

Update from the RIPE NCC



RIPE NCC

Located in Amsterdam

Not for profit membership organisation

6583 active members (1 january 2010)

650 new members in 2009

Started by the RIPE community in 1992

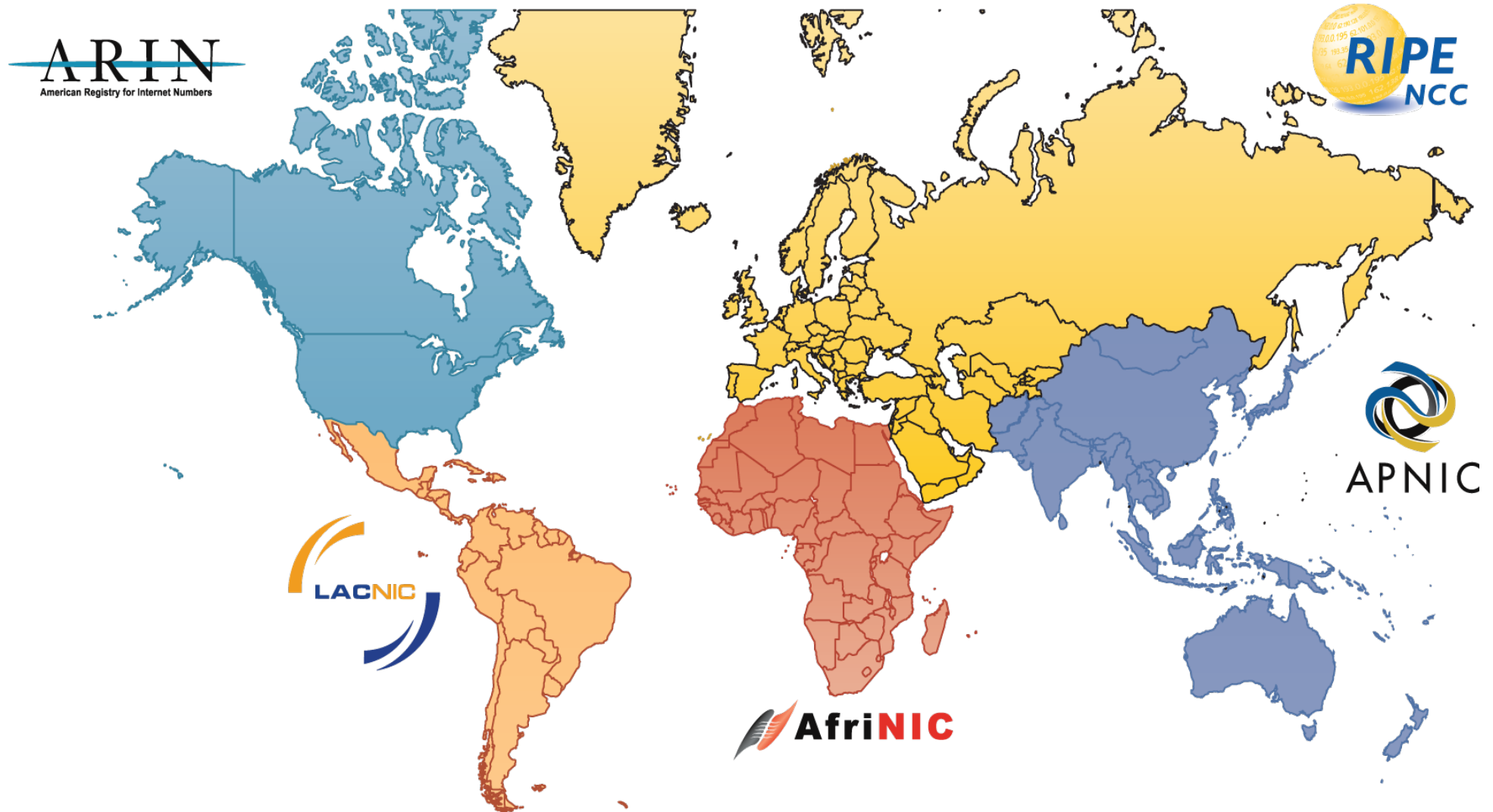
One of five RIRs



The RIPE NCC's Tasks

- Facilitate technical coordination of the Internet
- Acts as one of the world's five Regional Internet Registries (RIRs):
 - Registration and allocation/assignment of
 - IPv4 addresses
 - IPv6 addresses
 - Autonomous System Numbers (ASN)
- Support for the activities of **RIPE**
- Services for RIPE NCC members
 - Public Registry (aka RIPE Database)
 - Technical Services: IS, DNS
 - Training Services

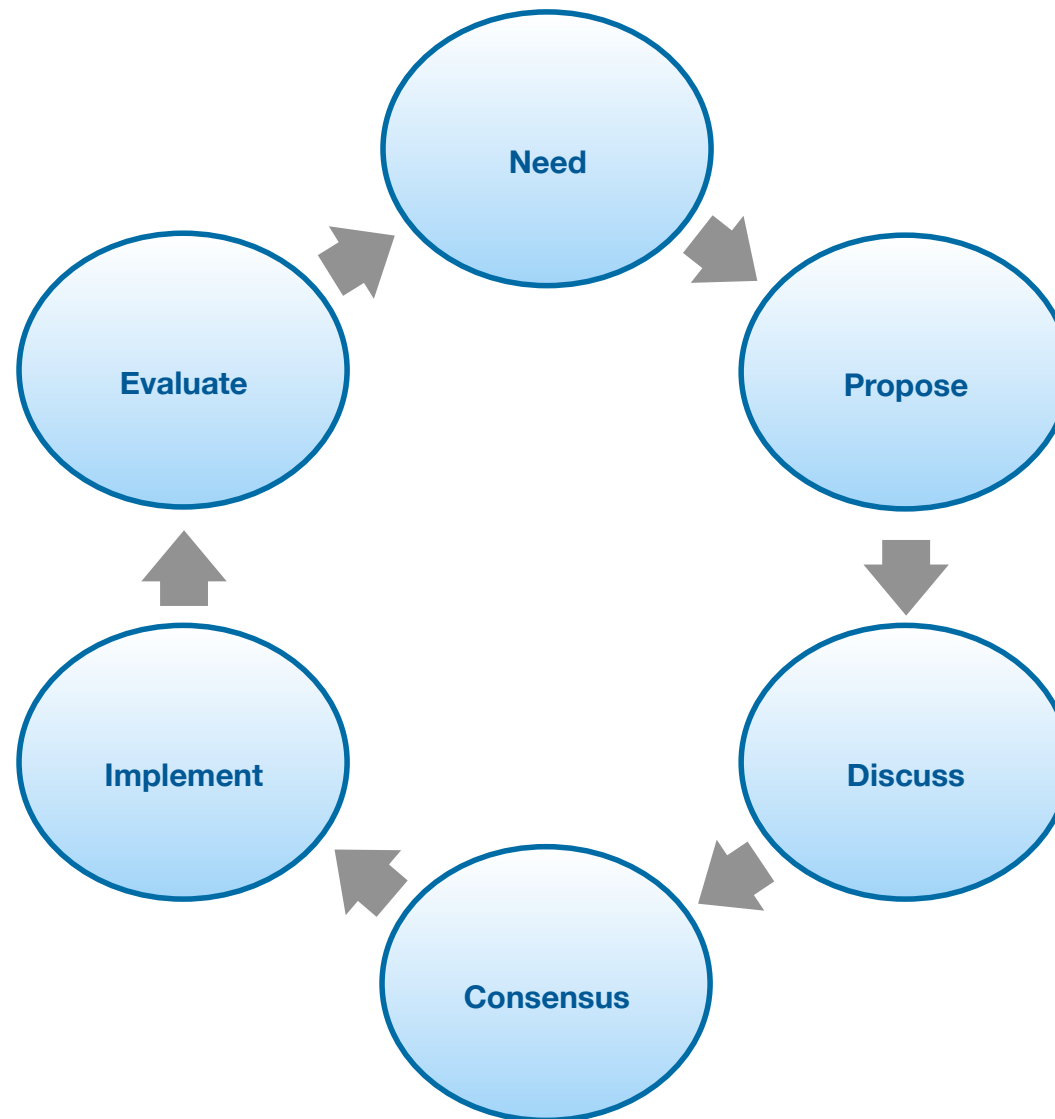
The five RIRs



Goals

- Registration
 - Ensure uniqueness of Internet number resources
 - Provide contact information for users of Internet number resources
- Aggregation
 - Provide scalable routing solution for Internet
- Conservation
 - Efficient use of limited number resources based on need

Policy development cycle



RIPE NCC Update

- Registration Services update
- Information Services
- New Initiatives
- Meetings

Registration Services: 2007-01 Status

- Contractual Relationship with PI Assignment Holders
- Phase 1 Implementation:
 - From 3 March 2009:
New PI assignments require contractual relationship
- Phase 2 Implementation (Extended to 17 May)
 - State whether resources used for LIR's network infrastructure / used by one of the LIR's End Users / End User no longer the LIR's customer
- Phase 3 Implementation:
Chasing orphaned End Users

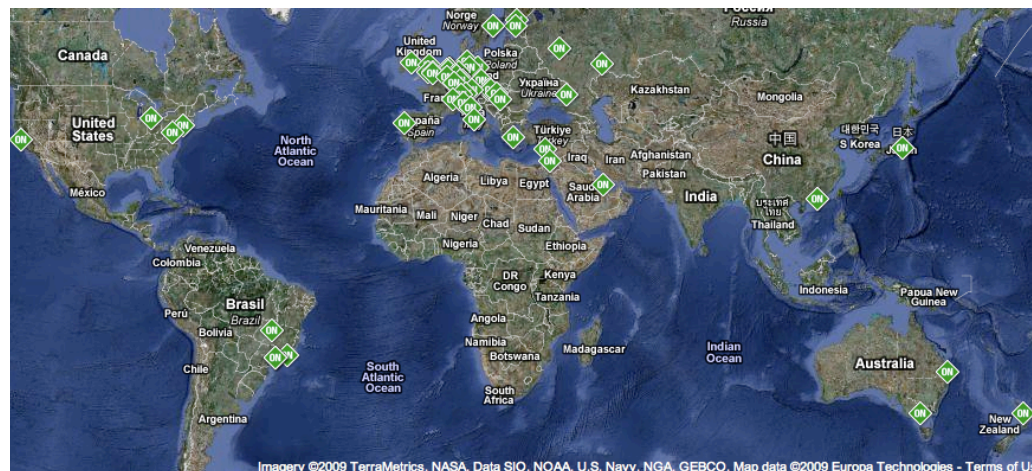
Registration Services: Reclamation and Audit

- Reclamation project:
 - “Pending closure” LIRs
 - Since 2007, 847 non-paying LIRs contacted
 - 226 LIRs re-opened
 - 605 LIRs had Allocations returned to the RIPE NCC (5,910,528 IP addresses)
- LIR Audit activity
 - From 1996 until 2008 - 343 Audits
 - 2009 - 301 Audits
 - 2010 - 345 Audits (to date)

Information Services

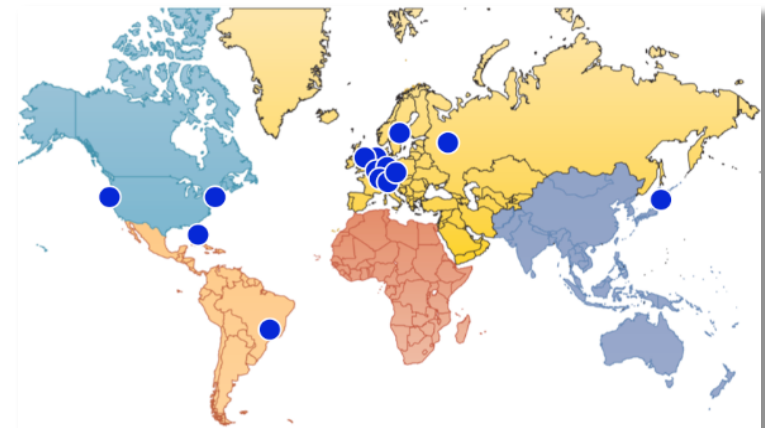
Active Measurements

- 80 Test Traffic Boxes
- Located at commercial ISPs and research institutions
- Full Mesh



Passive Measurements

- 15 Remote Route Collectors
- Located at major Internet Exchanges
- BGP Routing Information



Information Services: NetSense

RIPE NCC - NetSense

http://netsense.ripe.net/sense/#3333/193.0.0.0/21

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RIPE NCC - NetSense

RIPE NCC NetSense

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Find out information about your **AS or Prefix** **Sense**

AS3333 - RIPE-NCC RIPE Network ...

Prefix ↓	First Seen ↓	Last Update ↓	+
193.0.22.0/23	5 months ago	2 hours ago	
193.0.18.0/23	1 year ago	7 hours ago	
193.0.20.0/23	1 year ago	2 hours ago	
193.0.12.0/23	1 year ago	7 hours ago	
2001:610:240::/42	3 months ago	7 hours ago	
193.0.0.0/21	1 year ago	7 hours ago	

Visibility of 193.0.0.0/21



POWERED BY Google

STABILITY VISIBILITY

DNS Lameness

☐ Don't Filter | ☐ All Issues | ☐ Only Errors

Routing Consistency

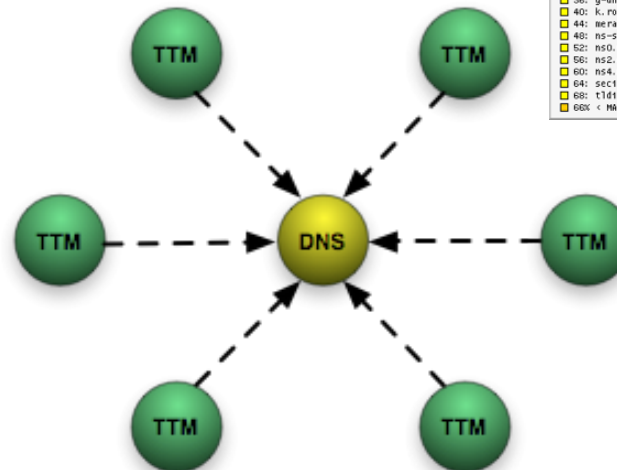
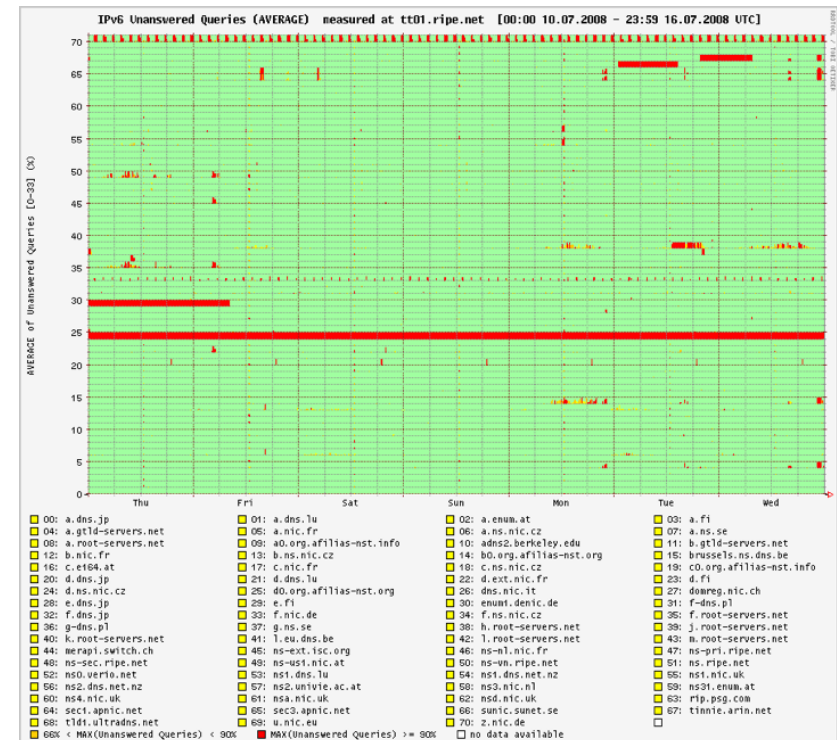
Prefix ↓	DNS Lameness ↓	Status ↓
193.0.22.0/23	No Lameness Detected	No Lameness Detected ✓
193.0.0.0/21	Found 1 Errors	Lameness ✗
193.0.18.0/23	No Lameness Detected	No Lameness Detected ✓
193.0.12.0/23	No Lameness Detected	No Lameness Detected ✓
2001:610:240::/42	No Data	Not Present !
193.0.20.0/23	No Lameness Detected	No Lameness Detected ✓

Find: Next Previous ☐ Highlight all ☐ Match case

https://www.i1b.org/wiki/index.php?title=TeleconferenceSchedule

FoxyProxy: Disabled

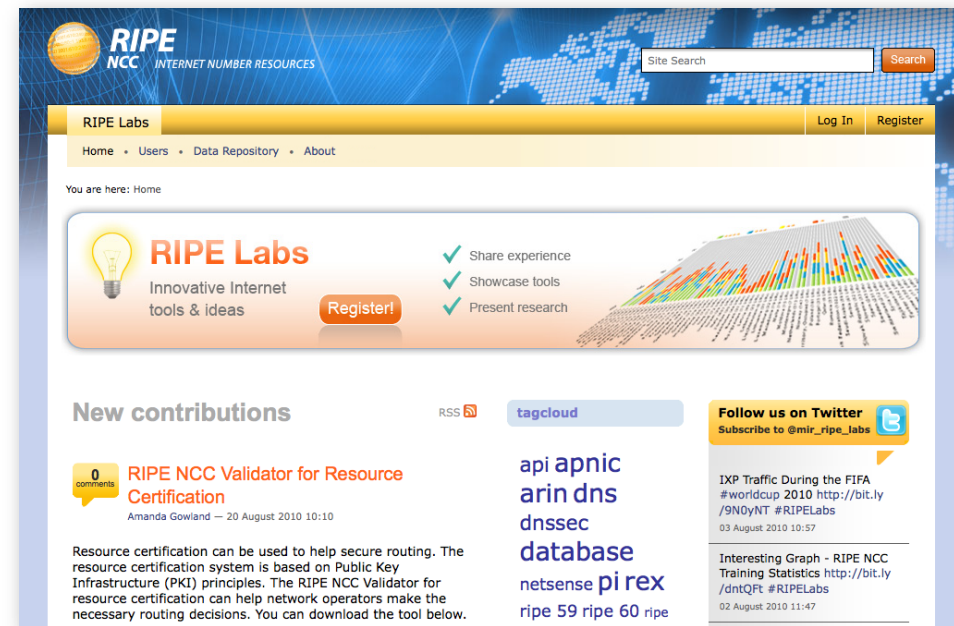
- DNS Monitoring service
- Uses ~80 global probes
- Impartial performance report
- Troubleshooting and trend analysis



Enhancing Community Interaction

RIPE Labs 2.0

- Started in 2009
- Goal to improve community interaction
- Recently re-launched
- Picking up speed
- It's for **you**, too...



<http://labs.ripe.net/>

Extending Measurements: A Pilot

- TTM has limited distribution

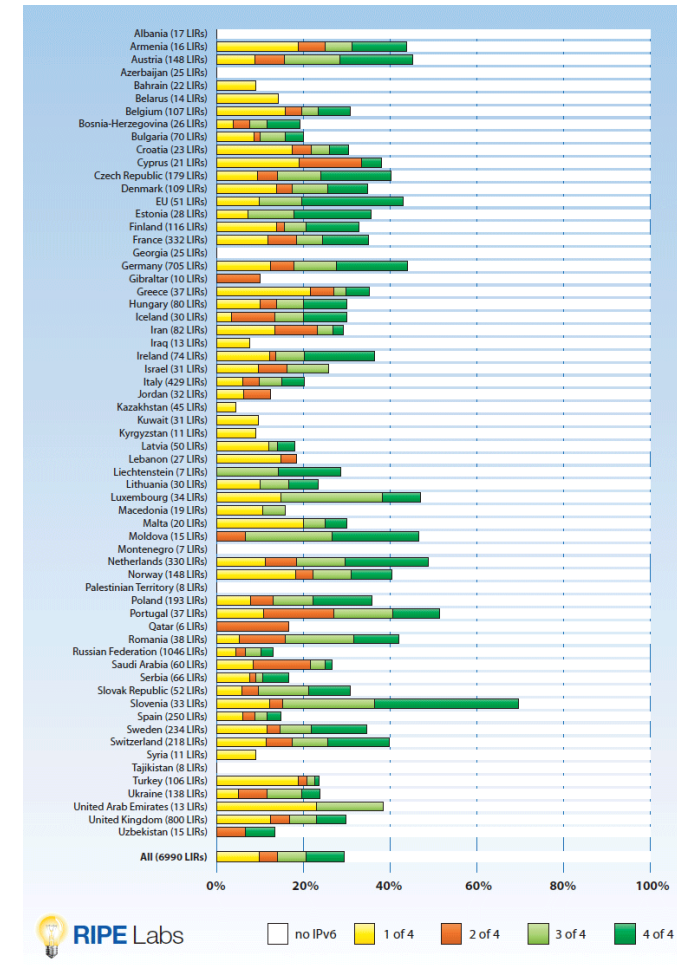
So....

- ... more measuring nodes needed
- Goal: Reach each AS, each major city
- Will announce pilot at RIPE 61
- Article series on labs.ripe.net



Facilitating IPv6 deployment: IPv6 Ripeness

- How to measure state of IPv6 deployment?
 - Allocation received
 - Prefix visible in RIS
 - Route object registered in DB
 - Reverse DNS set up



Regional Meeting

- Moscow on 29 September - 01 October 2010
- Strong focus on operational content
 - DNS, Peering, Routing, Datacenters, IPv6
- Non-operational content as well
 - Internet Governance, Registry development, IETF update
- You are invited!
- <http://www.ripe.net/meetings/regional/moscow-2010/>

RIPE 61

- 15-19 November 2010
- Rome



Questions?

