



# IDN variant management in .tel TLD

Telnic Limited



# What is .tel

- Sponsored Top Level Domain
- Publishing contact information in the DNS
- All domains resolve to a “proxy page”
- User-friendly DNS provisioning system (TelHosting)
- API, mobile apps



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- 16 languages
  - 12 – languages that use Latin script
    - Russian
    - Chinese
    - Japanese
    - Korean
- Over 60,000 IDNs registered
- Variant management techniques: blocking, bundling



## IDN variant blocking

- Applied for: Chinese, Japanese, Russian
- Canonical string computed and stored in the SRS
  - 哈爾濱 -> 哈尔滨
  - уебдизайн -> уебдизайн
- Registration requests are denied if canonical string already exists
- A Cyrillic name can block a non-IDN:  
укр.tel (cyrillic) blocks укр.tel (latin)



## IDN variant bundling

- Applied for Chinese only
- Up to 3 domains in a bundle



- All domains in a bundle are delegated and resolve
- Operations on a bundle are atomic



## IDN bundling: TelHosting aspects

- .tel nameservers are run either by Telnic or by licensed parties (“TelHosting providers”)
- Master domain resolves to the proxy page
- Shadow domains: special zone provisioned
  - DNAME record
  - Non-terminal NAPTR
  - A record
- DNAME: subdomains auto-magically work



Thank you!

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