CNNIC’s Efforts & Experiences in IDN

CNNIC

Walter Wu, Assistant to Director General
Content

- Milestones in IDN R & D
- International Cooperation in IDN
- Language definition with character-variants
- CNNIC IDN Offering & Service
Milestones in IDN R & D

- **1998**
  CNNIC begins IDN R & D

- **Jan. 18, 2000**
  CNNIC launches testing CDN registration system

- **May. 20, 2000**
  CDNC comes into existence in Beijing
Milestones in IDN R & D

- Nov. 1, 2000
  CNNIC publishes ‘Dispute resolution policy for IDN’

- May 2002
  JET submits the first version of the draft of RFC3743 to IETF

- May 8, 2003
  CNNIC IDN DNS system conforms to IETF IDN standards

- Apr. 14, 2004
  RFC 3743 gets approved and published by IETF
International Cooperation in IDN

- Partners with TWNIC, HKNIC, MONIC, JPNIC, KRNIC
- Membership in IETF, CDNC, JET
- Contribute to RFC3490, RFC3491, RFC3492,
- Joint R&D in RFC3473
- Participates in multiple international IDN discussions
Language Definition With Character-variants (1)

- Special issues in IDN deployment in China
  - Simplified-Chinese (SC) and Traditional-Chinese (TC) characters equivalence
  - Chinese character variants
Language Definition With Character-variants (2)

- For example
  - 清 - >{清，清，清}
  - 华 - >{华，華，華}
  - 学 - >{学，學，孛}
- TC-only
  - 清華大學.cn
- SC-only
  - 清华大学.cn
- Variants (25)
Language Definition With Character-variants (3)

- Special issues in IDN deployment in China
  - label separators
    - “。（U+3002) equals to “."(U+002E) /*full stop*/
  - Full-width and half-width characters
    - Almost all the IMEs in China support full-width character by default
Current Solution

- Based on RFC3743
- Language set is \{zh-cn, zh-tw\}
- Using two table
  - Language Variant Table for ZH-CN and Language Variant Table for ZH-TW
  - The first column and third column are same in two tables
Language Definition With Character-variants (5)

- Current solution
  - The number of valid Chinese characters is approx. 20 thousand
    - Includes most of the popular Chinese characters
  - When one registers a IDN, he gets:
    - the original format submitted,
    - TC-only
    - SC-only
CNNIC IDN Offering & Service(1)

- Advanced total tech. solution
  - CNNIC IDN client-side plug-in software
    - Window98 above (98/me/nt/2k/xp)
    - IE、Outlook、OutlookExpress client-side plug-in software
  - Email system client-side plug-in software
    - Foxmail 5.0
  - Supporting Browsers
    - Mozilla 1.4 above
    - Opera 7.2 above
    - Firebird 0.6
CNNIC IDN Offering & Service(2)

- Multiple applications
  - IDN Email
  - Whois
- 24-7 support
- Independent & regionalized DRP
  - CIETAC
  - HKIAC
CNNIC IDN Offering & Service(3)

- Current Situation of IDN Dispute Resolution
  - Disputes accepted: 62
    - Domestic cases 34, Oversea cases 28
  - Disputes judged: 62
    - Rejected: 5
    - Transferred: 39
    - Written off: 4
    - Withdrawn: 9
    - Ongoing: 5
- Results: Compliance with judgments
CNNIC IDN Offering & Service (4)

- Public authorities registrations
- Awareness marketing
  - Road show campaigns
  - CCTV support
  - Online advertisements
  - Newspaper & magazine advertisements
- Customers usage experience surveys
- Local internet communities support
Thank you!

Walter Wu, walterwu@cnnic.cn