

RIPEstat

Public Demo, s2e06@RIPE65
24 September 2012

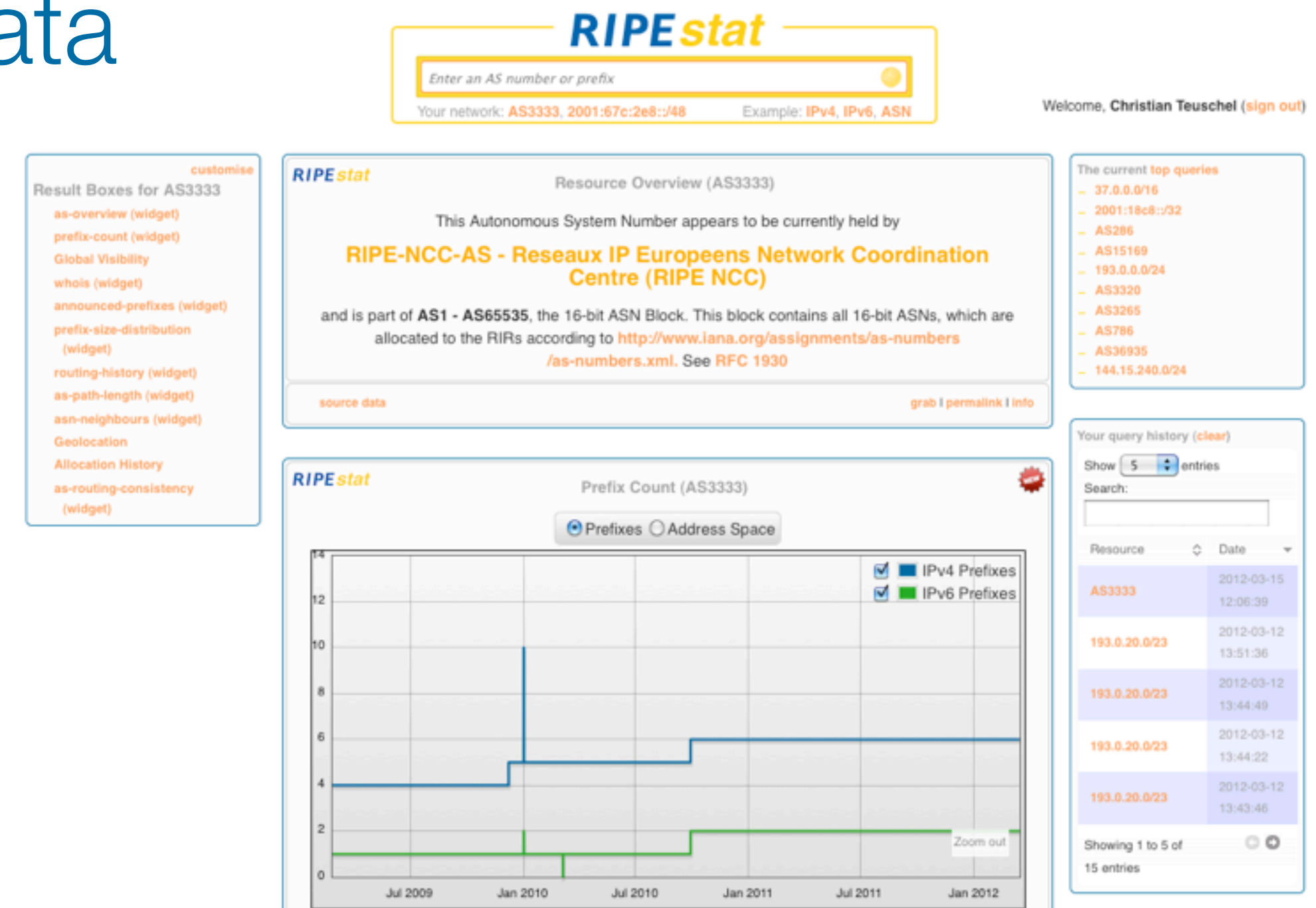
Christian Teuschel

- 1) Introduction
- 2) New features since RIPE64
- 3) Tutorial/Demo
- 4) Future perspectives
- 5) Feedback



Introduction to RIPEstat

- Modular & extendable toolbox
- Single interface to Internet related data
 - Network trouble-shooting
 - Data analysis
 - Scientific research
- RIPEstat is your tool
 - Work in progress
 - Development driven by user feedback
 - Periodic, public demos
 - **GET INVOLVED**



<https://stat.ripe.net>

Introduction to RIPEstat

- What is a widget?
- Where can I find help?
- What is the RIPEstat data API?

What's New?

Major Features (1/4)

- History view in Object Browser for members

The image displays two side-by-side screenshots of the RIPE Object Browser for the object `aut-num: AS3333`. The left screenshot shows the current state, while the right screenshot shows a historical view selected via a time selector.

Current View (Left):

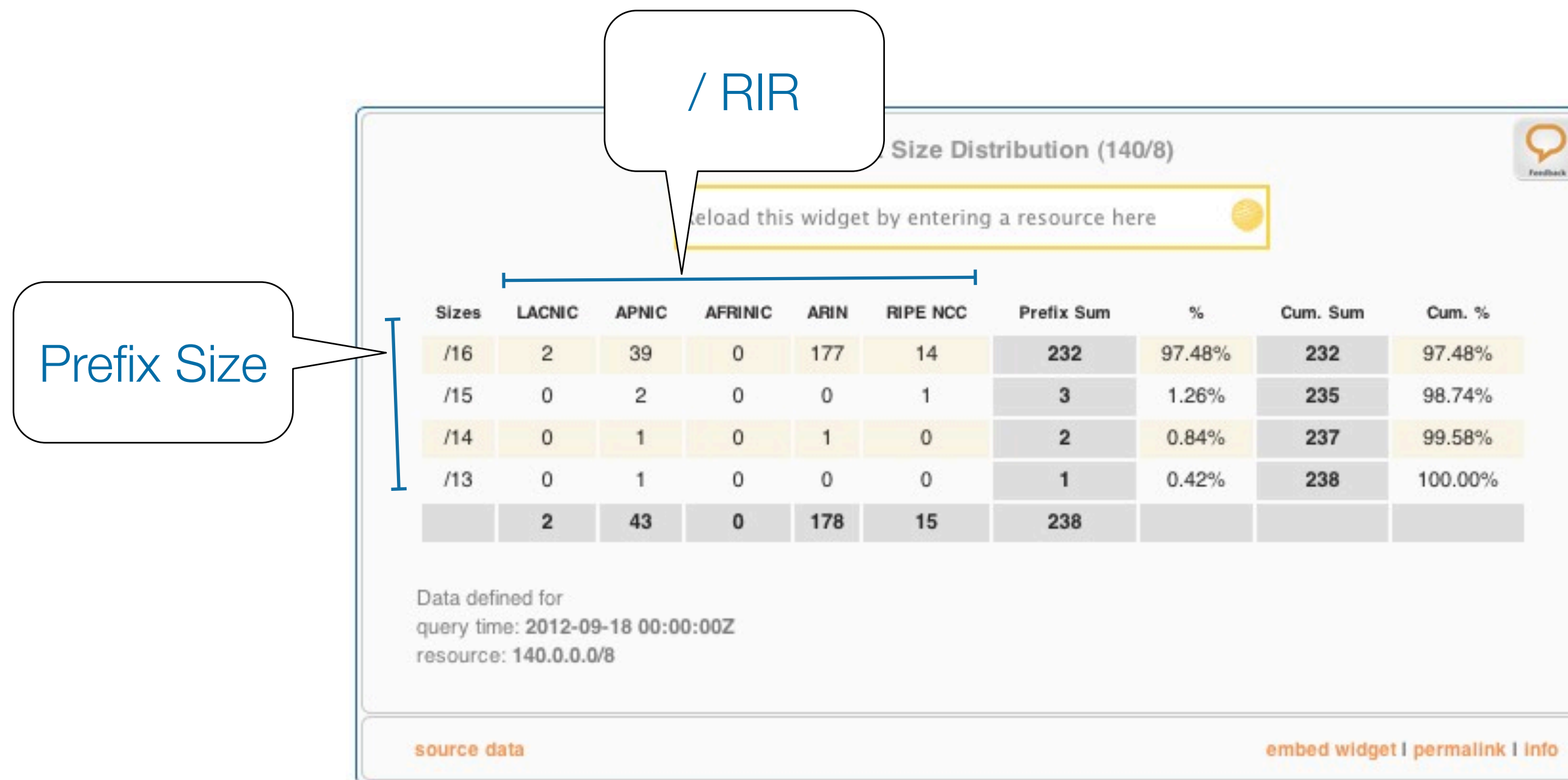
- Object:** `aut-num: AS3333`
 - `as-name` RIPE-NCC-AS
 - `descr` RIPE Network Coordination Centre
 - `org` ORG-NCC1-RIPE
 - `mnt-by` RIPE-NCC-END-MNT
 - `mnt-by` RIPE-NCC-MNT
- Related Objects:**
 - `6 x route, 2 x route6`
 - `route: 193.0.0.0/21 [origin]`
 - `route: 193.0.10.0/23 [origin]`
 - `route: 193.0.12.0/23 [origin]`
 - `route: 193.0.18.0/23 [origin]`
 - `route: 193.0.20.0/23 [origin]`
 - `route: 193.0.22.0/23 [origin]`
 - `route6: 2001:610:240::/42 [origin]`
 - `route6: 2001:67c:2e8::/48`
 - `1 x organisation, 2 x person, 1 x role, 2 x mntner`
 - `organisation: ORG-NCC1-RIPE [org]`
 - `person: Andrei M. Robachevsky [admin-c]`
 - `person: Brian Riddle [admin-c]`
 - `role: RIPE NCC Operations [tech-c]`
 - `mntner: RIPE-NCC-END-MNT [mnt-by]`
 - `mntner: RIPE-NCC-MNT [mnt-by]`

Historical View (Right):

- Time Selector:** A dropdown menu is open, showing a list of timestamps from 2006 to 2012. The selected range is `2011-02-15T10:48:34 to 2011-03-29T14:57:25`. A callout bubble points to this selector with the text: "Time selector for historical queries".
- Object:** `aut-num: AS3333` (same as current view)
- Related Objects:** (Same structure as current view, but reflecting the state at the selected time)

Major Features (2/4)

- RIR-Prefix-Size-Distribution



Major Features (2/4)

- Special page: size distribution of registered IPv4 prefixes

RIPEstat

Get information on an AS number or IP prefix

Your network: **AS3333, 193.0.20.0/23** e.g. **IPv4 prefix/range, IPv6, ASN**

RIPEstat is your source for Internet-related stats & status — stat! [learn more...](#)

Size Distribution of Registered IPv4 Prefixes, by /8

This is an overview of the total number of IPv4 delegations grouped by /8s.
IPv4 delegations consist of PA (provider aggregated) allocations, PI (provider independent) assignments and other legacy assignments of unspecified status.

The first column shows the /8. Further columns show the total number of allocations and assignments for the specific prefix.
To enhance readability the header row is repeated.

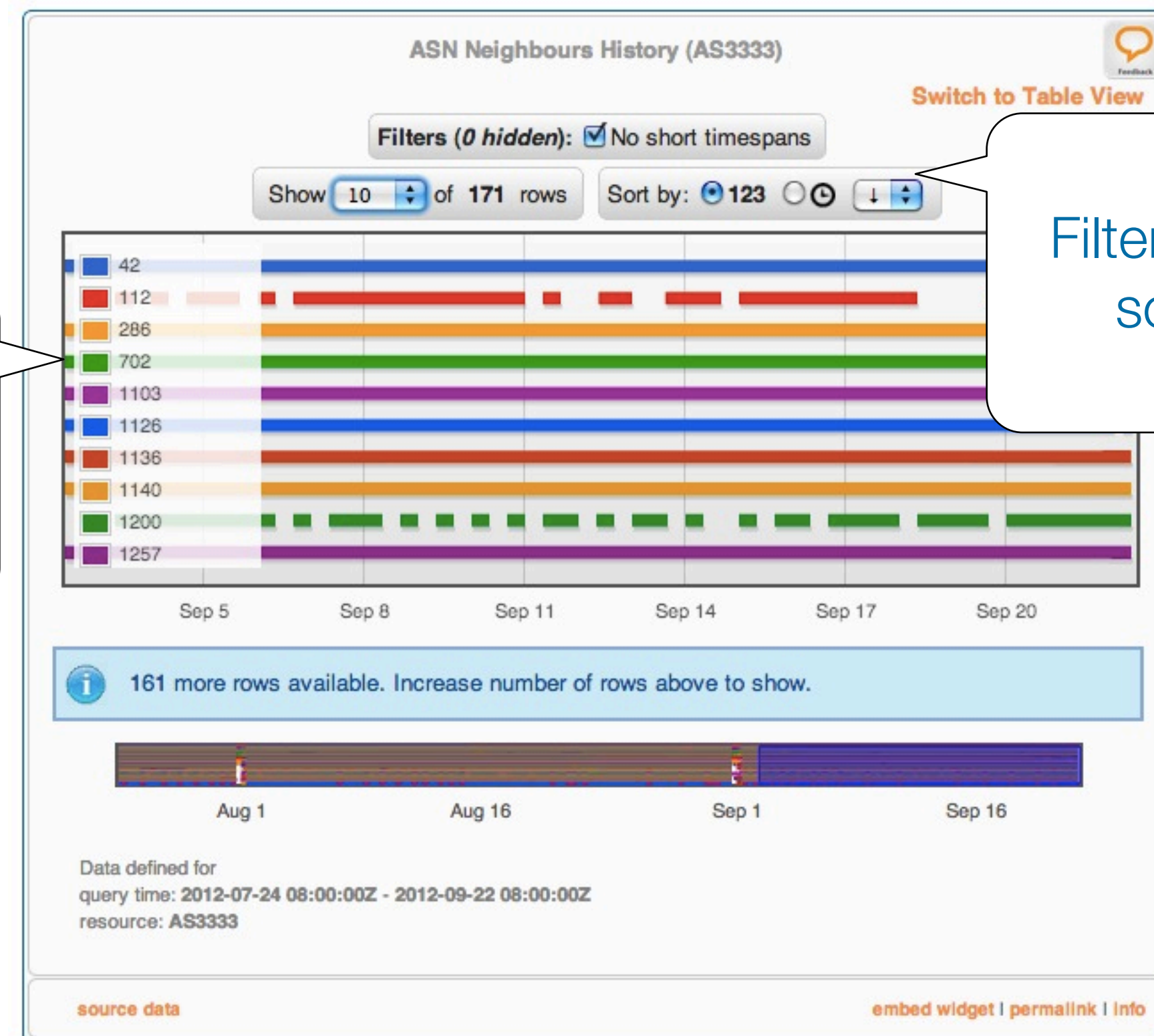
For background informations see [RIPE Labs article](#).

	/32	/31	/30	/29	/28	/27	/26	/25	/24	/23	/22	/21	/20	/19	/18	/17	/16	/15	/14	/13	/12	/11	/10	/9	/8
1/8									16	8	4	4	5	5	5	7	20	13	11	6	3	2			
2/8																	2	1	13	15	5				
3/8																									1
4/8																									1
5/8												426	83	78	41	35	44	14	16	4	2				
6/8																									1
7/8																									1
8/8																									1
9/8																									1
10/8																									
11/8																									1
12/8																									1
13/8																									1
14/8												18	7	6	12	3	5	12	7	4	2	4	4		

Major Features (3/4)

- Asn-Neighbours-History

Historical view
of ASN
neighbours



Major Features (4/4)

- Anti-Abuse-Info

Anti-Abuse Information (140.78/16)

Reload this widget by entering a resource here

Checks

Special Network Resource Check

Prefix-Size Check

Blacklist Check

Conclusion

This resource is in the RIPE NCC's region. Please find potential anti-abuse contacts below.

Anti-Abuse Contacts

Potential anti-abuse email addresses:

None found!

Whois objects that could contain potential anti-abuse contacts:

Type	Whois Reference
inetnum	http://apps.db.ripe.net/whois/lookup/ripe/inetnum/140.78.0.0 - 140.78.255.255
role	http://apps.db.ripe.net/whois/lookup/ripe/role/ULAC1-RIPE
role	http://apps.db.ripe.net/whois/lookup/ripe/role/ULNA1-RIPE

Checks

Special Network Resource Check

This resource has been identified to be related to this information:
Legacy space, administered by ARIN

Prefix-Size Check

Looking up a prefix might return less accurate information than a single IP address!

Blacklist Check

This table shows the number of entries in the specific blacklist - higher numbers might indicate less success in reporting abuse.

Blacklist	# of entries
uceprotect-level1	13
uceprotect-level2	1

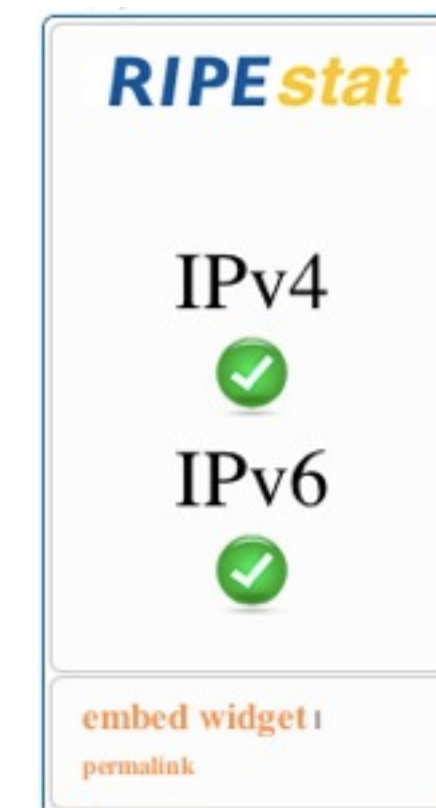
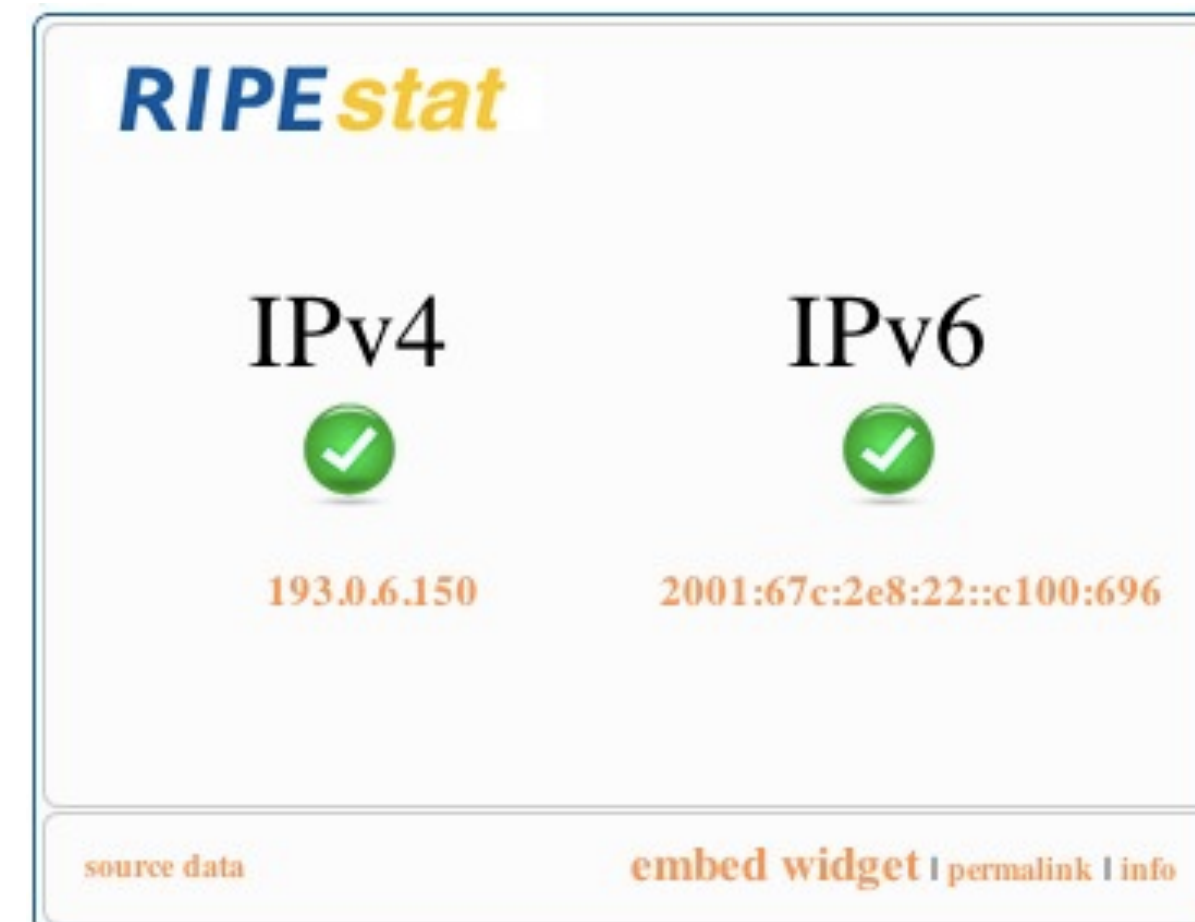
New Features

- Forward-DNS (data-call) / IPv6-Launch-Day widget



New Features

- Better support for different widget sizes



New Features

<https://stat.ripe.net/>**data**/**<data-call-name>**/...
.../**widget**/**<widget-name>**/...
.../**docs**/...
.../**specials**/...

New Features

- Easy URL structure

<https://stat.ripe.net/>**data**/**<data-call-name>**/...
.../**widget**/**<widget-name>**/...
.../**docs**/...
.../**specials**/...

New Features

- Decommission of former data API

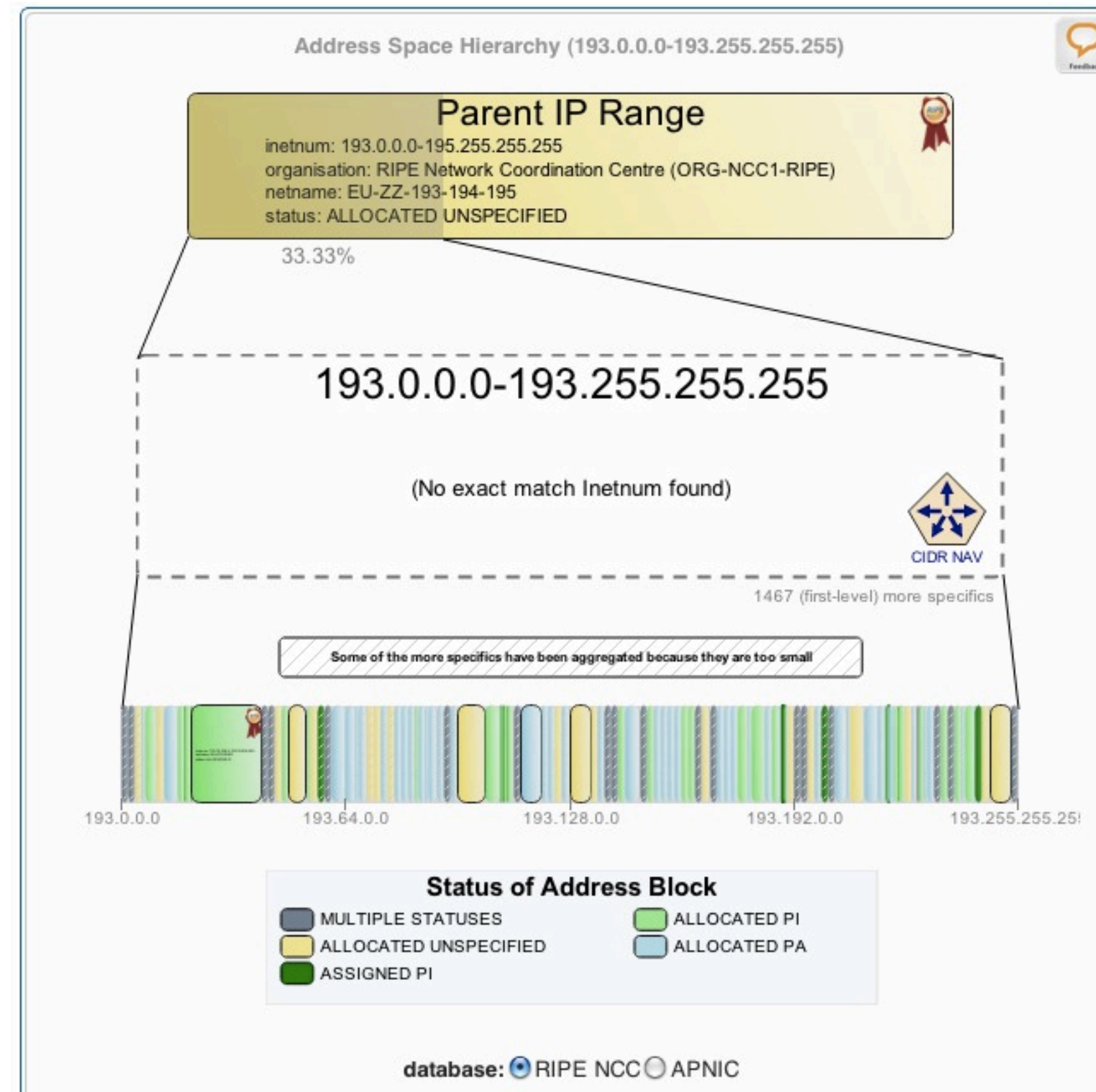
[https://stat.ripe.net/**data**/**<data-call-name>**...](https://stat.ripe.net/data/<data-call-name>...)

former structure: .../**<resource>**

new structure: .../data.**<format>**?param1=value1&...

New Features

- Address-Space-Hierarchy with APNIC data



New Features

New Features

- Performance improvements

New Features

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- Released new RIPEstat mobile version (1.5.0)

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 - Routing-History, ASN-Neighbours-History

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- UI improvements
 - Routing-History, ASN-Neighbours-History
- RDNS supports up to /8

Tutorial: How to embed a widget

Next Generation UI

- Next:
 - Phase 2: widget controls



- Bottom controls to the top
 - Add controls for minimise, full-screen...
 - Controls for use in later phases (e.g. drag, remove)

Next Generation UI

- Next:
 - Phase 2: Widget controls
 - Phase 3: User-defined views

The screenshot displays a dashboard for AS3333 with the following components:

- At a Glance (4)**: A sidebar menu with links to Routing (9), Anti Abuse (1), Database (5), and Geographic (2). A "My View" button is located below these links.
- Resource Overview (as3333)**: A central widget titled "RIPE-NCC-AS - Reseaux IP Europeens Network Coordination Centre (RIPE NCC)". It states "This ASN is part of AS1-65535, the 16-bit ASN Block." and includes links for "source data", "embed widget", "permalink", and "info".
- Geoloc (as3333)**: A map widget showing the location of AS3333 in Europe, with labels for Amsterdam, London, Cologne, and Germany. It includes a "Map" button, a "Satellite" button, and links for "source data", "embed widget", "permalink", and "info".
- Object Browser (as3333)**: A widget showing the object details for AS3333, including the "aut-num: AS3333" and a table of attributes: as-name (RIPE-NCC-AS), descr (Reseaux IP Europeens Network Coordination Centre (RIPE NCC)), and org (ORG-RIEN1-RIPE).

- Drag&drop widgets
- Reorder, rename widgets
- Dashboard functionality
- Possibility to share

Next Generation UI

- Next:

- Phase 2: Widget controls

- Phase 4: Clipboard functionality

- Phase 3: User-defined views

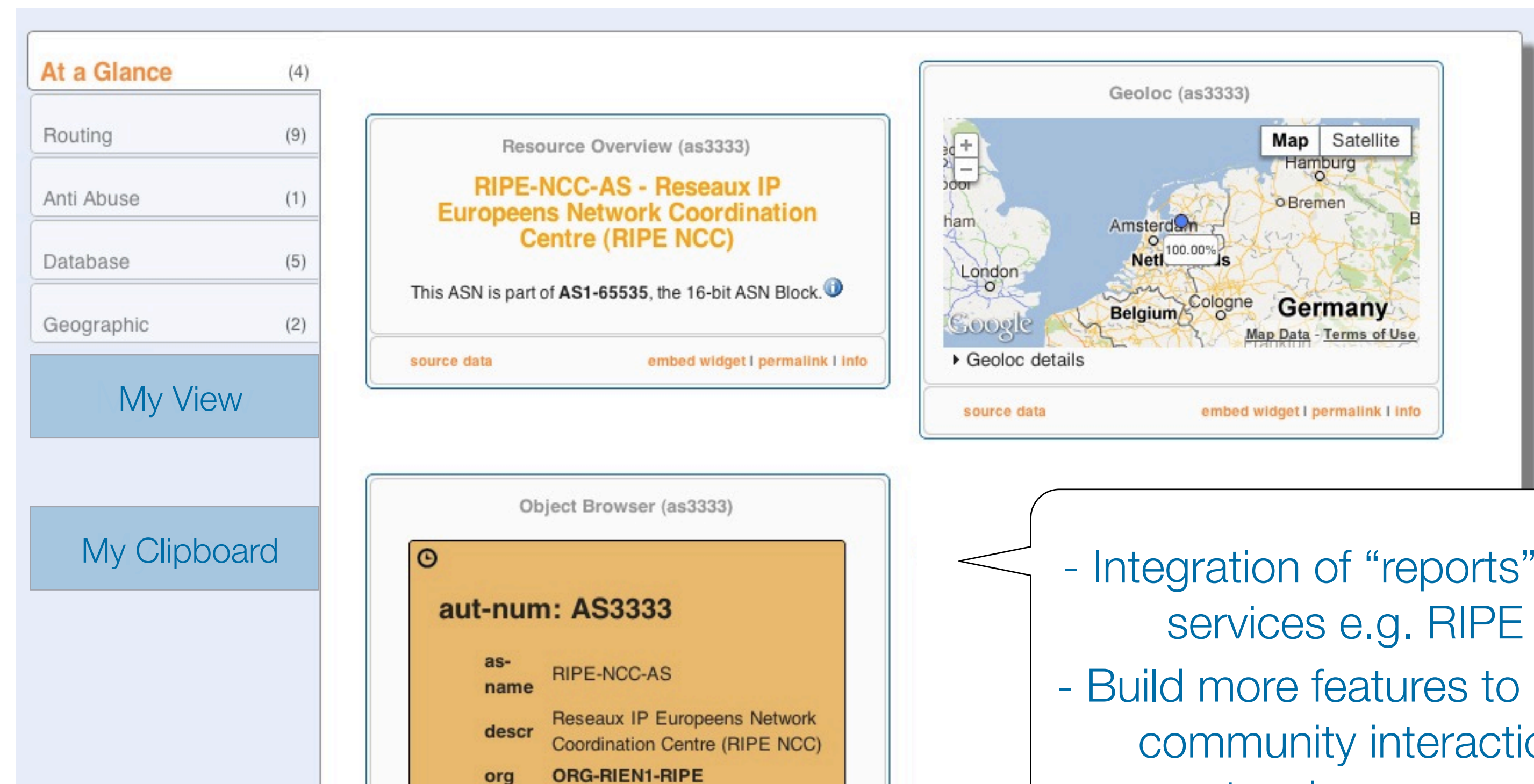
The screenshot displays a web interface for RIPEstat. On the left is a sidebar with a list of widgets: 'At a Glance' (4), 'Routing' (9), 'Anti Abuse' (1), 'Database' (5), 'Geographic' (2), 'My View', and 'My Clipboard'. The main content area features three widgets: 'Resource Overview (as3333)' for RIPE-NCC-AS, 'Geoloc (as3333)' showing a map of Europe, and 'Object Browser (as3333)' displaying details for aut-num: AS3333. Each widget has a title bar and a footer with links for 'source data', 'embed widget', 'permalink', and 'info'. A speech bubble points to the widgets with the following text:

- Drag&drop widgets **with settings**
- Reorder, rename widgets
 - Possibility to share
- Way to insert text and create reports

Next Generation UI

- Next:

- Phase 2: Widget controls
- Phase 3: User-defined views
- Phase 4: Clipboard functionality
- Phase 5: Further ideas



- Integration of “reports” into other services e.g. RIPE Labs
- Build more features to encourage community interaction e.g. extensive commenting

Future Outlook

- Q4:
 - Next Generation UI
 - CLI
 - Country-based results
- 2013:
 - RIPE Atlas data in RIPEstat
 - Migrating other RIPE NCC tools into RIPEstat (e.g. ASInuse, PrefixInUse, ISAlarms, BGPViz...)
 - Support for Android

Discussion/Feedback

- ...questions?
- Feedback after RIPE65
 - stat.ripe.net/feedback
 - Let other's know! - use comments
 - stat@ripe.net
 - and Twitter (#ripestat)

Quiz

- stat.ripe.net/specials/quiz
 - Take part by finding a code word
 - 3 clues (published on Monday, Tuesday and Wednesday at 18:00 CEST on the RIPEstat)
 - Send solution to stat@ripe.net
 - Winner will be drawn on Thursday

The End

Next demo will be published on RIPEstat

This session and the slides will be archived on RIPE labs:
<http://labs.ripe.net/>

See previous demos and other videos on:
<http://www.youtube.com/user/RIPENCC/>

