

Introducing the IANA

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Introduction

- Internet Assigned Numbers Authority:
 - ◆ “We’re from IANA, we’re here to help”
 - Bringing you Names, Numbers, and Resources since 1972(ish)
- What the IANA does:
 - ◆ Administer the Root Zone
 - Add/modify/delete TLDs according to ICANN directions
 - ◆ Administer .ARPA with IAB and .INT
 - ◆ Allocate blocks of IPv4 and IPv6 to Regional Internet Registries (RIRs)
 - ◆ Allocate blocks of Autonomous System Numbers to RIRs
 - ◆ Assign ports, protocol parameters and “Private Enterprise Numbers”
 - ◆ Review IETF Internet Drafts for IANA considerations
 - ◆ Coordinate Root Server Operations (c.f. “herding cats”)
- What IANA doesn’t do:
 - ◆ Make policy
 - ◆ Get involved in non-technical disputes

IANA Staffing

- Original IANA: 2 full-time + 2 part-time staff
 - ◆ Different political and technical environment
- New staff at the IANA
 - ◆ David Conrad (IANA GM)
 - ◆ Kim Davies (Names Liaison)
- Not new staff at the IANA
 - ◆ Barbara Roseman (IANA Operations Manager), Michelle Cotton (Project Specialist), Naela Sarras (Project Specialist), Pearl Liang (Project Assistant)
- In case you're looking for a job, IANA is hiring!
 - ◆ Looking for:
 - Numbers liaison, Security person, IETF liaison, Writer
 - Diplomatic people with multi-lingual skills very desirable

History

- Originally, IANA was a part of a US DARPA contract looking at High Performance Computing
 - ◆ IANA was Jon Postel and Joyce Reynolds with some part-time help
 - ◆ IANA never had an independent existence
- With the creation of ICANN, IANA became a “function of ICANN” instead of a task within a DARPA contract
 - ◆ ICANN provides non-technical context in which IANA functions
 - ◆ IANA would find it difficult to exist without “political blocking”
- Until recently IANA was underfunded and understaffed
 - ◆ At one point, IANA consisted of one person...
- This has been remedied
 - ◆ “Whatever it takes” -- Paul Twomey, CEO ICANN

IANA Policies

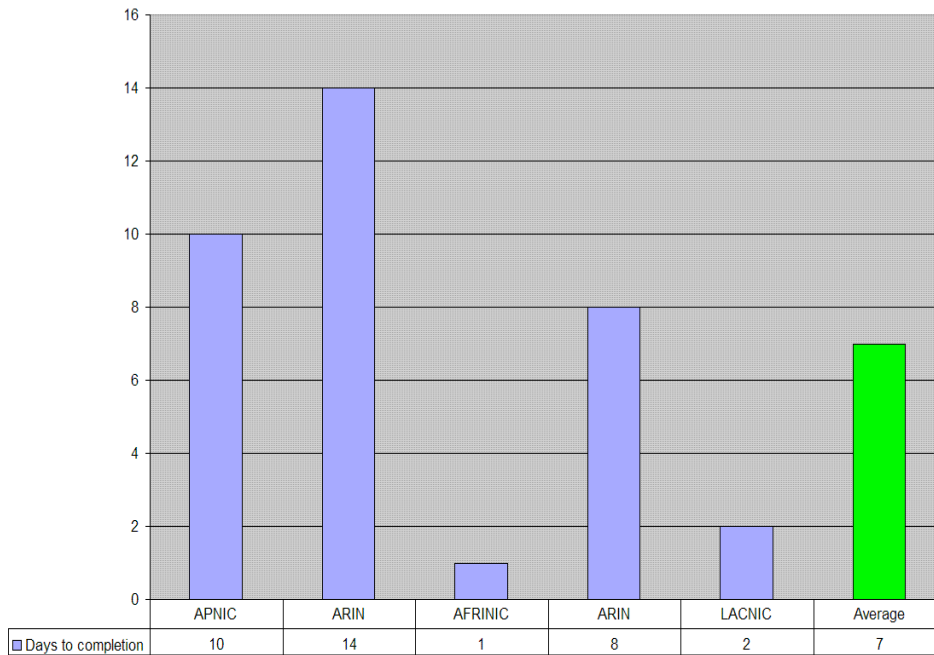
- IANA does **NOT** make policy
 - ◆ IANA is purely operational
- Where are policies made?
 - ◆ It depends:
 - IETF-related: via the RFC process
 - RIR-related: via the RIR Public Policy Development process
 - TLD-related: via ICANN
- The hard part: many policies have grey areas and require subjective evaluation
 - ◆ IANA tries to dodge these as much as possible
 - Use external lists and processes
 - Push for consensus

A Few Statistics for 2005

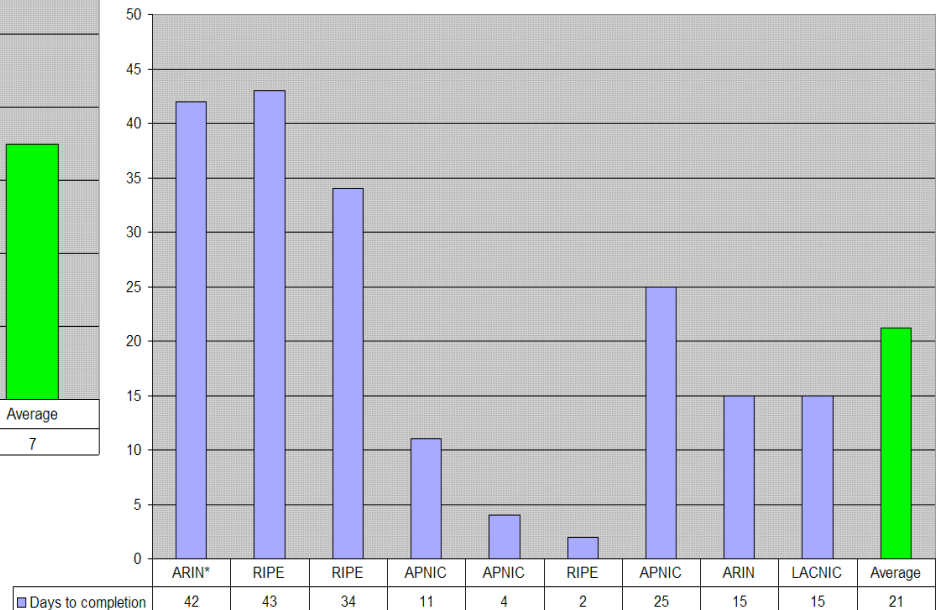
- IANA's primary task is to maintain registries
 - ◆ Keep track of allocated resources
- What follows is a few IANA statistics
 - ◆ Mostly a “best guess”
 - Statistics are mostly correct
 - Updated graphs will be provided as soon as data has been fully collected and analyzed.
- IANA has ongoing projects to improve data collection and presentation
 - ◆ Information on how the IANA is doing its job
 - Important for historical reasons
 - ◆ Information on resource consumption

IP Address Allocations

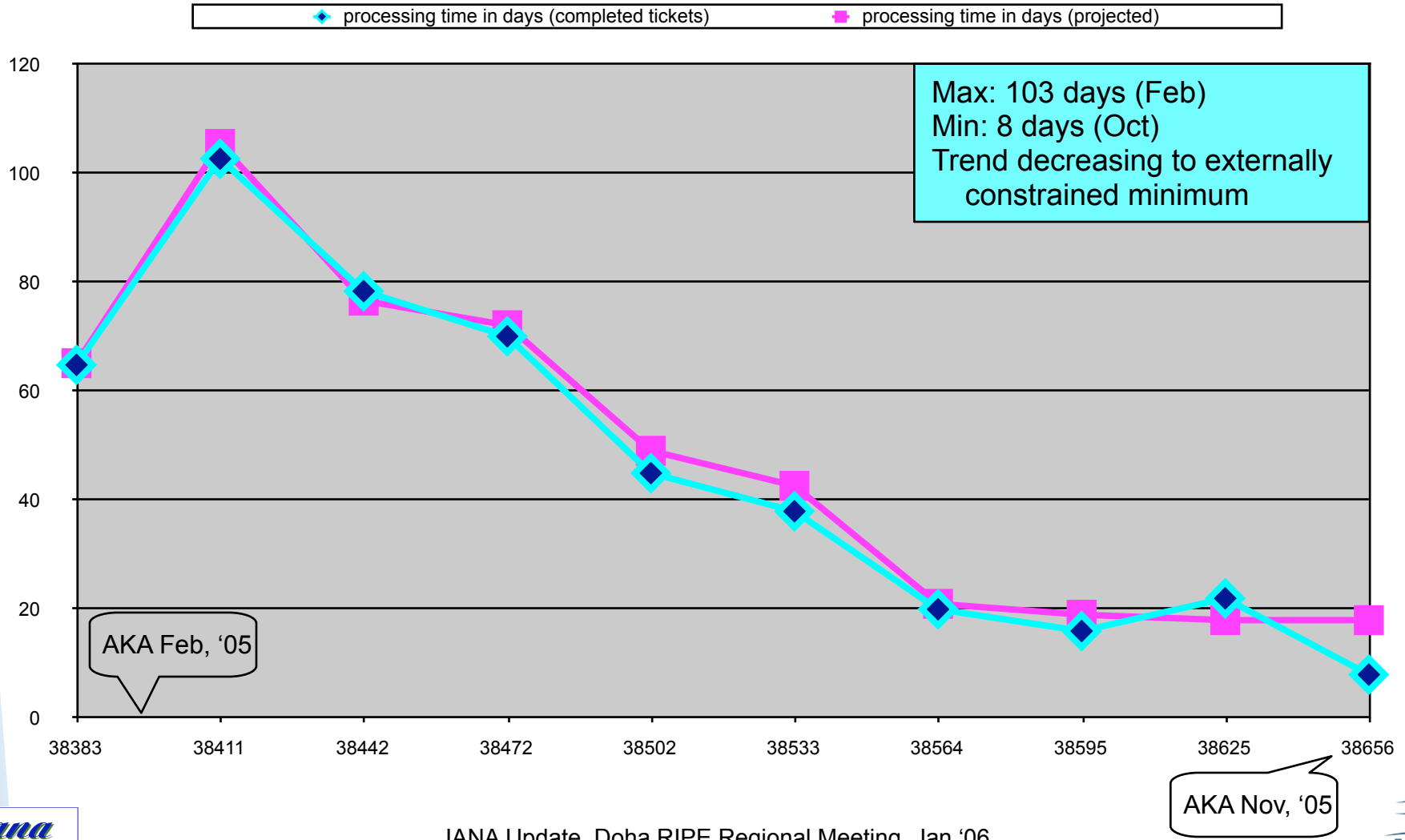
Time needed to complete RIR requests for IPv4 allocations (2005 to date)



Time needed to complete RIR requests for IPv6 allocations
* Original request submitted 12/15/04, revised request submitted 3/8/05

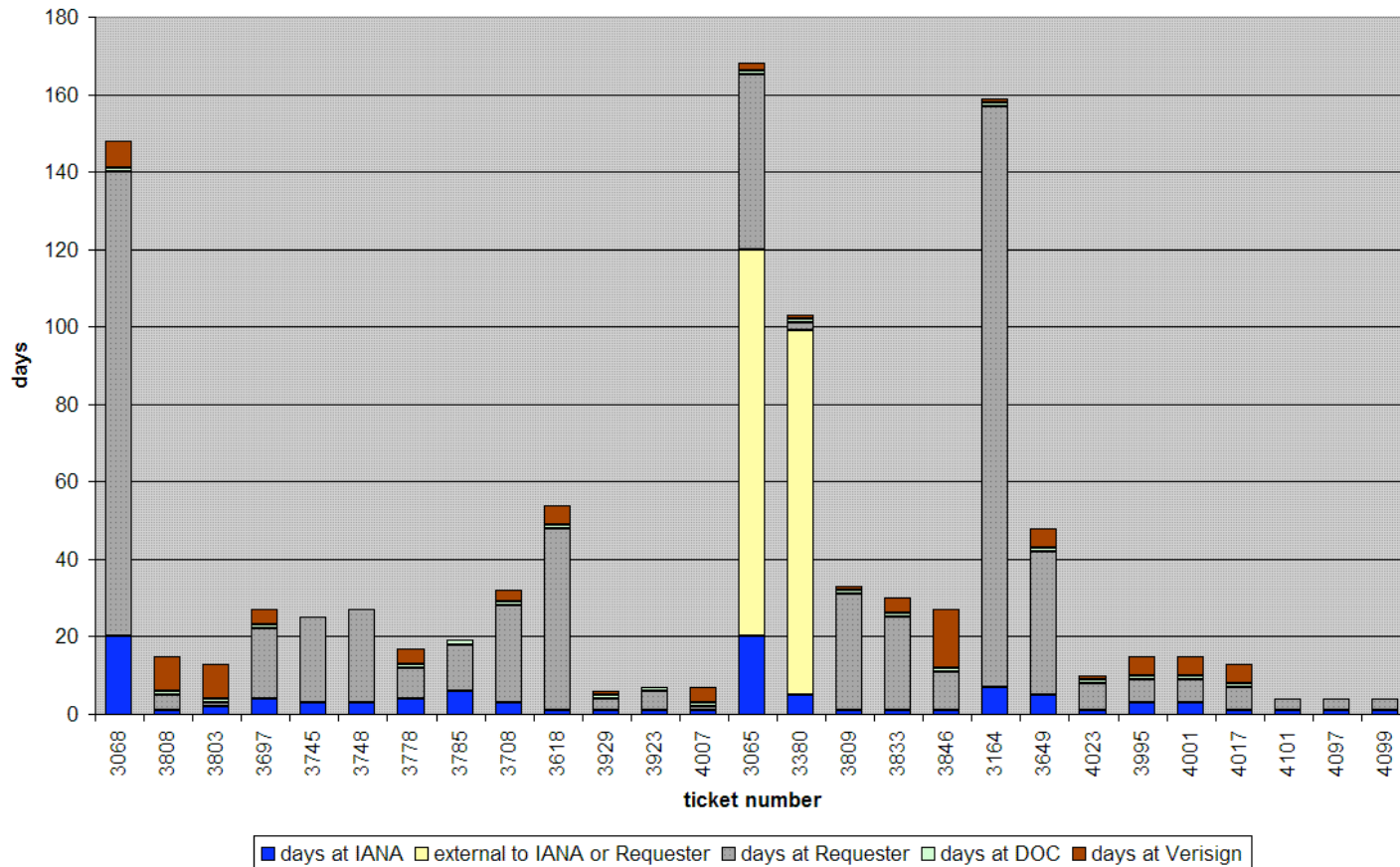


Root Zone – processing time in days



Root Zone – where time is spent

Root Management Change Requests October 2005



Summary

- IANA processes improving
 - ◆ More formalization necessary for handling requests
- More automation necessary
 - ◆ Request validation and processing
 - ◆ Data collection for statistics
 - ◆ Statistics presentation
- Mistakes were made (understaffing, wrong staffing, de-emphasis/de-prioritization) but ICANN has taken extensive steps to never repeat them
 - ◆ Much higher priority and emphasis, new staff, increased budget, new focus on responsiveness, efficiency, and automation

For More Information

- IANA Web Page: <http://www.iana.org>
- ICANN Web Page: <http://www.icann.org>

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Questions?

