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IDNs, EPP for ENUM and Registry Monitoring in NASK

CENTR Tech. Workshop
January 2004, Amsterdam

IDNs

- August the 11th, 2003: NASK's IETF draft
- **September the 11th, 2003: (Polish script) .pl**
- September the 18th, 2003: (Polish script) .com.pl / .net.pl
- October the 6th, 2003: +German umlauts
- October the 20th, 2003: +Latin
- November the 3rd, 2003: +Hebrew, Arabic, Greek

IETF Internet Drafts

- **NASK's policy: to publish all the NASK's internal protocols & standards as the IETF Internet Drafts (i.e. IDNs, EPP for .PL, EPP for +48ENUM)**
- The IDN registration rules are also available as I-D.
- Technical part of Registry-Registrar agreement refers to the IETF documents including the NASK's drafts, as the best source of the up-to-date information.

Up-to-date:

draft-bartosiewicz-idn-pltld-04
(Latin+Hebrew+Greek+Arabic)

Obsolete:

- 1st: draft-bartosiewicz-idn-pltld-01 (Polish characters only)
- 2nd: draft-bartosiewicz-idn-pltld-02 (Polish+German)
- 3rd: draft-bartosiewicz-idn-pltld-03 (Latin 1 Supplement & Extended A)

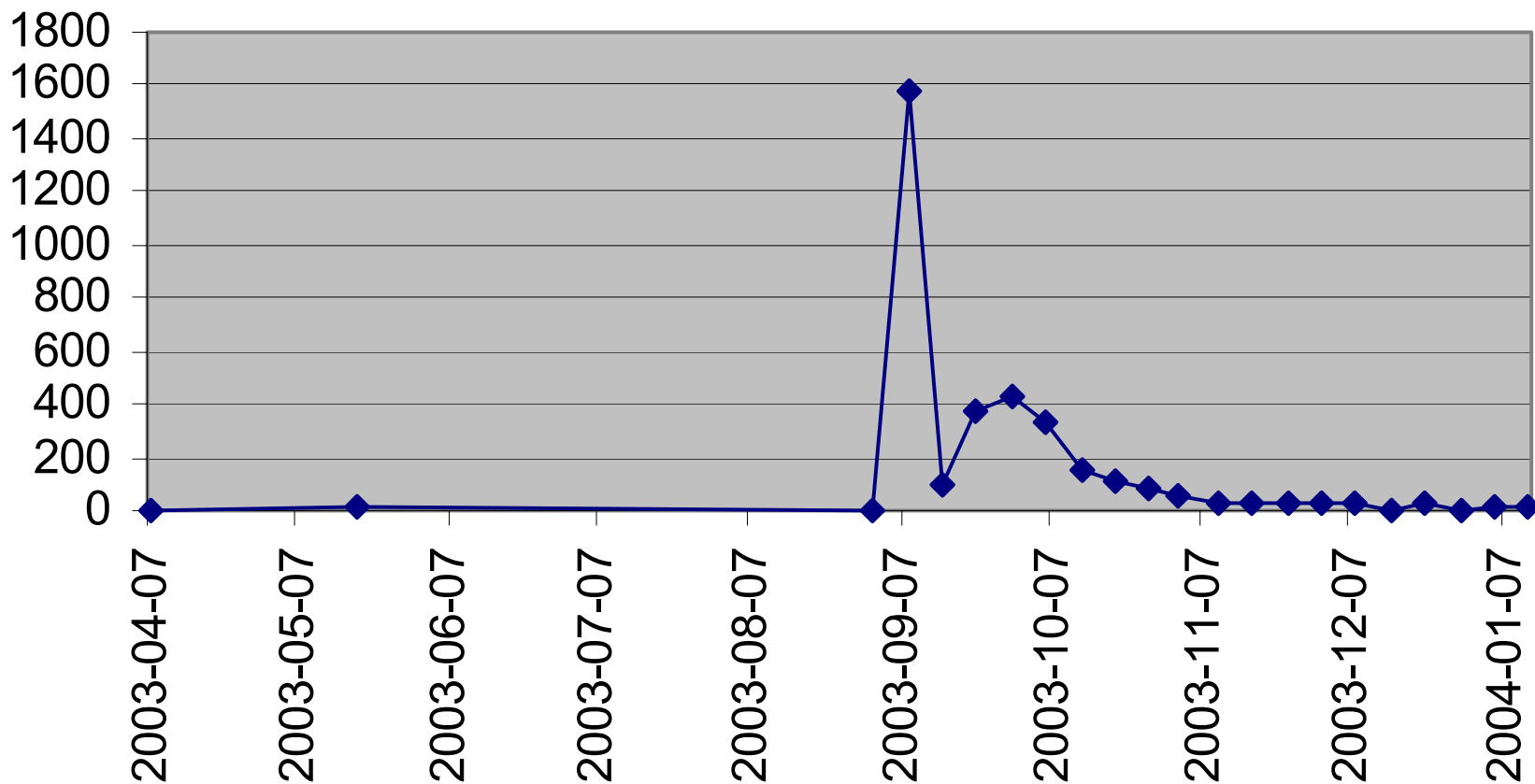
- First Come, First Served method
- Big Bang, no sunrise period
- ACE version only (consistent with RFC 3490 & draft-bartosiewicz-idn-pltld-04) for input, output, processing
- “xn” is the only accepted prefix for ACE domain names
- No special rules for ACE domain names

- No variants, no bundling
- No association with languages (no “language tags”)
- The object of the contract is the ACE form of the domain name

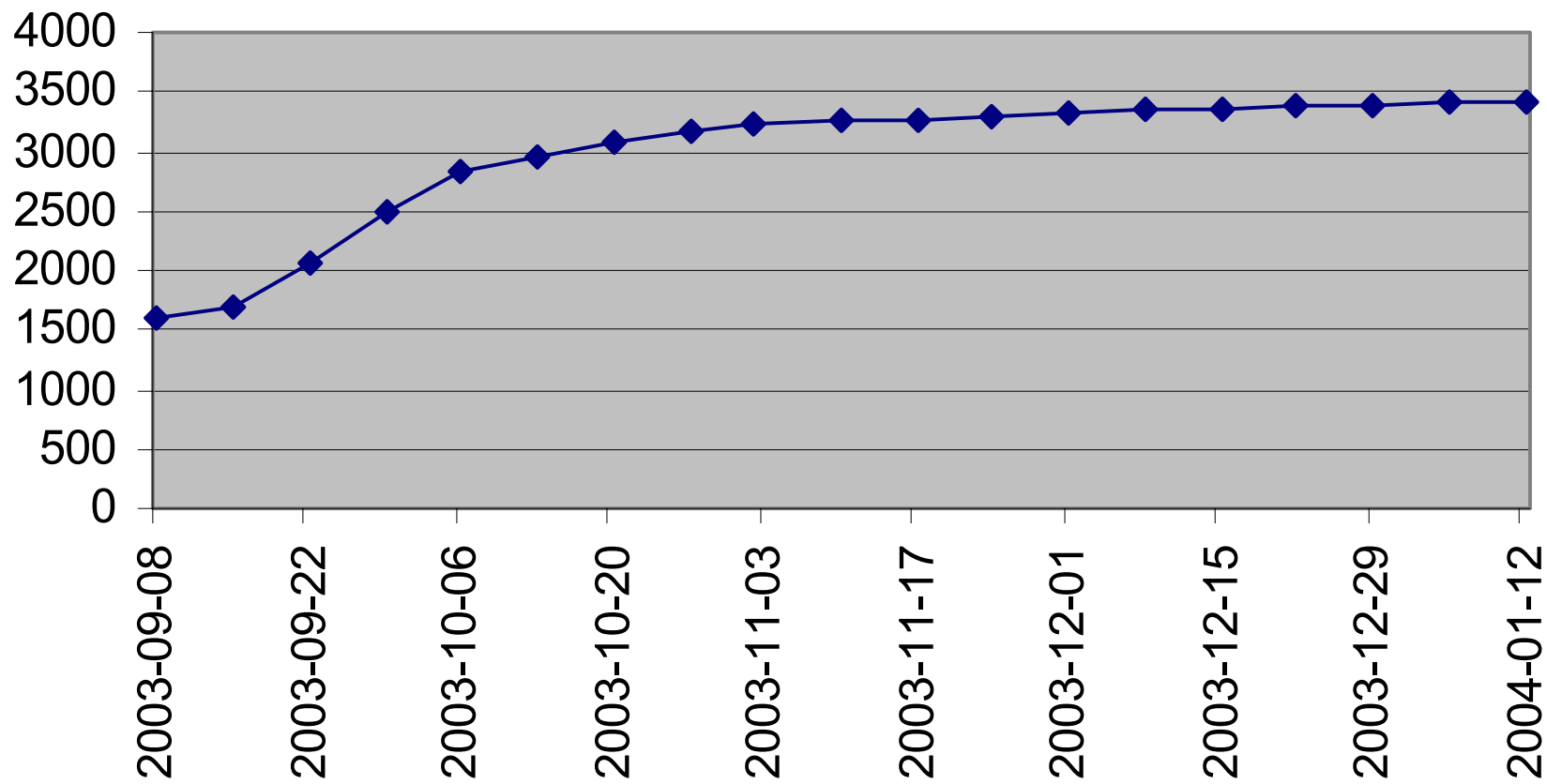
The registration of domains with hypens on 3rd and 4th positions and other than ‘xn’ prefix remains prohibited.

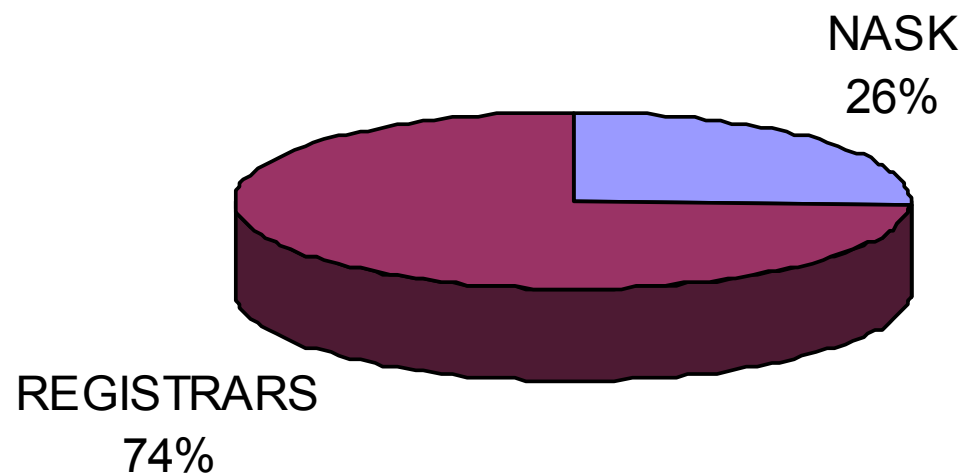
- Maximum length of domain name: 63
- Minimum length on domain name: 1
- Max & min length refers to ACE version

New registrations, Weekly



New registrations, growing, weekly





more...

www.idn.pl

EPP for ENUM

- NASK is the admin & tech contact for 8.4.e164.arpa
- R&D unit
- State organization
- NASK follows the guidelines raised by the Office of Telecommunications and Post Regulation.

- It's the first attempt,
- Present registration policy is based on the administrative decisions:
 - Experience with “traditional” domain names (.PL)
 - Several implementations of Registrar software available
 - Guidelines from Office of Telecommunications and Post Regulation.

- No direct registrations.
- Registration via the Telecom Operators (officially approved by the Regulator) ONLY (REGISTRAR = OPERATOR)
- Registrar (Operator) MUST NOT register the numbers administered by the other Operators
- NASK DOES NOT verify the rights to the particular telephone number

ADMIN decisions cont.

- Transfer only if ported, but NASK does not verify whether the number is ported or not
- NASK delegates **ONLY** the ENUM domain names to Operators' NSs

EPP adaptation for ENUM

<http://www.ietf.org/internet-drafts/draft-bartosiewicz-enum-48tld-00.txt>

Internet Draft
draft-bartosiewicz-enum-48tld-00.txt
October 17, 2003
Expires in six months
Intended status: Informational

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EPP parameters for 8.4.e164.arpa Registry

EPP Modified Elements

- A transfer of a domain or a contact does not require a confirmation of sponsoring client of that object.
- Options of the <domain:transfer> and <contact:transfer> commands other than request are not supported.

EPP Modified Elements

- It is possible to delete a host using the <host:delete> command, even if there are domains delegated to that host, on the condition that the host is not configured for any domain which is delegated to this host. A side effect of a removal of a host is removal of all delegations to that host.

EPP Modified Elements

- A change of a host's name is forbidden.
- A providing of the <host:chg> element in the <host:update> element causes failure of the <host:update> command.

EPP Modified Elements

- The <domain:info> command returns full set of information only for sponsoring client of a domain and client which provided a correct authorization information in the <domain:authInfo> element.
- In other cases command fails.

EPP Modified Elements

- The <contact:info> command returns full set of information only to sponsoring client of a domain and to client who provided a correct authorization information of domain in the <contact:authInfo> element.
- Furthermore, if contact represents a private person who consents to publish his/her personal details (consentForPublishing=1) then information is returned to the others clients. In other cases command fails

more...

www.dns.pl/ENUM

Monitoring

- a need for DNS monitoring
- confined possibilities
- subjects under supervision
- instant log delivery
- zone signing
- future plans

- complex zone file testing
- syntax check
- content analysis
- track of changes to a zone file
 - SOA parameters
 - delegations
- crucial domain list

- perl daemon
- variety of custom tests
 - EPP supervision
 - Whols supervision
 - System's logs analysis
- SMS and e-mail notification
- self testing
- configured within a XML file

- checking if zone files on secondaries are up to date
- extraction of a list of all zone's name servers and querying them for SOA record
- serial number verification against the one on the primary server

- primary name server logs
 - named
 - reload
- immediate delivery of crucial logs to administrators (SMS notification)

Zones and logs signing

- free of charge service offered by SigNet.pl
- a time stamp guarantees the signed file had existed before was signed and since then has not been altered
- OpenTsa
 - a request to a certification centre
 - signing the request in the centre
 - checking the response status
 - local verification of the signature
- only the MD-5 digest is signed not the whole file
- zone files and EPP logs

- further development of the Sentinel
 - web access
 - one-click disaster recovery
- full control over all the secondaries
 - the only way to ensure a high QoS
 - zone files protection against unauthorised access

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