

IDN Working Group and IETF Standardization

James Seng

CTO, i-DNS.net

jseng@pobox.org.sg

IDN Working Group

1. An Informational RFC specifying the requirements for providing Internationalized access to domain names. The document should provide guidance for development solutions to this problem, taking localized (e.g. writing order) and related operational issues into consideration.
2. An Informational RFC or RFC's documenting the various proposals and Implementations of Internationalization (i18n) of Domain Names. The document(s) should also provide a technical evaluation of the proposals by the Working Group.
3. A standards track specification on access to internationalized domain names including specifying any transition issues.

IDN Working Group

- Mailing List

- General discussion: ids@ops.ietf.org
- To subscribe: ids-request@ops.ietf.org
- Archive: [ftp://ops.ietf.org/pub/lists/ids*](ftp://ops.ietf.org/pub/lists/ids)
- Website: <http://www.i-d-n.net/>

- Chair

- James Seng <jseng@pobox.org.sg>
- Marc Blanchet <Marc.Blanchet@viagenie.qc.ca>

Working Group Status

1. IDN Matching (~3 proposals)
 - What string match with what string?
2. IDN Encoding (~25 proposals)
 - RACE? DUDE? UTF-8?
3. IDN Protocol (~11 proposals)
 - Server? Client? Proxy? Directory? URL Forwarding?
4. Miscellaneous (~9 proposals)
 - Requirements I-D is ready for RFC

Challenges

- Technical problem?
 - With 30+ proposals and 20months of experience, hopefully we are quite complete.
 - Problems still exists but not major stumbling block
- Consensus
 - IETF works on consensus. Although no fixed guideline, a usual figure is approximately 80-90% agreement.
- IETF Process
 - IETF have certain guidelines in order to advance a standard.

Building consensus

1. Temporary close submission of new Working Group drafts on 28th June.
2. Put all drafts that demonstrate to have “core interest” (7+ people supporting) into Pool W.
3. Put all other drafts (except Misc) into Pool T.

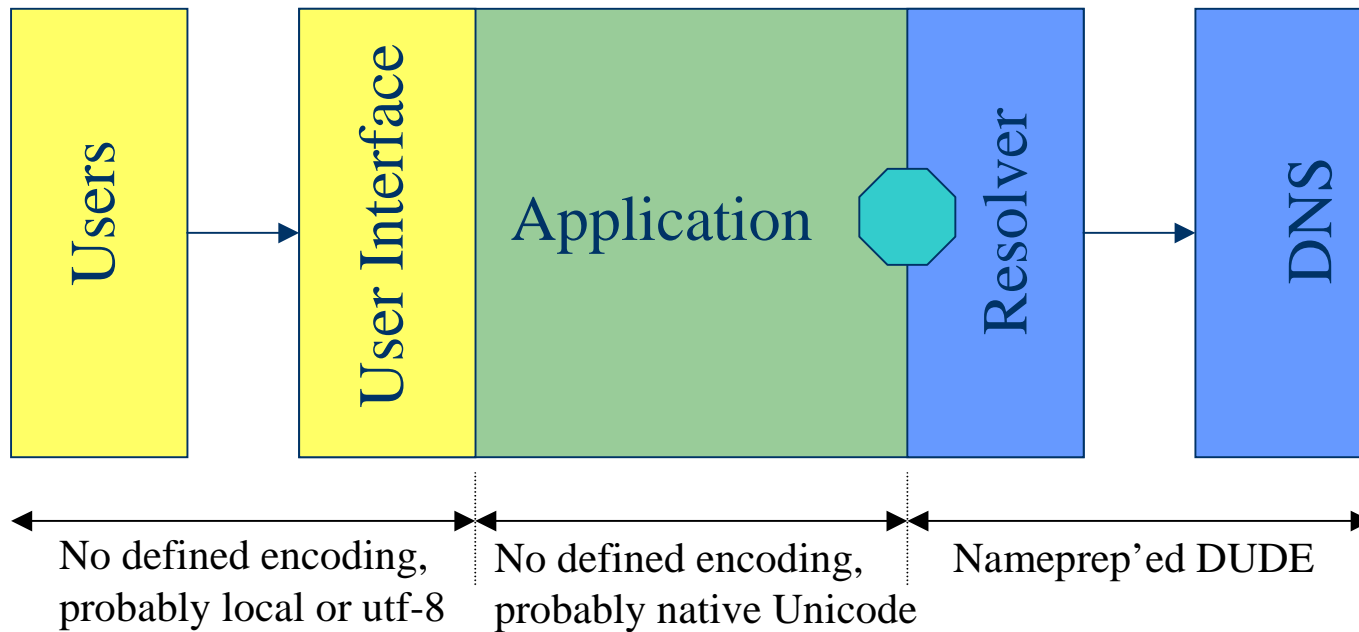
Building consensus

4. Pool T's authors have until 13th July to merge or rewrite draft to get “core interest”
5. After 14th July, Pool W drafts placed as Working Group drafts and Pool T will have to be resubmitted as personal drafts.
6. Only Working Group drafts will be discussed as focus of the working group.

After this?

1. IDN Matching – draft-ietf-idn-nameprep
2. IDN Encoding – draft-ietf-idn-dude
3. IDN Protocol – draft-ietf-idn-idna
4. Miscellaneous (not finalized)
 - draft-ietf-idn-requirements
 - draft-ietf-idn-compare
 - draft-ietf-idn-cjk
 - draft-ietf-idn-version
 - draft-ietf-idn-iptr
 - draft-ietf-idn-aceid
 - draft-ietf-idn-uri
 - draft-ietf-idn-mua
 - draft-ietf-idn-ace-eval-jp

IDNA-Nameprep-ACE

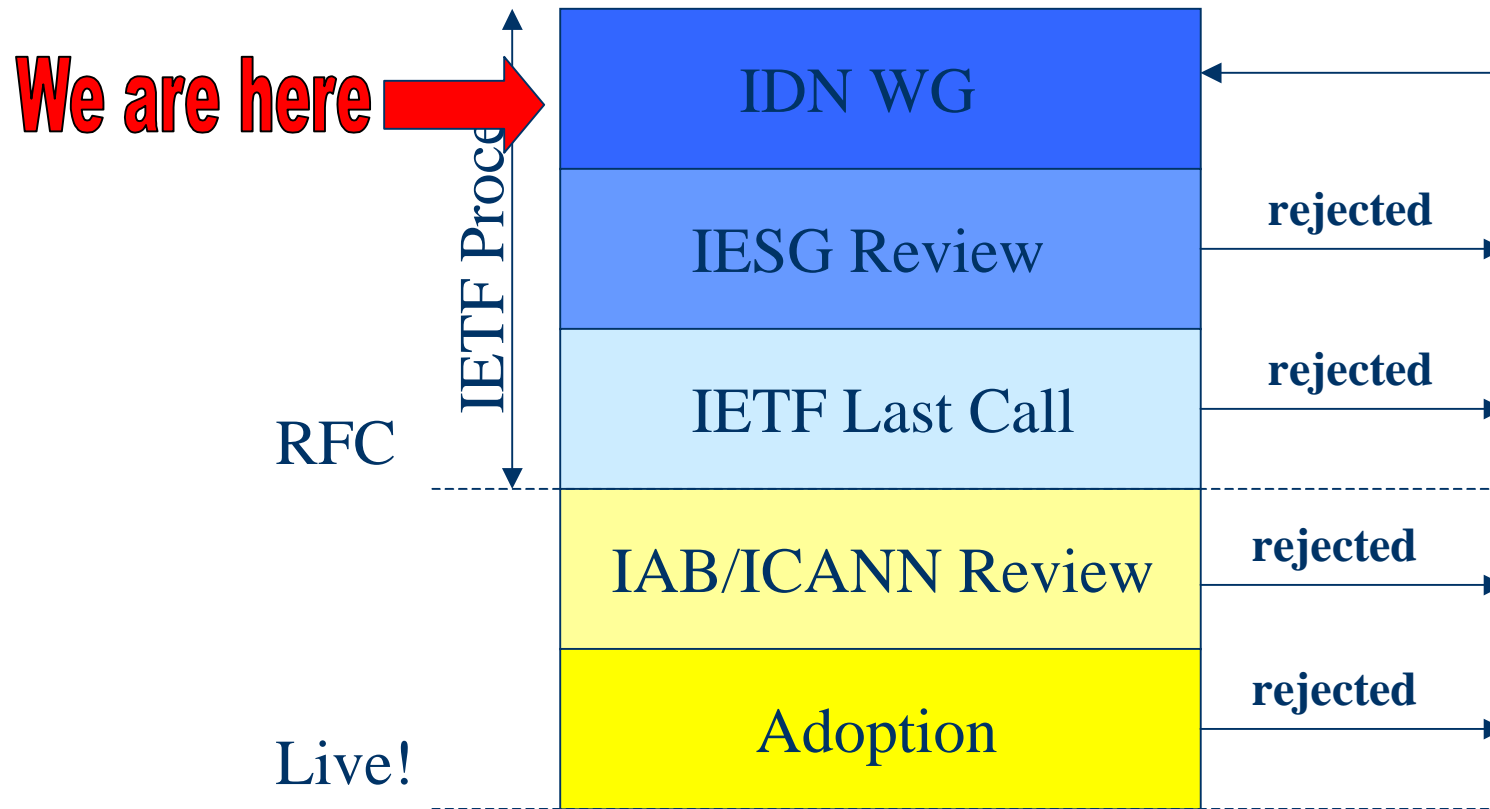


 Nameprep-DUDE

IDNA-Nameprep-ACE

- Browser
 - URL: %-encoded UTF-8 or DUDE?
 - HTTP Host: %-encoded UTF-8 or DUDE?
 - HTTP Cache: Send as-is or DUDE?
- Email
 - Header: MIME or DUDE?
 - IDN in body: as-is or DUDE? Rendered?
- Others
 - Cut-and-paste?
 - Rendering of Bidi?
 - Handling of “full-width dot”

Where are we?



Conclusion

The million dollar question...

How long does it takes for IDN to be live?

a. 3 months

b. 6 months

c. 12 months

d. never