 27 June

Three colored circles (blue, cyan, and purple) are positioned to the left of the word "Agenda".

# Agenda

- Why - in the beginning
- So far & what next
- IPv6 Matrix a chapter project
- Questions

Three colored circles (dark blue, light blue, and purple) arranged horizontally.

# Why?

"The Internet is for everyone but it won't be unless we make it so"

Vint Cerf April 1999

<http://isoc-e.org/the-internet-is-for-everyone/>

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## So far -

- Founded in 1998, chapter approved Oct 1999
- Company ltd by guarantee Aug 1999- 2005 - unregistered voluntary association 2005-date.
- Key founders Christian de Larrinaga (chair), Rob Pickering, Simon Forrest, Mick Farmer, Richard Francis, Rosemary Gardener and others
- Over twenty leadership & board members since 1999.
- Chairs Christian de Larrinaga 1999-2003, Tricia Drakes 2003-2012, Olivier Crepin-Leblond 2012 to date.
- Launched at Oxford eBusiness conference Don Heath
- Many policy, technical and community events (see [isoc-e.org](http://isoc-e.org))

# ● ● ● The current team

- Convenors - all volunteers.
  - Dr. Olivier Crepin-Leblond (chair) (Jan 2012)
  - Desiree Miloshevic
  - Christian de Larrinaga
  - Tricia Drakes (immediate past chair)

Three colored circles (blue, cyan, and purple) are positioned to the left of the word "why?".

# why ?

- **Why?** ISOC role keep Internet open - clarity in battle for Controls over Internet existential topics
  - Governance, Standards, Operations
  - User focus or Network or Server/Cloud
  - Uni/Multi-Lateral / -Stakeholder models
- **why?** defining the “ISOC” special sauce locally
  - ISOC relationship in practice
  - ISOC global activities meeting local
  - but ..

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# How?

- Deal with change.. ISOC “members” now chapters, org., IETF
  - new BoT relationship and responsibility
  - Staff relationship - how best to work together?
  - other Chapters - ditto
- ISOC mail list cannot be voting members
  - but ideal contact point with prospective participants
- Challenge to engage from this list into dedicated active supporters and participants

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# Communications to community

- > 2000 on our open ISOC signup list
- local IPv6 (dual) web/email (since June 2011 :-))
- Policy Discussion List - now 90+ active
  - Internet Governance
  - Nominet consultations
  - Surveillance
  - Privacy & Identity
  - Internet Filtering
  - IPv6



# Internet Governance

- Participate in HMG convened UK Multi-stakeholder Advisory Group on Internet Governance (MAGIG):
  - WCIT 12 and post WCIT work
  - WSIS+10
  - DCMS, FCO, OFCOM, BIS,
- Now regularly called on for advice and input on IG related and some diplomatic events.

## Internet Governance (2)

- Co-organising partner of UK IGF since 2011
  - Providing remote participation since 2012
  - Organised networking reception in 2013
  - organised several workshops, panels
    - on IPv6
    - on Identity, Privacy
  - **Next UK IGF: 1 July 2014**
    - IPv6 panel, Cyber Security inputs.

# ● ● ● Hold Signature events

- March 2014 “Parliament meets Internet. Surveillance, the digital economy & the Open Internet.”
  - Thought leaders in Internet Standards and Parliamentary oversight organised by the Chapter at the UK Parliament during the IETF Meeting.
  - Available on: [http://youtu.be/Z\\_3RO3vJ8ug](http://youtu.be/Z_3RO3vJ8ug)
  - Post event reception (Afilias sponsored)

# community to stakeholders

- Connect ISOC role (global/local)
  - not JUST about beer! (that helps!)
- Being useful
  - services e.g., events, panels for events, live streaming, webinars, input into policy, engaging hard to convene stakeholders
- communities  $\longleftrightarrow$  chapter  $\longleftrightarrow$  MS

# ● ● ● Some communities

- IETF/IAB/ISOC staff in UK
- Operators: UKNOF, Nominet, LINX, ...
- Academia: OII, UKERNA etc
- Web Sciences Institute (W3C)
- Prof. orgs.. BCS, IET, IEEE
- User “at the edge” perspective
- Parliament: Pictfor ...
- HMG Depts.

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# Local topics needing attention

- Energise MS in UK Internet Governance
- to Poll interest in an ICANN At-Large org
- Enhance engagement with UK Government
- Pushing for IPv6 Adoption in the UK
- Security, Privacy, Surveillance, Filtering
- IoT and real time web awareness
- Engagement as and with ISOC communities

## ● ● ● Next - what..?

- Broaden “convenor team”
  - invite Topic convenors
  - invite Community convenors & engage orgs
- Webinars (from c. Sept 2014) 1 x month
- Local Meetups (topics, communities)
- to a Ltd Liability structure
- Local ISOC “Convention/INET/AGM” early 2015
- Establish “key” partners & sponsors

## ● ● ● Next - finance & flow ..?

- Plan needed - c. £40k-£50k (2yr cover)
- An. baseline Rev to plan c. £24,000 in 2015-2016 for an expense reimburse model
  - “convenors” £6,000 baseline activities  
£10,000 admin and part time staff £4,000  
formalise structure, contingent £4,000.
- + events on a sponsor / grant model
  - Convention/INET event 2015 ?£12,000
- ISOC global community input wanted





# ipv6matrix.org

a chapter project measuring IPv6 adoption

founded by

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with appreciation for support of

Internet Society grants programme  
University of Southampton, Nile University, 2020Media,  
GIH.com, [FirstHand.net](http://FirstHand.net)

# ISOC UK England IPv6 Matrix

- A tool that measures IPv6 deployment by looking for and testing DNS entries in the Alexa top 1,000,000 domain list (a free download)
  - <http://s3.amazonaws.com/alexa-static/top-1m.csv.zip>
- Initial 'crawler' code was developed by ISOC England in conjunction with Nile University in 2009/10
  - ISOC Chapter Project Grant in 2009
  - Started crawling the data, with basic display mechanisms
- Due to Arab Spring, the development was interrupted
  - But the project now has three+ years of data

# ISOC UK England IPv6 Matrix

- A second, smaller ISOC Chapter Project Grant was received in 2012
- Collaboration with University of Southampton Web Sciences Unit.
- Southampton Team led by Dr. Tim Chown
- “The ISOC customer brief was to improve the presentation of the crawler data
  - And as a secondary priority to harden the crawler
  - Included Open Data principles (see <http://theodi.org>)
  - As part of project, crawler moved to Southampton
  - Students had 10 weeks in total to solicit requirements, design and build a prototype to the customer’s satisfaction”

# ISOC UK England IPv6 Matrix

- A completely new visualisation interface was built
  - Uses data from past three years
  - Gives global view, allows you to zoom in by country
  - Can view any measured stats, and filter on various properties
  - Can export stats in a variety of non-proprietary formats
  - See <http://www.ipv6matrix.org>
- Crawls are continuing to run, and more frequently given the good IPv6 connectivity at Southampton
- Some examples follow...



IPv6 Hosts

Dual Stack

Ping

Path

Reachability

IPv6 Domains

Domain Search

# IPv6 adoption around the Globe

Date  
January 2013

Info  
Welcome to IPv6Matrix.org.

The IPv6Matrix is a tool to gather and visualise data on IPv6 (Internet Protocol v6) deployment and accessibility from the top one million domain names around the world, since 2010.

[More about the IPv6Matrix »](#)

The globe displays every countries' overall IPv6 adoption over time.

- Drag the globe to rotate.
- Drag the red slider to control the date



0% 77%  
IPv6 enabled Hosts

August 2010

< January 2013

> December 2013



IPv6 Hosts

Dual Stack

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Domain Search

## IPv6 Hosts

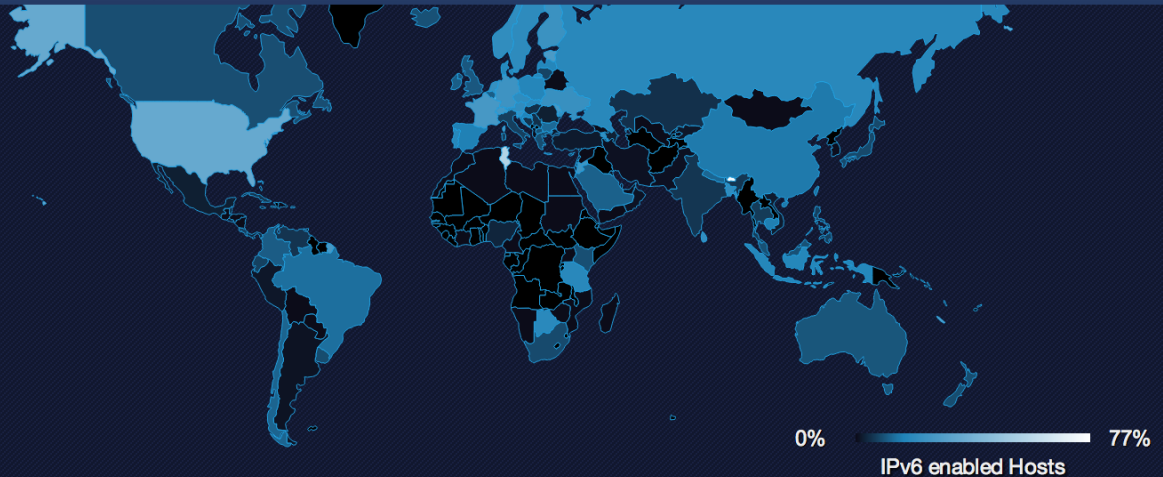
Country  
*Global*

Date  
*December 2013*

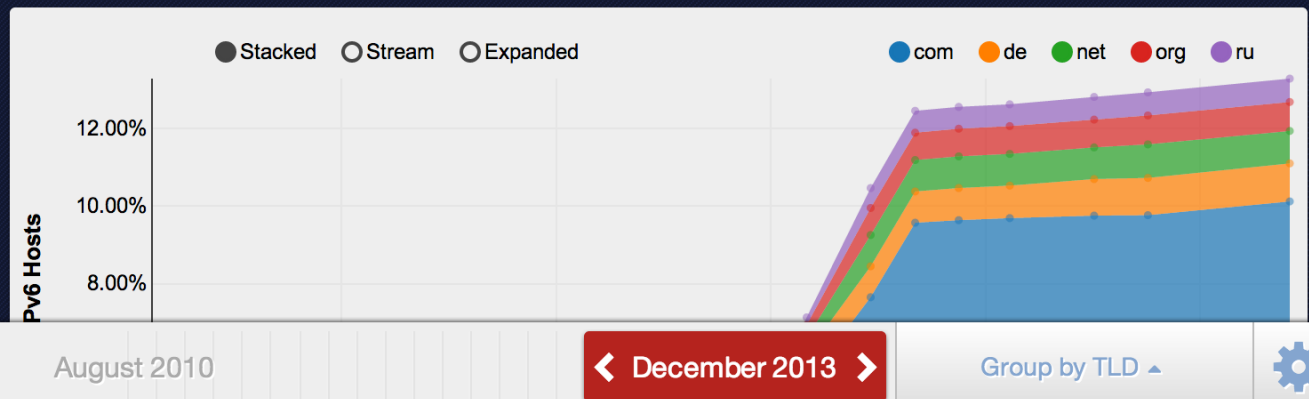
Info  
This page displays an overview of IPv6 host adoption around the world.

A 'host' is a computer connected to a network, in this case it defined by a hostname entry in the DNS records for a domain (eg. `www.example.com`, `mx.example.com` or `ns1.example.com`).

A host may have have IPv4, IPv6 or both types of IP addresses listed in its DNS record using A and AAAA entries. If a host has a valid AAAA record it is considered an IPv6 enabled host.



## IPv6 Host percentage by TLD over time ?




[IPv6 Hosts](#)
[Dual Stack](#)
[Ping](#)
[Path](#)
[Reachability](#)
[IPv6 Domains](#)
[Domain Search](#)
[IPv6 enabled Domains](#)

## IPv6 Domains

Country  
*Global*

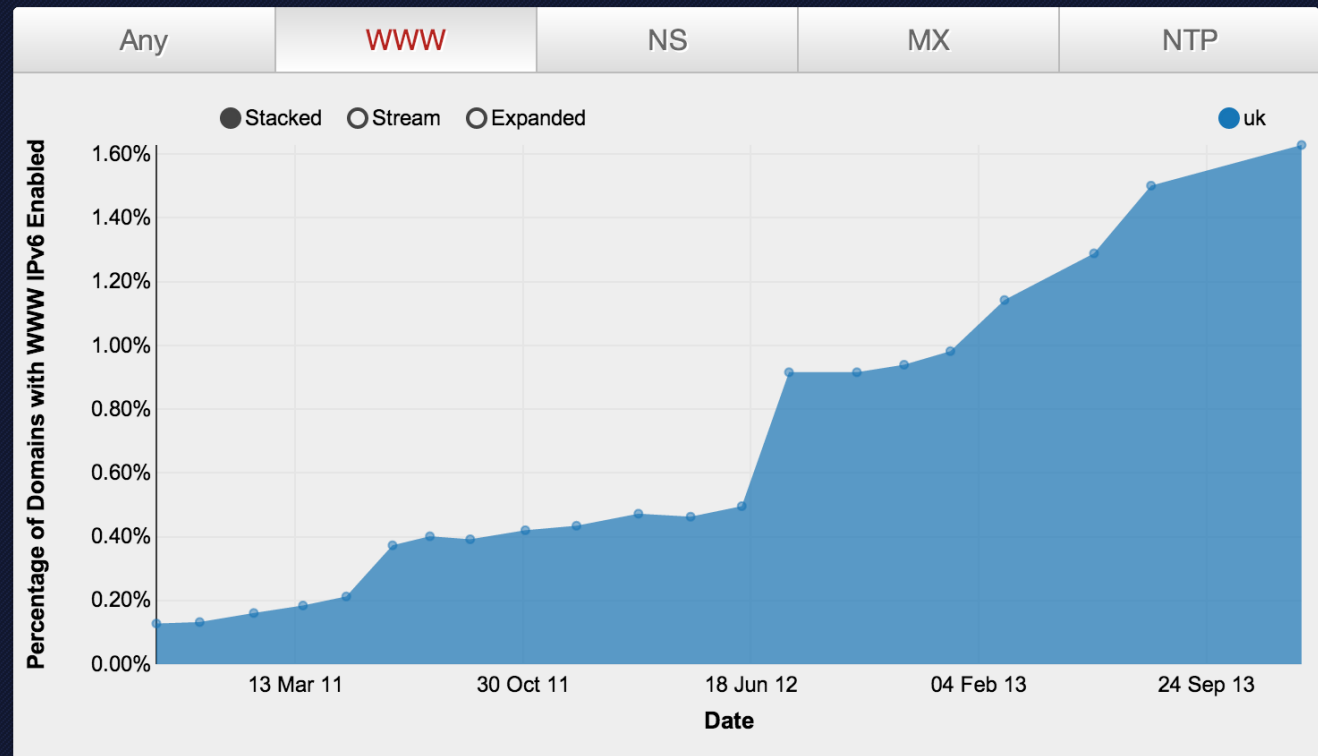
Date  
*December 2013*

Info  
This page displays an overview of IPv6 enabled domains.

A domain name may have many different hosts for a particular server type, for example email (MX) but only one needs to have an IPv6 address for that domain to be able to send and receive email over the IPv6 internet.

Here, a domain name is considered to have implemented IPv6 if it has one or more IPv6 (AAAA) entries in any of its DNS records, this includes web, name, mail and time servers.

## IPv6 enabled Domains by TLD over time ?


[October 2010](#)
[◀ December 2013 ▶](#)
[Group by TLD ▲](#)


# ISOC UK England IPv6 Matrix

- A new version of the IPv6 Matrix is now available
  - Significant improvements to interactivity
- Shows potential for organisations/companies to work with universities to prototype ideas
  - There are lots of very good students out there!
- Promotes use of Open Data
  - We urge other measurement projects to publish their data
  - Goal is to enable interesting data mash-ups
- We need your feedback
  - Send to [feedback@ipv6matrix.org](mailto:feedback@ipv6matrix.org)





# Thank you

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<http://internetsociety.org.uk/>