Update on IANA

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Domain	Domain (A-label)	Language	Script
إختبار	XN--KGBECHTV	Arabic	Arabic
آزمایشی	XN--HGBK6AJ7F53BBA	Persian	Arabic
测试	XN--0ZWM56D	Chinese	Han (Simplified variant)
測試	XN--G6W251D	Chinese	Han (Traditional variant)
испытание	XN--80AKHBYKNJ4F	Russian	Cyrillic
परीक्षा	XN--11B5BS3A9AJ6G	Hindi	Devanagari (Nagari)
δοκιμή	XN--JXALPDLP	Greek, Modern (1453-)	Greek
테스트	XN--9T4B11YI5A	Korean	Hangul (Hangŭl, Hangeul)
טעסט	XN--DEBA0AD	Yiddish	Hebrew
テスト	XN--ZCKZAH	Japanese	Katakana
பரிட்சை	XN--HLCJ6AYA9ESC7A	Tamil	Tamil

IDNs in the DNS Root

‣ Added on 9 October 2007

‣ Applications deployed 15 October 2007 (see http://idn.icann.org/)

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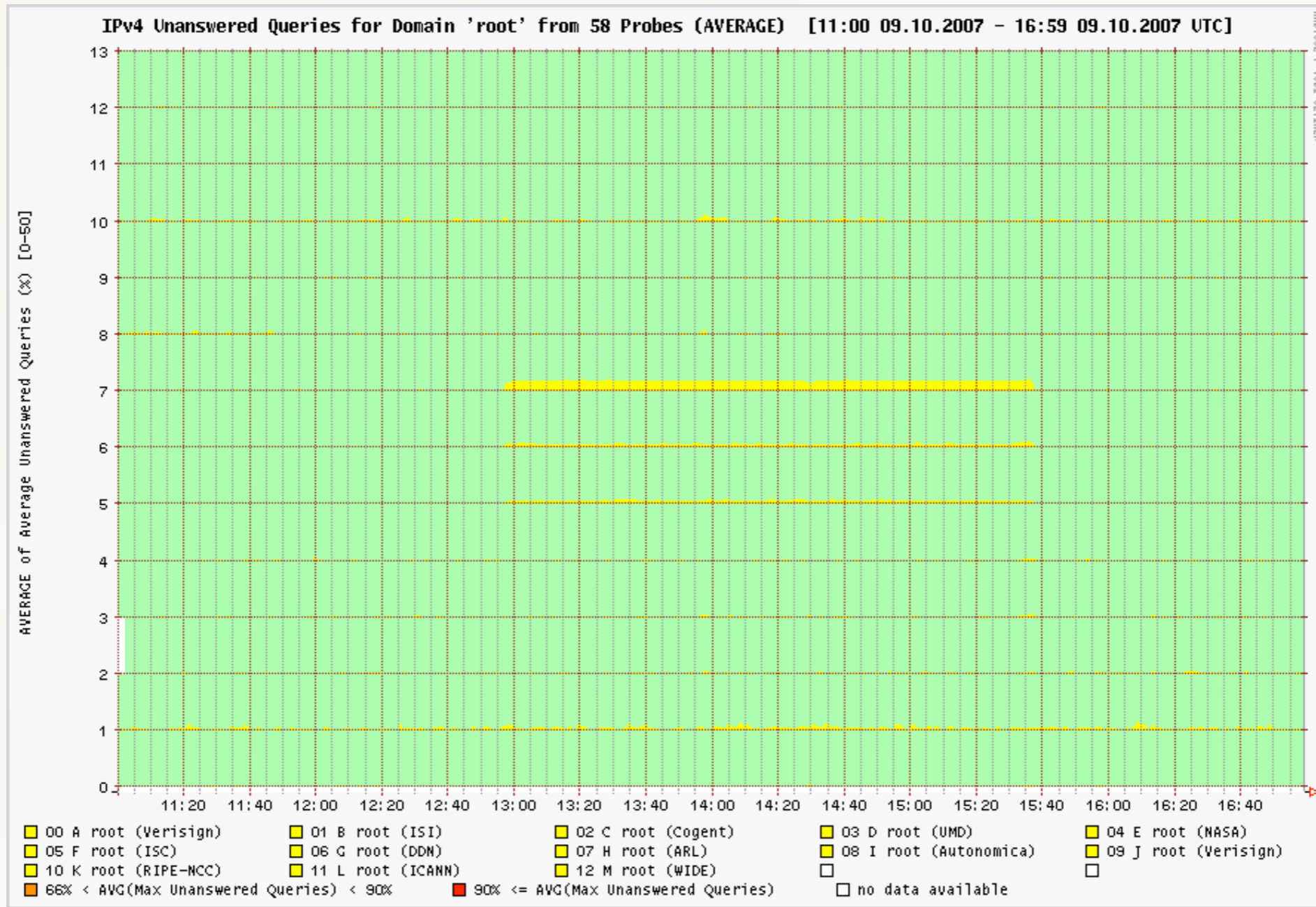
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IDNs in the DNS Root

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▸ No measurable performance impact

IDNs in the root zone

‣ Eleven new domains added, formally registered to IANA

‣ Will be used to test various aspects, withdrawn as production TLDs are introduced (no later than 2010)

‣ IANA is dealing with its own teething problems (upgrading our workflows, all the fun stuff.)

   ‣ Developed a new IANA Code system

   ‣ Suggestion on WHOIS best practice welcome

   ‣ Would like to develop an IDN renderer

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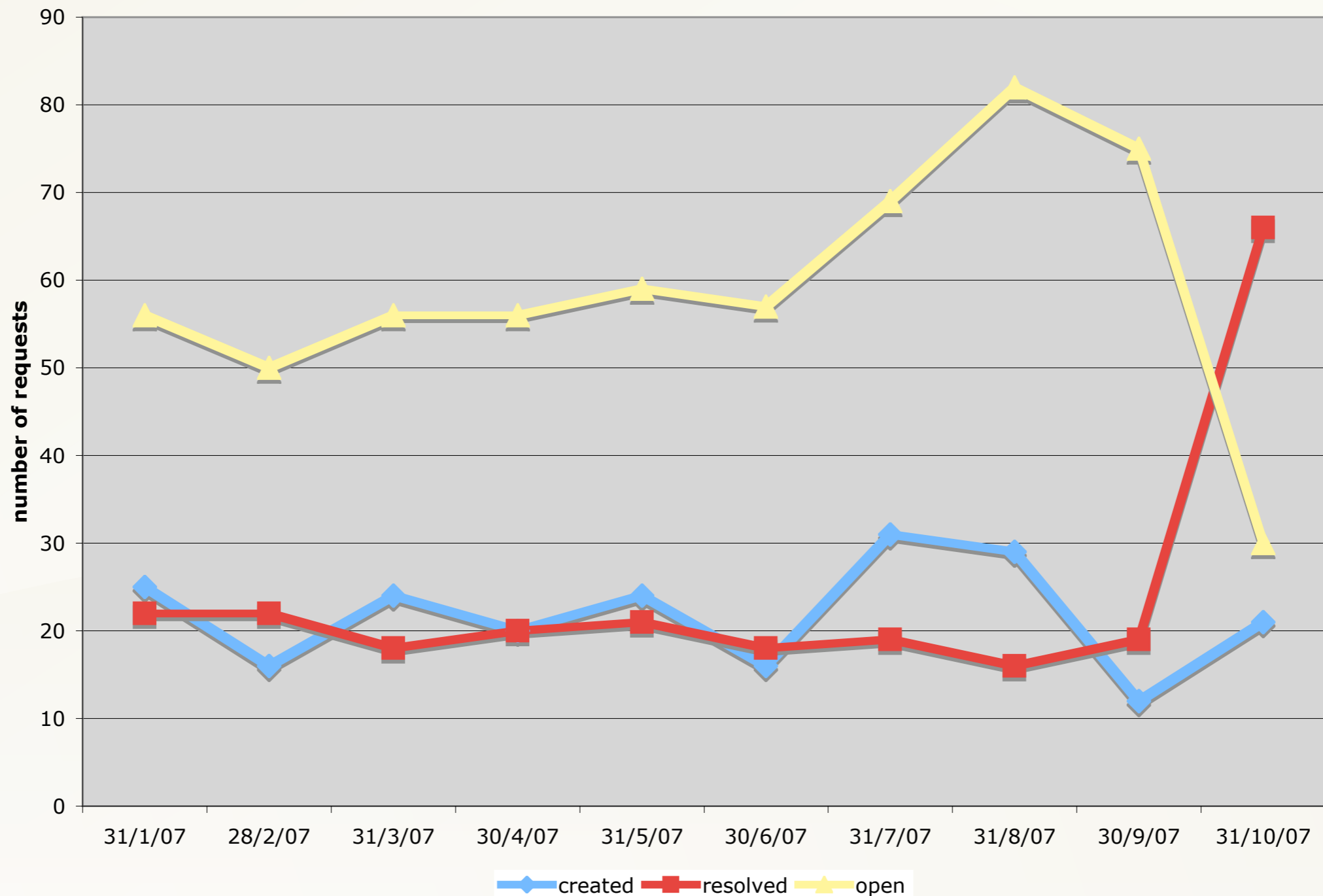
Processing trends

‣ Strong variance (lumpiness) caused by 11 delegations of IDNs, shared glue change, other redels

Longer term trends

‣ Routine requests done faster

‣ Remaining tickets on average taking longer

  ‣ Redelegations etc. take more due diligence, often more contentious. Building number due to outreach efforts.

‣ We will study underlying causes and report back

‣ Propose splitting reporting into "regular" and "irregular"/"exceptional"

  ‣ Need to define the latter — redels and third-party impacting?

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Service Level Targets

▸ Practically, IANA seems to be performing well

▸ Formal set of targets already enshrined in USDOC Contract

▸ Discussions with various communities (CENTR, APTLD, ICANN) a few months ago

▸ Will aim to create a "straw man" set of proposals for the communities to review

Automation Work

▸ Merged two development tracks into one

  ▸ Now includes EPP to VeriSign, RT integration, support for all types of root change requests

▸ Focus group testing commencing (Stage 1)

  ▸ Trying to work out confusion issues

▸ Once all significant bugs are addressed with open to all

▸ Aim to then run completely in parallel with current process for a number of months before completing project

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Credential issue

▸ Username/password (Phase 1); PGP/RSA keys (Phase 2)

▸ Credential distribution

   ▸ Issuing credentials to the right persons

   ▸ Revoking credentials (lost, staff move etc.)

   ▸ When to allow requests without credentials

   ▸ Credentials don't necessarily match contacts?

      ▸ One username per contact?

IANA signs the root zone

▸ IANA has been signing the root zone for a while now

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

▸ ... however, it is not the version VeriSign publishes

▸ Getting signed data in the root servers is a "Layer 9 issue"

  ▸ Politics need to be solved

▸ Key point: IANA should not be on the critical path for DNSSEC deployment. We intend to be production ready.

Finally…

‣ IANA has something cool to hand out

‣ Also check out the ISI poster next to the main ballroom

L-root renumbering

‣ l.root-servers.net operated by ICANN (not IANA)

‣ Renumbering on 1st November 2007

‣ Move to Anycast (Los Angeles, Miami - initially)

   ‣ more global nodes

   ‣ easily deployable local nodes

‣ 198.32.64.12 → 199.7.83.42

‣ Hints files need to be (ultimately) updated

Thank you for your attention!

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