

# Internet Governance and India

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# Issue list

## (1) IP Addresses

IPv4

IPv6

## (2) Domain Names

ccTLD

(new) gTLD

Multilingual TLD

## (3) Outreach and Awareness

At-Large Members

## (4) ICANN Board Director

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# 1. Who own and control the Internet ?

Domain Name (gTLD, ccTLD)

IP Address (Class A, B, C, D, E )

Protocol & Parameter (RFC, ....)

Root Server (Dot, 12 Copies)

BIND

# 1.1 Domain Names

7 generic Top Level Domain Names (gTLD)

.com, .net, .org

.gov, .mil, .int, .edu

243 country code Top Level Domain Names(ccTLD)

.kr, .us , .....

## 1.2 IP Address(IPv4)

32 Bit (Prefix for site and suffix for Interface)

	Prefix	Suffix
Class A	0	
Class B	10	
Class C	110	
Class D	1110	
Class E	1111	

Network Address Translation (NAT)

IPv6

# 1.3 Protocol & Parameter

Request for Comments (RFC)

IETF/IESG/IAB

# 1.4 Root Server

Dot  
(A) ICANN(IANA) / NSI/DoC

12 Copies :  
(B~M) 9/USA  
2/Europe  
1/Asia



## 1.5 BIND

Internet Software Consortium (ISC) / Nominum

## 2. History

### 1970s

Arpanet

IANA (Internet Assigned Number Authority)

RFC (Request for Comment)

### 1980s

NSF / US Government

Domain Names

### 1990s

Commercial Service

Internationalization

NICs

TLDs

Root Servers

ICANN (Internet Corp. of Assigned Names and Numbers)

### 3. gTLD Addition Attempt

International Ad Hoc Committee (IAHC)

Internet Society / WIPO / ITU / ...

→ POC / CORE / PAB

5 new gTLD proposal

(.store, .info, .firm, .web, .nom)

# 4. Government Initiatives

## 4.1 US Government

Ira Magaziner / White House

Becky Burr / NTIA-DOC

1997                      Global E-Commerce

1998. 2                    Green Paper

1998. 6                    White Paper

1998. 10                  ICANN Board

1998. 11                  ICANN Bylaws

Agreement with US Government(NTIA/DOC)

## 4.2 European Union

Several DGs(DG13,...)

Privacy

Anti-monopoly

E-Commerce

Security

## 4.3 Others

ITU

gTLD-MoU

WIPO

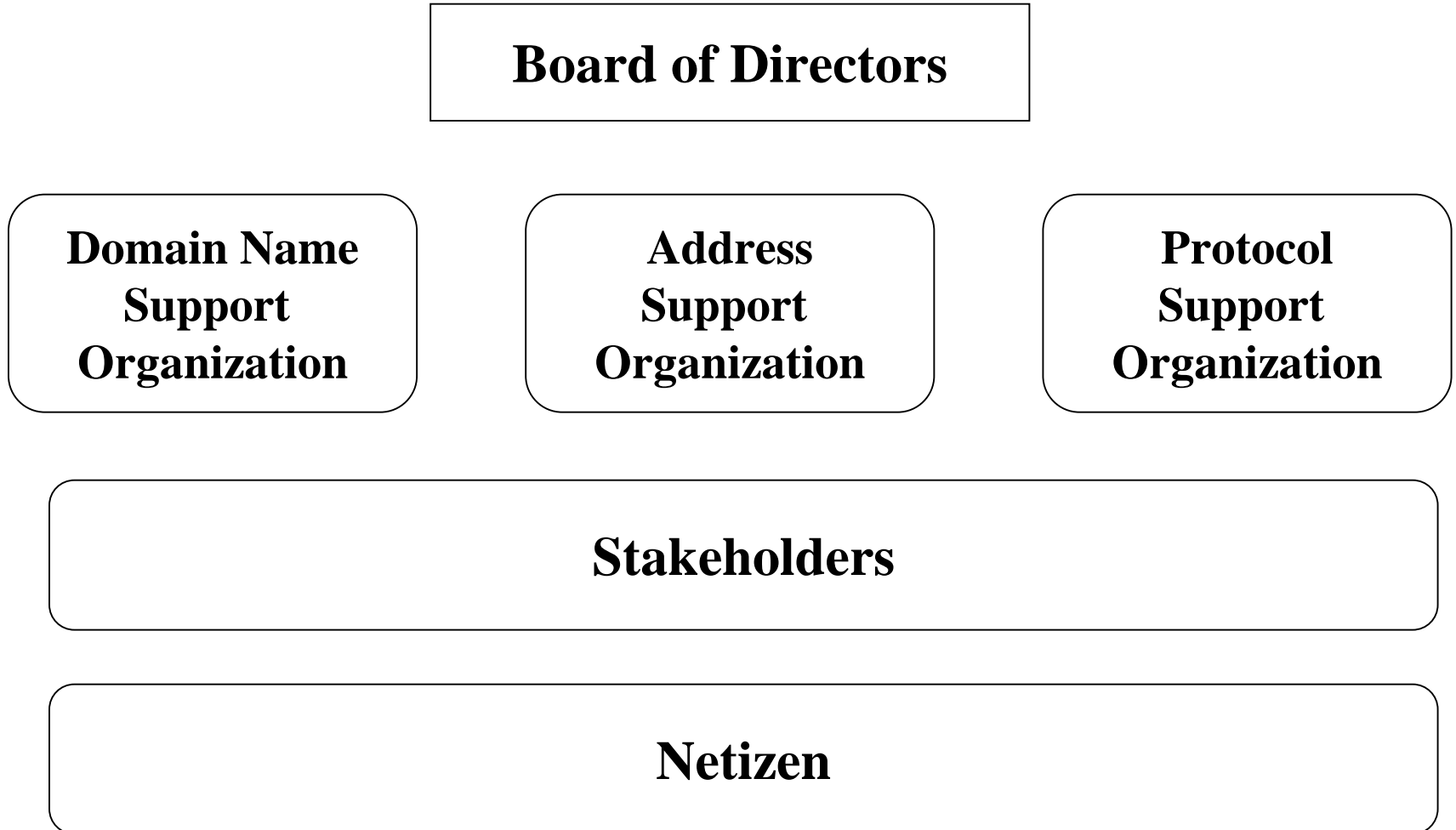
RFC

Canada

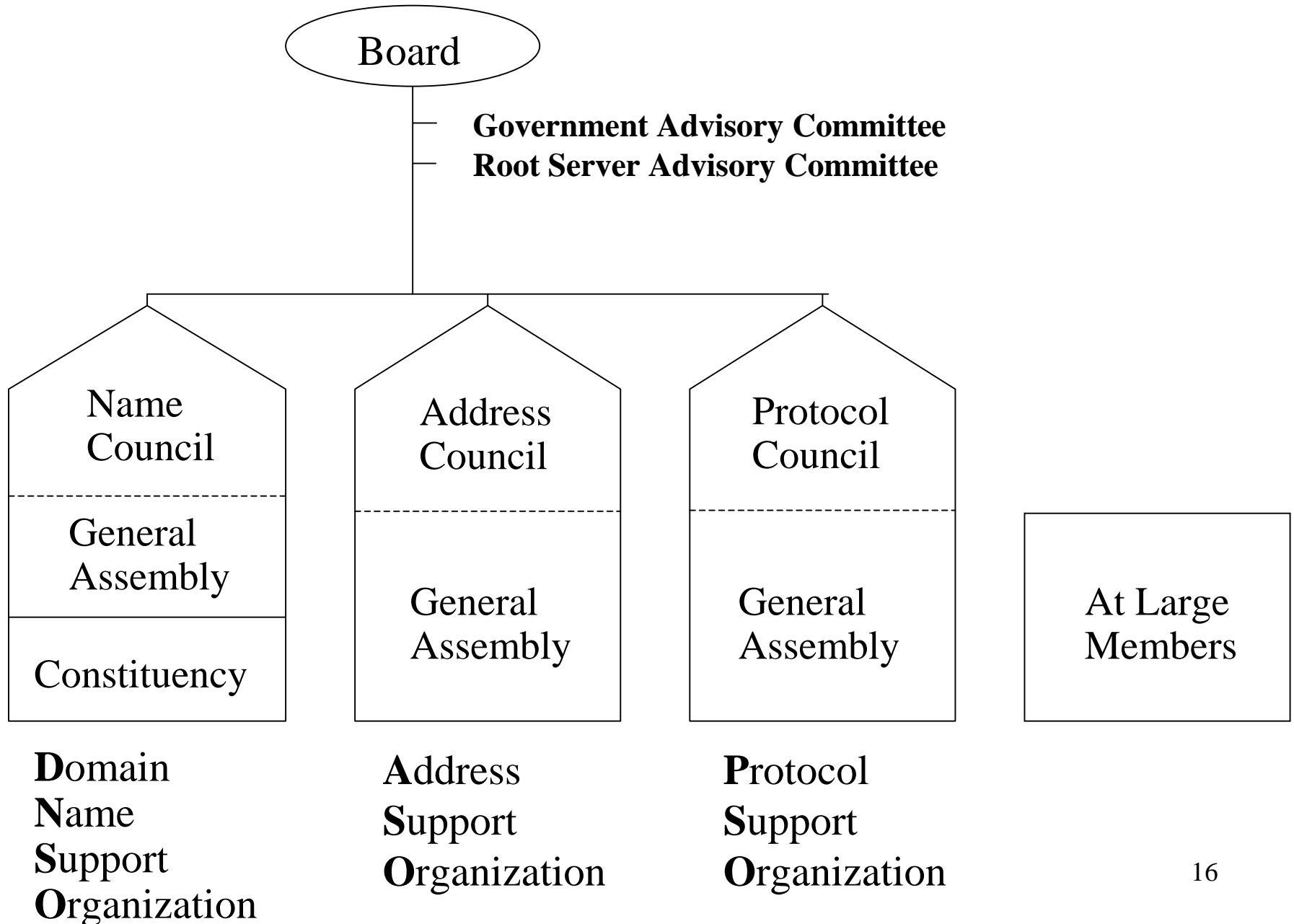
E-Commerce

# 5. Internet Corporation of Name & Numbers ( ICANN)

## 5.1 Generic Structure



## 5.2 ICANN Organization





# 5.3 ICANN Board and Committees

[www.icann.org](http://www.icann.org)

## Board Directors

3 from each Support Organization

9 from At Large Members

1 President (Appointed)

## Committees

Government Advisory Committee

(Independent Review Advisory Committee)

(Membership Advisory Committee)

Root Server Advisory Committee

## Meeting

1999.3.2 - 4 Singapore

5.25-27 Berlin

8.24-26 Santiago, Chile

11.1-4 Los Angeles

2000.3 Cairo

7.13-16 Yokohama

11.13-16 Los Angeles

## 6. Domain Name Support Organization(DNSO)

[www.dnsso.org](http://www.dnsso.org)

1998.10	Barcelona Meeting
1998.11	Monterrey Meeting
1999. 1	Washington Meeting
1999. 2	Paris Meeting
1999. 3	Singapore Meeting
1999. 3	ICANN Bylaws Modification to Accept SOs
1999. 5	DNSO Formation
	Names Council
	General Assembly
	7 Constituencies
1999.8 ~	3 Times a Year

# 6.1 7 Constituencies of DNSO

ccTLD

Commercial /Business

gTLD

Intellectual Property

ISP

Non-Commercial

Registrar

## 6.2 DNSO - Working Group and Committees

(WG - A Dispute Resolution Policy)

(WG - B Famous and Well-known)

WG - C New gTLD

WG - D Business Plan including

WG Procedure

(WG - E Global Awareness and Outreach)

# 7. Address Support Organization (ASO)

[www.ripe.net](http://www.ripe.net), [www.apnic.net](http://www.apnic.net), [www.arin.net](http://www.arin.net), [www.icann.org](http://www.icann.org)

Accepted in August 1999 with Regional Internet Registries (RIR) as Members.

APNIC, ARIN, RIPE NCC  
(AFNIC), (LACNIC)

First General Assembly in August 1999  
Second General Assembly in May 2000

## **8. Protocol Support Organization (PSO)**

Accepted in May 1999 with the following members.

IETF / IAB

ITU

W3C

ETSI

First General Assembly in July 1999

## 9. Issues

What is “governance” in the Internet ?

How to represent netizen?

How to internationalize the Internet?

How to keep the Internet in private sector?

What is role of governments?

What to do on future IP address requirement?

What to do on future domain name requirement?

How to handle intellectual property?

How to harmonize the Internet and e-commerce?

How to support multilingual domain names?

# 10. Reference

APTLD

[www.aptd.org](http://www.aptd.org)

APNIC

[www.apnic.net](http://www.apnic.net)

ARIN

[www.arin.net](http://www.arin.net)

ccTLD Constituency

[www.wwtld.org](http://www.wwtld.org)

Cyberlaw

[cyber.law.harvard.edu](http://cyber.law.harvard.edu)

DNSO

[www.dnsso.org](http://www.dnsso.org)

Domain Name Handbook

[www.domainhandbook.com](http://www.domainhandbook.com)

EFF

[www.eff.org](http://www.eff.org)

ICANN

[www.icann.org](http://www.icann.org)

ICANN WATCH

[www.icannwatch.org](http://www.icannwatch.org)

IETF

[www.ietf.org](http://www.ietf.org)

MINC

[www.minc.org](http://www.minc.org)

NTIA/US Government

[www.ntia.doc.gov](http://www.ntia.doc.gov)

RIPE

[www.ripe.net](http://www.ripe.net)