ICANN: Globally At Large?

Seoul ICANN Workshop
10 July, 2000

Andrew McLaughlin
Chief Policy Officer and CFO
<table>
<thead>
<tr>
<th>Year</th>
<th>Level 2 Domains</th>
<th>Hosts</th>
<th>IP Countries</th>
<th>Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>1.3 M</td>
<td>22.5 M</td>
<td>190</td>
<td>50 M</td>
</tr>
<tr>
<td></td>
<td>(NSI Jul 1997)</td>
<td></td>
<td></td>
<td>(Jul 1997)</td>
</tr>
<tr>
<td>2000</td>
<td>12 M</td>
<td>72 M</td>
<td>218/246</td>
<td>276 M</td>
</tr>
<tr>
<td></td>
<td>(NSI Apr 2000)</td>
<td></td>
<td></td>
<td>(NUA Feb 2000)</td>
</tr>
</tbody>
</table>

(Compare: 950 Million Telephone Terminations)
Users on the Internet - Feb 2000

- CAN/US - 135.06M
- Europe - 71.99M
- Asia/Pac - 54.90M
- Latin Am - 8.79M
- Africa - 2.46M
- Mid-east - 1.29 M

Total - 275.54M

(Source www.nua.ie)
Internet User Trends

Source: Nua Internet Surveys
ICANN: The Basic Idea

ICANN =
An Experiment in
Technical Self-Management
by the global Internet community
ICANN: The Basic Bargain

ICANN =

Internationalization of Policy Functions for DNS and IP Addressing systems

+ 

Private Sector (non-governmental) Management
What does ICANN do?

Coordinates policies relating to the unique assignment of:
  – Internet domain names
  – Numerical IP Address
  – Protocol Port and Parameter Numbers

Coordinates the DNS Root Server System
  - through Root Server System Advisory Committee
Says *The Economist*:

- “ICANN is in many ways a completely new institutional animal.”
- “It is a hybrid between an online community and a real-world governance structure, an untested combination.”
- “It is also a new type of international organisation: an industry trying to regulate part of itself, across the globe, with little or no input from national governments.”

*(10 June 2000)*
Domain names & IP addresses

- **Domain names** are the familiar, easy-to-remember names for computers on the Internet
  - e.g., amazon.com, icann.org, nic.or.kr

- Domain names correlate to **Internet Protocol numbers** (IP numbers) (e.g., 98.37.241.130) that serve as routing addresses on the Internet

- The **domain name system** (DNS) translates domain names into IP numbers needed for routing packets of information over the Internet
Categories of Internet Domains

• Generic Top Level Domains (gTLDs)
  • .com, .net, .org, .gov, .mil, .edu, .int, .arpa
  • .com, .net, .org open for registration by all persons and entities on a global basis
  • Proposals to add many more gTLDs (.shop, .arts, .union, etc.)

• Country Code Top Level Domains (ccTLDs)
  • .kr., .uk, .fr, .us, .mx, .ca, .de, etc.
  • Registration requirements vary by domain (many require domicile within the territory or other connection with the territory)
  • Derived from ISO 3166-1 list
Status Quo Ante ICANN

Most Internet DNS and IP Address coordination functions performed by, or on behalf of, the US government:

– **Defense Advanced Research Projects Agency (DARPA)**
  • Information Sciences Institute (ISI) of University of Southern California
  • Stanford Research Institute (SRI)
– **National Science Foundation (NSF)**
  • IBM, MCI, and Merit
  • AT&T, General Atomics, Network Solutions, Inc. (NSI)
– **National Aeronautics and Space Administration (NASA)**
– **US Department of Energy**
IANA

- “Internet Assigned Numbers Authority”
- A set of technical management functions (root management; IP address block allocations) previously performed by the Information Sciences Institute (ISI) at the University of Southern California, under a contract with DARPA
- Includes protocol parameter and port number assignment functions defined by the Internet Engineering Task Force (IETF)
- Now a part of ICANN
IANA

Jon Postel
1943-1998
Need for Change

- **Globalization of Internet**
- **Commercialization of Internet**
- Need for **accountability**
- Need for more **formalized management structure**
- Dissatisfaction with lack of competition
- Trademark/domain name conflicts
White Paper Principles

White Paper: new policy/management structure must promote 4 goals:

- Stability
- Competition
- Private, bottom-up coordination
- Representation
White Paper Implementation

- Internet community to form non-profit corporation meeting White Paper’s 4 criteria
- US Government (through Commerce Department) to transition centralized coordination functions
- Amendment of Network Solutions agreement to require competitive registrars in gTLD registries
- Request to WIPO to study & recommend solutions for trademark/domain-name conflicts
Status of Transition from USG

✓ 25 November, 1998 - ICANN recognized in MoU
✓ June, 1999 - Cooperative agreement among ICANN, US Government, root server operators
✓ 10 November, 1999
  • ICANN and Network Solutions sign gTLD registry and registrar agreements
  • DoC transfers root authority over gTLDs to ICANN
✓ 9 February, 2000
  • Contract with US Government to complete transfer of IANA functions
Policy Objectives for Year 2000

- New Top-Level Domains
- At Large Membership Elections
- ccTLD registry agreements
- IP Address registry agreements
- Root server operator agreements

- September 30, 2000 - Target date for ICANN to settle all registry + registrar + root server relationships
Domain Name Issues

- **Uniform Dispute Resolution Policy**
  - Optional, non-binding alternative to court
  - Average time to resolution: 35-40 days
  - Targets abusive, bad-faith cybersquatting
  - Applies to .com, .net, and .org (not ccTLDs)
  - Four providers: National Arbitration Forum, Disputes.org/e-Resolutions; WIPO; CPR

- **Competition in registration services**
  - Pre-ICANN: Monopoly provider (NSI) for .com, .net, .org; minimum cost of US $70
  - Now: Over 45 competitors worldwide (+ resellers); prices start at US $10

- **New Top-Level Domains**
  - ICANN Board to make decision on how to proceed in July; staff proposals posted

- **Internationalization of DNS character sets**
  - Problem for technical standards bodies (i.e., IETF), not ICANN
  - Need for open standard & interoperability with existing DNS
Structure of ICANN
ICANN Board of Directors

At Large Directors:
• Esther Dyson (USA) – Chairman
• Geraldine Capdebsocq (France)
• George Conrades (USA)
• Greg Crew (Australia)
• Frank Fitzsimmons (USA)
• Hans Kraaijenbrink (Netherlands)
• Jun Murai (Japan)
• Eugenio Triana (Spain)
• Linda S. Wilson (USA)

ASO Directors:
• Blokzijl (Netherlands)
• Fockler (Canada)
• Wong (Hong Kong, China)

DNSO Directors:
• Abril i Abril (Spain)
• Cohen (Canada)
• Pisanty (Mexico)

PSO Directors:
• Abramatic (France)
• Cerf (USA)
• Davidson (U. K.)
ICANN Staff

New Model: Lightweight
(minimal staff = minimal bureaucracy)

Current Staff:

- President and CEO (Mike Roberts)
- Vice President/General Counsel (Louis Touton)
- Chief Policy Officer/CFO (Andrew McLaughlin)
- Registrar Liaison (Dan Halloran)
- IANA staff (Joyce Reynolds, Michelle Schipper, Suzanne Woolf)
- Network Administrator (Jim Villaruz)
At Large Membership

• Open to any individual with verifiable name, email address, physical address
• Free to join and to vote
• Members will directly elect 5 ICANN Directors by November 2000 (Election by Region)
• Nominations committee + self-nomination
• 6-month study period to follow first election
• Membership Implementation Task Force
• JOIN!  http://members.icann.org
<table>
<thead>
<tr>
<th>Country</th>
<th>Applications for Membership (~29 June)</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>8188</td>
</tr>
<tr>
<td>Germany</td>
<td>5047</td>
</tr>
<tr>
<td>Japan</td>
<td>4251</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>1323</td>
</tr>
<tr>
<td>Canada</td>
<td>1010</td>
</tr>
<tr>
<td>South Korea</td>
<td>521</td>
</tr>
<tr>
<td>France</td>
<td>433</td>
</tr>
<tr>
<td>Australia</td>
<td>363</td>
</tr>
<tr>
<td>Thailand</td>
<td>322</td>
</tr>
<tr>
<td>Austria</td>
<td>310</td>
</tr>
<tr>
<td>Switzerland</td>
<td>290</td>
</tr>
<tr>
<td>India</td>
<td>236</td>
</tr>
<tr>
<td>Netherlands</td>
<td>208</td>
</tr>
<tr>
<td>Ireland</td>
<td>164</td>
</tr>
<tr>
<td>Italy</td>
<td>157</td>
</tr>
<tr>
<td>Spain</td>
<td>139</td>
</tr>
<tr>
<td>Mexico</td>
<td>127</td>
</tr>
<tr>
<td>Argentina</td>
<td>120</td>
</tr>
<tr>
<td>New Zealand</td>
<td>119</td>
</tr>
</tbody>
</table>
Why Elect Directors?

- Accountability
- Transparency
- Representation
  - Geographic
  - Sectoral
- Diversity of views
- Distributed architecture of selection
- BUT: ICANN needs high-quality directors, a goal which may be in tension with representation
ICANN = Cybergovernment?

A: NO!

- ICANN has no inherent coercive power, only the ability to enter into contractual relationships through a process of consensus & consent

- ICANN is not a substitute for the powers of governments (i.e., courts and laws)
Does ICANN regulate?

• **No**: ICANN coordinates.

• **But**: technical coordination of unique values sometimes requires accounting for non-technical policy interests:
  - Data privacy protection
    • (WHOIS database)
  - Intellectual property/trademark law
    • (UDRP)
  - Competition law
    • (Registrar accreditation for .com, .net, .org)
What ICANN doesn’t do

• Network security
• Spam
• Web Sites’ Data Privacy Practices
• Internet Content
  – Pornography
  – Hate speech
  – Copyright violations
  – Deceptive business practices / consumer protection
• Multi-jurisdictional commercial disputes
• Definition of technical standards
  – Network surveillance and traceability
• Internet gambling
What ICANN is NOT

- Technical Standard-Setting Body
- Internet Police Force
- Consumer Protection Agency
- Economic Development Agency
- Legislature or Court
Lessons from the Experiment?

• Private-sector self-management is possible, if narrowly chartered

• Global consensus on policy is difficult to define; even harder to achieve
  – Consensus is a tradition in the technical community in which ICANN is rooted, because you can test solutions & refer to objective data
  – Consensus on policy questions can be elusive, because it depends upon subjective values
Message to You:

(and to all Internet communities)

GET INVOLVED!!!

Consensus means you have to show up to be heard.

www.icann.org
For Further Information:

Andrew McLaughlin
<ajm@icann.org>

http://www.icann.org