



TASK FORCE
PERU

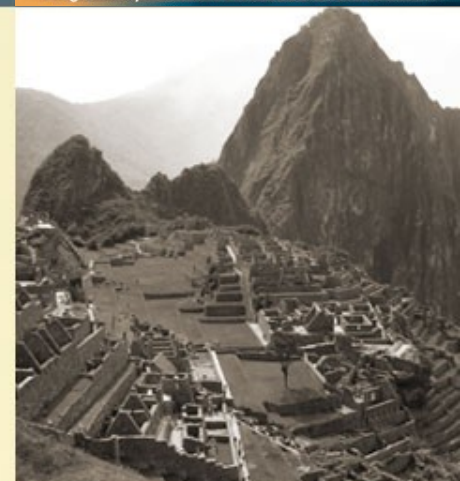
I Cumbre Peruana
de IPV6

POS_CONHECIMENTO
Programa Operacional Sociedade do Conhecimento

IPv6 Benchmarking

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FCCN

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Foundation for National Scientific Computing



Agenda

- Automated Sources
Network Data
- Online Questionnaire



Automated Sources

- From RIPE, Local Internet Registries
 - ROUTES
 - DNS
-
- Focused on Europe

Automated Sources

[illegible]

Automated Sources

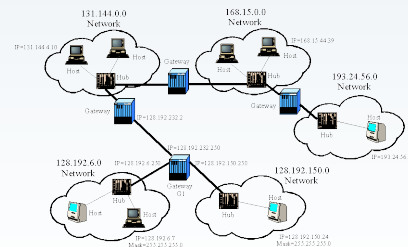
<i>Indicator</i>	<i>Value (Nov'2004)</i>	<i>Value (Apr'2005)</i>	<i>Value (Mar'2006)</i>	<i>Value (Aug'2006)</i>
<i>Global Routing</i>				
<i>Research & Education Networks</i>				
<i>DNS</i>				
<i>IP Task Force</i>				

LIRs & Routes

- Check «IPv6 Status in Europe» Presentation

11% LIRs in Europe have IPv6 blocks
815 IPv6 routes vs. 215.438 IPv4 routes
723 IPv6 ASes vs. 24895 IPv4 ASes

2,90%



DNS – Top Level Domains

- **TLDs are getting IPv6 support smoothly**

This means having at least one IPv6-enabled DNS authoritative nameserver

- **91 TLDs with support, so far!**
82 country code TLDs (ccTLDs)
plus 9:
AERO, BIZ, CAT, COM,
INT, MOBI, NET, ORG, TRAVEL



Online Questionnaire

- IPv6 TF-SC project
www.ipv6.eu
- On surveys.ipv6.eu
Still Running...
- Little input (number of answers)
Only 82
- Big % of IPv6-aware people
Bad sampling


IPv6 Task Force - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.ipv6.eu/

CGD abola.pt - «A BOLA ... Bola Jogo FCCN Gigapix TSF UHora Orkut CN P Intra

abola.pt - ... Tráfego - FC... Jra3Working... WWE - Res... icann ipv6 v... Browsing ne... (Untitled)


A NoNATnet - Two-Way net

Search: >>


Sitemap ? Glossary


© European IPv6 Task Force, 2006

IPv6	General	National Task Forces	Documents	Activities	Links
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IPv6 TASK FORCE

News

4/18/2007
Innofone.Com
 Appoints Industry
 Leader Alexander
 Ramia to Chief
 Technology Officer
 (RedNova) 
 Innofone.com, Inc.
 (OTCBB: IMEN), a


IPv6 TODAY
 IPv6 allows the Internet to
 do what it was originally
 intended to do: providing
 an unlimited number of
 machines with two-way
 connectivity just like the
 telephone network.
 Internet usage will be
 transformed.

more >>


NATIONAL TASK FORCES
 Spreading the word about
 IPv6.
 What is happening and
 where? Read about it here!
 more >>

Benchmarking Survey

- Questions about:
Connectivity (4)



Services (5)



Products (3)

Training & Events (4)



Foreseeing Evolution (4)

Results

- 80 Answers:
29 countries

Europe: 54

Asia: 9

Latin America: 4

North America: 5

Oceania: 2

Africa: 0

“Outer Space”: 6 ;-)



Answers from...

- EUROPE

Answers	Countries
14	UK
8	DE
6	PT
5	SE
4	FI
3	IE
2	NL, PL
1	FI,CZ,HU,IT,LU,MT,UA,RO,IL,CH,NO,RU

A. Connectivity

- Already Using IPv6?

Yes=80%; No=20%

- Which IGP?

OSPFv3=30%; IS-IS=21%; Other=39%; N/A=10%

- Which Transit Provider?

Global Crossing, Geant2, Tiscali, NTT, RedClara, Sprint, BT, TDC, Teleglobe, Freenet6, NorduNet, Telia, ...

- Which IXP?

AMS-IX, FICIX, NETNOD, DE-CIX, LINX, GIGAPIX, INEX, INXS, NIX, SIX, PARIX, VIX, LONAP, LIPEX, UK6X, ...

B. Services

- IPv6-Enabled Web?
Yes=41%; No=59%
- IPv6-Enabled DNS Servers?
Yes=41%; Some=28%; No=31%
- IPv6-Enabled Mail Exchanger?
Yes=29%; Some=26%; No=45%
- IPv6 App usage? Porting?
Yes=45%; No=55%, Yes=8%; No=92%

C. Products

- Routing?
Cisco=54%; Juniper=30%; Linux=13%; Foundry=4%
- Security?
Cisco=17%; Linux=15%; *BSD=10%; Juniper/Netscreen =5%;
Checkpoint=3%
- Other?
Linux=12%; MS=8%; Cisco=4%; BSD=3%; Meinberg=1%;
Panasonic=1%

D. Training & Events

- Attended?
1-3=50%; None=40%; 4-10=9%; >Ten=1%
- Organised?
None=66%; One=15%; >Two=11%; Two=8%;
- Docs about IPv6 written?
None=62%; 1-5=28%; >Five=10%
- # Persons with IPv6 Training inside your Organisation?
1-10=50%; None=33%; >Ten=17%

E. Foreseeing IPv6 Evolution

- Adoption by your Org?
Already=64%; 2007=16%; Don't Know=10%; 2008-2010=7%;
>2010=3%;
- When Global/Mass IPv6 Deployment?
>2010=46%; 2008-2010=32%; Don't Know=9%; Never=5%;
Already=4%; 2007=4%
- Opinion, Key aspect of IPv6?
Expanding IP=72%; Convergence=16%; Costs=1%

E. Foreseeing IPv6 Evolution

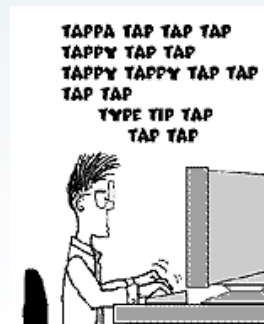
<i>Is this a barrier/challenge for IPv6 take-up?</i>	<i>Yes</i>	<i>No</i>
Lack of networks to connect to	71%	29%
Lack of staff to initiate the migration process	54%	46%
Cost of Software Licenses or Hardware Upgrades	55%	45%
Cost of training staff	28%	72%
High confidence on IPv4 NAT-based solutions	59%	41%
Availability of IPv4 addressing	57%	43%
Lack of Customer Demand	88%	12%
Lack of Business Cases	90%	10%

IPv6 or IPv4 ?

**How many people used IPv6
to answer the questionnaire?**

(i.e. IPv6 browser+IPv6 internet)

27 out of 82 (about 32,9%)



Conclusions

- Little Evolution
- Some important pieces of the puzzle are in place
- Poor cooperation
- Low levels of awareness
- Suggestions of new metrics to be measured welcomed! ...



Questions

