

Internet Internationalization and Globalization - Focusing on Internet Names -

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1. Internationalization and Globalization –Introduction

Internationalization :

To accommodate various languages and cultures

Globalization :

To include various communities & regions of the world

2. Internationalization (and Localization)

2.1 Internationalization

Facilitation of implementation of various languages & cultures

- Code :

 - 7 bit code(ASCII)

 - 8 bit code

 - 2 byte code

 - Unicode

- Mail

- WWW

- Domain Names(DNS)

- Directory

- Others:

 - Computer Languages

 - (more)

2. Internationalization (and Localization) [continued]

2.2 Localization

- Implementation of specific language and culture
- Content(plain text, multimedia text,...)

3. Globalization

1970s (Arpanet)

1980s (Internet)

Mail(early 1980s)

ccTLD(mid-80s)

IP Interconnection(mid-80s)

1990s(Internet)

ccTLDs : All countries and regions(240 ccTLDs)

IETF [Internet Engineering Task Force]

ICANN[Internet Corporation of Assigned Names & Numbers]

3.1 Internet Users

> 300 million users in 2000

240 countries and economies

Growing 50% or more per year

3.2 Protocol Development(IETF)

- 3 times a year
 - 2 times in USA a year
 - Once outside of USA a year
- 20% or more contributions outside of USA

3.3 Internet Administration(at ICANN)

Geographical Diversity

members

meeting locations

secretariats

4. Issues

- (1) What internationalization is needed to have true globalization?
- (2) Multilingual domain names vs keywords
- (3) Asian contribution to the global Internet community
- (4) Community development

4.1 What internationalization is needed to have true globalization?

User Interface

Content

(more)

4.2 Multilingual domain names vs keywords

Domain Names: 李星@清華.教育.中國

Keywords: 清華, 李星

4.3 Asian contribution to the global Internet community

Internationalization of the Internet

Content

Global Outreach and Awareness

(more)

4.4 Community Development

Research and Education Communities

Business Communities

Age Group Communities

Minority Group Communities

Reference

MINC(Multilingual Internet Names Consortium)

www.minc.org

IETF(Internet Engineering Task Force)

www.ietf.org

ISOC(Internet Society)

www.isoc.org

ICANN(Internet Corporation of Assigned Names and Numbers)

www.icann.org

POSIX

www.ieee.org, www.JTC1.org