INTERNET – THE COMING OF AGE

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INTERNET SUCCESS
ANCESTORS
INTERNET SUCCESS

- NETWORK RELIABILITY - GOOD
- ISP - SOME GOOD - SOME POOR
- USER ASSISTANCE - POOR TO NIL
- APPLICATIONS - EXCELLENT TO UNUSABLE
- CAN'T LIVE WITHOUT IT
CRITICAL RESOURCES

- STANDARDS (IETF)
- IP ADDRESS ALLOCATION
- DOMAIN NAMES
- ROOTS AND DNS (DOMAIN NAME SYSTEM)
- ROUTING
- ACCESS COSTS
IPv4 ADDRESS ALLOCATION

- **USA (ICANN / IANA) ALLOCATES “BLOCKS” TO REGIONAL / LOCAL REGISTRIES**
- **UNBALANCED DISTRIBUTION (ABUSIVE)**

http://www.iana.org/assignments/ipv4-address-space
IPv4 ADDRESSES / HABITANTS

- USA 4,2
- CANADA 2
- EU 0,6
- BRAZIL 0,06
- CHINA 0,02
- INDONESIA 0,005
- INDIA 0,002
INTERNATIONAL SCENE

- TERRITORY DE FACTO WITHOUT LAW
- GOVERNMENTS WITHOUT DECISION POWER
- EXCEPT THE US GOVERNMENT
- WEAK USER REPRESENTATION
- INCREASING FRUSTRATION
WSIS - World Summit on the Information Society

- Proposed by ITU and Tunisia (1998)
- Endorsed by United Nations (2001)
- Foundations of the Information Society
- Reduce the Digital Divide
- Work Start (2002)
- 1st Summit Geneva (Dec 2003)
- 2nd Summit Tunis (Nov 2005)
BONES OF CONTENTION

- (NON) LEGITIMACY OF ICANN
- MULTILINGUALISM
- IP ADDRESSES – DOMAIN NAMES - ROOTS
- SECURITY – DATA PROTECTION
- SPAM - PHISHING
- ACCESS COSTS
- CONTENTS CONTROL
WSIS RESULTS

- **US DIKTAT FOR KEEPING ICANN ROLES**
  - *IN SPITE OF SIGNED DECLARATION*
- **CREATION OF THE INTERNET GOVERNANCE FORUM**
  - **OPEN TO ALL STAKEHOLDERS**
- **ENHANCED COOPERATION BETWEEN STATES**
  - *TO BE DEFINED*
• MORE THAN 1200 PARTICIPANTS
• OPEN TO EVERYONE
• NO HIERARCHY
• PLENTY OF OFFICIAL TRIVIALITIES
• FREE EXCHANGE OF OPINIONS / INFOS
  – CRITICAL RESOURCES BANNED BY USA
• NO CONCLUSIONS / DECISIONS
  – EXCLUDED BY IGF MANDATE
• GENERAL SATISFACTION (SEE YOU IN RIO)
• MORE THAN 1500 PARTICIPANTS
• CHINA GOT CRITICAL RESOURCES TOPIC
• TOO MUCH PARALLEL / REDUNDANT
• MORE OF THE SAME
• MIXED SATISFACTION (WE HEARD IT LAST TIME)
PRE - CONCLUSIONS

- IGF HAS NO BUDGET
- DONATIONS BY ICANN, etc.
- BANDWIDTH SATURATED BY US LOBBIES
- SOME INTERESTING DEBATES
- MAKE NO WAVES
THE WORLD IS MULTIPOLAR

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TELECOM STANDARDS
IETF CULTURE

- NO BOSS => “BOTTOM UP”
- MAILING LISTS => *round the clock*
  - PLUS F2F MEETINGS 3 TIMES / YEAR
- SPEEK & RITE INGLISH, PLEEZ
- NO VOTE => “ROUGH CONSENSUS”
  - BASED ON DECIBELS ?
- NO GOVERNMENT INTERFERENCE
BARRIERS TO PARTICIPATION

- LANGUAGE & SOCIAL MANNERS
- LACK OF MOTIVATIONS
- MONEY
- TECHNICAL LINGO
- USA DOMINANCE
INDEX OF RFC’s 3101 to 4109

TYPE: RFC
DOC-ID: RFC3976
TITLE: Interworking SIP and Intelligent Network (IN) Applications
AUTHORS: V. K. Gurbani, F. Haerens, V. Rastogi
DATE: January 2005
KEYWORDS: sip, intelligent network, call models, call model mapping, telephony services, public switched telephone network, pstn
ORGANIZATION: Lucent Technologies, Inc., Alcatel Bell, Wipro Technologies
FORMAT: ASCII
CHAR-COUNT: 60191
STATUS: INFORMATIONAL
at au ca ch cn de fi fr ie it jp ko nl se sp tw uk us

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- MOSTLY INDUSTRY PEOPLE
  - INDEPENDENT OF WHAT?
CONCLUSIONS

- TECHNICAL QUALITY => NOT QUESTIONED
- BUT ...
- BOTTOM UP => US RULE
- ROUGH CONSENSUS => US RULE
- INTERNET STANDARDS => US STANDARDS
- IETF => US INDUSTRIAL INTERESTS
CONFLICTUAL INTERESTS

- WHOIS DATA BASES
  - PERSONAL INFO
  - CORRECTNESS
  - COMPLETENESS

- NATIVE LANGUAGE DOMAIN NAMES
  - INCOMPLETE UNICODE SCRIPTS
  - IDN TECHNICAL RESTRICTIONS
  - VISUAL AMBIGUITIES
BOARD OF DIRECTORS

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INTERNATIONAL SAVOIR VIVRE

- INTERNET STANDARDS NEED WORLDWIDE ACCEPTANCE
- NOT JUST BY US INDUSTRY
- THEY SHOULD BE SUBMITTED TO NATIONAL STANDARD BODIES FOR COMMENTS
- PRESENT UNILATERALISM UNPRODUCTIVE
  - LEADS TO LOCAL DEVIATIONS
WHAT DEVIATION?

- CHINESE INTERNET - IPv6
- NAMES IN TRADITIONAL & SIMPLIFIED ...
- NATIONAL DNS FOR CHINESE CN COM ...
- WESTERN DNS FOR HAPPY FEW
  - WELL MONITORED BY NET POLICE
- PARTIAL VISIBILITY ONTO FOREIGN SITES
  - AND VICE VERSA
INTERNET of THINGS
INTERNET of THINGS

- MINIATURISATION + RADIO ->
  - COMMUNICATING OBJECTS + or - INTELLIGENT
  - KITCHENWARE, CLOTHES, DOCUMENTS, ANIMALS ...
  - ex: RADIO FREQUENCY IDENTIFICATION

- LOCALISATION - ALARM - MONITORING

- IDENTIFICATION: OBJECT / PERSON

- UBIQUITOUS SENSORS

- CORRELATION OF INFOS: PROFILES
IDENTIFIERS & IDENTITIES

- NUMBERS REFERRING TO ANYTHING
  - OBJECTS, PERSONS, CONTAINERS, CONTENTS
  - FILES, CONTRACTS, PROFILES

- WHO / WHAT IS TO MANAGE THOSE KEYS ?
  - STATES, LOBBIES, MULTINATIONALS, ASSOCIATIONS
  - GOOGLE, VERISIGN, FBI, WIPO ?

- WHO KEEPS MY IDENTITIES ?
  - RIGHTS, CONFIDENTIALITY, IMPOSTURES
  - REAL WORLD <-> VIRTUAL WORLD
NOT SCALABLE TO THE WHOLE WORLD

- CAN YOU MEMORIZE 50 CHARACTERS?
- AND TYPE THEM ENTIRELY? IN TELUGU?

ONLY MEANINGFUL / USEFUL TO SOME

MEANINGFUL NAMES IMPLY LOCALISATION

DNS IGNORES LOCALISATION
- **SPECIFIC**
  - LANGUAGE - TRADE - REGION - ORGANISATION

- **SIGNIFICANT**
  - FOR USERS

- **CONTEXTUAL**
  - UNIQUENESS NOT REQUIRED

- **NON TECHNICAL**
IDENTIFIERS

- TRADES NEED TO CONTROL THEIR IDENTIFIERS
  - RELEVANCE, FUTUR USAGES, LANGUAGE, STANDARDS, ...

- SOME MONOPOLIES PROWLING AROUND
  - GOOGLE, MICROSOFT, VERISIGN, USA GOV
  - PASSPORT, RFID, DOI
  - ECONOMIC INTELLIGENCE
  - CONFLICTS OF INTERESTS

- STRATEGIC RESOURCES IN NETWORK ECONOMY
OBJECT NAMING SERVICE

- RFID
- RFID reader
- 96 bits
- Local sys.
- EPC global
- URL
- Internet
- Object base

server
root
- Electronic Product Code
- NETWORK OF GS1 MEMBERS
  - COMPUTER NETWORK
- GLOBAL STANDARD 1
  - NON PROFIT - STANDARDS
  - ASSISTANCE FOR APPLICATION OF STANDARDS
    - BAR CODE - RFID
    - BASES: BRUSSEL - LAWRENCEVILLE (NJ)
TRACEABILITY

- WHERE DOES IT COME FROM?
- WHERE IS IT?
- HOW WAS IT CARRIED?

Physical Markup Language

EPC global Info.Service
NEXT DECADE?

- TECHNOLOGICAL EVOLUTION
- TENSIONS BETWEEN “CONNECTED” AND “DISCONNECTED”
- FAMILY / SOCIAL DIVIDE
- ETHNIC / CULTURAL / GEOGRAPHIC / RELIGIOUS CLASHES
- NON EXISTENT OR OBSOLETE LEGISLATIONS
- ALTERNATIVE COMMUNITIES
FOR WHOM THE BELL TOLLS?
FRAUD

- WILL I GET IT?
- WHAT IF DOESN'T WORK?
- I PAID,
  GOT NOTHING
- CROOKS!
THANKS, FRIENDS

mercidevotreattention

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