

# CNNIC's Efforts & Experiences in IDN

CNNIC

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# 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



# Language Definition With Character-variants (4)

- 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
  - Time period : Jan.1, 2001 ~ Jun. 31, 2004
  - 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!

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