

The Persian Domain Names Project at IRNIC



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The Test Bed: Current Status

- The project started in 2002
- Policies for the test bed are finalized
- The registration (server-side) software is in its latest phases of development
- We are planning to start registering IDNs in late December
- The duration will be six months



The Test Bed: Policies

- Full conformance to IDNA standard
 - No software developed for the client side, available standard browsers and plug-ins will be used
- Currently only in Persian, the only official language of Iran (no Azerbaijani, Kurdish, Balochi, Arabic, ...)



The Test Bed: Policies

- We may be having about thirty Persian (temporary) zones under .IR
- These zones will work like TLDs if you set a certain experimental machine as your DNS server
- Client-side: Works in Mozilla-based browsers, existing plug-ins for Microsoft browsers



The Test Bed: Policies

- We will be *definitely* purging all the test bed labels, and restart from scratch for real labels.
- Participants in the test bed may get certain sunrise privileges.
- No financial exchange (\$) will be happening in the test bed, but a participant should already be a customer.



Technicalities: Basic Labels

- Allowed: just Persian letters, Persian digits, and hyphen-minus.
- Disallowed: diacritical marks.
- Already ignored by Stringprep: Zero Width Joiner and Zero Width Non-Joiner.
- IDNA bidirectional restrictions will remain.
 - Labels should start and finish with letters.
 - Additionally, we don't allow labels with no letters.



Technicalities: Bundles

- If European or Arabic-Indic digits are used, or certain Arabic variants of Persian letters are requested, they will be “normalized” first.
- A bundle of at most six labels will be defined for possible non-standard configurations of end users.



Technicalities: Bundles

	Persian ک ی	Arabic ک ي
Persian ۱ ۲ ۳ ۴ ۵ ۶ ۷ ۸ ۹ ۰	ک ۴ ی	ک ۴ ي
Arabic-Indic ۱ ۲ ۳ ۴ ۵ ۶ ۷ ۸ ۹ ۰	ک ۴ ی	ک ۴ ي
European 1234567890	ک 4 ی	ک 4 ي



Technicalities: The Process

- Checking validity
 - We only get here if the label is not LDH
 - No need to implement all IDNA details (policy takes care of the rest)
 - Checks:
 - All letter should be in the repertoire
 - Label should start and end with letters



Technicalities: The Process

- “Normalization” to proper Persian letters and digits
 - This will be considered the registered label
- Removing what Stringprep removes
 - ZWNJ and ZWJ



Technicalities: The Process

- Computing the bundle
 - At most six, but usually less
- Computing the ASCII equivalents using ToASCII
 - If the main registered label is too long after ToASCII, the registration will be rejected
 - If alternate bundle members get too long, we will only remove the failed cases

Technicalities: The Process

- Finally, we'll show the registered label as an image:  instead of “لک لک”.
The image shows the Persian text "لک لک" (Lak Lak) rendered in a white, stylized font on a black rectangular background.
- So the user will not see wrong things because of bad or non-standard fonts or rendering technology.



After the Test Bed

- We will possibly choose some of those labels and start lobbying ICANN to get those accepted as Persian gTLDs.
- Or..., we may try to lobby for “ایران.”
 (“.iran”, in the Persian language, as written in the Arabic script) or something like that, and use that/those under this TLD.



After the Test Bed

- Or..., we may purge the whole idea after the experiment, and only write a report on what we learned.
- It will all depend on the experience, the feedback and the statistics.



Free for Questions Now

