Routing Information Service Status and Plans

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RIS? The Short Version

- A historical view of the Internet from a number of different vantage points

  - Route collectors (RRC) at IXPs peer with as many ASes as possible using eBGP

  - The BGP data is collected and stored at a central point

  - RIPE NCC provides public access to RIS data
    - Raw data files
    - Query interfaces (ASinuse, RISWhois, BGPplay, etc.)

- Read more about it !

URL: http://www.ripe.net/ris/

Overview

- Administrativa

- Remote Route Collectors

- RIS Developments

- Ongoing Projects

- Epilogue

Staff

- Alexis Yushin, who was with us temporarily as a contractor, has finished his undertaking: myASn v.1

- Engineering transition within RIPE NCC
  - Arife Vural moved from NP to SED
  - James Aldridge from NP to OPS
  - Vasco Asturiano hired by SED as User Support Specialist

Recap: Why the transition?

- Old Situation:
  - New Projects became involved in running the data collection infrastructure and maintaining the software
  - Claimed time and resources from the intended tasks
- New Situation after the Summer:
  - Operations (OPS) and Software (SED) departments will assume responsibilities where appropriate
  - New Projects will focus on:
    - Analysis of Data
    - New Services
    - Prototyping
    - Collaborations with the Research Community
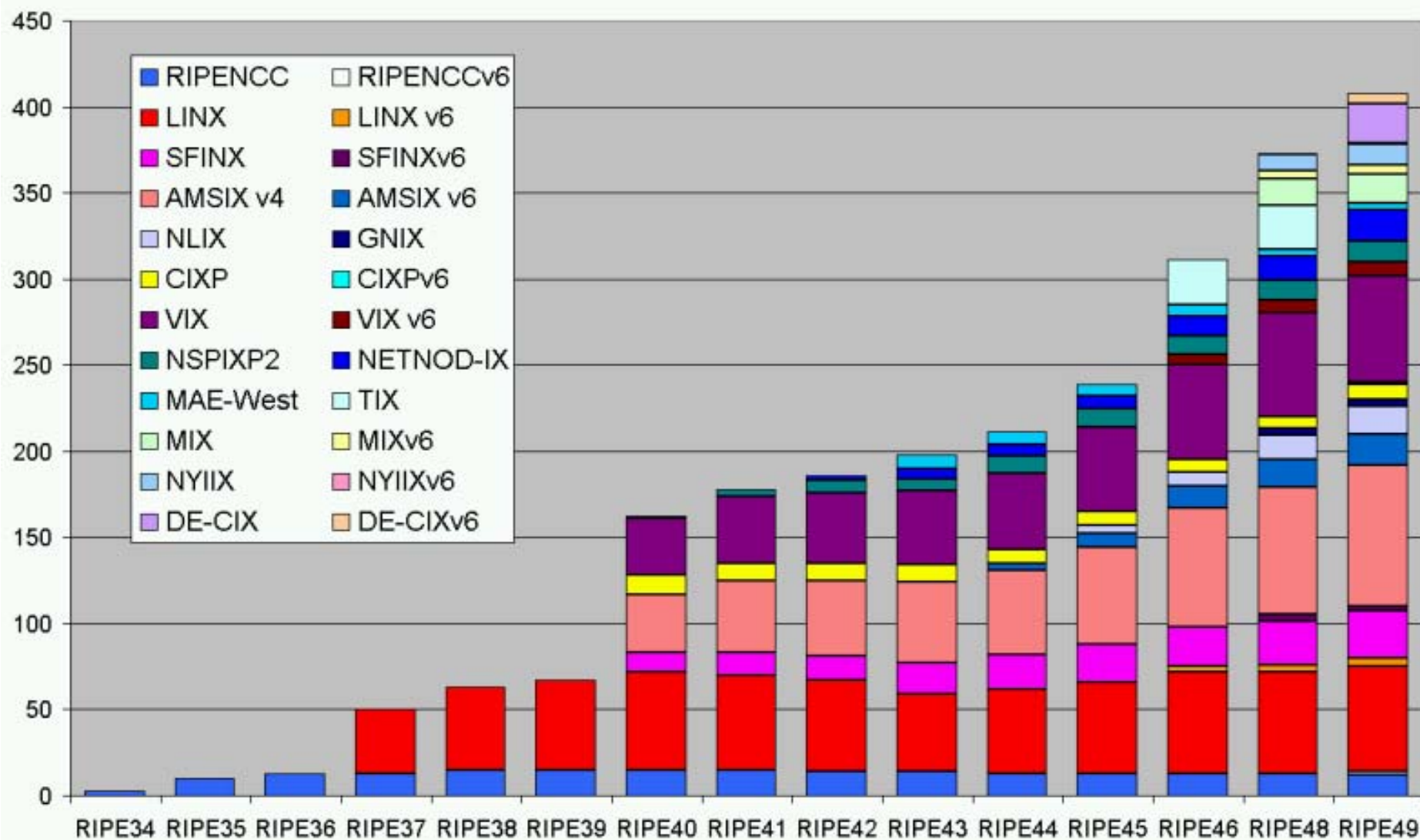
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Remote Route Collectors

- Changes since RIPE 48:
  - New HW shipped to SFINX/Paris (RRC02) and MIX/Milan (RRC10)
  - RRC07 in Stockholm connected to NETNOD's GigE peering LAN
  - RRC09 at TIX/ Zurich decommissioned;
    Netlantis decided to abandon MRT format
  - RRC12 deployed in Frankfurt (DE-CIX)

    - *All RRCs patched for MD5 Support (RFC 2385)*

- Collector at Mae-West/San José will move to PAIX/Palo Alto
- Another RRC underway in Moscow at the MSK-IX
- Possibly one more deployment in the Mid-East

  - *RIS coverage of the Internet probably satisfactory*
    - *Based on a hunch, needs to be quantified*

7

Peering Sessions over Time
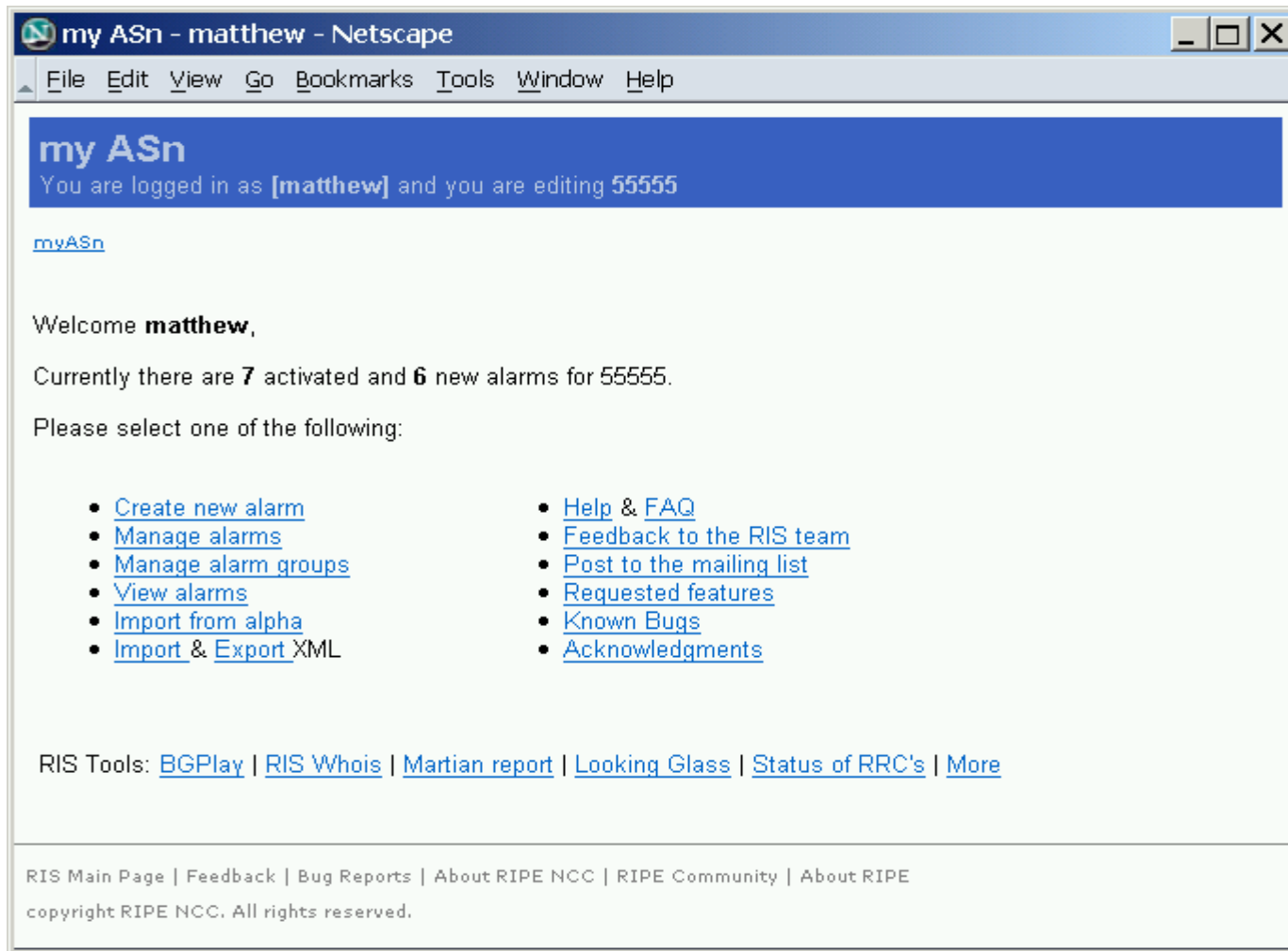

Total: 408 (+35)

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RIS Developments

- Transition to SED/OPS
  - *100% done*
  - No difference for the outside world, except ris@ripe.net and rispeering@ripe.net now ticketised

- Debogonising effort continued…
  - Daily reports since February, 2004, published on our web site
    - http://www.ris.ripe.net/debogon/index.html
    - Visibility of pilot prefixes improved from 20% to 83% (85/8) on 16th June, 2004
  - Reachability Tool
    - http://www.ris.ripe.net/cgi-bin/debogon.cgi

- Public RIPE NCC CVS server with RIS software
  - Requested by users
  - URI will be posted on the RIS & TTM mailing lists

myASn v.1.0

- Alarm system for eBGP

- Apply for your own account!

- Demo: Wednesday 1330-1830

- http://www.ris.ripe.net/myasn.html

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Status of RISv6

- IPv6 peering presence at more IXPs…
  - Besides the new RRC at DE-CIX/Frankfurt, IPv6 collection started at SFINX/Paris and CIXP/Geneva
  - *49 Sessions* altogether (+11 since RIPE 48)
- The Good,
  - Some RIS tools already support IPv6
    - RIS Looking Glass
    - RISwhois
    - BGPlay
- ...Bad…
  - We promised to finalise the IPv6 CGI's by R49, but didn't make it
  - End of November, 2004, our new ETA
- & Ugly
  - Prototypes
    - IPv6 prefix query: http://www.ris.ripe.net/cgi-bin/ipv6/prefixquery.cgi
    - IPv6 BGP updates: http://www.ris.ripe.net/ipv6-updates/

Status of myASn

- myASn v. 1
  - Handover from NP to SED done
  - Monitor hardware performance
  - Integrate it into the LIR-portal
- myASn v. 1++ & 2
  - Tighter IRR integration; e.g. importing of a default or baseline myASn configuration from the IRR
  - "Visibility type alarms"; e.g. visibility monitoring of specified prefix and path
  - "Churn based alarms" - detection of excessive duplicate announcements, flaps etc
  - "Global alarms" - martians, default route detection
  - "Retromatch" - myASn in the past

NP's Focus in the IDR Area

- NP will investigate myASn major feature requests from users
  - There's a long list linked from the myASn main page
- Secure Routing
  - Technologies are getting more mature
  - RIPE NCC will study them and the role that has to be played by the RIR's in deploying them.
  - Proposal early 2005 for discussion
  - Two sites already showed interest to work with us on testing and early deployment.
- Collaboration with the Technical University of Munich (TUM)
  - Good research that could be integrated into RIPE NCC services
  - Olaf Maennel will explain more in his talk later on
- Please contact us if you have ideas ;)
 - Talk to Henk and/or myself here at RIPE 49
  - Email: ris@ripe.net

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Summary

- **Remote Route Collectors**
  - RRC12 deployed at DE-CIX, RRC09 decommissioned
  - 12 active collectors on three continents
  - More than 400 IPv4 and IPv6 peering sessions
- **RIS Developments**
  - Transition to SED/OPS done
  - Public CVS server in place
  - Debogonising effort continued
- **Projects**
  - RISv6
    - Currently 49 peerings at eight IXPs
    - Some RIS Tools support IPv6, more needs to be done by Nov
  - myASn
    - v. 1 ready as a RIPE NCC service
    - Handed over to SED
    - NP will look beyond v. 1

Next Steps

- myASn
  - Monitor myASn v. 1 performance
  - Integrate into LIR-portal
  - Look into myASn 1++ and 2
- RISv6
  - Continue work on CGIs
- RRCs
  - Move to PAIX
  - Deploy collector at MSK-IX
- R&D
  - Continue TUM collaboration
  - Secure routing
    - Investigate what NP could do there
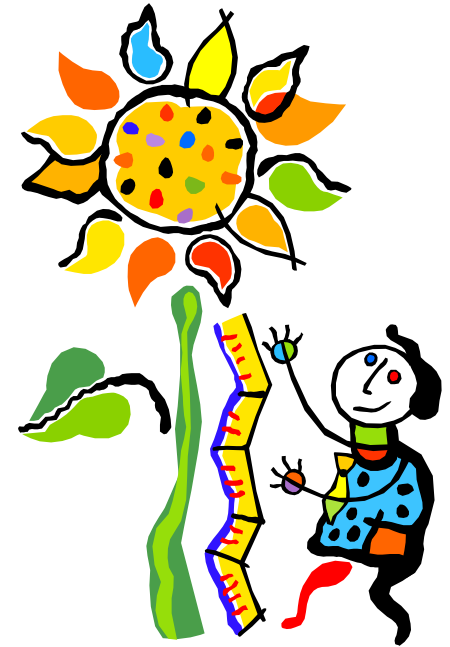
RIS demos at RIPE 49

- **Test-drive the RIS**
  - Expert help available during early coffee breaks on Tuesday and Thursday

- **myASn v 1.0**
  - Demo: Wednesday 1330-1830
  - Ask for your own account

- Comments: ris@ripe.net

- Peering requests: rispeering@ripe.net

- Mailing list: ris-users@ripe.net

- URL: http://www.ripe.net/ris

- **Feedback please** ☺

Questions, Discussion