

IANA update

APTLD meeting, Honiara, SB

14 August 07

Save Vocea

on behalf of IANA

What is IANA?

- “Internet Assigned Names Authority” is responsible for global Internet unique identifier systems
- One of the oldest Internet institutions, role dates back to 1970
- Operated by ICANN since 1998
- Today “IANA” may refer to either the functions or the department within ICANN that runs the IANA functions

IANA functions

- Resource management
 - IPv4, IPv6 and ASN Registries (in cooperation with the RIRs)
 - Protocol parameter registries (in cooperation with IETF/IESG/IAB)
 - Internet Drafts and RFC standards process
 - Identifier registry creation and maintenance
 - Ports and Personal Enterprise Numbers (PENs) assignments

Functions cont'd

- Maintain .ARPA and .INT domain registrations and registries
- Root zone management
 - Maintain Top Level Domain registration and zone delegation information
 - Validate and process TLD change requests
 - Verify minimal proper DNS server requirements
 - Maintain public “Whois” and internal delegation process/procedure information for TLDs



IANA structure

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IETF Liaison

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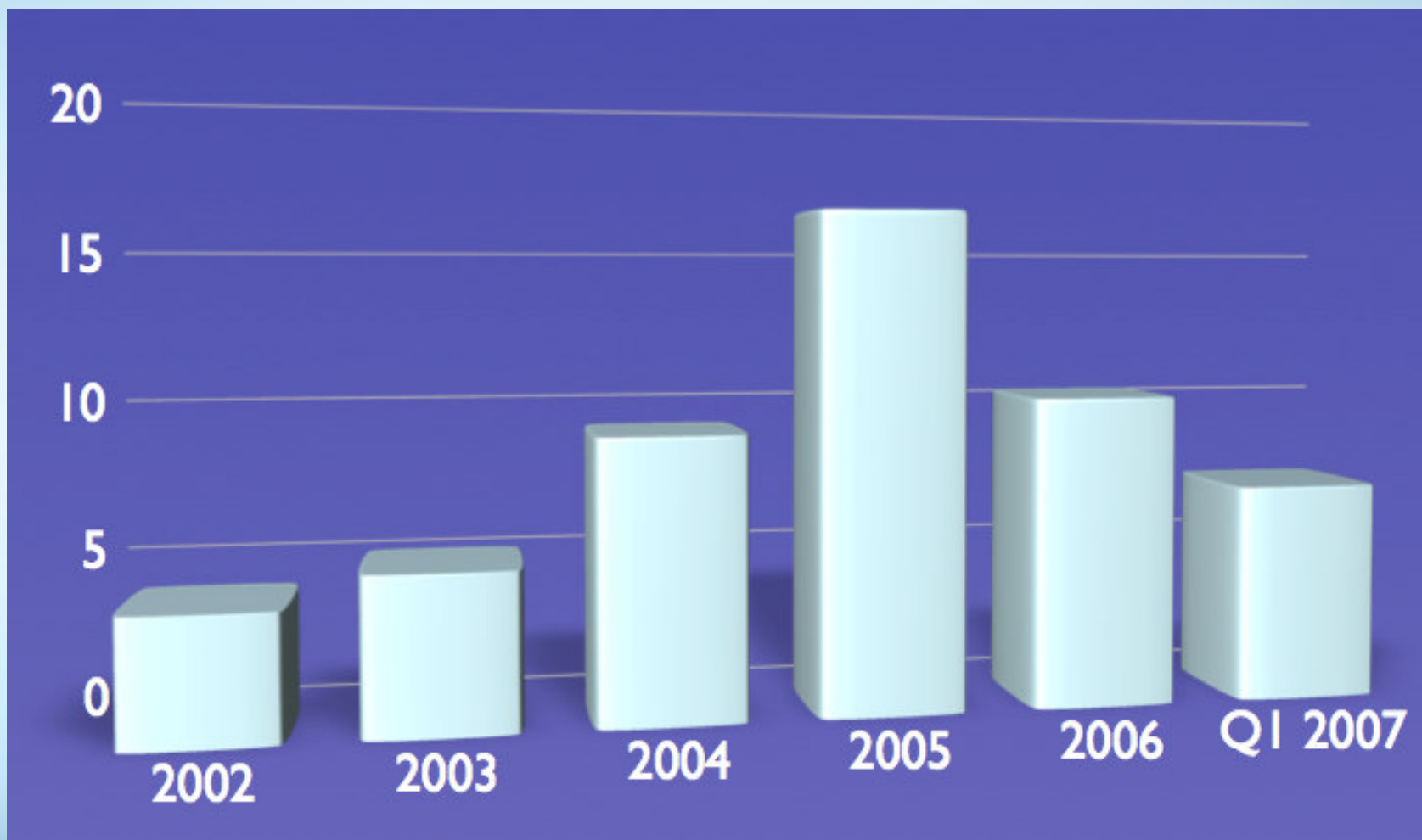
Amanda Baber
IANA Project Assistant

**Various
Contractors**

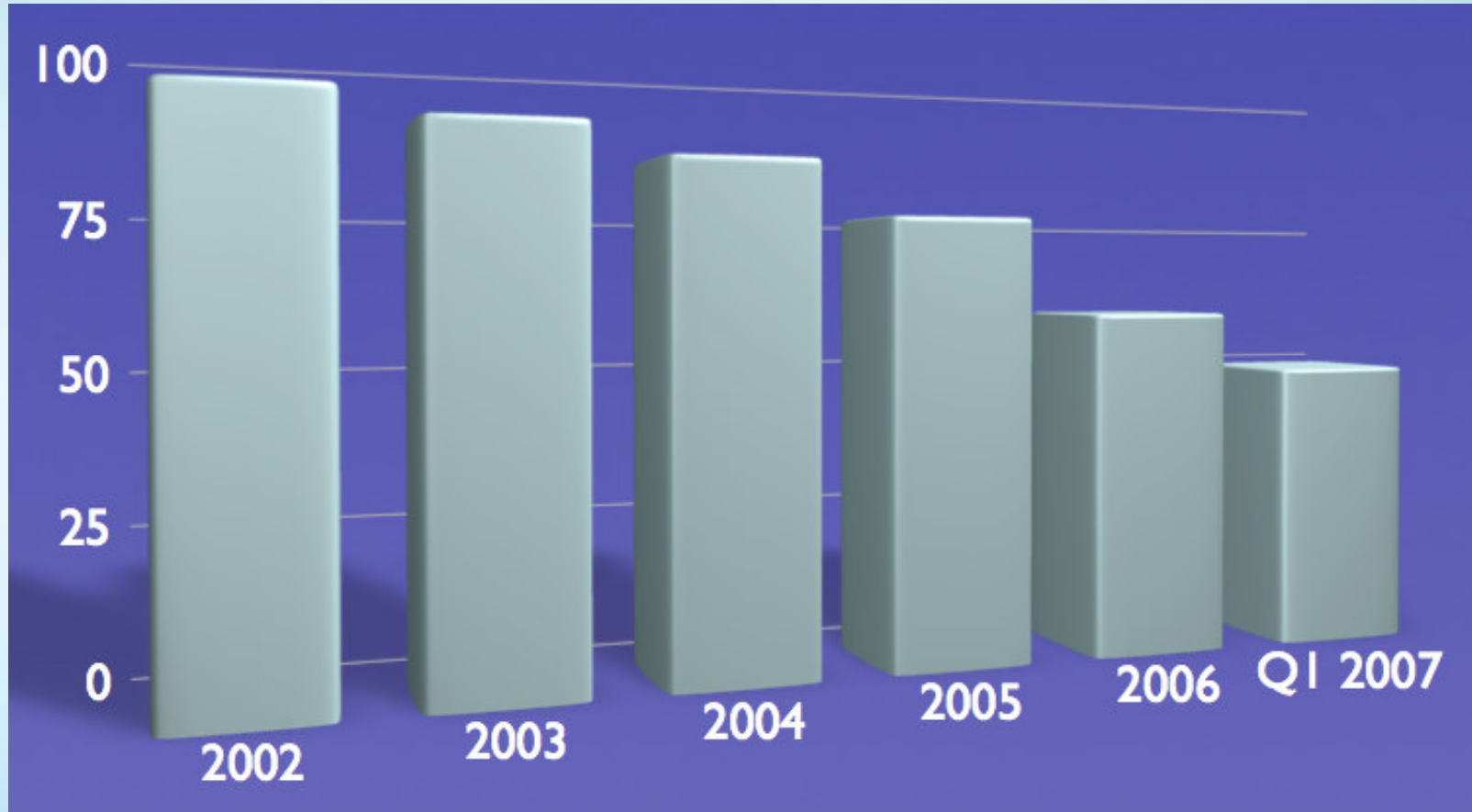
Current projects

- Registries
 - IPv4 Address Allocation Registry Data Review
 - RFC inventory - check all registries have been created
 - Converting all registries to an XML data structure
 - Whois service for IP address registries
- Administrative
 - Documentation Management
 - IANA web redesign
 - Automated Report Generation
- IANA Process Improvements
 - Reverse Delegation for in-addr.arpa and ip6.arpa
 - DNSSEC for all IANA managed zones
 - DNS checking tool
 - “eIANA” self-service for ccTLDs
 - PEN allocation automation

Growing demand for IPv4



IPv4 free pool - shrinking



Near-term future activities

- Signing .ARPA
 - Talking with IAB about how to move forward
- IANA Process Automation
 - DNSSEC
 - Port allocation
- “Customer Satisfaction Survey”

On the horizon activities

- “IANA Certificate Authority”
- Improved authentication mechanisms
- Root Zone Management via EPP
- Registry availability programmatically via...
 - BEEP? XML-RPC? SOAP?
 - What is useful to network operators?
- IANA Infrastructure improvements

e-IANA

- An automated management of TLD IANA database
 - To enable the provision of an efficient, non-discriminatory service, and to decentralize the IANA function for the benefit of the whole community. To enhance stability of technical Internet operations, reduce US Government political involvement whilst maintaining operational oversight of the Root Server system.

e-IANA

- Currently in test mode
- Sufficient testing volunteers identified

Ref:

- Requirements for Automated Management of TLD IANA database Version 1.11 DRAFT
- www.iana.org
- iana@iana.org

The IANA-ccTLD relationship

- ccTLDs are responsible for setting policy and operating domains according to their local community's needs
- IANA needs accurate details on who is running the ccTLD
 - Technical details - ensure correct and robust operation of the DNS
 - Social details - ensure IANA knows who to verify changes with, and for public policy reasons

Therefore:

- ccTLD Operators should ensure IANA has the correct details for your ccTLDs
- You should provide timely updates to IANA to ensure IANA records are current
- Take a moment to review your ccTLDs entry at whois.iana.org and check your details

What you should do

- Operate your ccTLD in the public interest
- Ensure IANA's details are correct:
 - If they are wrong, start a discussion with IANA/ICANN on how best to remedy the deficiencies.
 - Simple changes: regular change request approved by contacts
 - More complex: administrative redelegation or a redelegation
 - If there is an anticipated change of management in your country, IANA and ICANN can advise on our requirements
- Maintain minimum technical standards
 - Bad configurations can hurt the root (i.e. the whole Internet, not just in your country)



Thank you for your attention!

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