



Joint UNESCO and ITU
Global Symposium on Promoting the Multilingual Internet



Session 1 : Standards and technical solutions

Highlights & Conclusions

ITU-T SG 17 IDN Studies / Andrzej Bartosiewicz, NASK, Poland
ICANN's IDN Activities / Tina Dam, ICANN
IDN for cultural institutions / Cary Karp, MUSEDOMA
The multilingual distributed referential system langroot / J-F C. Morfin,
INTLNET
Global IDN Coordination - ICMC Initiative / Prof. Tin Wee Tan, National
University of Singapore / MINC
Internet Keywords / Tongwoo (Richard) Kim, NLI Consortium

Reinhard Scholl
Deputy to the TSB Director, ITU



ITU-T SG 17 IDN Studies



- o Resolution 48 - IDN3
- o Moscow Meeting March 2005
- o Action Plan
- o Geneva Meeting
- o On IDN. Action Plan has been agreed.
- o Jeju Meeting (April 2006)
- o ITU-T SG2 on Circular
- o Issued covered by ITU-T SG17
 - technical documents (IETF, ISO/IEC, ...)
 - Networkd security risks
 - Use of regional language tables
 - Liaison mechanisms with the relevant study groups and appropriate entities
 - Requirements for ITU-t Recommendations (if any)
 - Problems with IDNs adoption worldwide
 - Webpage open to public dedicated to IDNs hosted by SG 17
- o More information: www.itu.int/ITU-T/studygroups/com17 and www.bartosiewicz.eu (author's)



ICANN's IDN Activities



- o General ICANN Information
- o ICANN IDN Development
- o ICANN IDN Workshops and Looking Ahead
- o IDN Guidelines Revision (IDN TLD Working Group)
- o Trial on DNAMEs and ??? will be performed to test different IDN solutions



IDN for cultural institutions



- o Cultural institutions activities cross regular Internet name space along its conventional administrative boundaries and even geographic boundaries
- o Cultural institutions also participate in national and international collaborative initiatives and are expert referees in the preparation of national policies and legislation, and may be maintenance agencies for component instruments
- o Language diversity is a pervasive component of this process
- o Need mechanisms for highlighting (rather than obscuring) the linguistic identity of material placed in digital repositories
- o Cultural institutions and their users will derive great benefit from IDNs and multilingualism at large



The multilingual distributed referential system langroot



- o Relational spaces
- o Root name (TLD, area code)
- o Identity, universality and subsidiarity (A relational space must be empowered via the control of its community governance on its own reference centre ('local IANA'))
- o An INTLFILE evolution
- o The MDRS project
- o The suggestion of ICANN
- o The "uni(authoritative)" IETF/IAB vision supports multi-authority needs through options that may not scale well. Ex. IDNA
- o The MDRS project is a technology transparent distributed network of interoperable registries.
- o New major language modes are to be supported.
- o Globalization plus Harmonization.
- o A two-layer strategy.
- o Interoperable interlinking, at two levels:
 - ISO11179
 - Conceptual (see presentation at website)
- o The target is set at 20000 lingual spaces by end 2006.
- o The MDRS roots are community open projects



Global IDN Coordination – ICMC Initiative



- o Need of Global IDN Coordination
- o Long hard Road to IDN
- o How to implement?
- o IDN concept mooted by Martin Duerst
- o IDN TLD Deployments
- o Approx 30 countries have testbed
- o China Chinese TLD - 1 billion of people
- o <http://wiki.minc.org>
- o Internet Fragmentation is here
- o (Living in a Broken World)
- o Disputes resolutions on IDN !!!
- o Forum for such IDN TLD operators : “testers”



Conclusions



- Overview provided on standards activities in ITU-T and on the ICANN role and future activities
- DNAME and NS-records technical test of internationalized TLDs under planning
- IDN and multilingualism important for cultural institutions
- Idea on a network of networks of networks - langroot
- Internet fragmentation should be avoided as much as possible



Recommendations



- o Organizations involved in IDNs should carefully consider the technical options - existing or new - to avoid fragmentation of the internet