



IDNA Transition/Experiences

.tel presentation

By Vladimir Shadrinov, Telnic



- IDNs supported per ICANN Guidelines
- 16 languages:
 - 12 European languages based on Latin script
 - Russian
 - Chinese
 - Japanese
 - Korean
- Policy approach:
 - Language rather than script
 - Pre-existing stable policy



Mitigating character similarity

- **Blocking**
 - Chinese: Simplified vs Traditional (门↔門)
 - Japanese: Katakana vs CJK (カ↔力)
 - Russian: Cyrillic vs similar Latin (п↔n)
- **Bundling**
 - Chinese: all-simplified and all-traditional forms



Why .tel is special

- Purpose of the sTLD
- Mandatory NAPTR records
- No custom A-records



Vladimir Shadrnov

vlad.tel

Vladimir Shadrnov
Director of Policy
Telnic Limited

I'm now in Cartagena, Colombia on the ICANN meeting.



Temporary Colombia (Mobile)

+573106125321



Leave a message (Work)

+442074676450



Skype

wshadr



Web

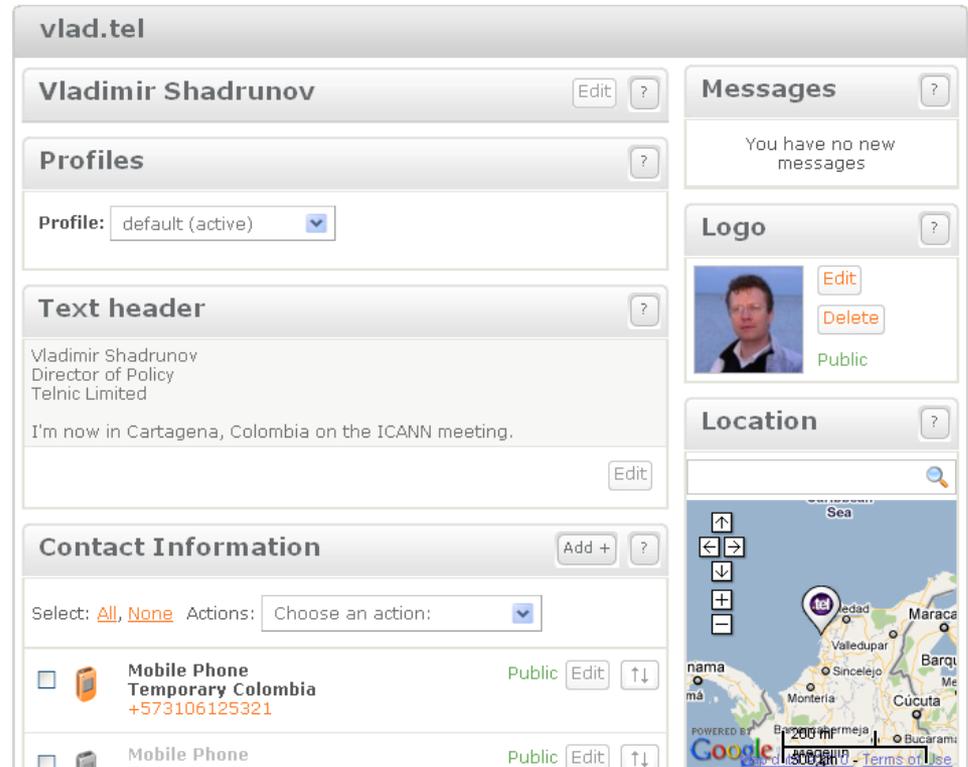
www.facebook.com/vshadrnov



Web

uk.linkedin.com/in/vladdottel

- Nameservers run by contracted parties
- Mandatory provisioning system (TelHosting)
- Mandatory API



The screenshot shows a web interface for a .tel profile. The profile is for 'vlad.tel' and is owned by 'Vladimir Shadrinov'. The interface is divided into several sections:

- Profile:** 'default (active)' is selected from a dropdown menu.
- Text header:** 'Vladimir Shadrinov, Director of Policy, Telnic Limited. I'm now in Cartagena, Colombia on the ICANN meeting.'
- Contact Information:** A table of contact details is shown below a 'Select: All, None' and 'Actions: Choose an action:' header.

Select	Icon	Contact Information	Visibility	Actions
<input type="checkbox"/>		Mobile Phone Temporary Colombia +573106125321	Public	Edit ↑↓
<input type="checkbox"/>		Mobile Phone	Public	Edit ↑↓

Other sections include 'Messages' (no new messages), 'Logo' (with Edit, Delete, and Public buttons), and 'Location' (with a Google Maps integration showing a location in Colombia).



- Additional syntax verifications for U-labels
 - contains at least one non-ASCII character
 - Does not contain hyphens in 3rd and 4th positions
 - Does not start or end with a hyphen
- Eszett (ß) issue
Münchenstraße.tel: IDNA2003 – mapped to Münchenstrasse
IDNA2008 – valid label, no mapping

Possible approaches:

- Sunrise/Grandfathering
- Blocking
- Bundling



- U-Label syntax verification
 - All checks applied to second level labels
 - Must not contain disallowed characters
 - Must not begin with a combining character
 - Must not contain characters whose validity is context-dependent
 - Must meet the Bidi criteria



- IDNAbis-compatible applications (browsers)
 - Firefox, Chrome, IE are not yet compliant
 - IDNs with newly allowed code points will not yet be usable
- IDNAbis-compatible software libraries
 - `java.net.IDN` still works per RFC 3490

Thank you
Questions?

Vladimir Shadrinov
<http://www.vlad.tel>