



Deprecation of ip6.int reverse DNS service in APNIC

Project update

DNS operations SIG, APNIC 21

2 March 2006

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Overview

- Background
- Proposal
- Project status
 - Observations/statistics
 - Coordination work
 - Schedule
- Q & A

Background

- Use of the ip6.int domain deprecated Aug 2001 (RFC 3152)
- BCP 109, RFC 4159 (Aug 2005) states
 - “The Regional Internet Registries (RIRs) are advised that maintenance of delegation of entries in "ip6.int" is no longer required as part of infrastructure services in support of Internet Standards conformant IPv6 implementations as of 1 September 2005.”
- APNIC has stopped accepting new ip6.int domains as of Jun 2004
- Query rate for ip6.int domains is still around 5 queries/minute



prop-030-v002

- It is proposed that APNIC cease devoting resources to support the operation of this deprecated domain. The cut off date to be determined jointly with the other RIR

Proposal



- Proposed steps to ensure orderly cut off
 - Notify parties who are sending ip6.int queries to APNIC DNS servers, that APNIC is stopping the service
 - Send public announcements
 - Notify root ip6.int to remove APNIC delegation on the cutoff date
 - Remove ip6.int entries in APNIC DNS on cutoff date
 - Report project status in APNIC 21 (End Feb 2006)



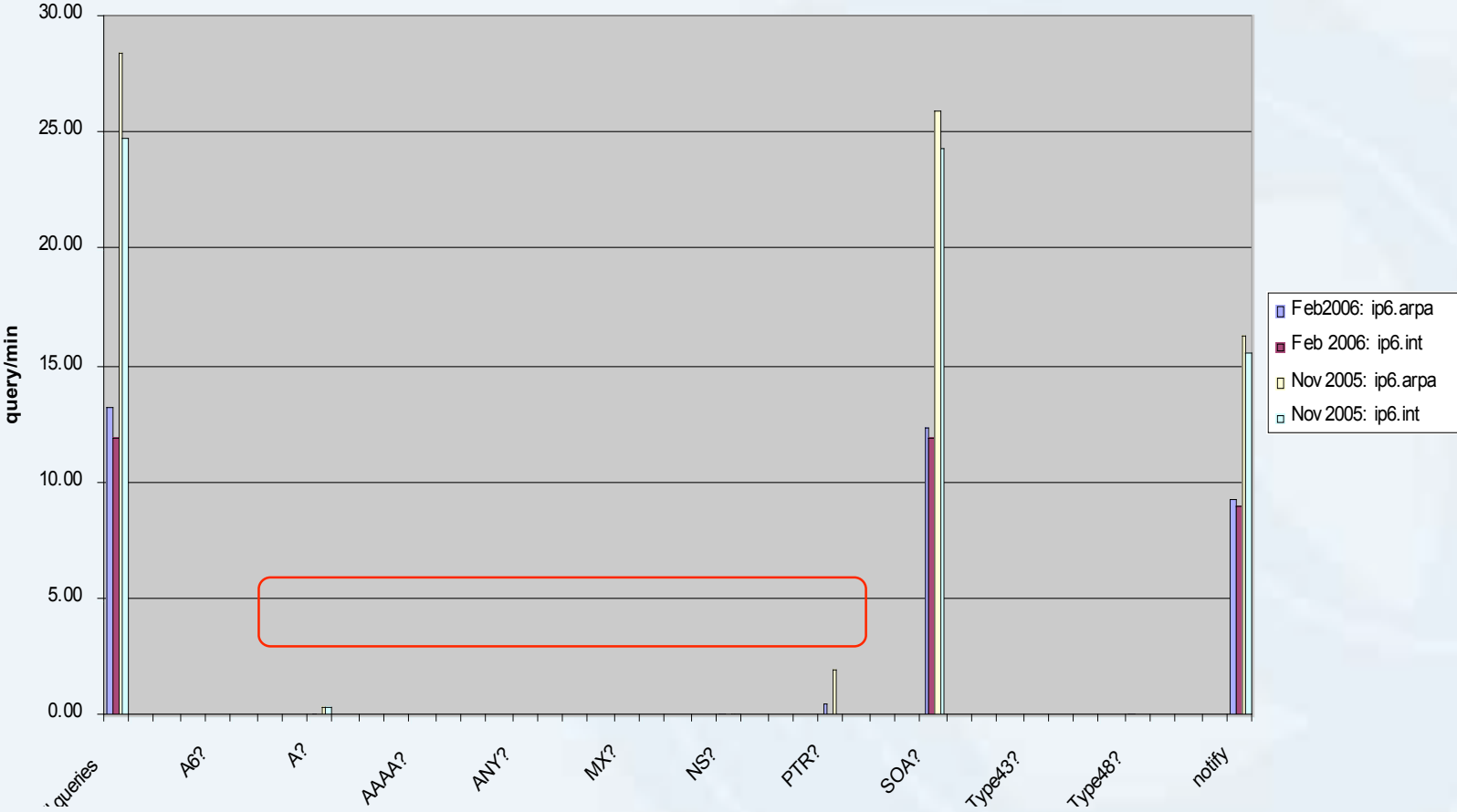
Observations/statistics

- Most IP6 dataflow is from listed NS of domains
 - Zone refresh (SOA) checks
 - Zone notify from masters on update
- Decline in ip6.int related load seen
 - Nov 2005, 2 days measurement
 - Feb 2006, 6 days measurement

Query load per minute, int/arpa



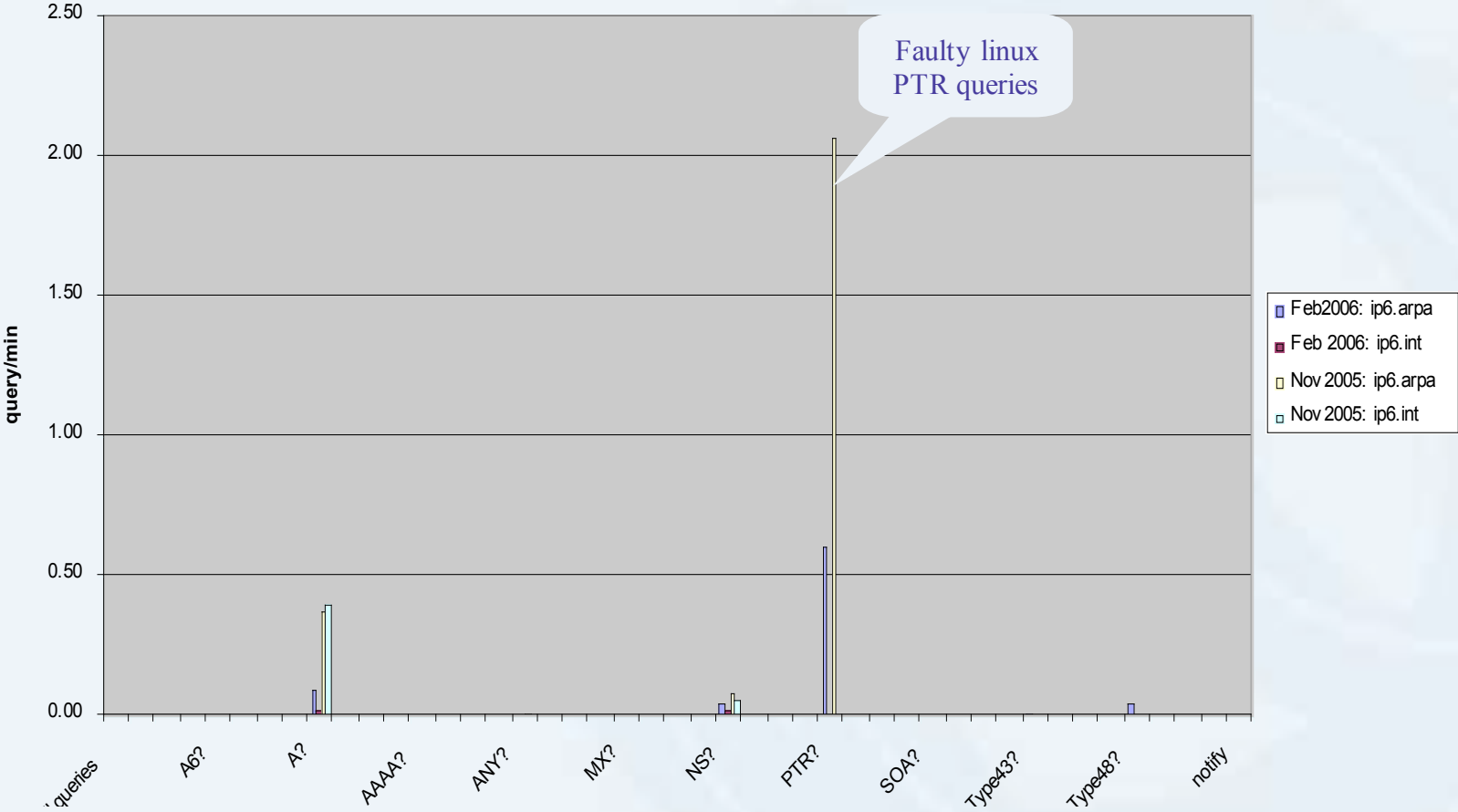
q/min per RR type



Non-NS query load



q/min per RR type





How many NS worldwide?

- Very few discrete NS request services in IP6.int
- Query rates are low (<2q/min)
- PTR queries dominated by faulty linux
 - going to ip6.arpa NS, not sub-reverses

Domain	November 2005	February 2006
ip6.int	36	29
ip6.arpa	724	572

Coordination work

- Other RIRs
 - Agreement to coordinate as a global activity
 - Public communications
 - Technical activities
 - Will cease ip6.int on the same date
- NIR
 - Consult each NIR community to check for issues or scheduling conflicts
- Root ip6.int
 - Consultation of activities and schedules (in plan)

Schedule



1 Mar 06

1 Jun 06

No	Task	March	April	May
1.1	APNIC 21 project update	■		
1.2	3 rd party notifications	■		■
1.3	Public announcements		■	■
1.5	Notify root ip6.int			■
1.6	Cease ip6.int service			■



Q & A