IDN Variant TLDs
User Experience Study by ICANN

https://www.icann.org/en/system/files/files/active-ux-21mar13-en.pdf

TF-AIDN @ Istanbul

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Users

1. End Users
2. Users involved in Registration Process
   i. Registrant
   ii. Registrar
   iii. Registry
3. Technical Community
   i. System administrators
   ii. Network Managers
   iii. Security Managers
   iv. Application Developers

Challenges with the Use of Variants

- User cannot find the complete set of variants for a primary label
- Variants not intuitive
- Variants delegated independently
- Variants defined inconsistently
- Variants displayed inconsistently
- User cannot input variants
- Unable to distinguish specific variants
- Identifier not bound to all variants
- Accessibility and privacy impacted
- Variants not searchable
- Search rankings unpredictable
- Search optimization affected by variants
- Variants not part of URL/URI/IRI
- Variants cause session re-establishment

Challenges in the Registration Management of Variants

- Management across IDN TLDs inconsistent
- Registration for SLDs across TLDs inconsistent
- Inconsistent association of ASCII domain name and IDN TLDs
- Software support inadequate
- Registration system not straightforward to localize
- Registration information inconsistent
- Trademark protection tracking complex
- Trademark protection dispute process complex

Challenges in the Configuration and Diagnostics of Variants

- Software configuration not supported
- Cannot associate variants for configuration
- Compounded certificate management
- DNSSEC validation inconsistent
- Log and history searching does not match
- Network traffic statistics incomplete
- Caching infrastructure inefficient
- Diagnostic and troubleshooting tools incompatible
- Forensics significantly more complicated

Thanks!