



RIPE Database Operations Update

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Outline

Statistics

Operations

Developments

Plans



Database Facts and Figures

- 1.8 M objects, 48% inetnum, 42% person
- 29 q/s on average, spikes of 180 q/s
- 2.5 updates/min, 46% inetnum, 47% person

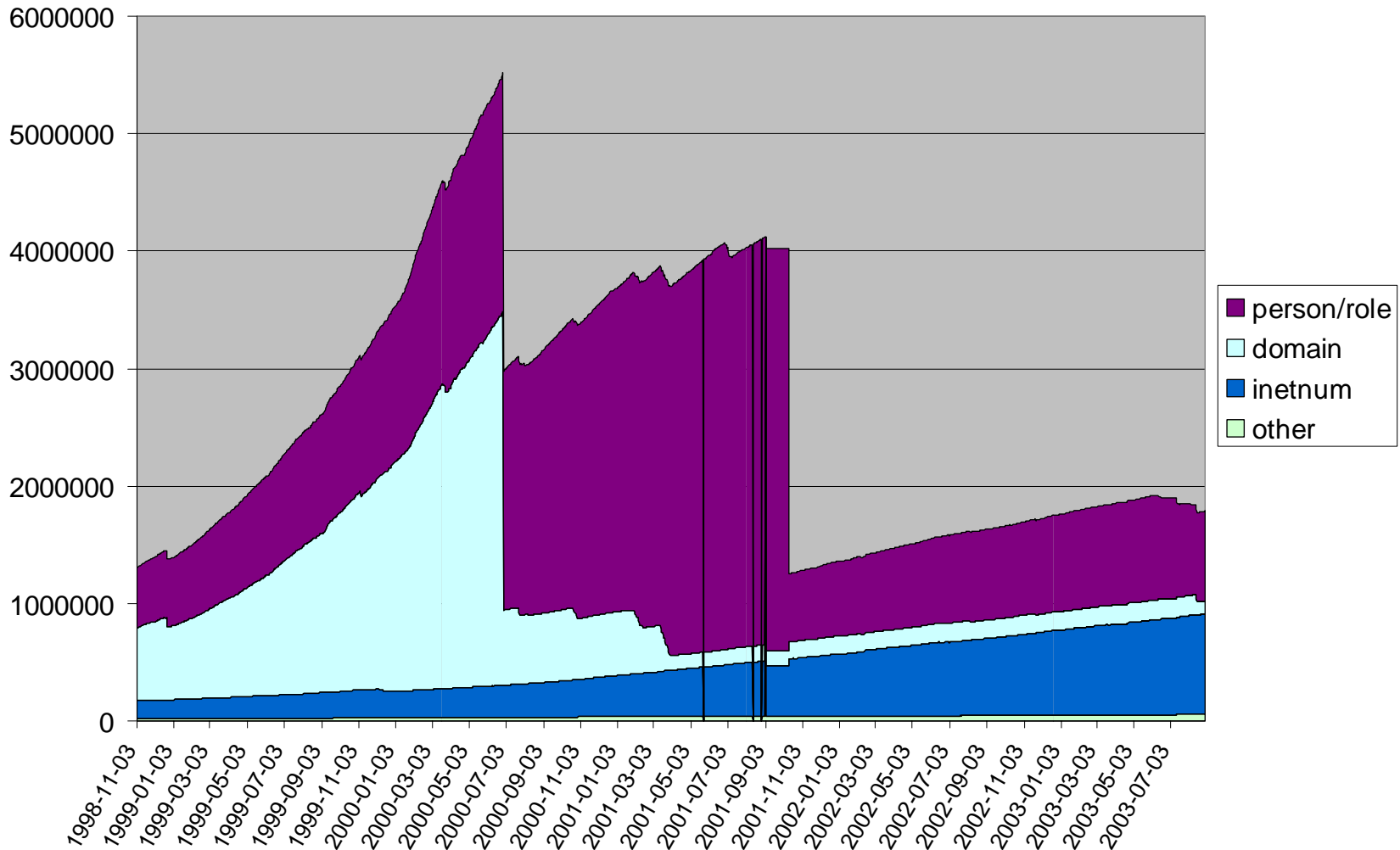
Object counts, query loads, etc. available on-line:

<http://www.ripe.net/db/dbconstat>

<http://www.ripe.net/db/mrtg/whois.html>

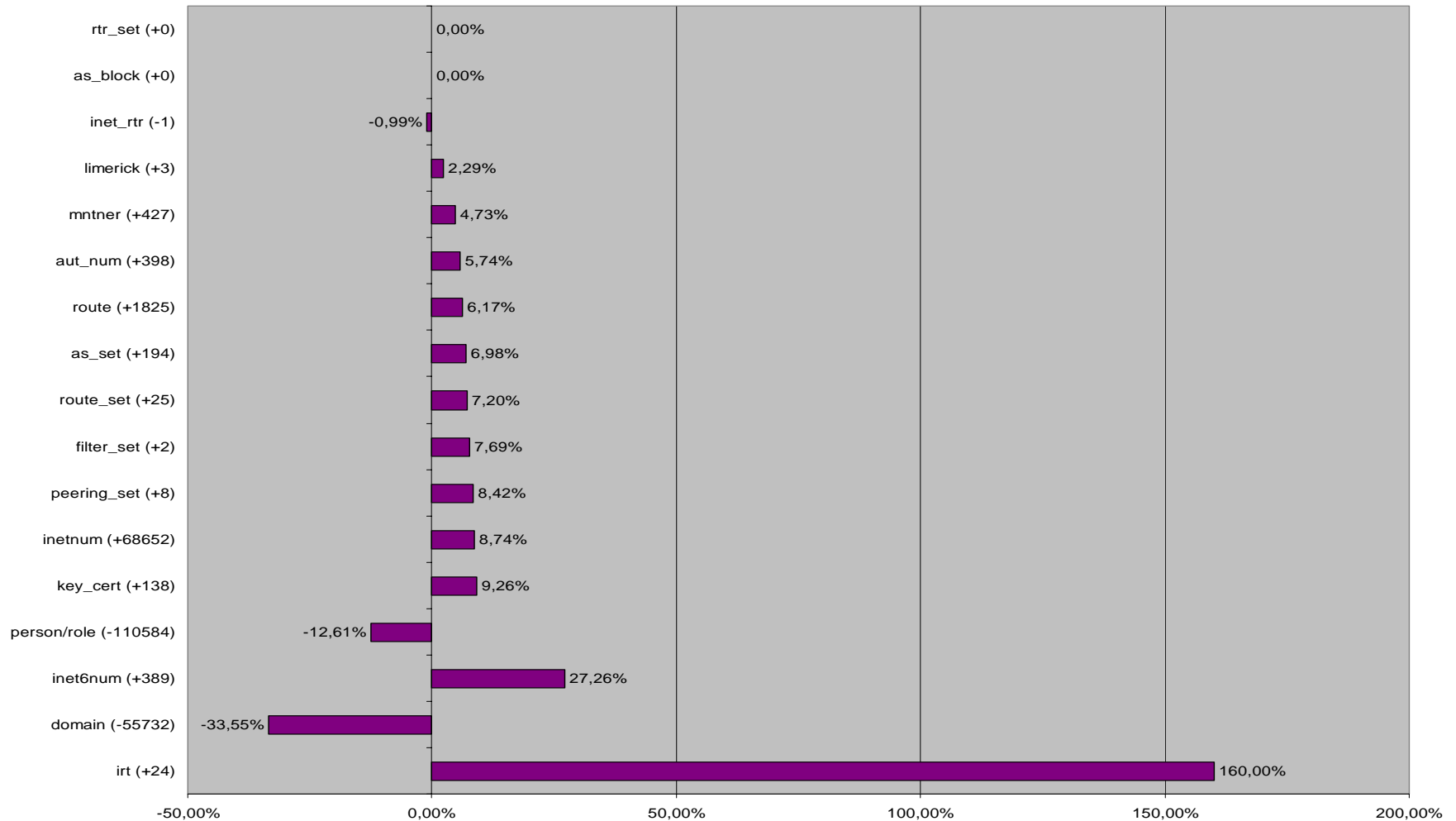
Database Contents

Historical

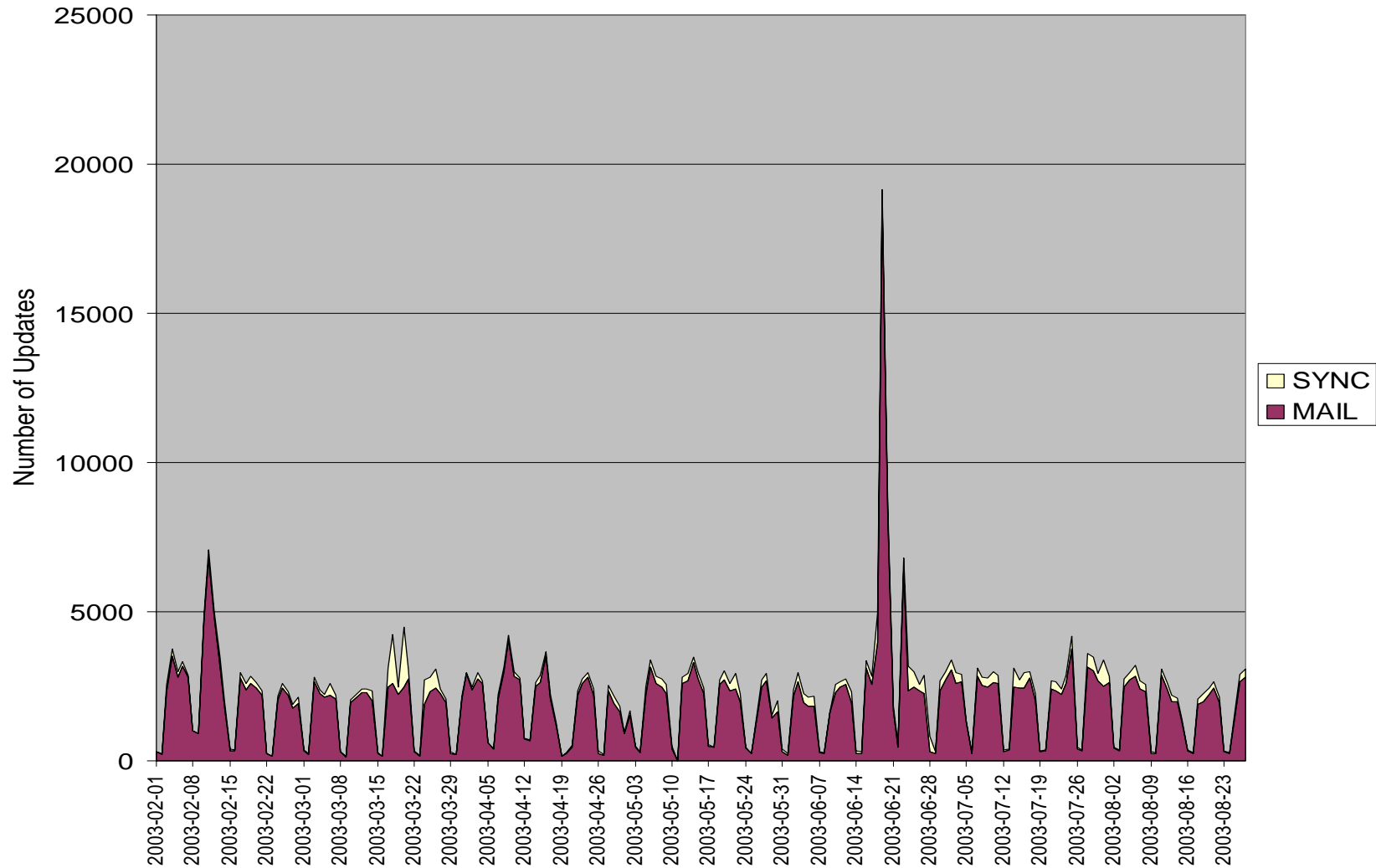


Database Contents

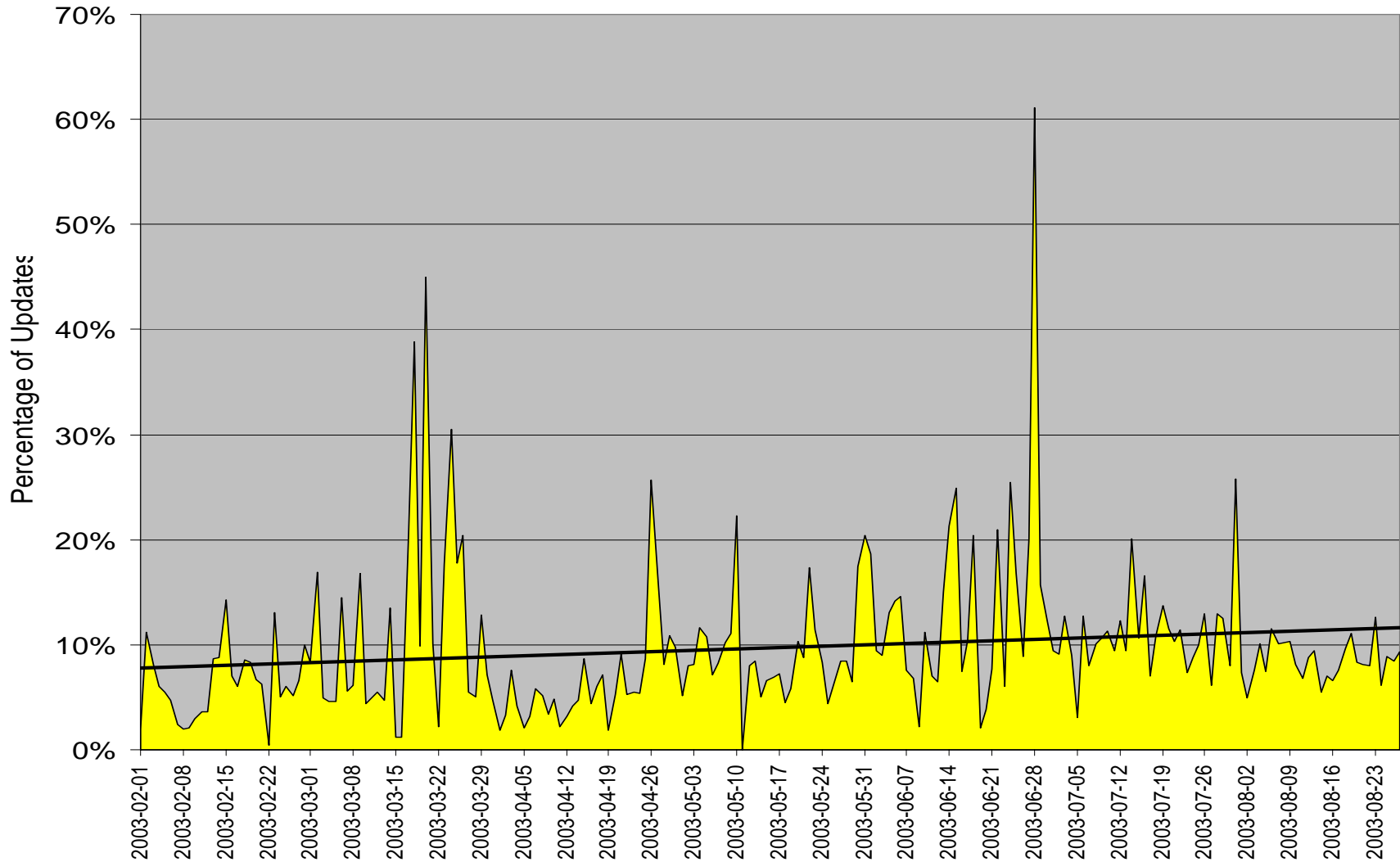
Change by Type



Updates by Method



Synchronous Update Usage

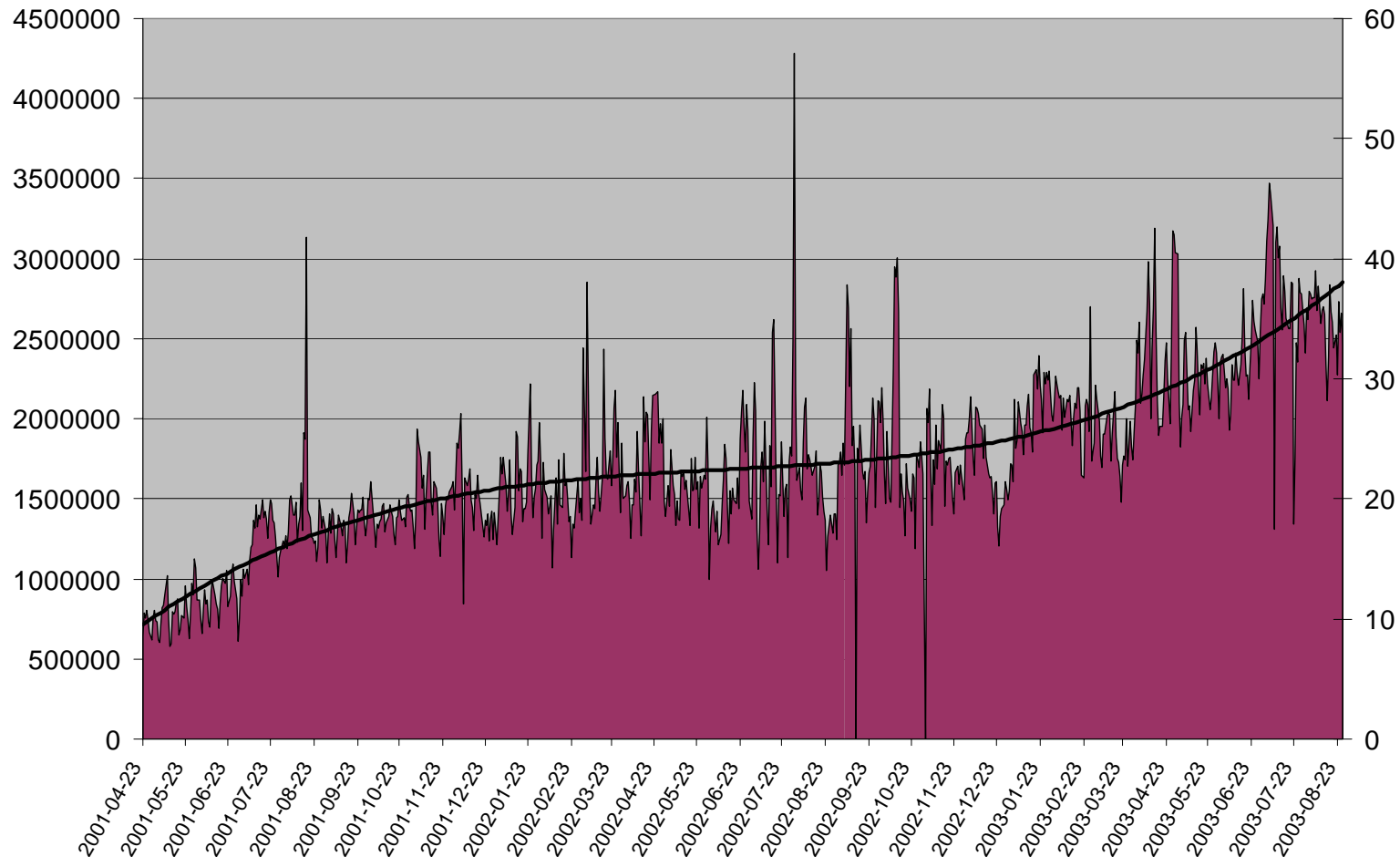




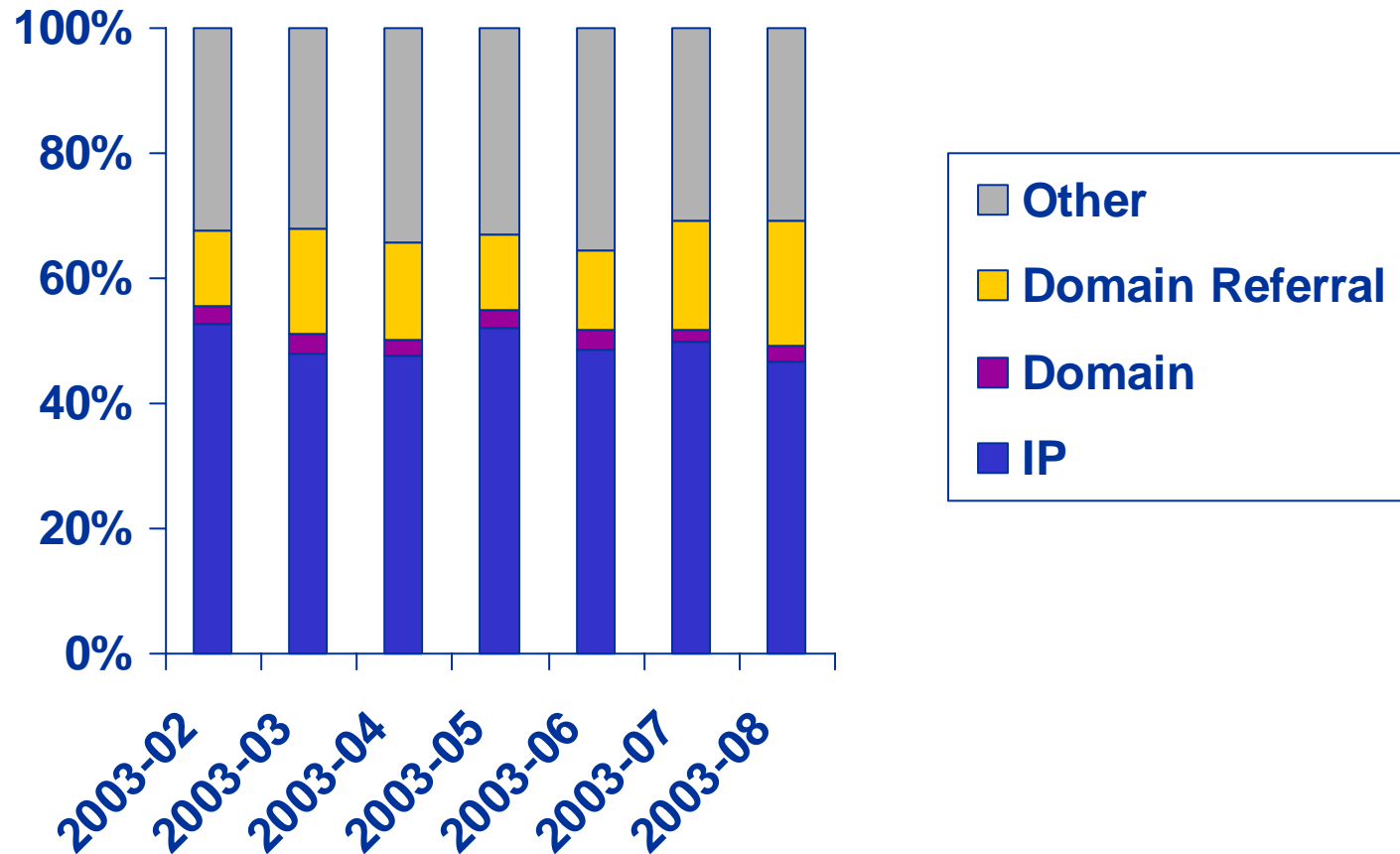
How Many Queries are There?

Number of Queries

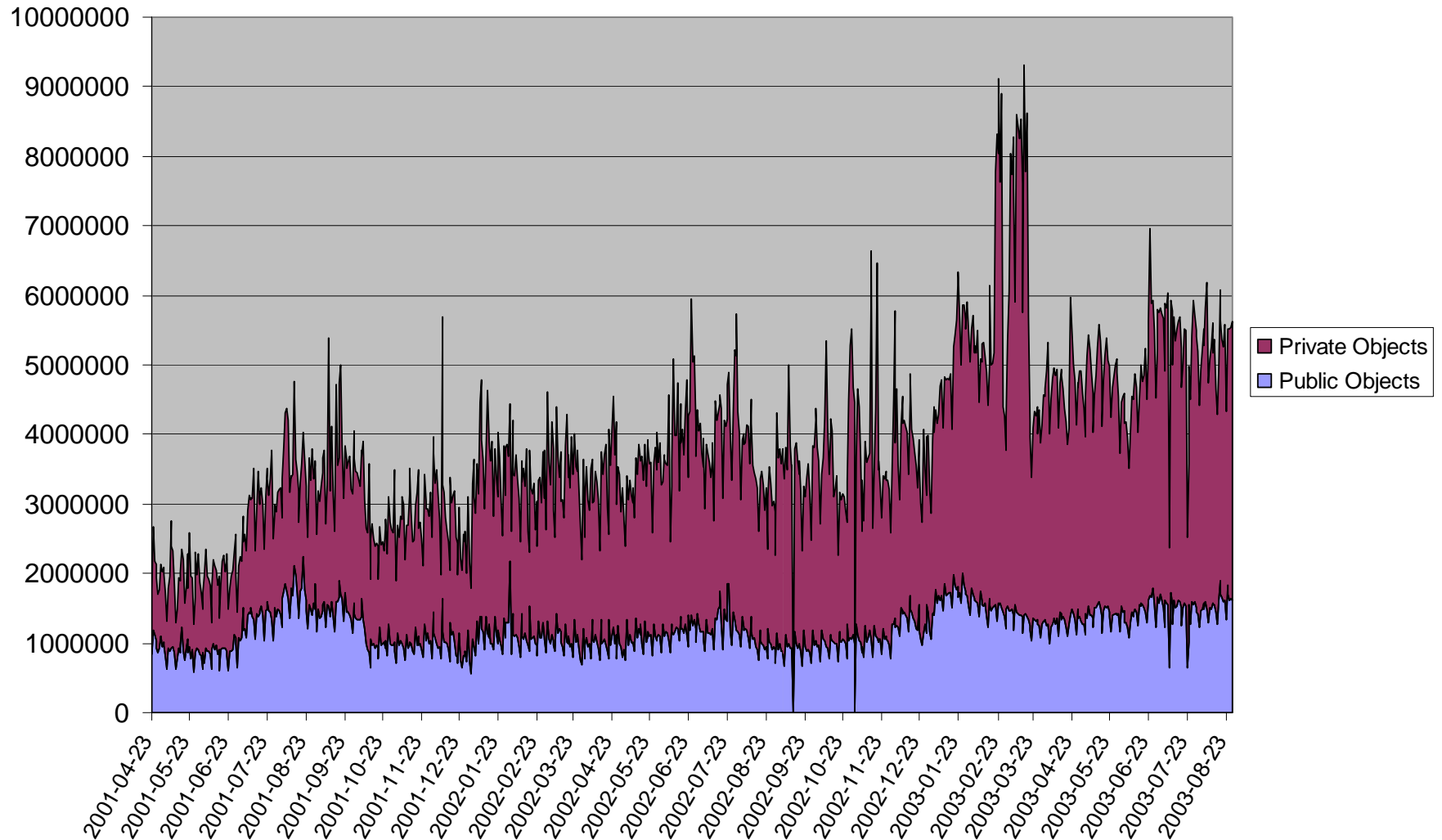
Queries/Second



What are the Queries For?

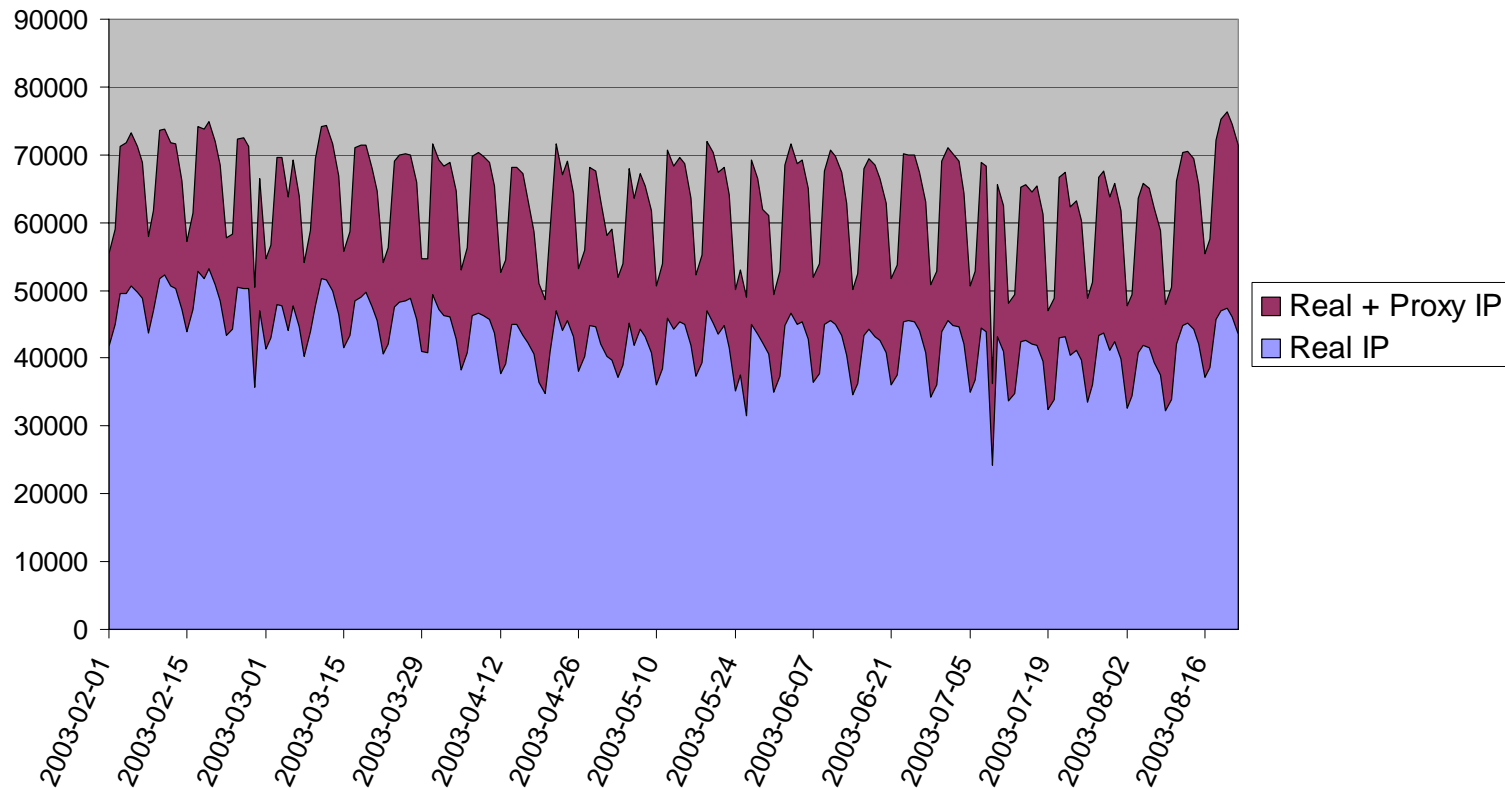


What are Queries Returning?



Where are the Queries From?

Unique IP's for Whois Queries/Day





Who is Getting How Much?

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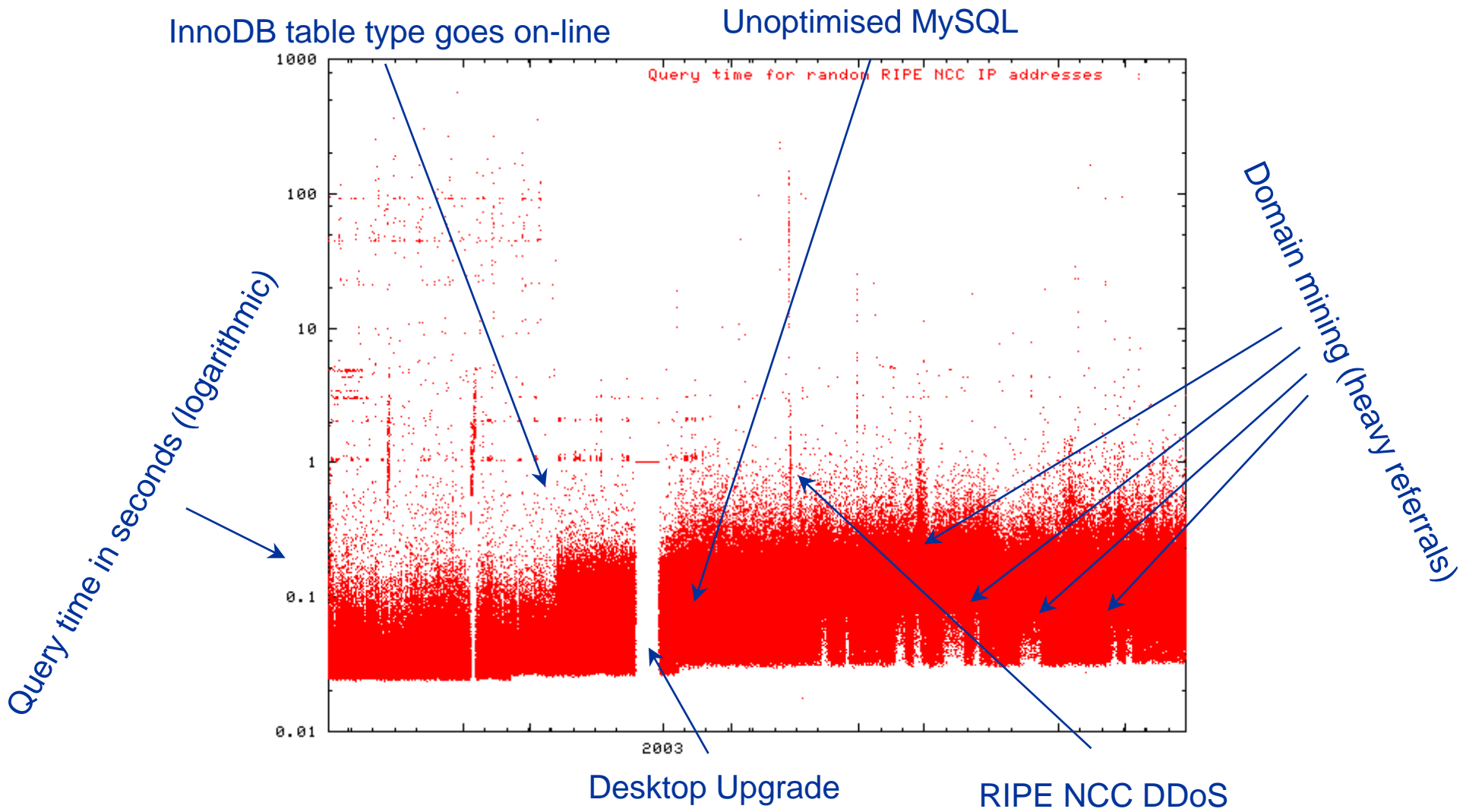


Database Operations

- Smooth sailing
 - average response time is well below 1 second
 - load approximately double last year
- No news is good news!



How Responsive is the Server?





Unreferenced Person Cleanup

- Protect privacy of users
 - Person objects remain undeleted when contacts change
- Person objects unreferenced for 90 will be deleted
- Deletions began 29 May 2003
- 35% of unreferenced person objects now deleted
 - Removed over 100000 objects

<http://www.ripe.net/db/unref-cleanup-200304.html>

RIPE Database Administration



Engin Gündüz



Can Bican



Ingrid Wijte



Denis Walker



Katie Petrusha



Recent RIPE DBM Activity

- Tickets, tickets, tickets
 - About 70/day
- Spam still a problem
 - Moved to SpamAssassin
 - We reply if filtered – no e-mails dropped!
- Hostmaster doing 20% of RIPE DBM
 - Closer co-ordination between groups
- `ripe-dbm@ripe.net` is an open, general help mailbox

Please e-mail Questions or Problems!

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Software Development

- Server
 - Source code release, 3.2.0
 - Client IP in denial messages
 - More internal changes
- RPSLNg server prototype
- RPSLNg modifications to IRRToolSet

RPSLNg

- IPv6 and multicast RPSL objects
 - RPSLNg draft discussion at Routing WG
 - Request for standard-track RFC sent to IESG
- Server and tools available
 - Prototype server on-line
 - Based on RPSLNg draft
 - Throw-away copy of RIPE Database
 - IRRToolSet changes
 - Underlying tools now RPSLNg-compliant
 - RtConfig (router configuration) changes underway
- Source & prototypes see little use
 - But some objects have non-RPSLNg IPv6 routing information
 - grep for '::' in <ftp://ftp.ripe.net/ripe/dbase/split/ripe.db.aut-num.gz>

<http://www.ripe.net/ripenncc/pub-services/db/rpslng/>

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Proposals

- "status:" attribute changes
- X.509 authentication additions
- organisation object

Separate presentation on each.

Previously Proposed Changes

- default to protected inetnum/inet6num/domain
 - ALLOCATED inetnum issue, see separate presentation
- notification for more-specific
 - Done
- removal of cross notifications
 - Partially done, needs plan for removal of attributes
- "reclaim:"-like functionality
- "mnt-lower:" on set objects
- "admin-c:"/"tech-c:" on key-cert objects



Recently Proposed Changes

- CIDR-to-range conversion for inetnum
- route authorisation from more-specifics
 - to improve aggregation



No Action, But Not Forgotten

- Deprecating NONE?

CRISP

- IETF protocol to replace Whois
 - Client-side referrals
 - Structured queries
 - Well-defined schema for replies
- RIRs submitted a requirements draft
- Expect to operate in conjunction with Whois

<http://www.ietf.org/html.charters/crisp-charter.html>

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