

IDNs and Registry Monitoring in NASK

**DNS/DNR Forum
RIPE47**

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)

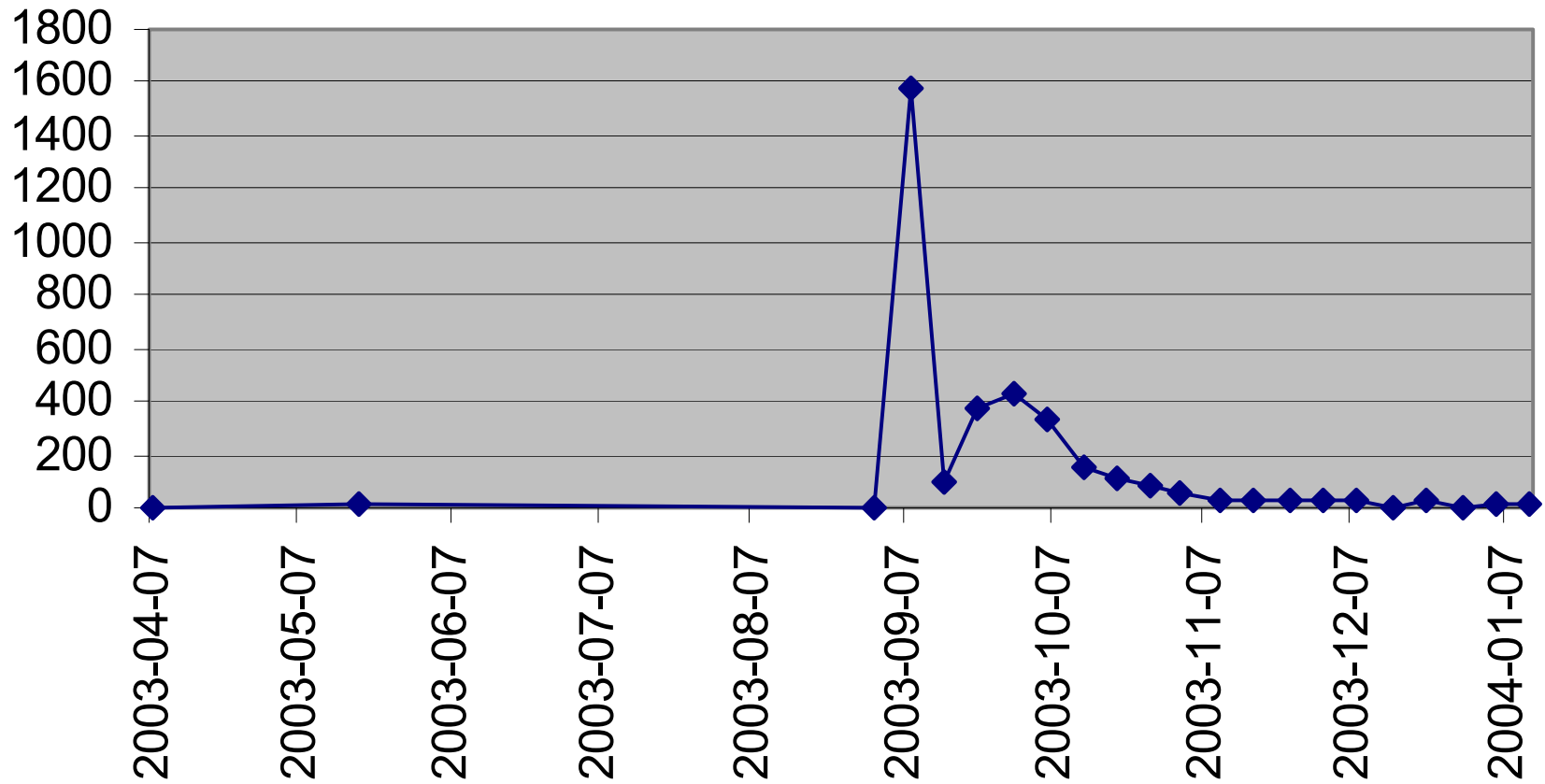
- First Come, First Served method
- Big Bang, no sunrise period
- ACE version only (consistent with RFC 3490 & draft-bartosiewicz-idn-pltld-04) for input, output, processing
- “xn” is the only accepted prefix for ACE domain names
- No special rules for ACE domain names

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

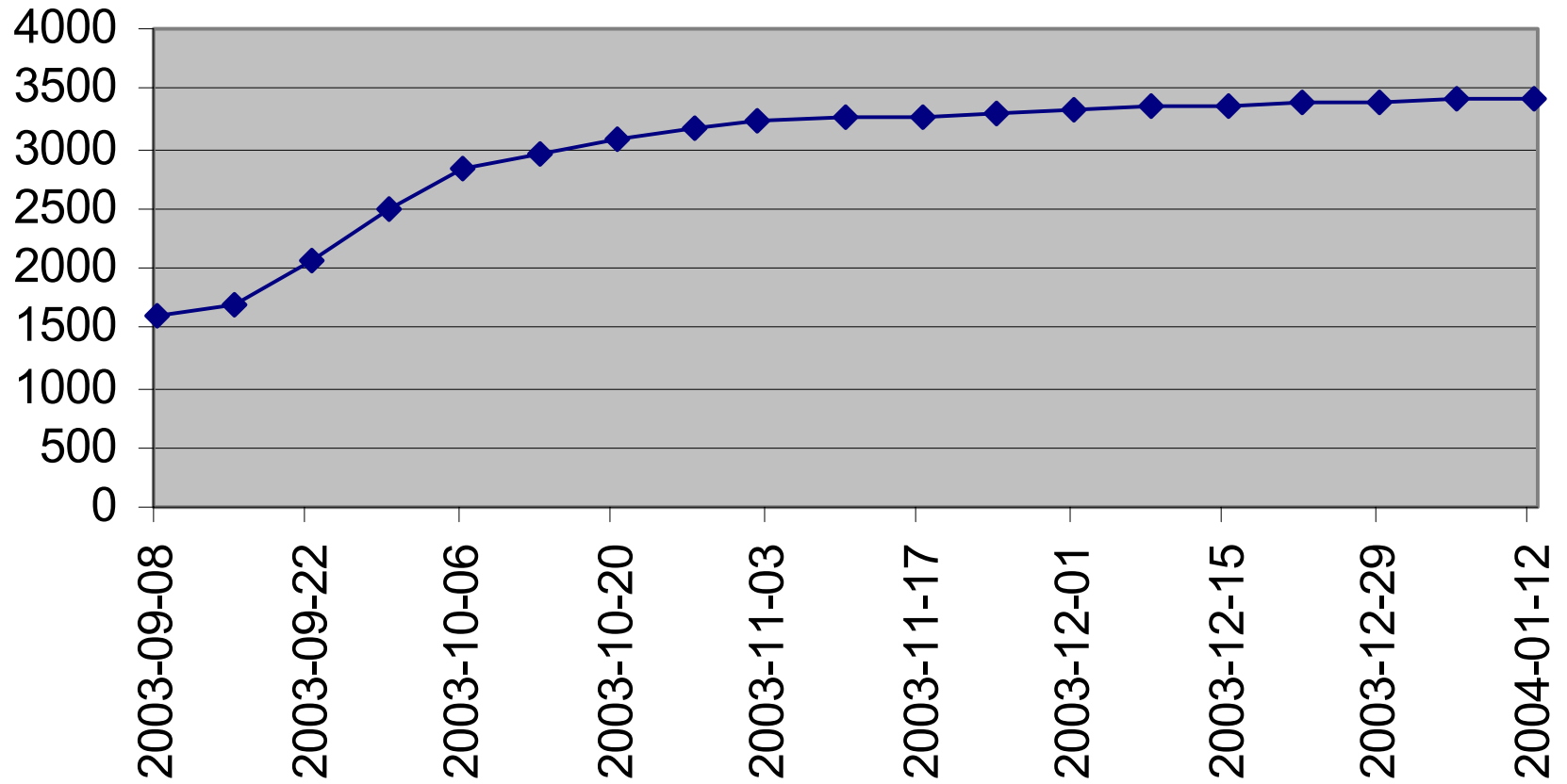
The registration of domains with hypens on 3rd and 4th positions and other than ‘xn’ prefix remains prohibited.

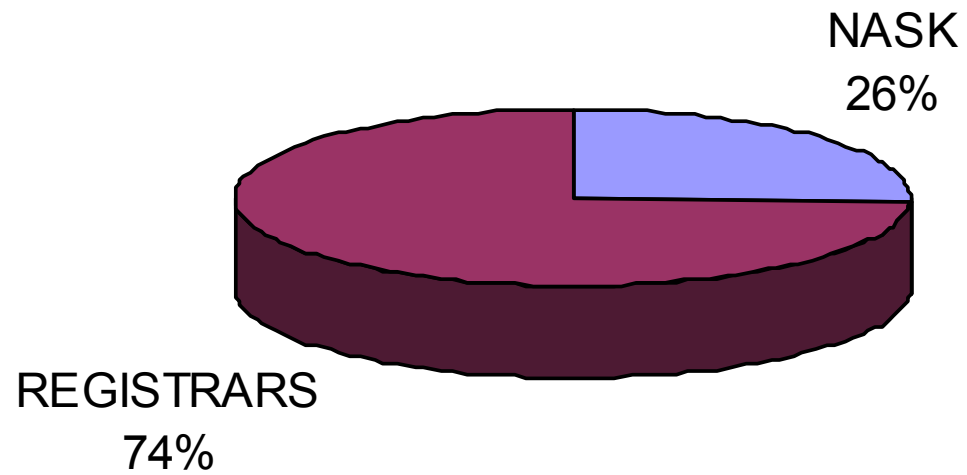
- Maximum length of domain name: 63
- Minimum length on domain name: 1
- Max & min length refers to ACE version

New registrations, Weekly



New registrations, growing, weekly





more...

www.idn.pl

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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