Update from the RIPE NCC

Axel Pawlik
Managing Director

RIPE NCC

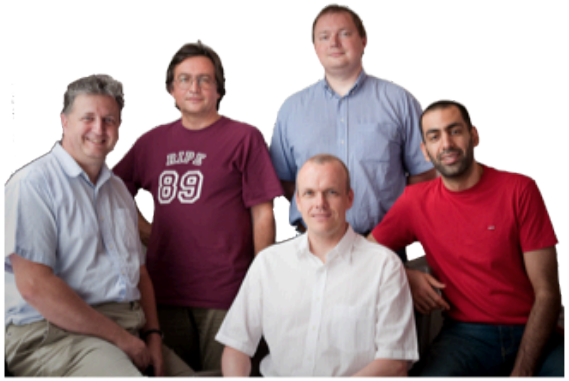
We are here to serve you

- Secretariat for RIPE Community
- Founded in 1992
  - Teenager on verge of adulthood
- Activities to support coordination of Internet operations
  - Service region Europe, Middle East, Parts of Central Asia

Activities (on a neutral & impartial platform)

- Support for RIPE
  - Policy development Process
- Regional Internet Registry
- Operations of Root Nameserver
- Operations of RIPE Database
- Internet Measurements
- Training
- Outreach
- ENUM Tier 0 Registry
- …

Key People



Executive Board

Managing Director

Chief Scientist

Chief Financial Officer

Chief Operations Officer

Head of External Relations & Communications

Future and Strategy

- IPv4 depletion as Discontinuity
  - How will RIPE NCC be affected?
- Developing Strategies for the Future
  - Focusing on Usefulness for Members and Community
  - “Back to the Roots”
- Focus on…
  - Strong Registry
  - Strong Community

Three Strategic Pillars

- Resource Lifecycle Management
  - Maintaining the Number Registry
- Reliable Source of Data
  - Develop, use and publish the wealth of data available
- Developing the Role of the RIPE NCC
  - Engage Stakeholders in Internet Governance
  - Prove Utility of RIPE NCC to Public Policy Makers
  - Intensify work with RIPE Community to understand Needs

Current Developments

- Service to Members
  - Relevance? / Quality? / Member Communication!
- Community Engagement
  - RIPE Labs
  - Regional Meetings (MENOG, ENOG, Dubrovnik)
- Call for RIPE Meetings from (too) many corners
  - RIPE Days…
- Working with WG Chairmen
- Membership Survey to be launched on Friday
  - Your participation is crucial

The Future

- Allocations ↘, Registrations ↗
- Services for “Community”
  - Community of Internet Operators
  - The Internet at Large
- Welcome home holders of legacy space
- All users of RIPE NCC services should be members
  - Fair distribution of cost
- Reviewing Charging Scheme, must be…
  - Fair
  - Predictable
  - Ensuring Stability

Roadmap “New Charging Scheme”

- Discussions with Executive Board
- Indicate ideas to Members / General Meeting
- Go to drawing table
  - Develop scenarios
  - Write up strawman & publish to members
- Collect feedback from discussions
- Review proposal with Executive Board
- Finalise documents for General Meeting @ RIPE 63

Questions?

RIPE NCC

Member Services

RIPE 62

Andrew de la Haije
COO

Three focus points

- Transparency and Procedures
- Evolution of services
- Improved member interaction

Transparency and Procedures

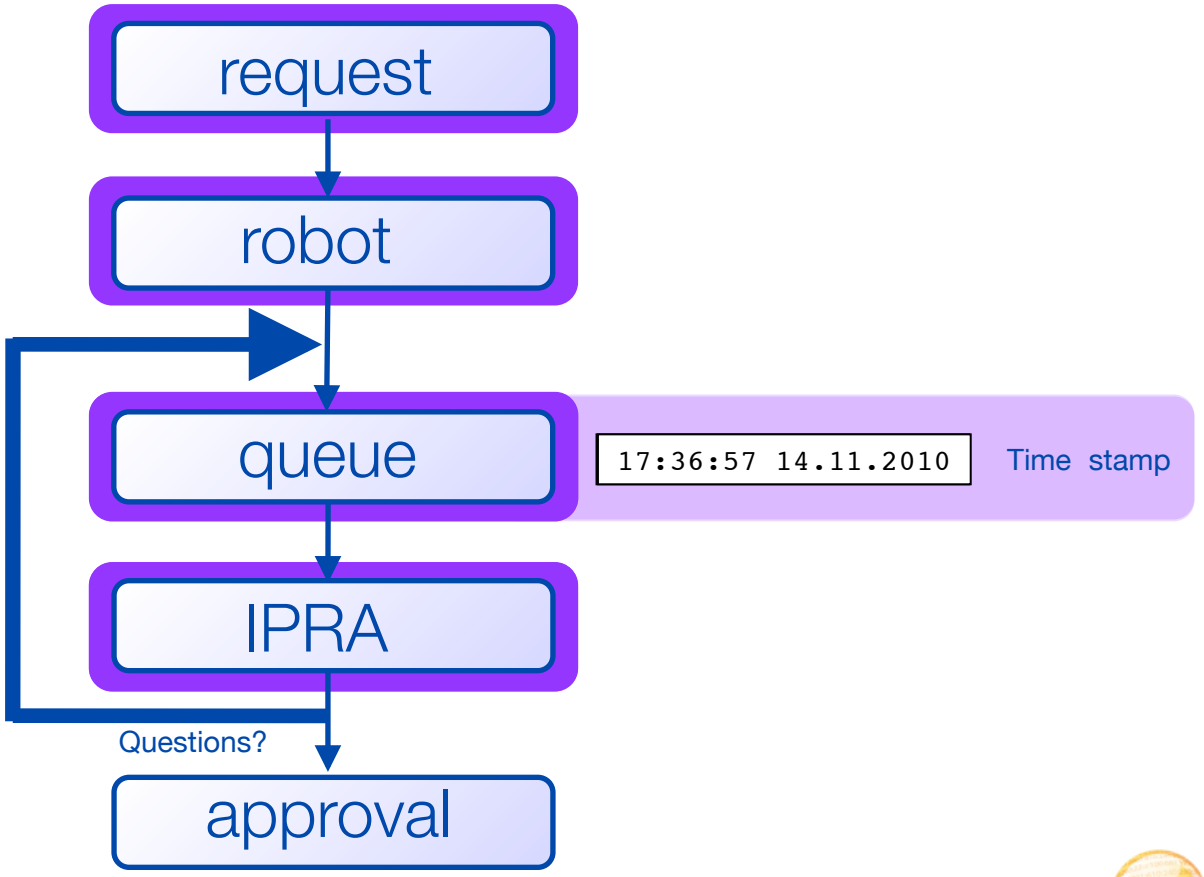
Transparency and Procedures

- Enhance transparency
- Driver
  - Not always as clear as we could be
- Actions
  - External Impact Analysis
  - Seeking community guidance on unclarities in policy interpretations: Address Policy WG and mailing list
  - Publish Evaluation procedures: IPv4 online
    http://www.ripe.net/lir-services/resource-management/contact/ipv4-evaluation-procedures

    IPv6 and ASN upcoming if you find this useful

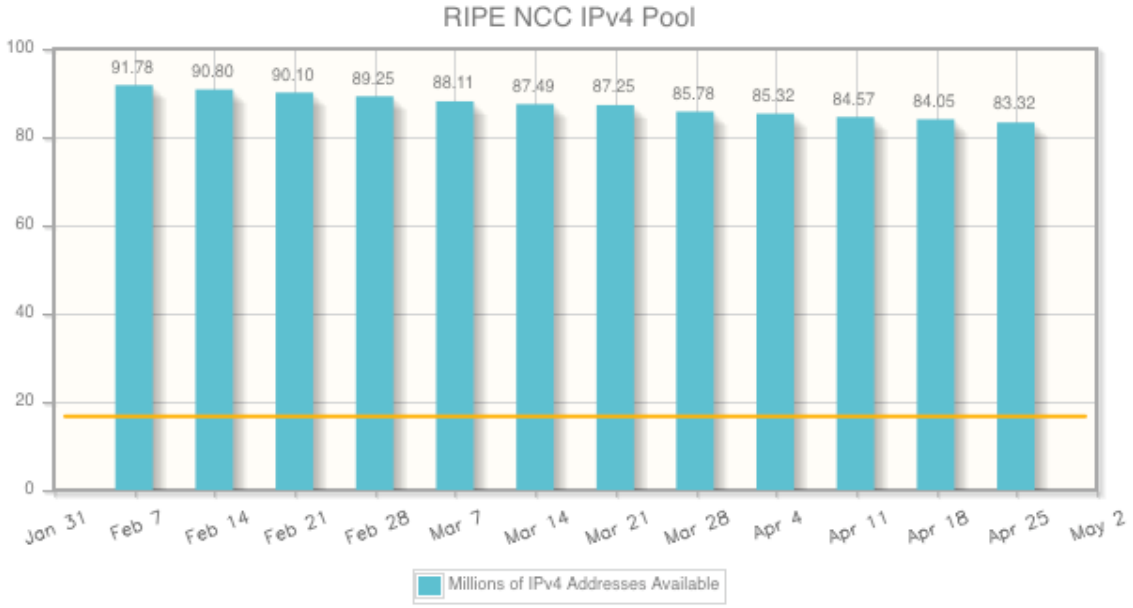
Transparency and Procedures (2)

- Registration Services ticket mechanism change: all (IPv4) requests in one ticket queue, new and ongoing requests



Transparency and Procedures (3)

- Graph of RIPE NCC available IPv4 address space pool
  http://www.ripe.net/internet-coordination/ipv4-exhaustion/ipv4-available-pool-graph



Evolution of Services

Evolution of Services

- RIPE registry data quality
- Driver
  - Maintain an accurate and complete registry
  - Surveyed membership, 80% of respondents support service
- Actions
  - Confirmation of validity of LIR data
    - LIR Self-Audit (through LIR Portal)
      - Inetnum, route, rDNS and person objects
    - Confirmation visible in RIPE DB object

Evolution of Services (2)

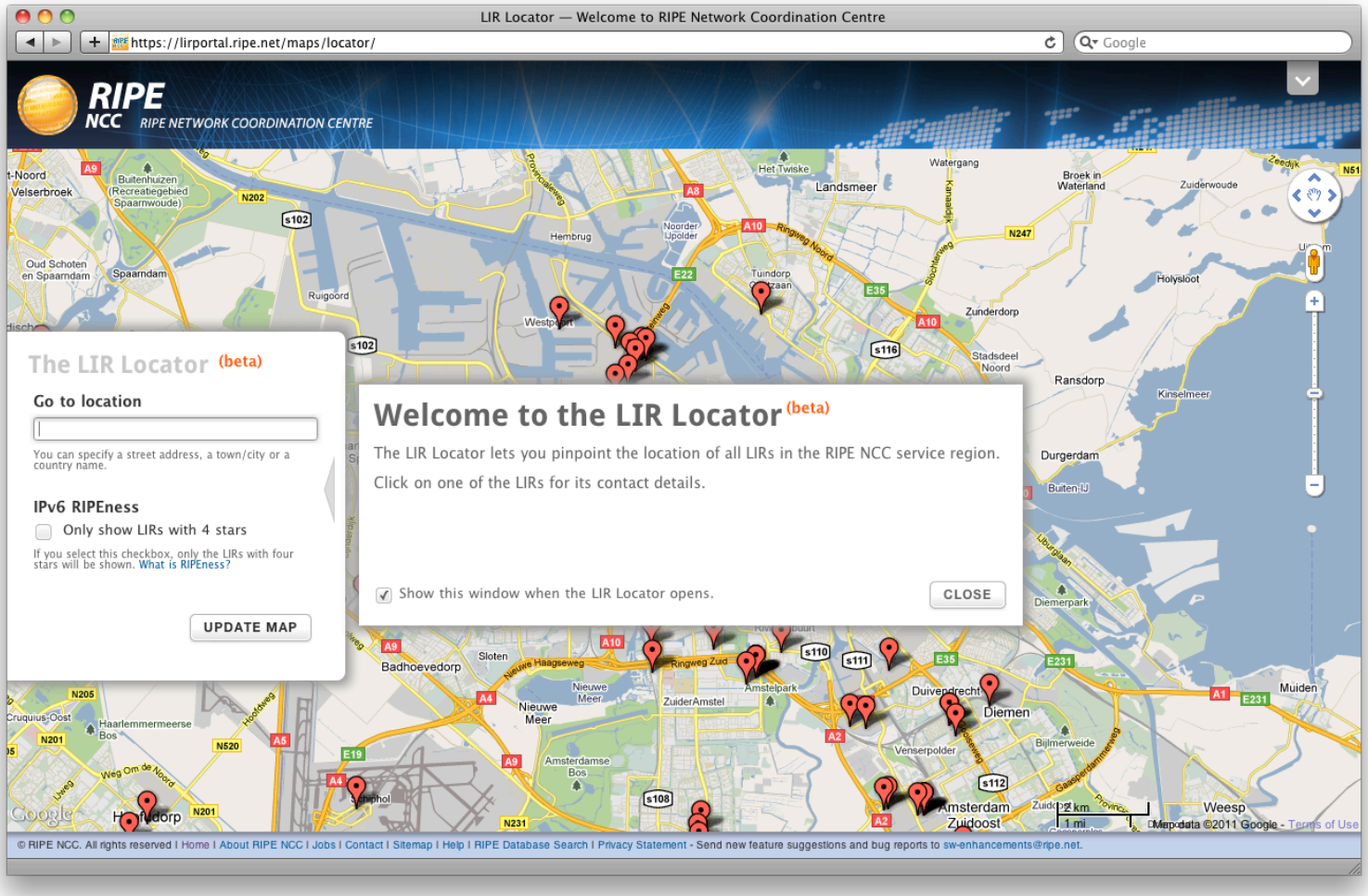
- RIPE NCC Audit
  - Confirmation of validity of LIR data by RIPE NCC
    - LIR contacts, organisation and allocation details
  - Replace ‘additional allocation audit’
  - 50% of membership audited per year
  - Confirmation visible in RIPE DB object

Evolution of Services (3)

- Resource transfer listing service
- Driver
  - Maintain an accurate and complete registry
  - Facilitate resource transfers for members
- Action
  - Provide Platform where ‘lister’ and ‘needer’ can meet
  - Member only service
  - RIPE NCC confirming
    - Member
    - Registry
    - Policy

Evolution of Services (4)

- Geolocation



The Problem

- No mechanism to link IP addresses to a location
- Establishing this link is difficult and error prone:
  - Finding out a postal address is hard
  - Translating the address to a geolocation is hard
- The result:
  - Location based services may be mismatched
    - Access to certain services could be blocked
    - Content could be delivered in the wrong language

Solution

- You are the holder of the IP address block
  - You are the authority on where the block is used
  - You know what services are offered
  - You know the preferred language

- The RIPE NCC will provide the gateway through the RIPE Database

Everybody Benefits

- End Users
  - Receive content in the desired language
    - and related to their location
- LIRs
  - Full control over location based services
    - Less End User complaints
- Content Providers
  - Easier to address their target audience

The Way Forward

- Adding location data is always optional!
- Your privacy is guaranteed
  - Linking of individual IPs to a location never possible
  - Resolution of data is user defined
    - You are in control of the granularity
- We are actively looking for feedback and ideas
  - Check RIPE Labs for updates
- Cooperation with Google, MaxMind, IP2Location
  - Can you introduce us to other partners? Let us know!

Working with 3rd Parties

- Cooperation with Google, MaxMind, IP2Location
  - If you opt to add location data to your RIPE Database objects, it will be added to their data sets

Can you introduce us to other partners?
Let us know!

Evolution of Services (5)

- Certification
  - Enhancement of Registration information
  - Launched 1 January 2011
  - 430 members certified their address space

Member Interaction

Member Interaction

- Network Coordination Services

  http://www.ripe.net/lir-services/resource-management/ripe-ncc-resource-quality-assistance

- Driver
  - Regular requests for support on filtering issues
  - Issues with getting in contact with the right contacts
- Action
  - Assist by coordination
    - Information and guidance on filtering and tools to identify who and why
    - If needed put both parties into contact and coordinate

Member Interaction (2)

- Proven benefit (recent case)
  - Small LIR: /20 allocation being filtered by large ISP based on former holder of address space
  - RS contacted large ISP, giving neutral information/contact information
  - Large ISP investigated and fixed. Resolved in 3 working days

Member Interaction (2)

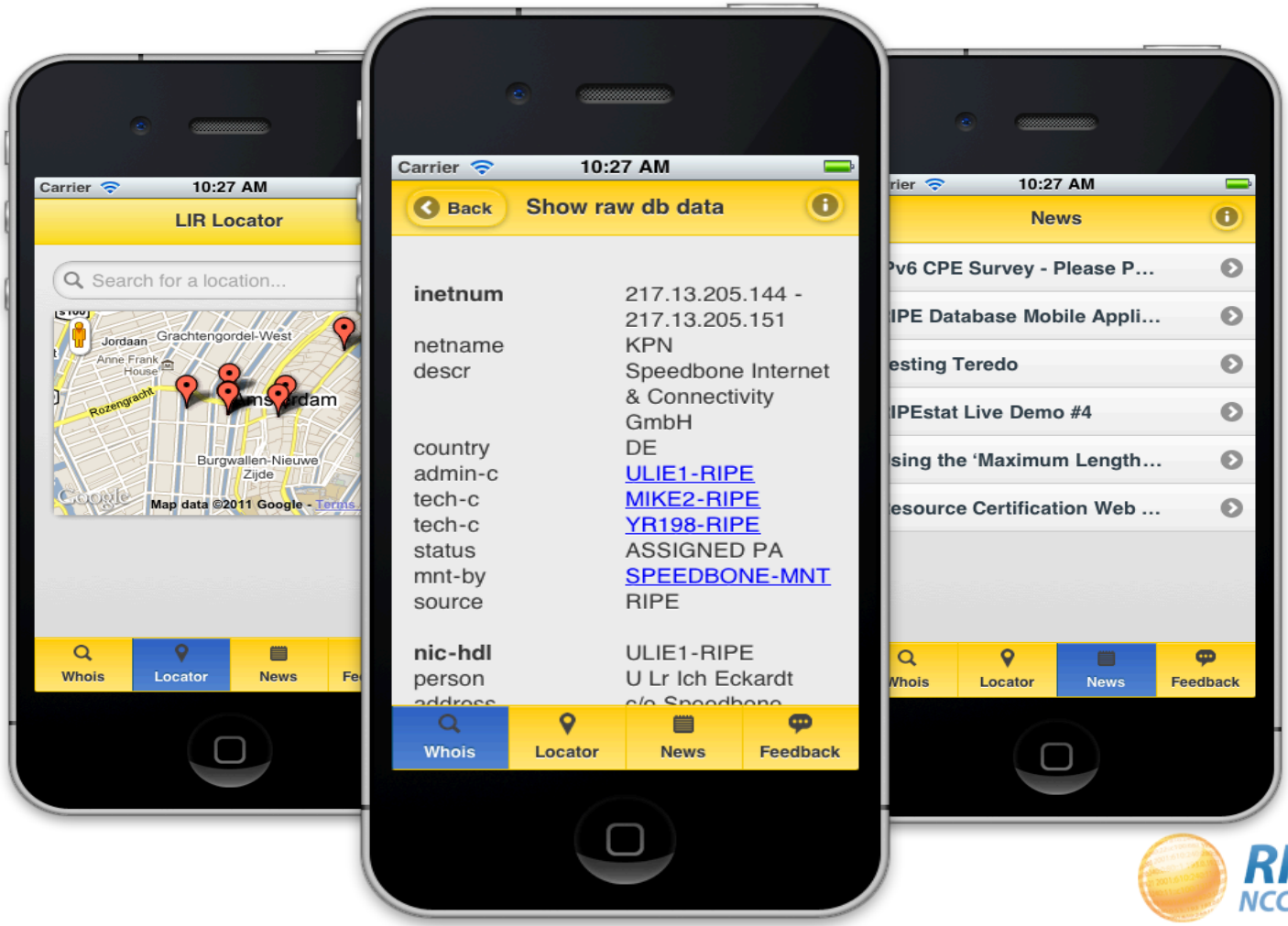
- Feedback on LIR portal functionality

Member Interaction (3)

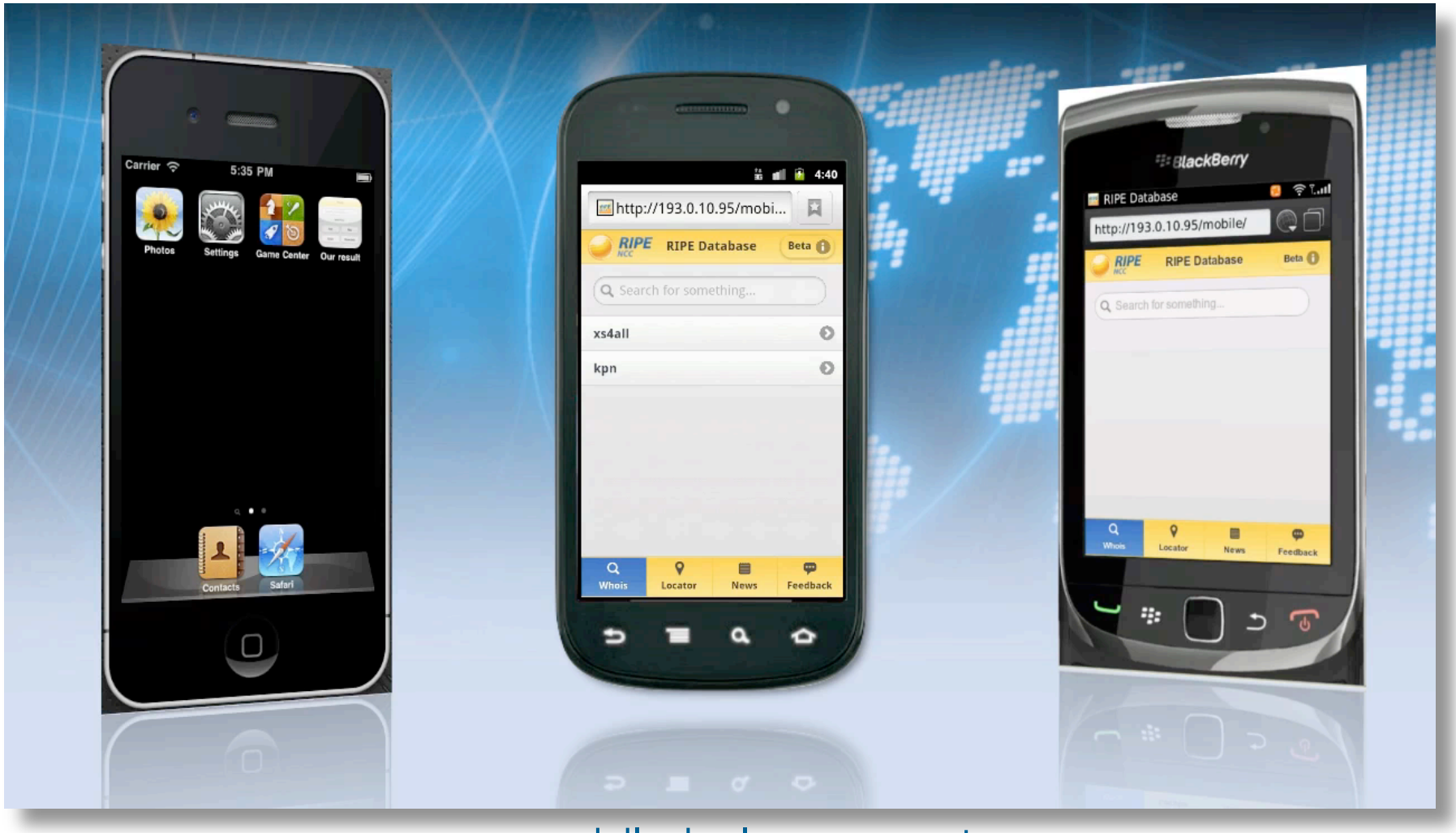
- Pilot web-chat functionality

Member Interaction (3)

- RIPE NCC Mobile Pilot



RIPE NCC Mobile Pilot



mobile.balounge.net

Questions?

RIPE NCC

Support department Update

Finance, Admin, Facilities, Legal, Info Security and IT

Jochem de Ruig
Chief Financial Officer

Finance & admin update 2011

- Invoicing & payments 2011
  - Investigating additional payment tools
  - Set up of paypal for RIPE meetings
- Audit 2010 & new auditors 2011
- RIPE NCC office improvements
  - New access card system, “airco”/fresh air system
- Continuous automation improvements
  - Business expense claim tool
  - Travel request/authorisation software replacement

Legal update

- Continuous work on RIPE NCC Governance docs
  - Transfer doc, due diligence, audits, abuse handling etc.
- Legal framework for RPKI
- Engagement with law enforcement and regulators
  - LEA event during e-crime congress in London
  - Council of Europe – Critical Infrastructure
- Ongoing legal support
  - Impact analysis on policies, legal requests

IT Infrastructure & Information Security

- Review of IT Infrastructure
  - Different perspective, aim to simplify, increase efficiency
- Support for RIPE NCC services (incl RIPE mtg)
- Security review of infrastructure
  - Network Intrusion Detection System
- Information security review of internal processes
  - Due diligence on member enrollment

Science, Data, DNS

The Highlights.
Any Questions Welcome.

Daniel Karrenberg
Chief Scientist

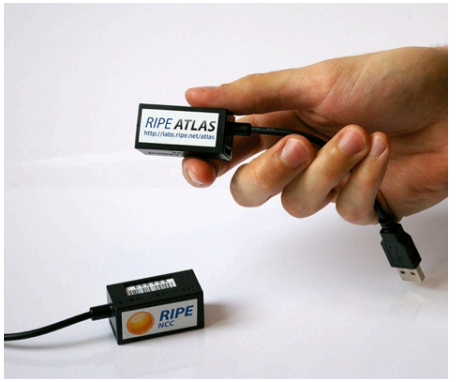
RIPE NCC

RIPE ATLAS

Active Internet Measurements from a Lot of Small Probes

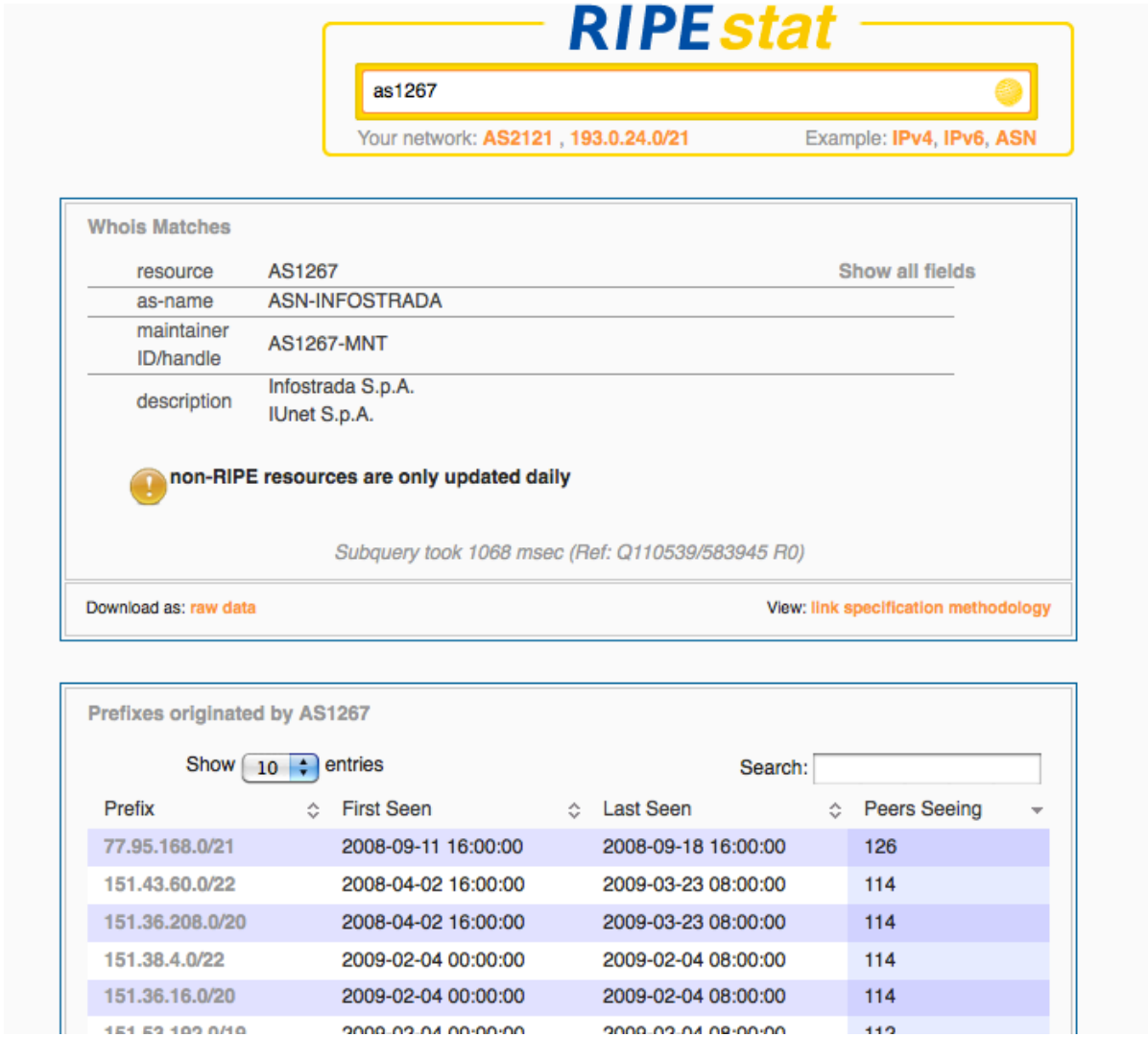
RIPE ATLAS

- Launched at previous RIPE meeting (Rome)
- Atlas.ripe.net
- Seeking Sponsors
- 350+ probes deployed

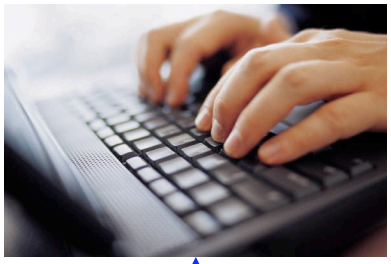


- Deploying 1024 more in the coming months
  - Aiming for good geographical and topological coverage
- Deploying another 1024 from October
- Details @ MAT-WG and Measurements BoF

RIPE*stat*


RIPEstat
as1267
Your network: AS2121 , 193.0.24.0/21
Example: IPv4, IPv6, ASN
Whois Matches
resource AS1267
Show all fields
as-name ASN-INFOSTRADA
maintainer ID/handle AS1267-MNT
description Infostrada S.p.A.
IUnet S.p.A.
non-RIPE resources are only updated daily
Subquery took 1068 msec (Ref: Q110539/583945 R0)
Download as: raw data
View: link specification methodology
Prefixes originated by AS1267
Show 10 entries
Search:
Prefix
First Seen
Last Seen
Peers Seeing
77.95.168.0/21 2008-09-11 16:00:00 2008-09-18 16:00:00 126
151.43.60.0/22 2008-04-02 16:00:00 2009-03-23 08:00:00 114
151.36.208.0/20 2008-04-02 16:00:00 2009-03-23 08:00:00 114
151.38.4.0/22 2009-02-04 00:00:00 2009-02-04 08:00:00 114
151.36.16.0/20 2009-02-04 00:00:00 2009-02-04 08:00:00 114

RIPE*stat*



You

RIPE stat

Number Registry (RIPE DB)

Routing Registry (RIPE DB)

BGP Routing (RIS)

Active Measuring (TTM, ATLAS)

Geo-Location (Maxmind, …)

RIPE*stat*

- Beta(!) launched this meeting: **`stat.ripe.net`**
- Eventually to replace most measurement tools
- Iterative Development
  - Public demos by teleconference every 4 weeks
  - Demo minutes on RIPE Labs
  - Demo recordings @ stat.ripe.net
- Tell us what you need!
- You will get the tools you deserve …
- Details @ MAT-WG and Measurement BoF

RIPE TTM Future

- TTM is an “old” service
- Designed for different environment than today’s
- We will evaluate current usefulness for subscribers
- Then we will make a plan to evolve it
- Current Straw man: integrate into RIPE Atlas
- We will talk to all subscribers

Questions?

Also about things I did not mention.

RIPE NCC

External Relations & Communications

Paul Rendek
Head of Communications and External Relations

RIPE NCC

Outreach Goals

- From the Activity Plan 2010:
  - *Work with a range of stakeholders from both the public and private sectors*
  - *Continue to promote the important dialogue between the technical community and governments*
  - *Relevant parties working together to understand the changing Internet landscape and to make informed decisions that guarantee the stability of the Internet*

Why?

- Internet is a multistakeholder arena - we're not the only ones making decisions!
- Governments, international organisations and law enforcement growing their influence in Internet governance
- Keep Gov'ts informed so that they can make better public policy
- Other stakeholders see the benefits of the open and inclusive model to cooperate with each other

RIPE NCC Outreach Activities

- Technical communities (NOGs, NRENs, ETNO…)
- Local IPv6 related events
- Internet governance circus ;-)
- Government, Regulators, Law Enforcement
- Inter-governmental organisations (OECD, Council of Europe, ITU…)

- Coordination with industry partners – RIRs, ISOC, ICANN, IETF…

Recent Activities

- Internet governance structures
  - IGF continuation discussions, CSTD working group
  - NTIA Notice of Inquiry on future of IANA function

    http://www.nro.net/news/nro-response-to-ntia
- ITU IPv6 Group (April 2011)
  - IPv6 Roadshow hailed as a successful model for capacity building

How?

- Meetings
  - RIPE Meetings, RIPE NCC Roundtable Meetings, RIPE NCC Regional Meetings (in collaboration with MENOG and ENOG, Dubrovnik)
- Presence at Operator Forums
- Speaking opportunities at numerous events
- RIPE Labs
- RIPE NCC/RIPE Website
- Annual Report – published soon!

Survey Time!

- RIPE NCC Member and Stakeholder Survey 2011
  - Opens from 6 May – 10 June 2011

Questions?

RIPE NCC