



RIPE NCC IPv6 Update

RIPE 59, Lisbon, PT
October 2009

James Aldridge
Senior Systems & Network Engineer



Overview

- IPv6 Within the RIPE NCC
 - Summary
 - IT / Operations
 - DNS Services
- IPv6 at RIPE Meetings



IPv6 Within the RIPE NCC

- Summary
 - All services remain IPv6-enabled
 - Either with native support or via a proxy
 - Working towards more native support



IPv6 Within the RIPE NCC : IT/Ops

- Still using IPv6 assignment from SURFnet
 - Still problems with peers not honouring the “no-export” community setting on our announcement
 - Plan to move eventually to our own IPv6 PI assignment
- Concentrating on improved monitoring
 - IPv6 Netflow on Juniper M7i requires a Multiservices PIC
 - Unexpected expense
- Hopefully we will have some graphs for the next meeting

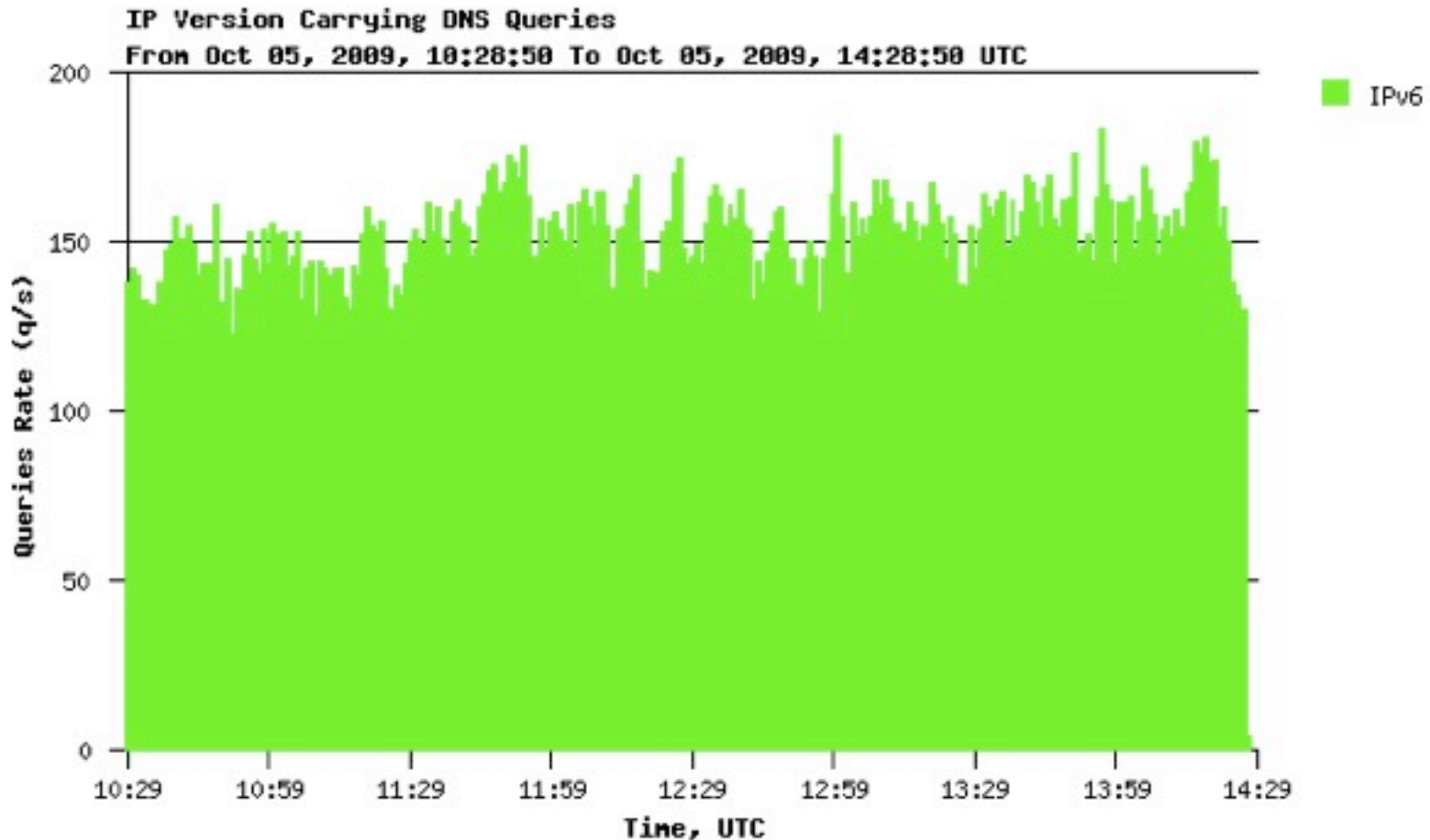


IPv6 Within the RIPE NCC : DNS

- K-Root
 - IPv6 at 10 instances
 - Plan to announce IPv6 from more instances (Tokyo, Frankfurt, Dar es Salaam) over the next few months.
 - Query rate over IPv6 between 150 and 200 queries/second
 - Approximately 1% of total query rate

IPv6 Within the RIPE NCC : DNS

- K-Root



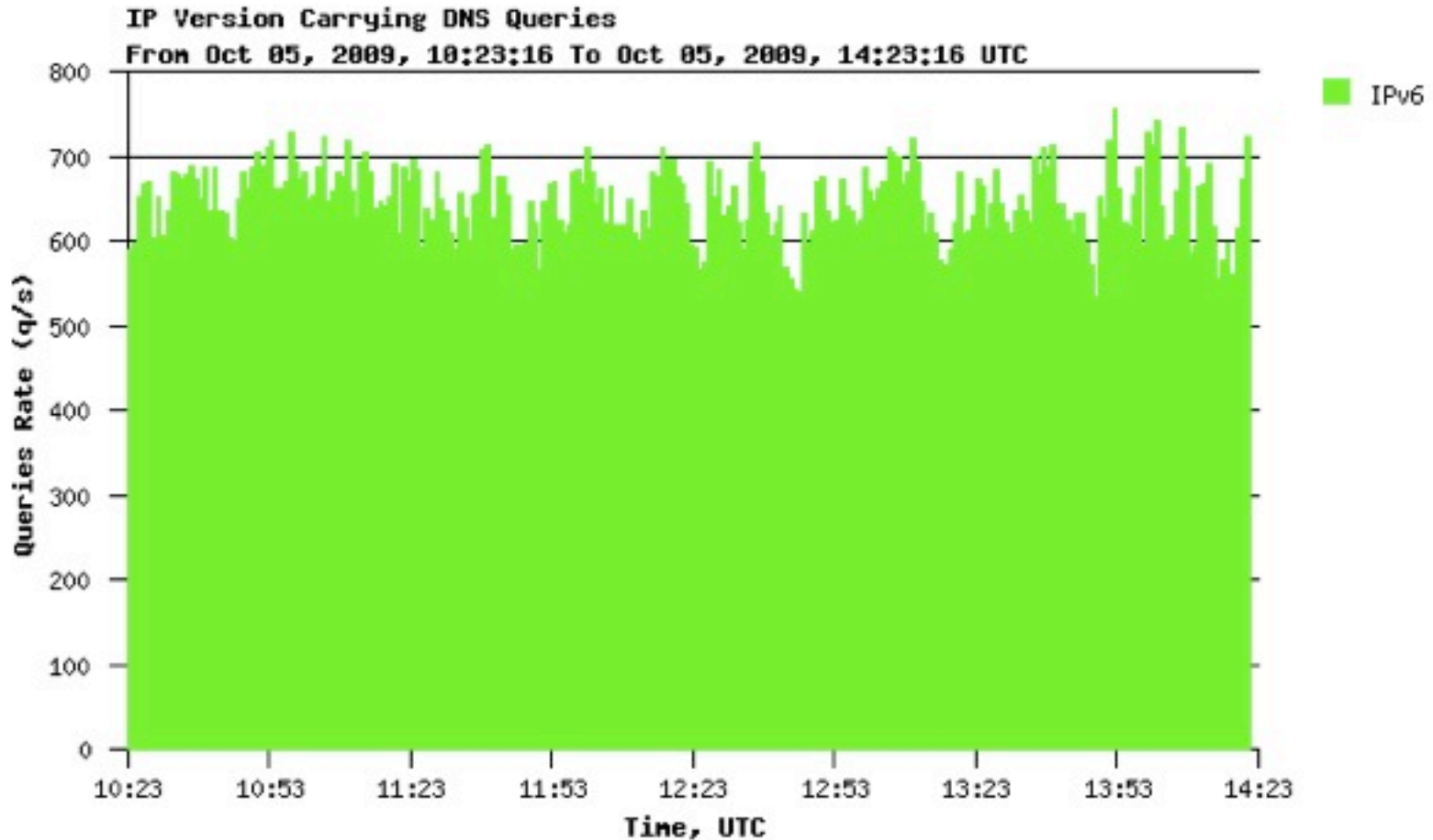


IPv6 Within the RIPE NCC : DNS

- Reverse DNS
 - All reverse DNS servers of the RIPE NCC are available over IPv6
 - Query rate over IPv6 around 600 queries/second
 - Approximately 1% of total query rate

IPv6 Within the RIPE NCC : DNS

- Reverse DNS



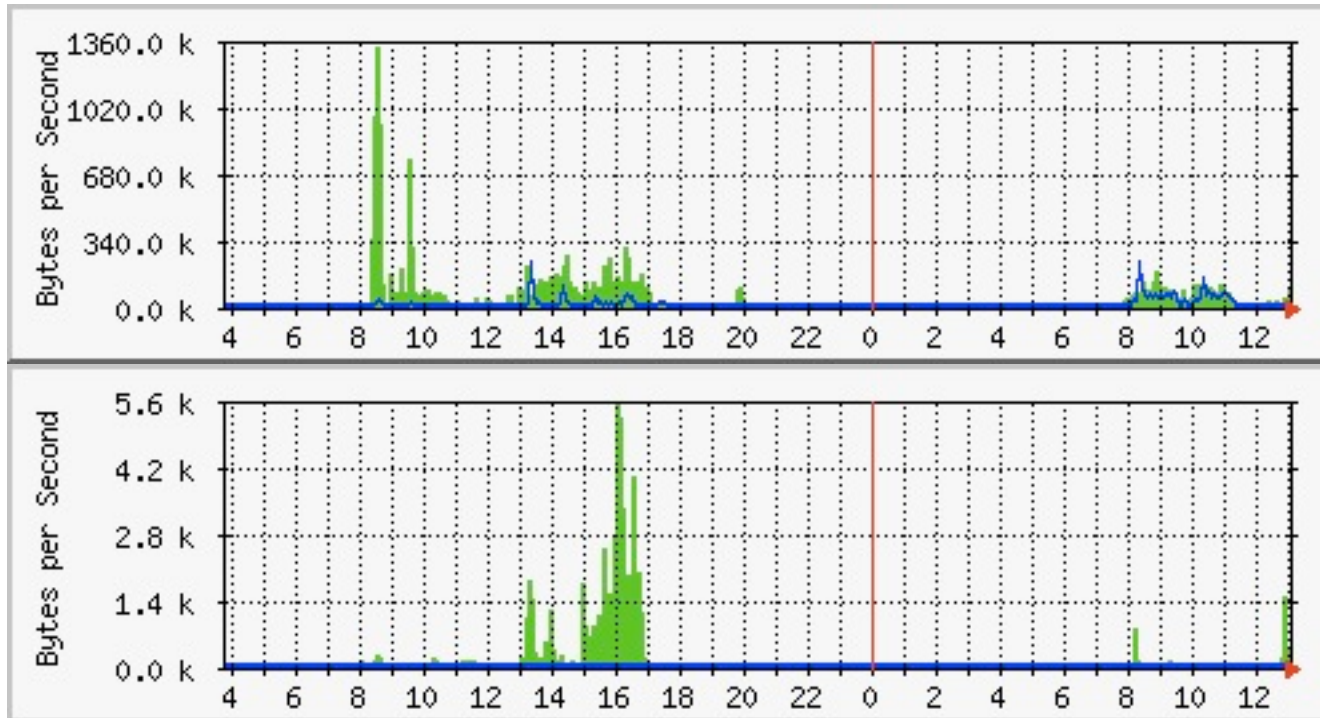


IPv6 at RIPE Meetings

- New IPv6 assignment - 2001:67c:64::/48
- Assigned following policies
 - 2006-01 (IPv6 PI assignments)
 - 2009-02 (Assignments to the RIPE NCC)
- Procedure took slightly longer than expected
 - We only got final approval of the assignment on Thursday before this RIPE Meeting

IPv6 at RIPE Meetings

- IPv6 on Transit Link (both routers)



- Peak IPv6 traffic ~ 1.3 Mbytes/second (briefly)
- Peak IPv4 traffic ~ 4.4 Mbytes/second (steady)



IPv6 at RIPE Meetings

- Future...
 - More IPv6 experiments?

Questions?

