What we've been up to in the last two months

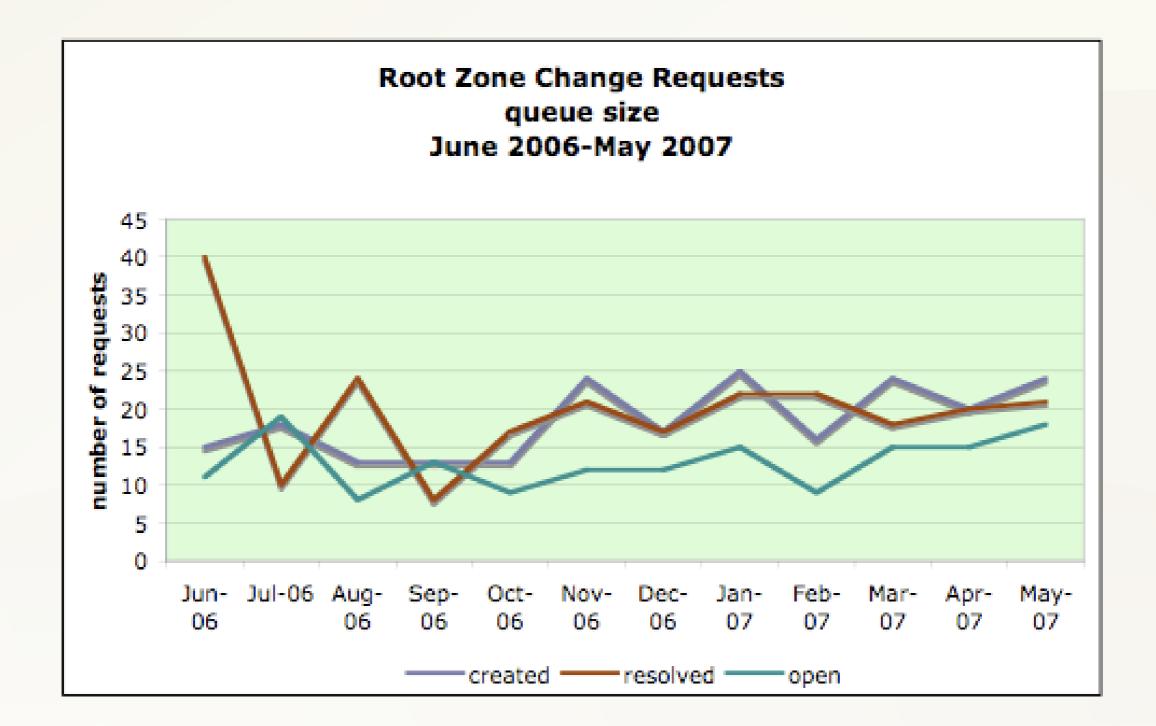
ccNSO, ICANN San Juan Meetings, June 2007

Kim Davies
Internet Assigned Numbers Authority



Working 9 to 5.. 6.. 7..



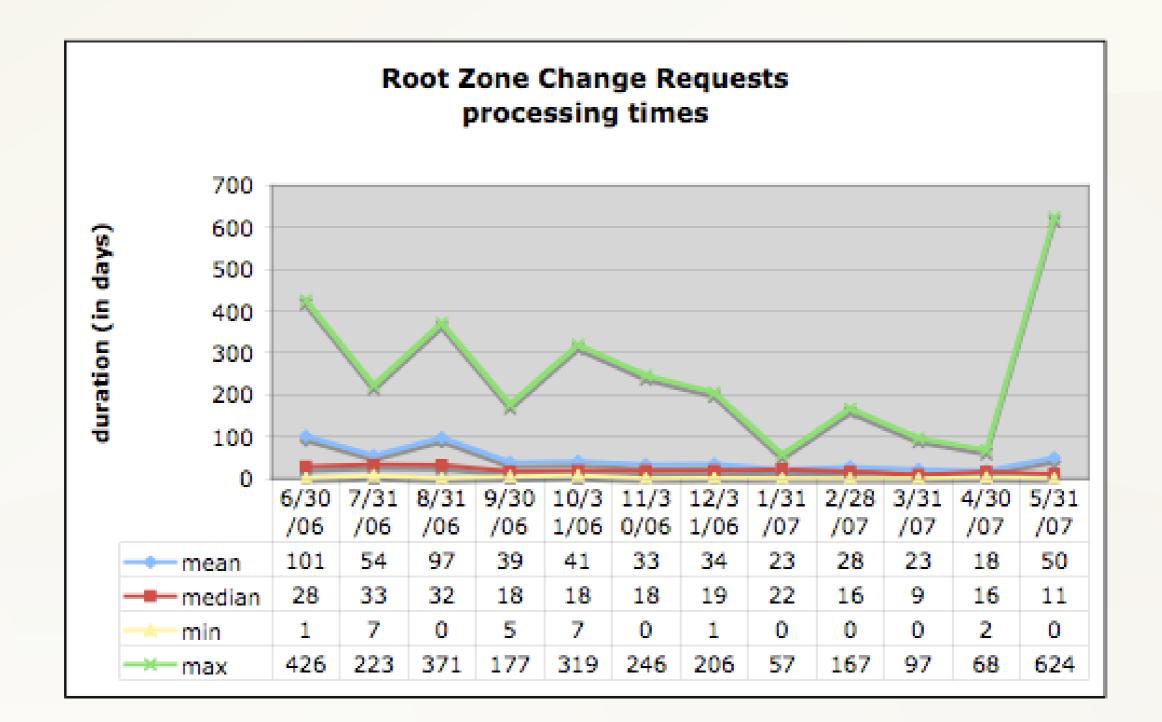


Request load.

- Slowly rising
- Opens (blue) and closures (red) roughly meet = steady state







Processing Times.

One ticket skews our beautiful trend



<h1>Writing <abbr>HTML</abbr></h1>





Internet Assigned Numbers Authority

The Internet Assigned Numbers Authority (IANA) is responsible for the global coordination of the DNS Root, IP addressing, and other Internet protocol resources. Learn more about what we do »

Domain Names

IANA manages the DNS Root Zone (assignments of ccTLDs and gTLDs), as well as the .int registry, and the .arpa zone.

- Root Zone Management
- .int Registry
- .arpa Registry
- IDN Practices Repository

Number Resources

IANA coordinates the global IP and AS number space, and allocates these to Regional Internet Registries.

- IP Addresses & AS Numbers
- Think we're attacking you?

Protocol Assignments

IANA is the central repository for protocol assignments registries, used in many Internet protocols.

- Protocol Registries
- Apply for an assignment

A new website.





Root Zone Database

The Root Zone Database represents the delegation details of top-level domains, including gTLDs such as ".COM", and country-code TLDs such as ".UK". As the manager of the DNS root zone, IANA is responsible for coordinating these delegations in accordance with its policies and procedures.

Much of this data is also available via the WHOIS protocol at whois.iana.org.

Domain	Type	Purpose / Sponsoring Organisation
.AC	country-code	Ascension Island Network Information Center (AC Domain Registry) c/o Cable and Wireless (Ascension Island)
.AD	country-code	Andorra STA Servei de Telecomunicacions d'Andorra
.AE	country-code	United Arab Emirates Emirates Telecommunications Corporation
.AERO	sponsored	Reserved for members of the air-transport industry Societe Internationale de Telecommunications Aeronautique S.C. (SITA SC)

Reorganised Root Zone Database



Some other notable things.

- List of major IANA projects.
- Clearer arrangement of ccTLD procedures and materials.
- ▶ All presentations we've given in last 18 months.
- ► IDN Repository improved.
- Information about what IANA is.
- A good foundation to grow the website into the future.



Available now.

beta.iana.org



Working out how the Internet is going to break.



IDNs in the root

- Plan to insert evaluative IDNs in the root as precursor to production launch
- What if the Internet breaks?
- Emergency revocation procedure for evaluative IDNs.
 - Threshold based or manual
 - Pull test delegations quickly, perform a post mortem
- Been open for public comment.
- Procedure before the Board on Friday for approval



Phone calls at weird times of the night.



Root Zone Automation

- We're ready to start public testing!
- Simon Raveh, our chief developer, is here to talk to you about it.
 - We will arrange some demonstrations to small groups over the next few days.



Where we are

- "Alpha" code complete
 - Does all tasks except name server changes (technical checking functionality still being finalised)
 - End-user interface is maturing
- Over next few months moving toward functional completeness
 - Will ask testers to run requests in parallel with system and our existing process
 - Will seek approvals for deployment



Request detail

Reference	Domain	Lodged	Created By	Current Status	Last Change
1111	int	25 Jun, 2007	kim-ac1	Pending manual Review	25 Jun, 2007

Modify Administrative Contact - Internet Assigned Numbers Authority

- 1. Add a Contact Job Title with value jobTitle
- Update Contact Address from 4676 Admiralty WaySuite 330Marina del Rey CaliforniaUnited States < br/>to 4676 Admiralty Way Suite 330 Marina del Rey California, 90292
- 3. Add a Contact Country with value US
- 4. Update Contact Role from false to true

Confirmations

Confirmations received

- ▼ Technical Contact Internet Assigned Numbers Authority
- Administrative Contact Internet Assigned Numbers Authority

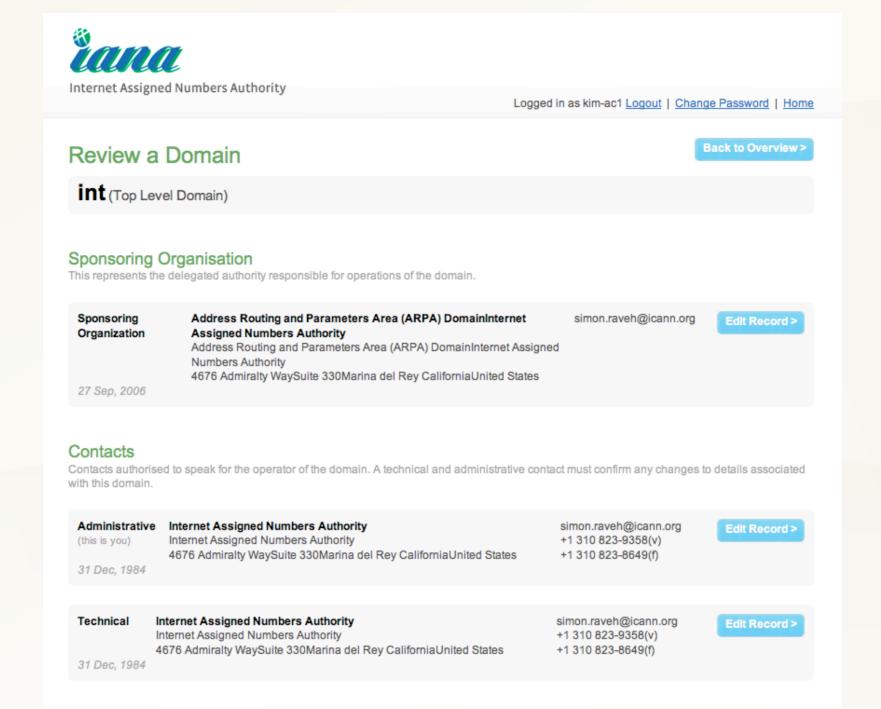
Request History

State	Start	End	Approve By
Pending Contact Confirmation	25 Jun, 2007	25 Jun, 2007	AC/TC

Status View

Provides new exposure to status of requests without needing to ask IANA





Workflow Automation

Lodge and view details online through responsive interface



Demonstrations

- We will be giving demos and explanations to smaller groups (based on demand)
 - Today at 1pm in Conference Room 8&9



Testing

- Accepting expressions of interest from testers.
 - Please provide me with your business card



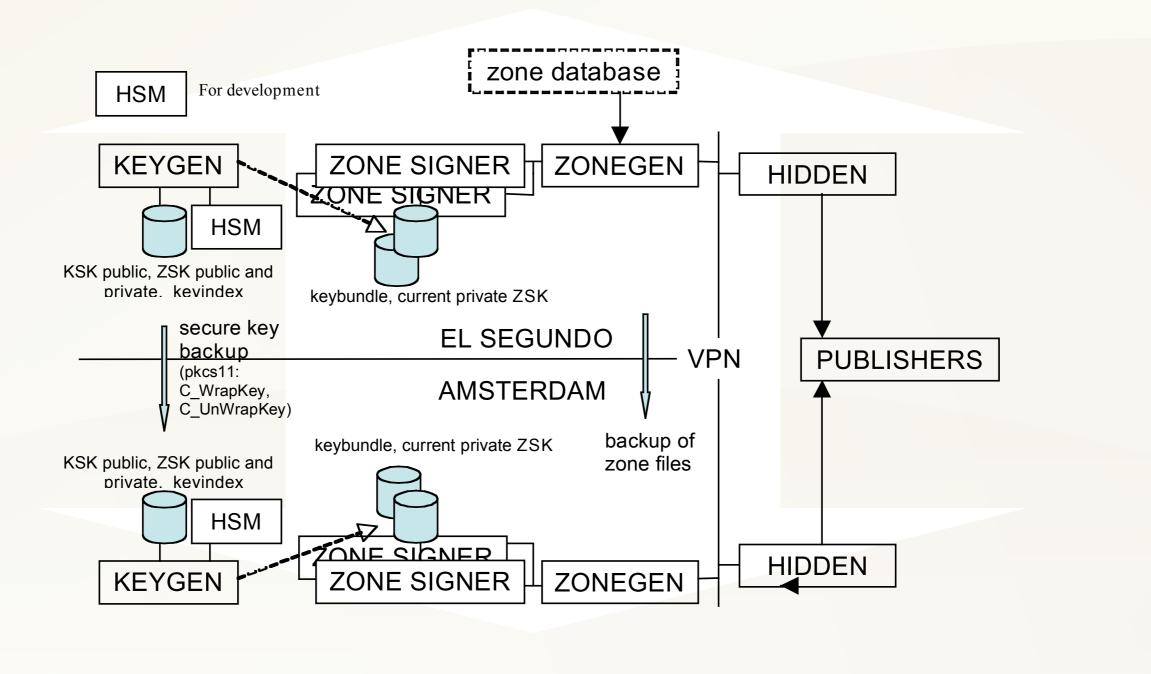
Generating more keys than a locksmith.



Is IANA going to do DNSSEC?







DNSSEC.



DNSSEC work at IANA

- Richard Lamb on staff this year working full time on systems development
- Internally signing IANA managed zones since March
- Software production ready for .ARPA by Chicago IETF (July)
- Deployment of signed .ARPA depends on implementation confirmed with various parties
 - Including shifting .ARPA zone to IANA (currently with VRSN)
 - Does .ARPA still stay with the root servers?



Some DNSSEC design decisions

- Model is based primarily on Swedish experience
 - Keys generated offline
 - Currently using smartcards for KSK; moving to HSMs
- We will share our procedures and experience publicly
 - Including custom code we have developed
- DNSSEC mechanisms will be in a dedicated cage in our colocation facilities



... but what about the *root*?

- IANA will wait for policy folks to tell us what to do.
- Until then, building our internal skill-set and systems with the other zones we control.





(DEMO) DNSSEC STATUS

Note: This data, including the signed zones, are purely for test purposes and are not to be used in any production capacity. We do not guarantee their availability, and they may not otherwise function from time-to-time.

ZONE (serial)	STATE / LAST UPDATED	PERIODS	EFFECTIVITY PERIODS (keyid)	TRUST ANCHORS				
				BEGIN Hash: SHA1	PGP S	SIGNED	MESSAGE	
<u>root</u> (2007062601	Ok 2007-JUN-26 18:27:32	(45622 KSK) 2007-JUN-26	2007-DEC-31 (45622 KSK) 2007-JAN-01 2008-DEC-31 (48076 KSK) 2007-JUN-01 2007-JUL-15	\$ORIGIN .			86400	DNSKEY 257 3 5 (AwEAAbqxqzQRnvkvj4refIMWXfFBfbvAlH5 xThDkIs0a36kayqz2LbJ0KgAs8EjgXxAg3W akfvsmw0ZA8KdBbgHow2lQ1Yk2mtdARYqh6 LuomiX2mOY2qOw2G/BVXnkOHfmGb9m+OOPn o2VSprkXb52KkE8U74W1HRv3eeLnsy/mtiw. jln70YDr9Ltk0pxgJW5cM3I+wy2LUY0jNxM uGvsiI4qpBSOtI4wmIkKxgH/BBYFwUgSTGA sKh9EtVVYInxmckF9qCb3VVqUG6njnLu3lq wlKMS6WogNGHqNQqTtNnnC/Zx3VhB29cDDR XAckAn9jTbH1+Lr6FIwWE7c=); key id = 45622 DNSKEY 257 3 5 (AwEAAdzmz/QYil3nLbhgeclfBjdYNyE8f7d QnL6Yj3VWVlfIUk2d/3yAk2J7zchOu7oOIv hsQZYj/gK/rZpTNPxu8sn7oWsaKvmQ/iXa2 /X7p0SopU2JBL8cCVoLD90x3Mh/+I8XOHnp npgAOiY2HVX/qxcbJ6qsP+cS/gS2jwvTODW QSK0zBRgdTn1G8kitKPqqboynB3KE03FTsI

Test zones

https://ns.iana.org/dnssec/status.html



Speaking in tongues.



IDN Repository Updates

- Improvements to the IDN Repository on the new website http://beta.iana.org/domains/idn-tables/
- First script registration last month (.CL Latin)
- We would like to invite you to submit your IDN tables
 - Just information sharing.
 - Language or script based.



Standing in front of the firing squads.



Service Level Targets

- Spoke with APTLD and CENTR about IANA service level agreements
- Discussed current process, and current service level obligations
- Noted problems we face (particularly third party reliance)
- Service Level Targets to be set by the community?
 - Consensual review?
- Happy to speak with other communities



Thank you for your attention!

(fire away)

Kim Davies kim.davies@icann.org

