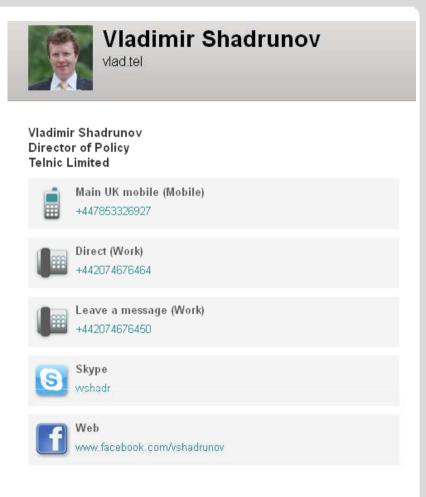


IDN variant management in .tel TLD

Telnic Limited

tel 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





tel IDN support in .tel

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





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



tel 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!

Vladimir Shadrunov

http://vlad.tel

