ICANN IDN variant project

Educational session on existing variant practices

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Dr. Andrzej Bartosiewicz, CEO of Yonita Inc.

- Ph.D. in Informatics, Warsaw University of Technology
- Career in Domain Names related business:
 - Director and Chairman of CENTR (2006-2010)
 - Rapporteur and Chairman of ITU-T in the field of "Internationalized Domain Names" (2005-2008)
 - Head of .PL Registry (2001-2010)
- Ongoing Senior Advisor to the International Telecommunication Union
- Over 200 presentations and publications



Experience with variants

- Based on my submission* of the IETF Internet Drafts† and ICANN "IDN tables"‡, .PL Registry has introduced (2003-2005) registration of the domains in the Latin character set based on the language tables
- No variants management techniques have been implemented so far.
- No techniques on language sets mixing within Latin script has been introduced.
- Identical approach has been taken successfully by other European ccTLDs.

*) WITH CO-AUTHOR
†) IETF INTERNET DRAFT (EXPIRED):
HTTP://TOOLS.IETF.ORG/HTML/DRAFT-BARTOSIEWICZ-IDN-PLTLD-08
‡) IDN TABLES REPOSITORY (IDN TABLES USED IN REGISTRIES):
HTTP://WWW.IANA.ORG/DOMAINS/IDN-TABLES/



Experience with variants (2)

Language covered in 2003-2004 deployment:
 Catalan, Czech, Danish, German, Esperanto, Spanish,
 Estonian, Finnish, French, Irish, Croatian, Hungarian,
 Icelandic, Italian, Luxembourgish, Lithuanian, Latvian,
 Moldavian (Romanian script), Maltese, Dutch,
 Norwegian, Polish, Portuguese, Romanian, Slovak,
 Slovenian, Albanian, Swedish and Turkish.



Question

- Are the variant issues at the root level (1st) and the 2nd level similar?
- If yes, why not to focus on existing experience of ccTLDs and gTLDs?



Feedback since 2003

- The policy has been widely presented by Bartosiewicz during ICANN, CENTR, IETF and other meetings.
- Since the deployment of the whole Latin character set, no complains (until March 2010) regarding variants or look-alike domains has been reported neither from community nor from other cc/gTLDs.
- Many of other ccTLDs has adopted similar policies.



Problems

 The only problems reported were related to the script mixing between Latin and other scripts (Latin & Cyrillic's and Latin & Greek) → look alike domains issue.

Solution:

- script mixing blocked +
- no registration of look-alike Cyrillic domains to the already registered Latin variants (should apply to Greek too)



Suggestion: Next steps for IDN Variant Project

- Based on the existing experience of cc/gTLDs with IDN deployment at 2nd level, it's recommended to base strategy of Latin group further work on the existing, <u>already identified</u> problems with variants and homographs etc.
- List of issues should be identified, discussed and conclusions reached based on the real-life examples, not the theoretical one.



Confusable variants to be subject for analysis

- It's always a difficult decision what should be treated as variant and what shouldn't. Common sense should always prevail.
- Some variants are confusable (look-alike domains or visually confusing), some not (or confusable in very specific situations):
 - Confusable: U+0443 y "Cyrillic Small Letter U" and U+0079
 y "Latin Small Letter Y"
 - Semi-confusable: U+00E6 æ "Latin Small Letter Æ" and combination of "ae"



Results

- Complete list of characters or combination of characters (pairs) that can be treated as real confusable variants should be created and publicized
- Such list should be taken into consideration when new TLDs are being assigned.
- Rules for new TLDs should apply to the domain name (as stated in the application) as well as all reasonable variants of the name in the particular context, only if variants can create confusion.



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