Address Supporting Organization
- towards global address policy -

13 July, 2000
Takashi Arano
Vice Chair, Address Council
(NTT Communications)
Internet Resources

- Domain Names
- Protocol Numbers
- IP Addresses
  - IPv4, IPv6
- AS Numbers
- DNS inverse lookup
  - .in-addr.arpa, ip6.int
5 Conflicting Goals of Address Policy

- Uniqueness
- Registration
- Aggregation
- Conservation
- Fairness

- in the APNIC policy documents
Address Policy Scheme

Current Scheme is ...

- Each registry serves for a certain region
  - non profit organization
  - only one registry for one geographical region

Hierarchical Registries Structure
- A registry is responsible for the whole area
- The upper one checks performance of the lowers.

Registry allocates addresses based on demonstrated needs

This is only one feasible way...
Registry Hierarchy

RIR: Regional IR
NIR: National IR
LIR: Local IR

RIR: IANA, ICANN
NIR: APNIC, ARIN, RIPE/NCC, LACNIC, AFRINIC
LIR: ISPs, RIRs, NIRs, LIRs
Like Domain Names...

- If registry function were open for any profit organizations...
  - Difficult to achieve fairness and conservation
- If dispute policy were employed for fairness...
  - Dispute for the amount of addresses justified
  - Technically complicated and practically impossible
- If new spaces were provided...
  - Yes, it’s a reasonable solution!
  - Actually RIRs started IPv6 allocation services, but practically speaking, transition is not so easy.
Issues

- One Consistent Global Policy
  - Regional policy are almost same but not consistent in certain points
- Open and Transparent Decision Processes
  - Policy development from various aspects, not only registries’ view
- Legal background of Address allocations
  → ICANN ASO
ASO Background

ICANN

Signing MoU about ASO

RIRs

MoU

Purpose and Scope of ASO
Composition of ASO
Duties of the Address Council
Annual Open Meeting (General Assembly)
Relationship between individual RIRs and ICANN
Appointments of ICANN directors
Min. Req. of new RIRs
ASO History

❖ 1999-07  RIRs submitted a draft of MoU to ICANN
❖ 1999-08-26  ICANN accepted proposal
❖ 1999-10-18  MoU Signed
❖ 1999-10-19  Complete address council selected
❖ 1999-10-25  AC phone conf. Selection of Directors
❖ 1999-11-02  AC open meeting
❖ 2000-05-19  the first ASO General Assembly at Budapest
ASO Structure

- Address Council (AC)
  - 3 from each RIR (currently 9 members)
  - 1 observer from each emerging RIR

- General Assembly
  - AC holds GA more than once a year
  - Open for everyone

- Secretariat
  - RIR takes this duty one after the other in one year term
Address Council’s Role

- **Advisory Role**
  - advise the ICANN Board on matters about addresses

- **Policy Development**
  - global policy (v4, v6, AS, reverse lookup of DNS, etc...)

- **Appointment of three ICANN Board of Directors**
## AC appointments to the board

<table>
<thead>
<tr>
<th>Name</th>
<th>Term (years)</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rob Blokzijl</td>
<td>3</td>
<td>Europe</td>
</tr>
<tr>
<td>Ken Fockler</td>
<td>2</td>
<td>Americas</td>
</tr>
<tr>
<td>Pindar Wong</td>
<td>1</td>
<td>Asia Pacific</td>
</tr>
</tbody>
</table>

A new board member replacing Pindar Wong is being elected now.
How to elect Address Council

- Each RIR selects 3 persons in an open and transparent way.
- 3 year term (Initially 1, 2 and 3 years)
## Address Council members

<table>
<thead>
<tr>
<th>Name</th>
<th>Term (years)</th>
<th>Appointed by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Takashi Arano, VC</td>
<td>3</td>
<td>APNIC region</td>
</tr>
<tr>
<td>Jianping Wu</td>
<td>2</td>
<td>APNIC region</td>
</tr>
<tr>
<td>Hyun Je Park</td>
<td>1</td>
<td>APNIC region</td>
</tr>
<tr>
<td>Cathy Wittbrot, VC</td>
<td>3</td>
<td>ARIN region</td>
</tr>
<tr>
<td>Dave Meyer</td>
<td>2</td>
<td>ARIN region</td>
</tr>
<tr>
<td>Raimundo Beca</td>
<td>1</td>
<td>ARIN region</td>
</tr>
<tr>
<td>Wilfried Woeber</td>
<td>3</td>
<td>RIPE region</td>
</tr>
<tr>
<td>Hans Petter Holen, C</td>
<td>2</td>
<td>RIPE region</td>
</tr>
<tr>
<td>Sabine Jaume</td>
<td>1</td>
<td>RIPE region</td>
</tr>
</tbody>
</table>
Current Issues

- Emerging RIR Criteria
- Address block delegation from ICANN
- Global Address Policy
- ASO Internal Issues
Emerging RIR Criteria

- AfriNIC and LACNIC is almost ready
- Not intended for strict rules of emerging RIR
- Intended to help the ICANN board recognize emerging RIRs
- Not intended for requirements to the current RIRs. But current RIRs are implicitly supposed to satisfy these requirements

- Draft process so far
  - ver. 0.1  1999-12-22
  - ver. 0.2  2000-3-4
  - ver. 0.3  2000-??
  - Now it’s the final stage.
Criteria

- Region of Coverage
  - Fragmentation or Competition is not desirable in one region

- Community Support
  - Needs consensus for the whole regional support

- Bottom-up Self Governance

- Neutrality and Impartiality

- Technical Expertise

- Adherence to Global Policies

- Activity Plan

- Funding Model

- Record Keeping

- Confidentiality
Address block delegation from IANA

- Who is eligible for address allocations?
  - Currently drafted and being discussed
  - Basically Only RIRs.
  - Experimental purposes?

- How does IANA delegate address blocks to RIRs?
  - Guideline needed
  - will be drafted soon.
Global Address Policy

- Assignment rules (RFC2050) Revision
- New policies
  - allocation policy
  - policy for each application such as CATV internet, web hosting, mobile network, etc.
- What is “consistency” with local rules??
- IPv6 Address Policy development
IPv6 Address Policy

- Current policy does not define some points such as end user assignment yet.
- After gaining more experiments, we will discuss and revise policies.
ASO Internal Issues

- internal procedure drafted
  - Decision making was sometimes ad-hoc and sometimes delayed because procedure was not clear
- Monthly tele-conference
- E-voting
Requests: Board ICANN
- Public
- RIRs
- Individual
- AC members

......

**TICKET OPEN & ACKNOWLEDGMENT SENT TO SENDER** (2 days by the chair)
+ AC-COORD LIST

1. AC discussion on FEASIBILITY & CLASSIFICATION
   - NO
     - TICKET CLOSE to sender (2 days by the chair)
   - YES
     - ADMIN - POLICY - RECOMMENDATION - OTHER (?)
       - ASO DISCUSSION
         - Impact on @
           - No impact on @
             - AC vote

2. PROCESS
   (minimum 90 days)
   - RIRs
     - TICKET CLOSE to sender

3. « REGIONAL »
   - APPROPRIATE OPEN + OTHER REGIONS
     - NOTIFICATION
     -OUT COME (TICKET CLOSED ?)

4. « GLOBAL »
   - RIRs Discussion With AC
     - Public comment (30 days)
       - (ASO & RIRs end information out to any concerned list)

AC asks for further developments

COMPILATE RESULTS By the AC

RESPONSE TO SENDER (SO?) AND ICANN BOARD

Imput from EXPERTS or WG
Summary

Unlike domain name’s case, it is practical and feasible for non-profit and independent registries to allocate address for the divided area.

ASO was created for global policy development/coordination

ASO is still young and now developing its own internal framework and tackling with some urgent issues.
More Information

- ASO Web Page
  - [http://www.aso.icann.org/](http://www.aso.icann.org/)

- Mailing Lists
  - [aso-announce@aso.icann.org](mailto:aso-announce@aso.icann.org)
  - [aso-policy@aso.icann.org](mailto:aso-policy@aso.icann.org)
  - [aso-comment@aso.icann.org](mailto:aso-comment@aso.icann.org)
  - [http://www.aso.icann.org/lists/](http://www.aso.icann.org/lists/)