Internationalized Domain Names



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Agenda

- Are we there yet?
- Other top IDN question from end-users
- IDN TLD wiki (".test")
- Protocol revision status
- Processes within ICANN
 - IANA, IDN ccTLDs and gTLDs
- IDN Guidelines
 - From ICANN and very importantly local developments



Are we there yet?

- IDNs have existed as SLD since 2003
 - under protocol standards
- The community also needs IDN TLDs
 - 北京大学.中国
 - [xn--1lQ90lc7FzpC.xn--fiQs8S]
- Technical and Policy work under way to provide the fully localized solution
 - Technical standard under revision
 - New allocation processes underway
 - existing processes does not work for IDNs



If I have registered [idn.tld] then will I also be the registrant of [idn.idn-tld]?

- Policy considerations
 - related to IP rights vs. competition options
 - difficult to do meaningful translation of existing strings
- GNSO Policy:
 - No precedence for existing registries
 - Objection rights exists for confusingly similarity
- ccTLD operators and GAC are considering needs for IDN ccTLD aliasing solution
- If requested then technical solution is needed



Status of the .test wiki

Script	Language	SLD.TLD U-labels	SLD A-label	TLD A-label
Arabic	Arabic	مثال إختبار	xnmgbh0fb	xnkgbechtv
Arabic	Persian	مثال آزمایشی	xnmgbh0fb	xnhgbk6aj7f53bba
Chinese, simplified	Chinese	例子.测试	xnfsqu00a	xn0zwm56d
Chinese, traditional	Chinese	例子.測試	xnfsqu00a	xng6w251d
Cyrillic	Russian	пример.испытание	xne1afmkfd	xn80akhbyknj4f
Devanagari	Hindi	उदाहरण.परीक्षा	xnp1b6ci4b4b3a	xn11b5bs3a9aj6g
Greek	Greek	παράδειγμα.δοκιμή	xnhxajbheg2az3al	xnjxalpdlp
Hangul	Korean	실례.테스트	xn9n2bp8q	xn9t4b11yi5a
Hebrew	Yiddish	בײַשפּיל.טעסט	xnfdbk5d8ap9b8a8d	xndeba0ad
Kanji Hirigana, and Katakana	Japanese	例え.テスト	xnr8jz45g	xnzckzah
Tamil	Tamil	உதாரணம்.பரிட்சை	xnzkc6cc5bi7f6e	xnhlcj6aya9esc7a



Status of the .test wiki

- Purpose of the IDNwiki:
 - Introduce users to IDN TLDs
 - Applications test environment for usability
 - Registry information about user problems
- Conduct an experiment with IDN TLDs
 - not a pre-requisite for production in root zone
 - no registrations are available
- Functions as a "normal wiki", user access



Status of the .test wiki

- Adding new "features"
 - New languages:
 - Amharic (4th level under idn.icann.org)
 - Hebrew (2nd level under existing TLD)
 - coming: Thai (4th level)
 - Process available for others languages
 - DNSSEC signing the zones
 - Exploring IDN email addition
 - Experimental status of technical standard



IDNwiki Access

- IDNwiki can be accessed at:
 - http://idn.icann.org
 - Thanks to users, moderators, and wiki staff,
 - includes useful information about IDN
 - in all available languages
 - Please:
 - Visit the site
 - Try IDNs
 - Report on results
 - Use information
 - Add information



Status of the IDNA revision

- Proposed revision at IETF
 - from extremely hard working participants
- Unicode version independent
 - Three categories by procedure not table
 - Protocol-valid (some w/ contextual rules)
 - Disallowed
 - Unassigned
- Attempting to plan for educational sessions on the difference between protocol versions
 - One short initial session tomorrow morning
 - John Klensin and Cary Karp



Status of IDNA revision

Basis in RFC4690, describing issues

- draft-klensin-idnabis-issues-07.txt
 - overall rationale and explanation
- draft-klensin-idnabis-protocol-04.txt
 - registration vs. resolution
- draft-faltstrom-idnabis-tables-05.txt
 - category operations procedure
 - not table, but holds Unicode-5.0 result for reference
- draft-alvestrand-idna-bidi-04.txt
 - to allow combining marks at end of string, by test



IANA management of IDN TLDs

- Process for insertion of IDN TLDs in root
 - exists for test domains only (IDN .test)
 - Developed w/ RSSAC & SSAC recommendations
 - need review, revision, and implementation
 - includes emergency removal procedure
 - for test IDN TLDs only
 - Initial review scheduled by IANA staff
 - Before 30 June 2008
 - Result to be published publicly



ICANN Processes

Country-code IDN TLDs – Fast Track

- Deploy non-contentious ccTLD equivalents quickly
- Where demand/readiness exists
- Don't wait for full ccNSO PDP
- -Tomorrow, half day session on policy issues and methodology

Country-code IDN TLDs – Long Term

- Full policy that caters for all
- Follows the full ccNSO Policy Development Process
- Issues paper scheduled for publication by ICANN Paris meeting (Jun08)

New Generic TLDs

- New ongoing policy for new gTLDs
- Includes internationalized domains
- Focus on non-ASCII squatting & confusingly similarity solutions

Same Start Time

IDN Guidelines

- ICANN IDN Guidelines
 - Need revision to follow IDNA revision
 - Developed by ccTLD and gTLD registry operators
- Local community guidelines, such as
 - Informal 'Arabic script' meeting last week
 - Important development
 - Need for Cyrillic linguistic group to convene
 - language experts participate in IDNA review
 - Review of PVALID characters
 - In addition to protocol, a need for:
 - local registration policies and variant tables



Summary – everything is under way

- Protocol general validity of character and in some extend string validity
- IDN Guidelines implementation of protocol, and global rules for scripts and languages
- Local Directions local rules for scripts and languages
 - Need for Cyrillic script and linguistic group to convene
- Registry testing and implementations
- Application testing and implementations
- Allocation and Delegation Procedures
- Registry, Registrar, Reseller, Registrant



Thank You for Your Time Questions?