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IDN Testbed Program Update

JPNIC IDN Policy Workshop

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Internationalized
Domain Names
(IDNs)

多语种域名

國際化網域名稱

国際化ドメイン名

국제화 도메인 네임



- ▶ IDNA RFC Migration Plan
- ▶ Character Variant Mapping
- ▶ I-Nav™ Plug-in
- ▶ Resolution Support
- ▶ Q&A



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▶ Current Deployed Systems

- RACE, Name Prep 03

▶ Migration Strategy Goals

- Limit the impact/effort to registrars
- Provide flexible migration path
- Transition registrars to new standards as soon as possible

▶ Software Development Kit – 4/14/03

- RACE, punycode and name prep 11 libraries
- Data Conversion Tools & Sample code in Java and C

▶ RFC Migration Transition Window

- Permit registrars to migrate at own pace
- Accept registrations in RACE or punycode for limited time
- As a service, convert RACE to punycode for registrars
- Reply with punycode and Unicode in Whois



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▶ Character Variants Phase 1 - May 2003

- Deployed May 17th, 2003
- VeriSign implemented an approach similar to the approaches used by the CNNIC and TWNIC as follows:
 - New Registrations in Chinese Script
 - When IDN has only Chinese characters, VeriSign is blocking the other variant(s) from being registered.
 - No variants are generated using mixed script variants
 - No registrations generated for base registrations that have both TC and SC character variants
 - If registration has one character outside of CJK Unified Ideograph range, no variants will be generated
 - Existing Registrations in Chinese Scripts
 - The variant(s) of the existing Chinese IDNs have been generated.
 - They are being blocked from registration.
 - If a variant has already been registered, it is not being deleted.
- TWNIC publicly available variant table being used.
- VeriSign will migrate to the CDNC table when available – just like CNNIC and TWNIC.



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▶ Character Variants Phase 2 – August 2003

- When taking a new registration, VeriSign's domain name registration process will process domain names based upon language tags and create character variants based upon the available character variant table.
- VeriSign will defer to the national authorities for defining the appropriate variant tables for a language.
 - Issue still exists as to how these tables are "approved"
- Japanese = JPRS' table (valid code points)
- Korean = KRNIC's table
- Other tables when available.

▶ RIC Guidelines (Still draft)

- Deploy language tag
- Limit code points to language based characters only
 - Include characters that are interesting to our customers
 - About 3,000 IDN registrations contain symbols
 - Less than 100 registrations have unacceptable mixed scripts



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▶ Installed Base

- Upwards of 12M installed
- Major initiatives supported by in-country partners
- Positive user response in Korea, Japan, China, Spain, France, Germany and others

▶ i-Nav™ 4.0 – New functionality – July, 2003

- Features
 - MS IE 5.0 and greater
 - Windows platform
 - Messaging support for GJK, Latin-based, Greek, Cyrillic, Arabic and Hebrew languages (18 currently supported)
 - Active-X auto-update until IDNA standards are deployed
- Dual encoding support
 - RACE for .com, .net, .org and .jp (until migration)
 - Punycode for all other TLDs
- “Auto-complete TLD” inserts TLD without the user having to change their input method from their language to ASCII
 - Based upon full-stop (period and others)
- Enhanced structural changes
 - Smaller initial footprint – reduced initial download time

▶ IDN support in Email ([name@IDN.TLD](#)) in August

- Outlook, Outlook Express and some webmail providers



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▶ Primary – In country plug-in distribution partners

- 3721
- JPRS
- KRNIC

▶ Secondary – Application Developers

- Have provided IDN SDK libraries to several application developers
 - Major browser and email clients

▶ Tertiary – Web-Based Navigation

- Process end-users trying to use IDNs that don't have plug-in or use software that is not IDNA
- Offer plug-in while directing user to desired domain, should that domain be registered in com or net
 - If domain is not registered, a not found message is returned to the end-user



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Q&A