

# Interim Trust Anchor Repository — Update

Lisbon, Portugal  
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Internet Corporation for  
Assigned Names & Numbers

# Interim Trust Anchor Repository

- ▶ Commenced limited testing at RIPE meeting in Dubai
- ▶ Launched to public in January 2009 at [itar.iana.org](http://itar.iana.org)
- ▶ Open to any TLD operator to submit their trust anchors
- ▶ Simple transaction model
  - ▶ Submit via website
  - ▶ Admin and Tech contact for domain must approve
  - ▶ Won't list until matching DNSKEY appears in the zone

# Stats to date

- ▶ 61 change requests submitted
  - ▶ 42 trust anchors approved and listed
  - ▶ 12 rejected by domain contacts
  - ▶ 7 approved by domain contacts, but a matching DNSKEY never appeared in the DNS
- ▶ Approximately 10,000 downloads per month

# Observations

- ▶ Administrative and Technical contacts must approve changes, but clearly some do not check what they are approving.
  - ▶ Have approved invalid trust anchors
  - ▶ My guess is they know a request is coming, and just blindly click to approve
- ▶ Useful to gather real-world experience with TLD managers to help instruct how we handle DS for the root zone proper.

# Future work

- ▶ More pro-active notifications of events of interest
  - ▶ “Psst.. your key is about to expire and you haven’t listed a replacement yet.”
  - ▶ “Psst.. you seem to have entered the wrong algorithm code, because everything else checks out. Want to change it?”
- ▶ Discussion on IETF dnsop list about recommending a refresh period
- ▶ Killing it with fire
  - ▶ Once root signing is in the rear-view mirror, investigate decommissioning.

# Fair warning

- ▶ We are working on DS record handling procedure for a signed root zone.
- ▶ As this is predicated on the current process for root zone changes, we can't just directly transplant the ITAR model.
- ▶ Example:
  - ▶ ITAR: one transaction to list a TA, which includes an expiry date
  - ▶ Root zone: adding and removing DS records are two discrete acts that are done independently
- ▶ We'll be proposing procedures on this early next year.

Thanks!