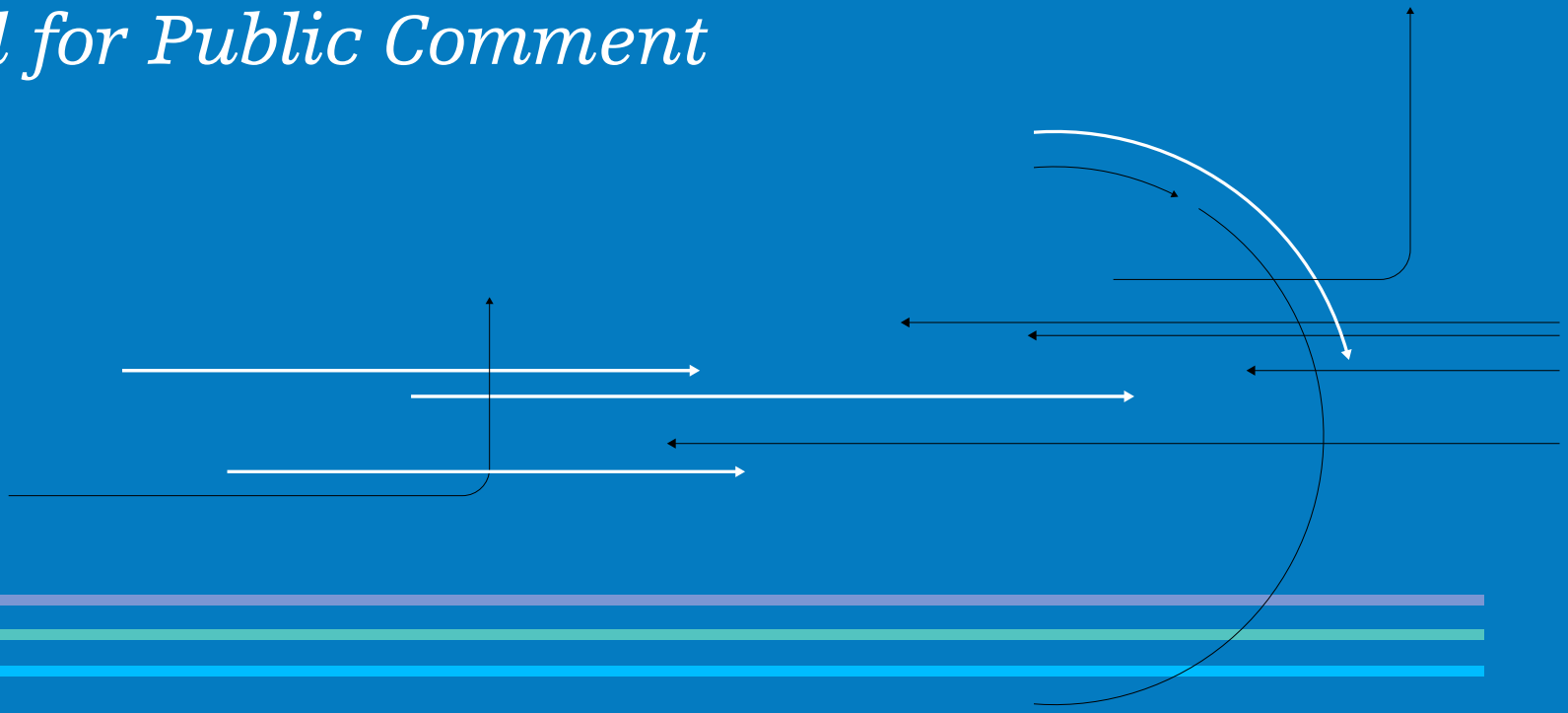
IANA STEWARDSHIP TRANSITION PROPOSAL

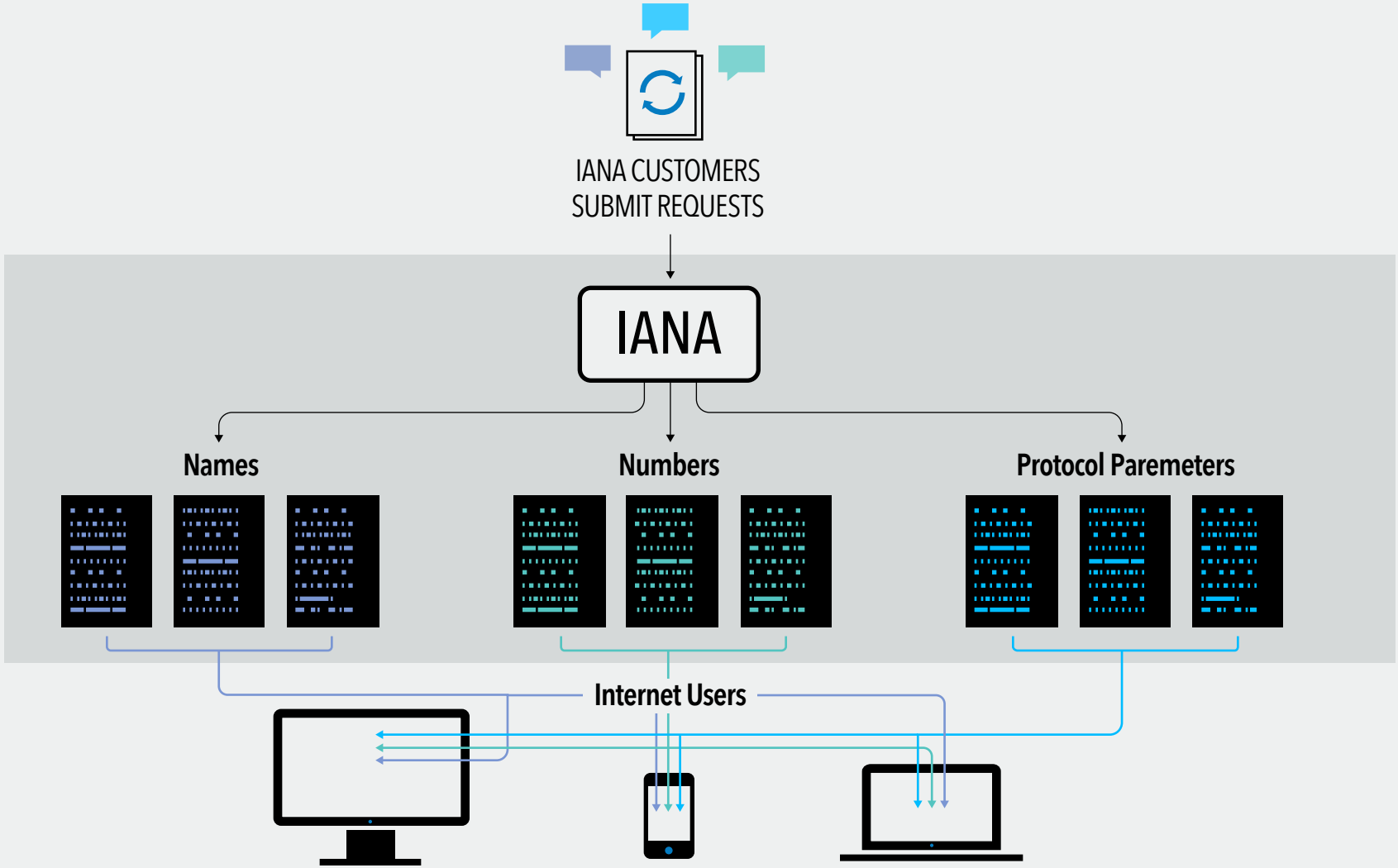
Call for Public Comment



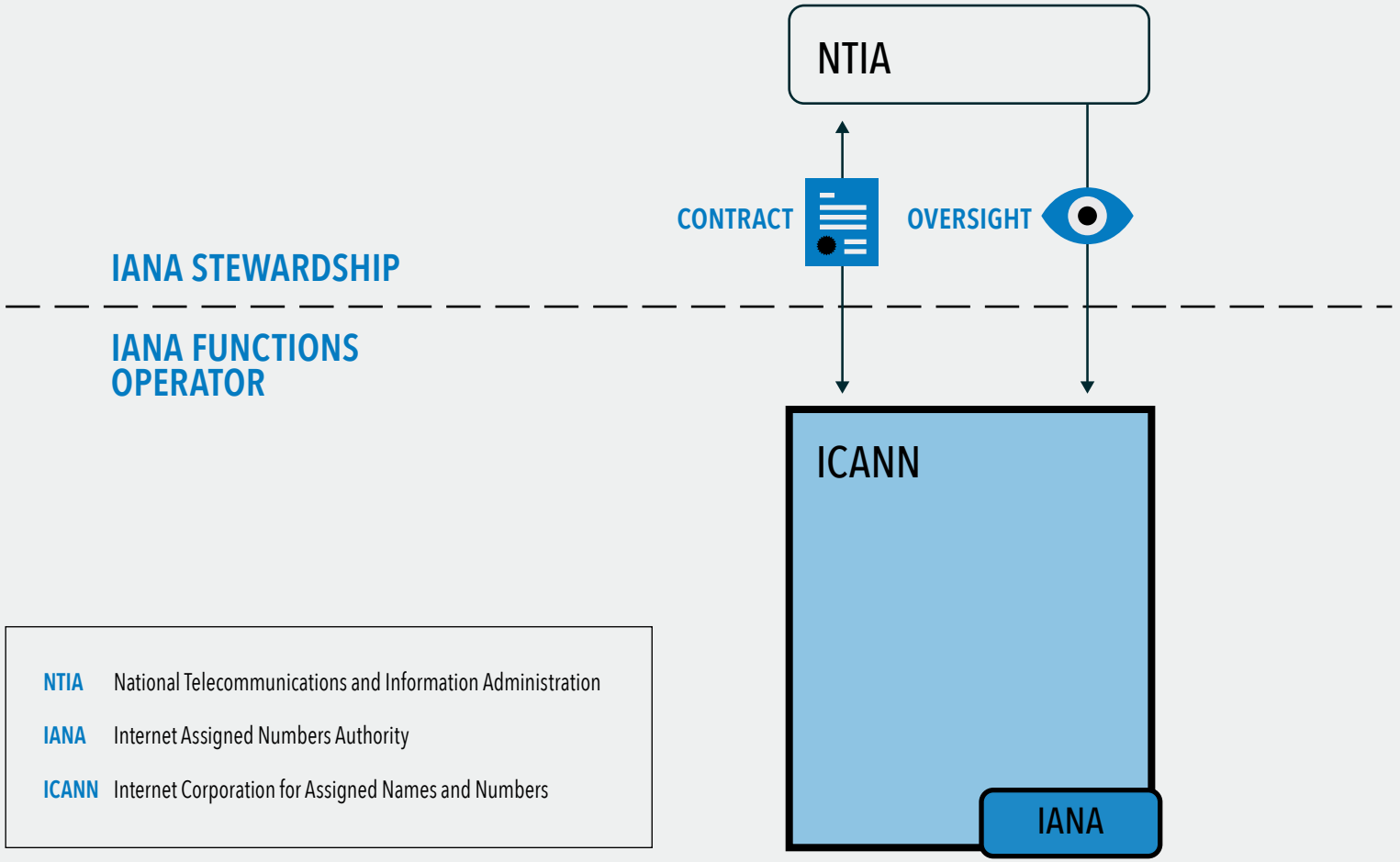
Agenda

- Overview: IANA and IANA stewardship transition
- Transition proposal
  - NAMES
  - NUMBERS
  - PROTOCOL PARAMETERS
- Questions for public comment
- How to submit comments
- Q&A

What are the IANA functions?



Roles of NTIA (US Government), ICANN, and IANA



NTIA	National Telecommunications and Information Administration
IANA	Internet Assigned Numbers Authority
ICANN	Internet Corporation for Assigned Names and Numbers

What is the IANA stewardship transition?

- **March 2014 –**
  NTIA announced transition of IANA stewardship
- Asked ICANN to convene a process to develop transition proposal

NTIA's Criteria

Support and enhance the multistakeholder model

Maintain the security, stability, and resiliency of the Internet Domain Name System (DNS)

Meet the needs and expectation of the global customers and partners of the IANA services

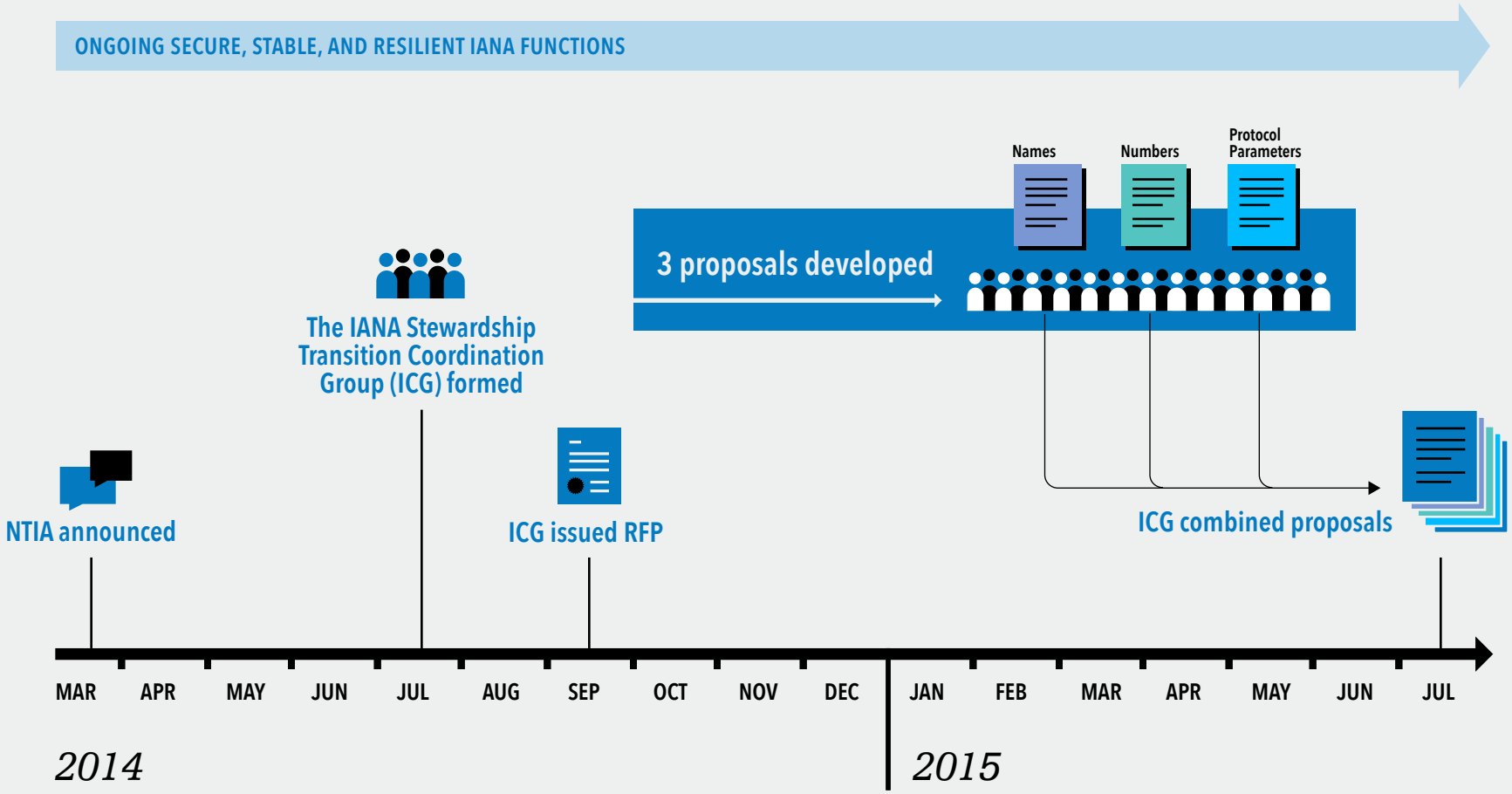
Maintain the openness of the Internet

NTIA's Expectations

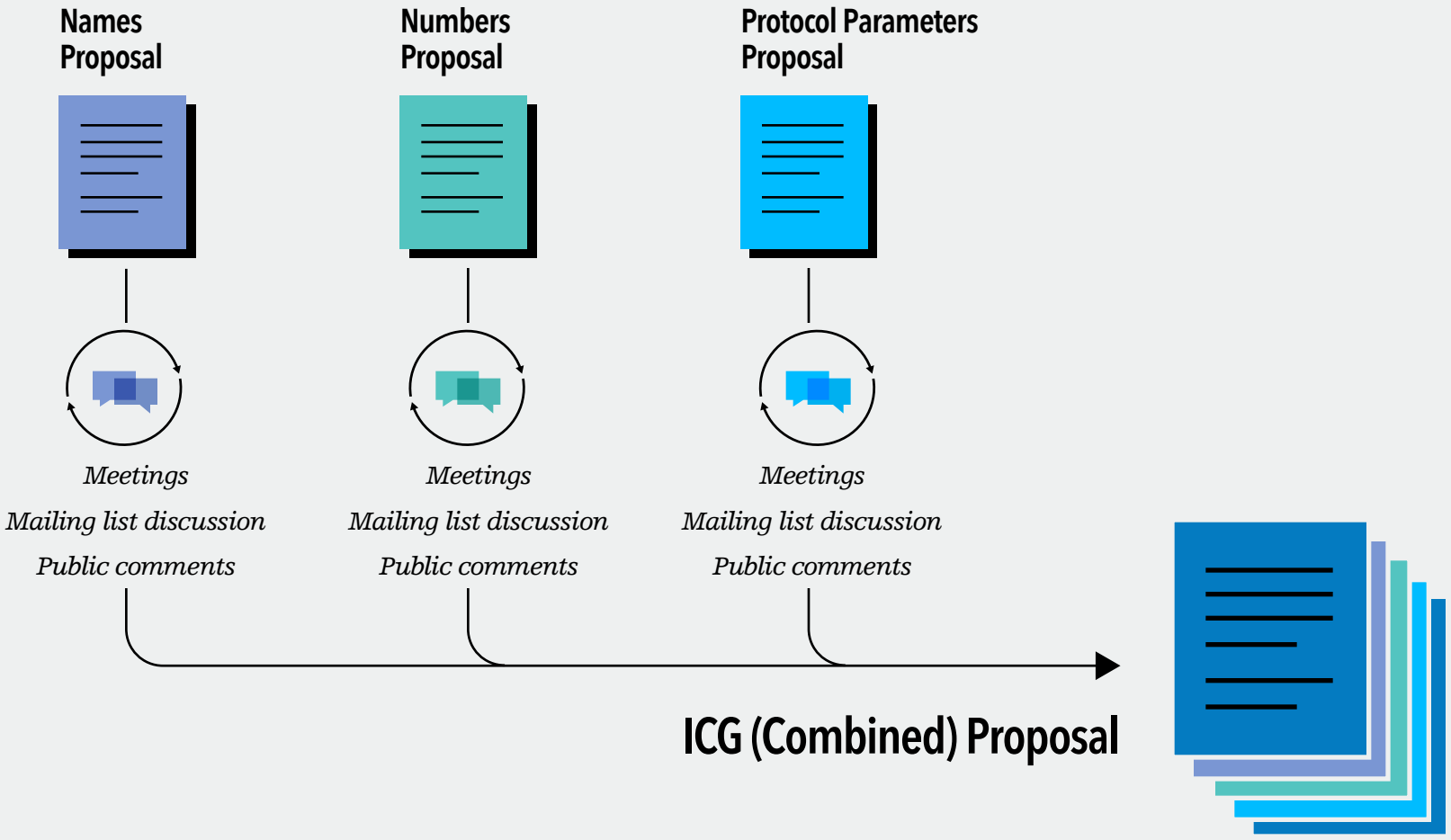
Broad community support

Does not replace NTIA role with a government-led or an inter-governmental organization solution

Transition proposal



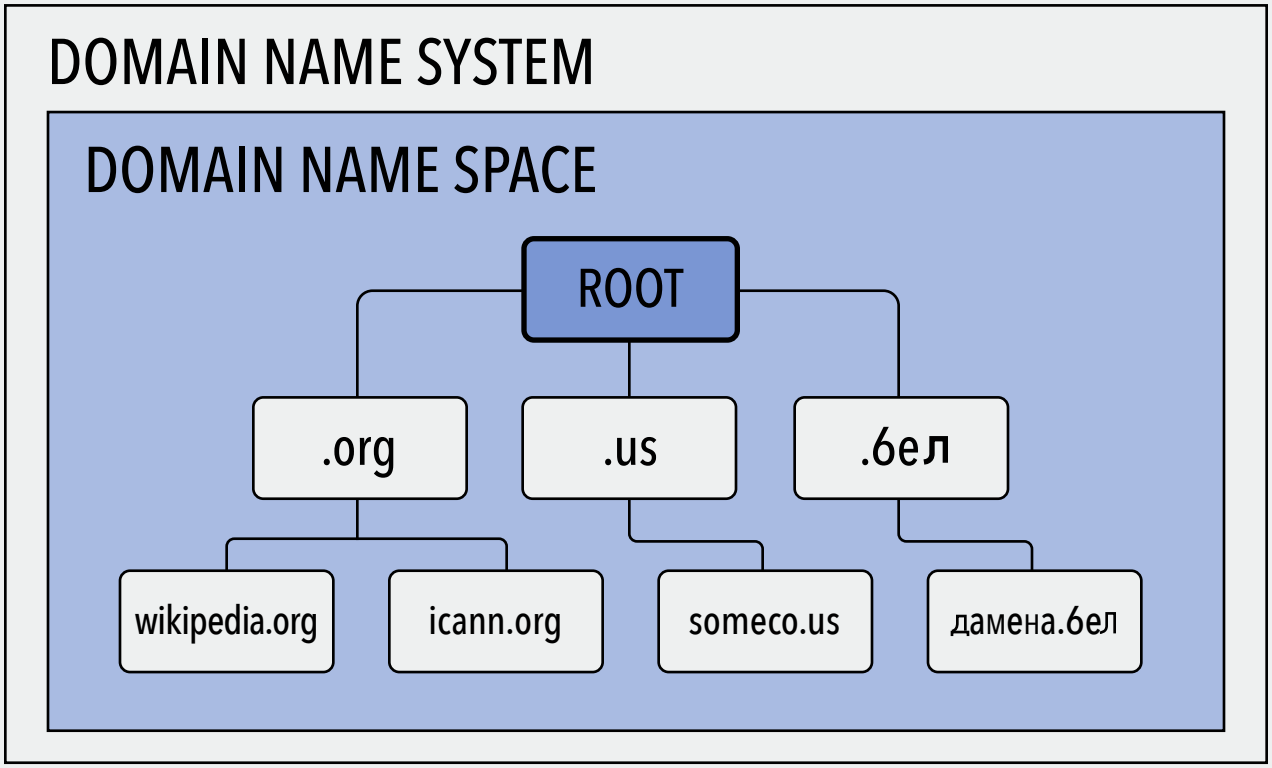
Public comment focused on proposal as a whole



Transition Proposal:

NAMES

What are the IANA functions related to names?



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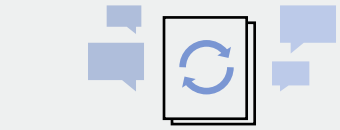


NAMES COMMUNITY MEMBERS SUBMIT REQUESTS

↓

IANA

↓

Names DNS Root Zone and WHOIS

REGISTRY ENTRY FOR .HAMBURG

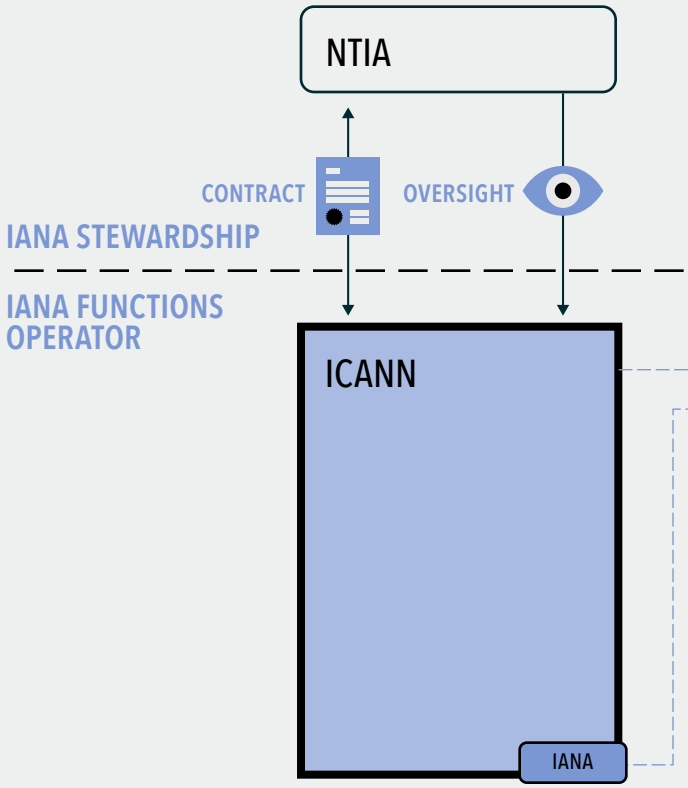
OPERATOR	**Hamburg Top Level Domain GmbH** Gertigstrasse 28, Hamburg, 22303 Germany
CONTACTS	**Oliver Joachim Sueme** Hamburg Top Level Domain GmbH Gertigstrasse 28, Hamburg, 22303 Germany Email: os@dothamburg.de Voice: +49 40 27806736 Fax: +49 40 380 89 810 **Martin Schlicksbier** TLD BOX Registrydienstleistungen Jakob Haringer Strasse 8 5020 Salzburg Austria Email: iana@tld box.at Voice: +43 662 2345 48730
TECHNICAL CONFIGURATION	NS a.dns.nic.hamburg (194.0.25.21 2001:678:20:0:0:0:0:21) NS b.dns.nic.hamburg (193.170.61.10 2001:62a:a:2000:0:0:0:10) NS c.dns.nic.hamburg (193.170.187.10 2001:62a:a:3000:0:0:0:10) DS 53866 8 2 AF2F53F6B523F31C04A741B3826D27CBAE16F4BA6F... DS 26479 8 1 1C9F5D68C413E8A9A2C8E1C1637B8A4DA2CA6827 DS 26479 8 2 4A48334EF87D7FC156E886E5A2B2682FCF0679ED6FC... DS 53866 8 1 D26808AE1E19086BCF5FC88D59066C3AD22F2E56
METADATA	http://www.dothamburg.de whois.nic.hamburg

What are the IANA functions related to names?

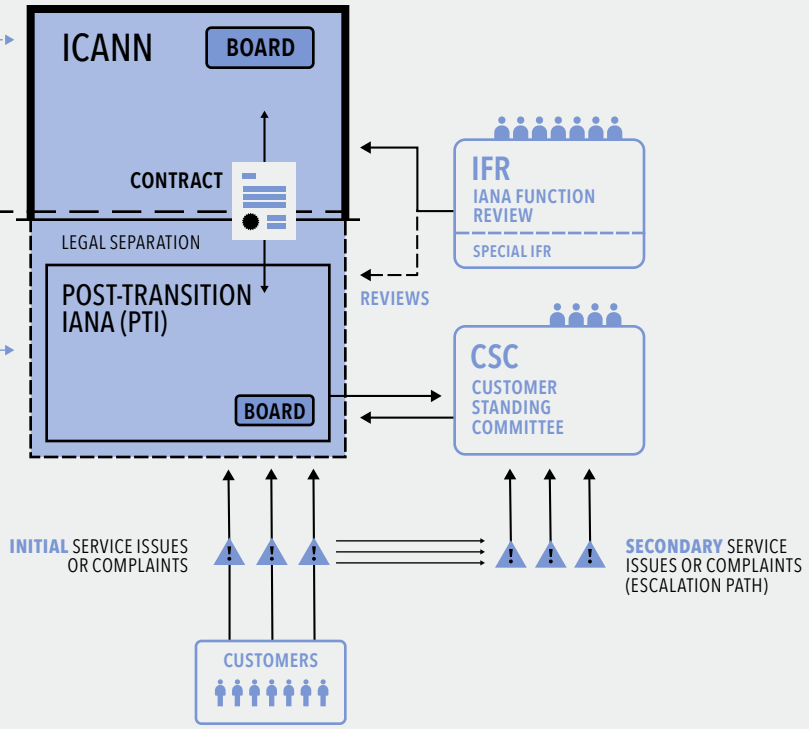
- Root Zone Change Request Management
- Root Zone WHOIS Change Request Management
- Delegation and Redelegation of TLDs
- Root DNSSEC Key Management
- Management of Repository of IDN Practices
- Other Root Zone related activities

Names proposal overview

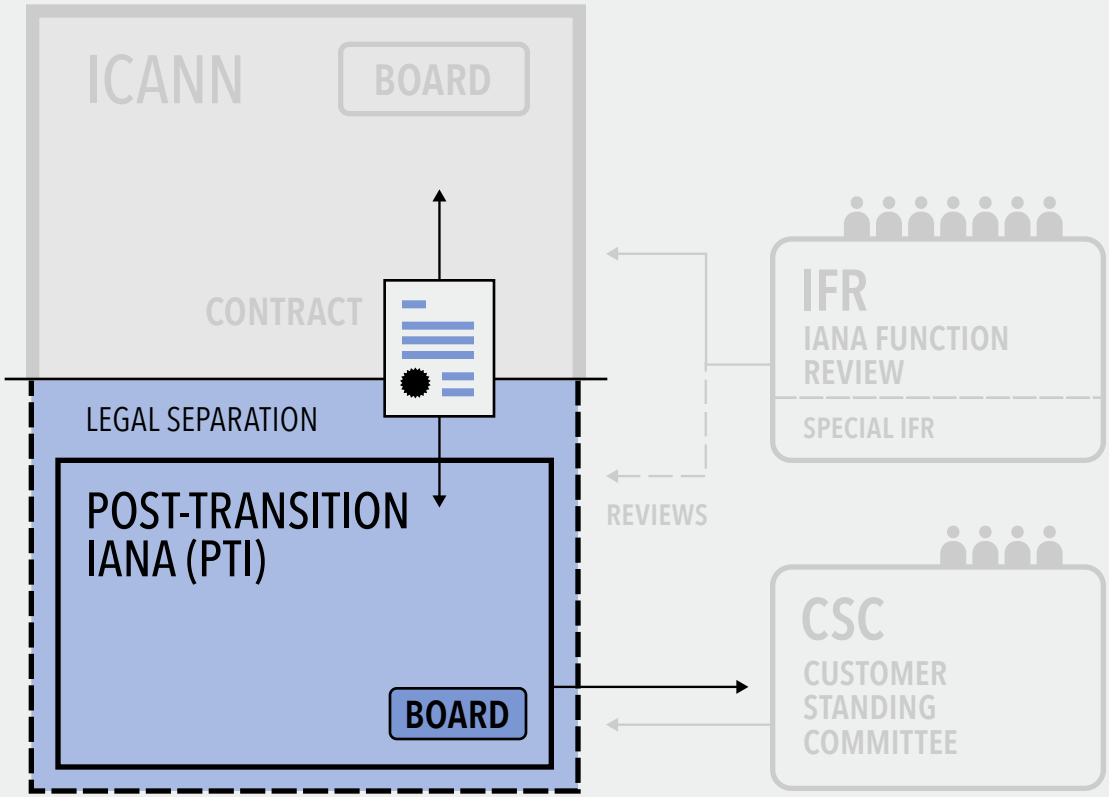
Current Contract



Post-transition



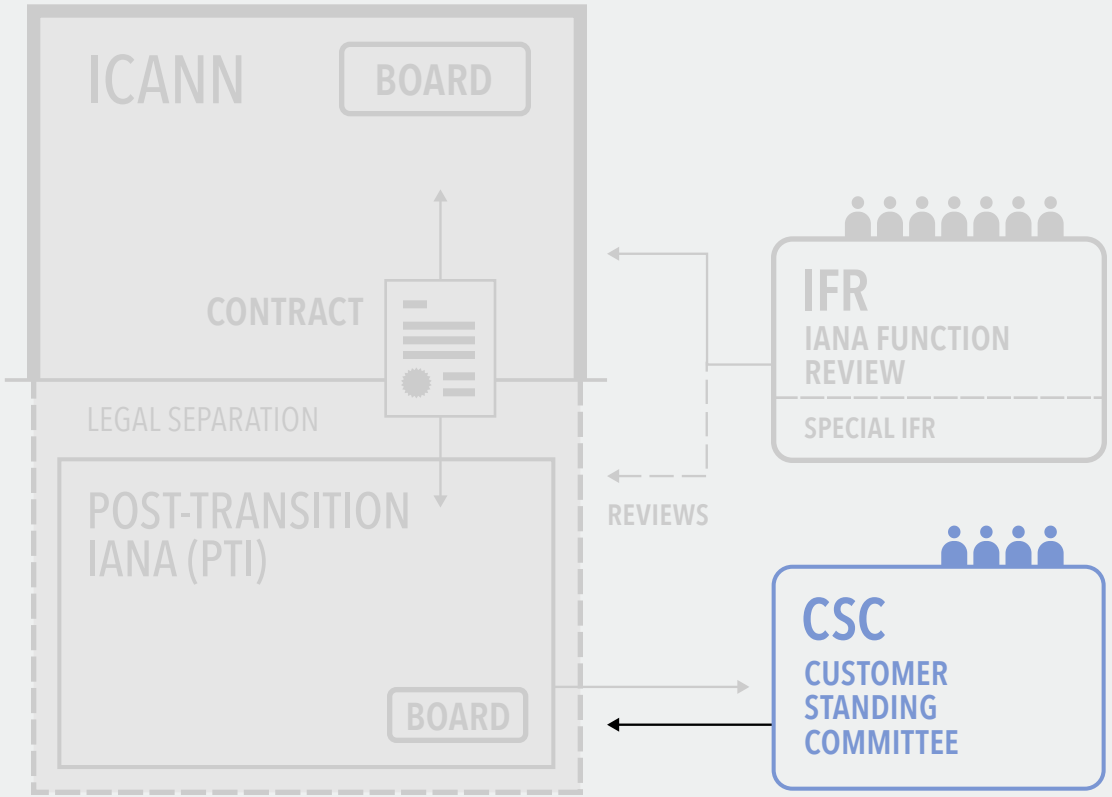
Post-transition IANA (PTI)



MISSION

Established to perform all the existing (pre-transition) IANA functions.

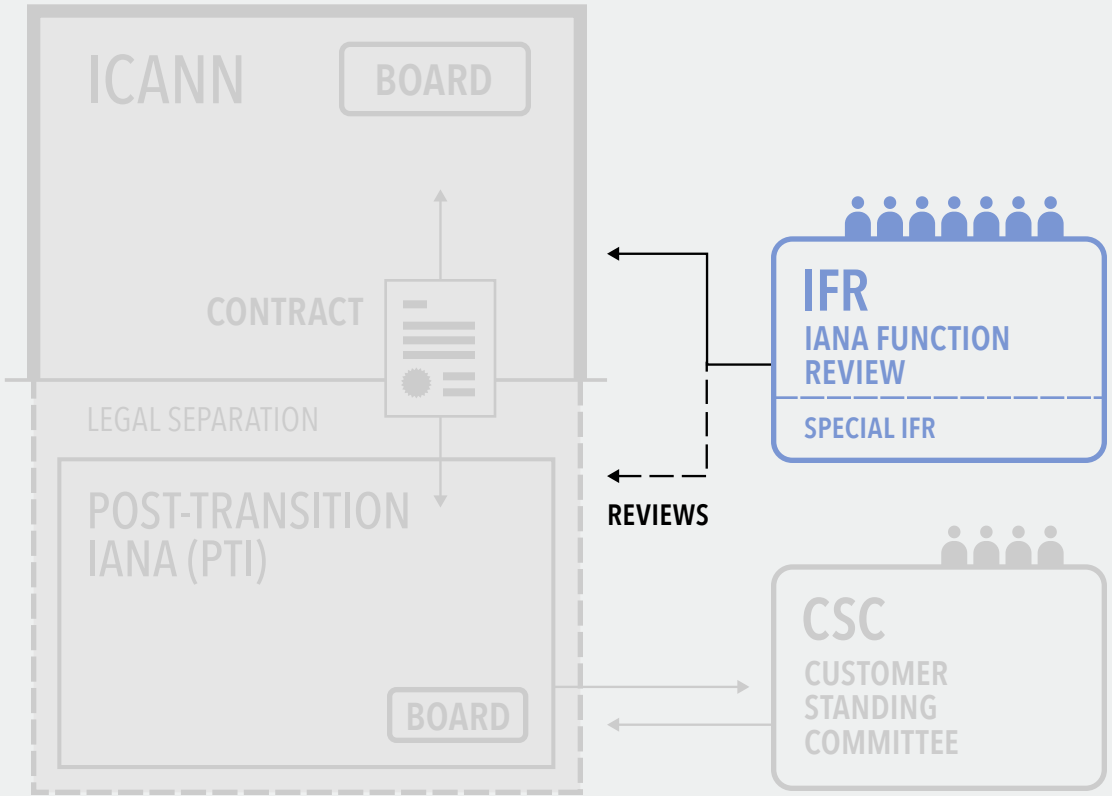
Customer Standing Committee (CSC)



MISSION

Established to ensure continued satisfactory performance of the IANA naming functions.

IANA Function Review (IFR)



MISSION

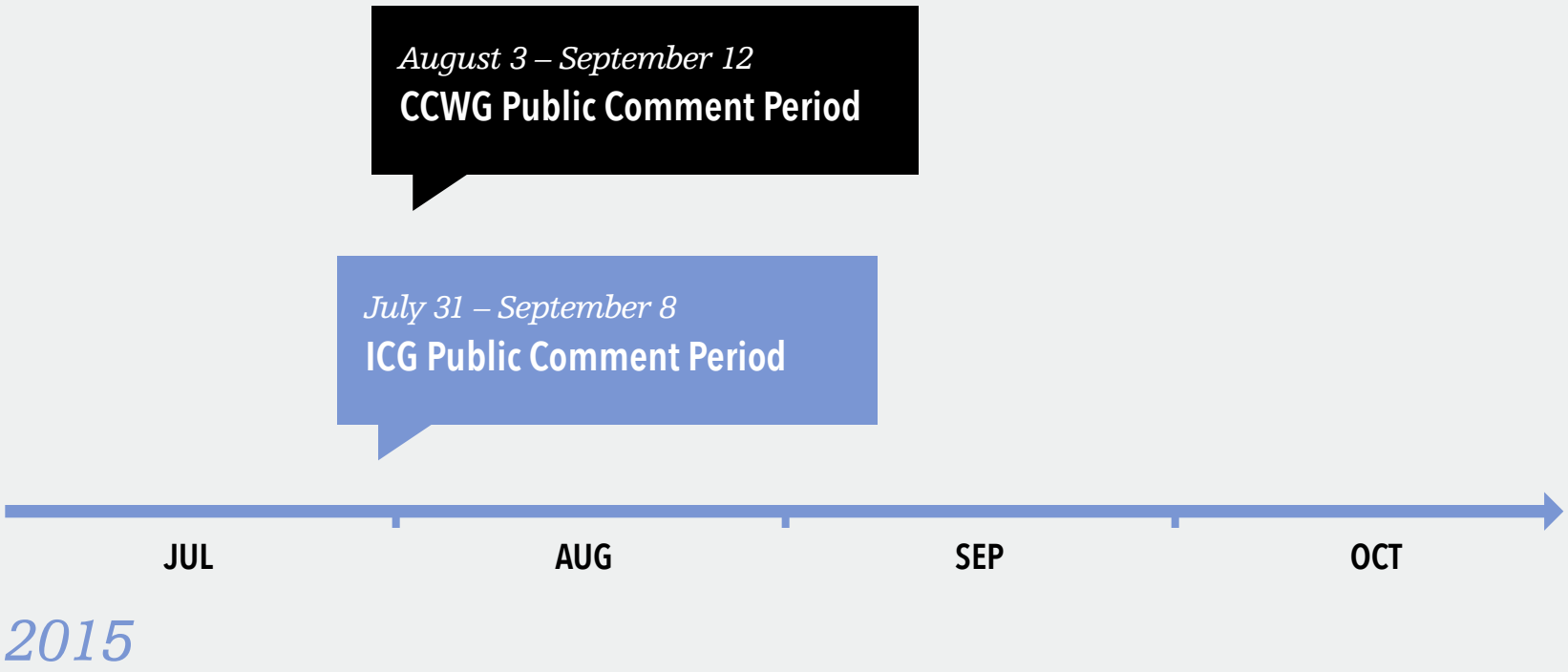
Established to provide periodic reviews of PTI's performance to ensure accountability and quality of service.

Dependencies on Enhancing ICANN Accountability

CCWG-Accountability Proposal

- Community rights regarding the development and consideration of the **ICANN budget**
- Community rights regarding the **ICANN Board**, specifically, the ability to appoint and remove members, and to recall the entire Board
- **IANA Function Review** incorporated into the ICANN bylaws
- **Customer Standing Committee** incorporated into the ICANN bylaws
- Empowerment of the Special IFR to determine that a **separation process** is necessary
- **Independent Review Panel** should be made applicable to IANA Functions and accessible by TLD managers
- All of the foregoing mechanisms are to be provided for in the ICANN bylaws as **"fundamental bylaws"**

Parallel public comment processes



Transition Proposal:

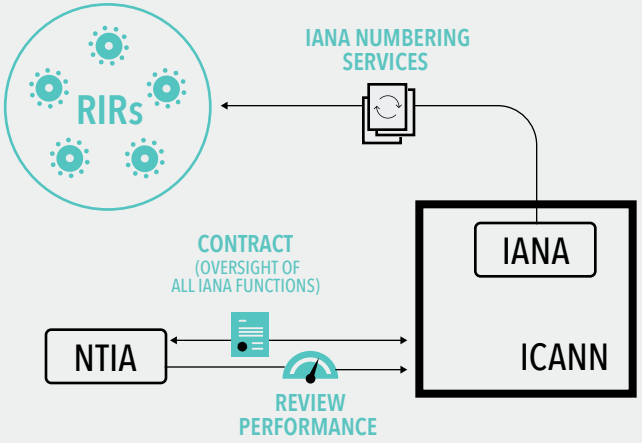
NUMBERS

What are the IANA functions related to numbers?

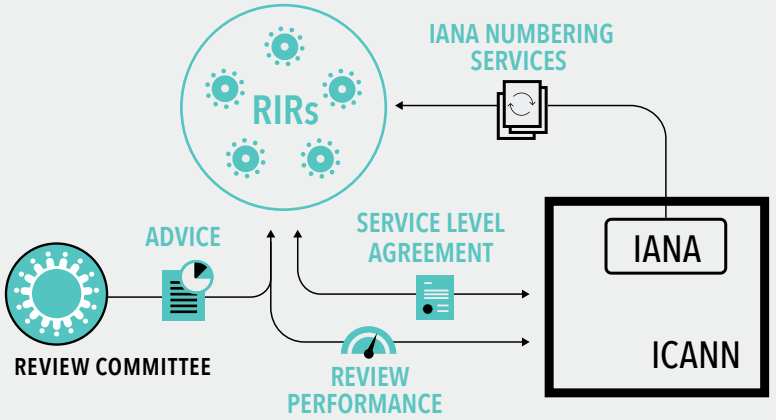
- The allocation of blocks of Internet Protocol (IP) and Autonomous System (AS) Numbers to the Regional Internet Registries (RIRs)
- The registration of such allocations in the IANA Number Registries
- Other related registry management tasks and the administration of the special-purpose DNS zones

Numbers proposal overview

Current



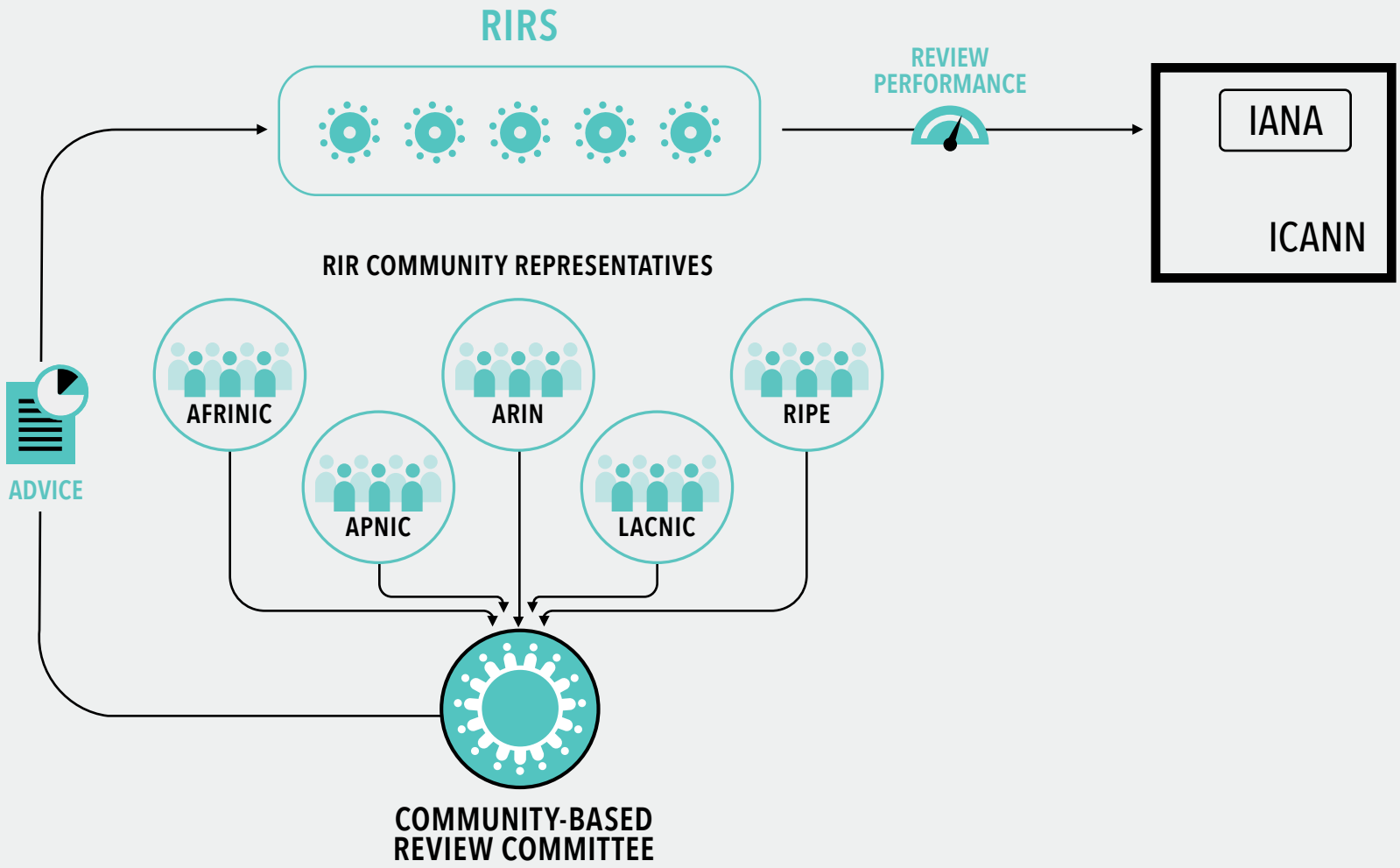
Post-transition



The RIRs have been very satisfied with the performance of ICANN in the role of the IANA Numbering Services Operator, and their communities have expressed a strong desire for stability and a minimum of operational change. The following proposals reflect these factors.

1. ICANN to continue as the IANA Functions Operator for the IANA Numbering Services via a Service Level Agreement (SLA) with the RIRs
2. The rights over any intellectual property related to provision of the IANA services should reside with the community
3. A Review Committee, with representatives from each RIR community, should be formed to advise the RIRs on the IANA functions operator's performance in meeting identified service levels

Review committee



Service level agreement principles

1. Separation of Policy Development and Operational Roles
2. Description of Services Provided to RIRs
3. Obligation to Issue Reports on Transparency and Accountability
4. Security, Performance, and Audit Requirements
5. Review of the IANA Operations
6. Failure to Perform
7. Term and Termination
8. Continuity of Operations
9. Intellectual Property Rights and Rights Over Data
10. Resolution of Disputes
11. Fee

Intellectual property

IT IS THE EXPECTATION THAT:

- The number resource registries are in the public domain
- Non-public information related to them be managed by the IANA operator, and transitioned to a successor if necessary
- Rights on non-public information related to them be transferred to the RIRs

IT IS THE PREFERENCE THAT:

- Ownership of the IANA trademark and domain be transferred to the IETF Trust
- All relevant parties agree to these expectations as part of the transition

	The IANA trademark
	The IANA.ORG domain name
	The public databases related to the performance of the IANA Numbering Services, including the IANA Numbers Registries

Transition Proposal:

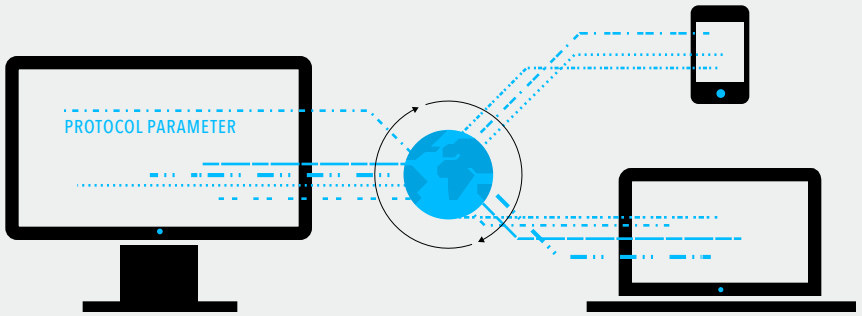
PROTOCOL PARAMETERS

What are the IANA functions related to protocol parameters?

Protocols: standardized patterns of communication that computers use on the Internet to be able to "talk" to each other. Examples: HTTP, IP

Protocol parameters: numbers or values that need to be chosen and published so that two computers using an Internet protocol to communicate can understand each other. Example: "404 Not Found" is an HTTP protocol parameter that computers use when a requested page is missing from a website.

Many of the most important protocols that make the Internet work were developed by the Internet Engineering Task Force (IETF).



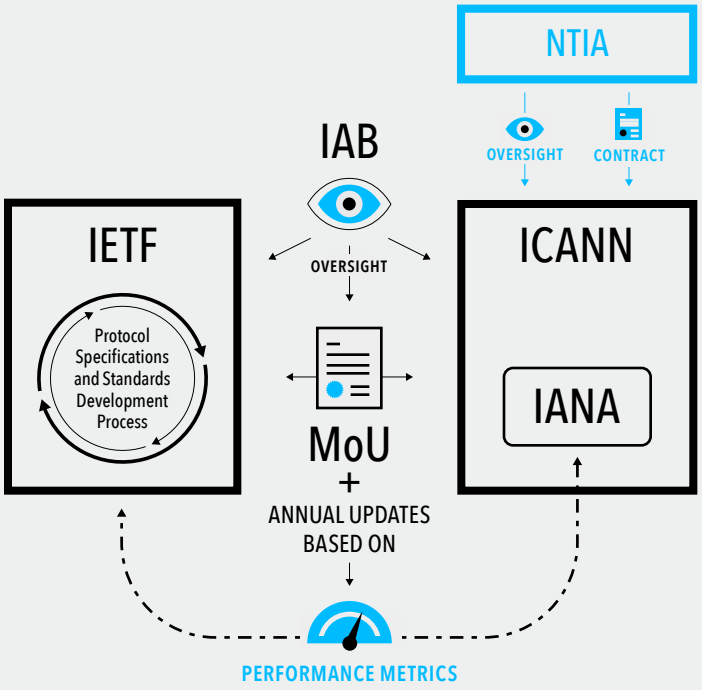
401	Unauthorized	[RFC7235, Section 3.1]
402	Payment Required	[RFC7231, Section 6.5.2]
403	Forbidden	[RFC7231, Section 6.5.3]
404	**Not Found**	**[RFC7231, Section 6.5.4]**
405	Method Not Allowed	[RFC7231, Section 6.5.5]
406	Not Acceptable	[RFC7231, Section 6.5.6]
407	Proxy Authentication Required	[RFC7235, Section 3.2]

The IETF protocol parameters are maintained in registries on the web. There are more than 10,000 protocol parameter registries containing hundreds of thousands of protocol parameters. The complete list can be found at: iana.org/protocols

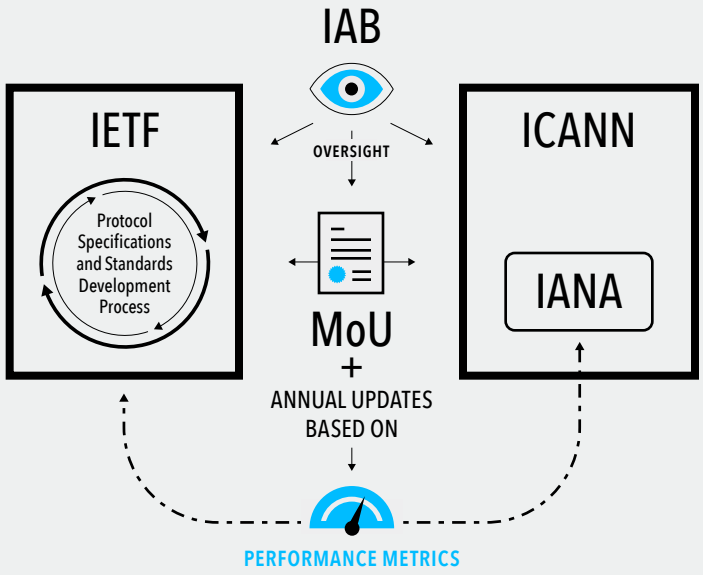
Unlike the DNS, which is referenced by computers in realtime, the protocol registries are referenced by people as needed for activities like writing software.

Protocol parameters proposal overview

Current Contract



Post-transition



IETF community expectations

The protocol parameters registries are in the public domain.

It is the preference of the IETF community that:

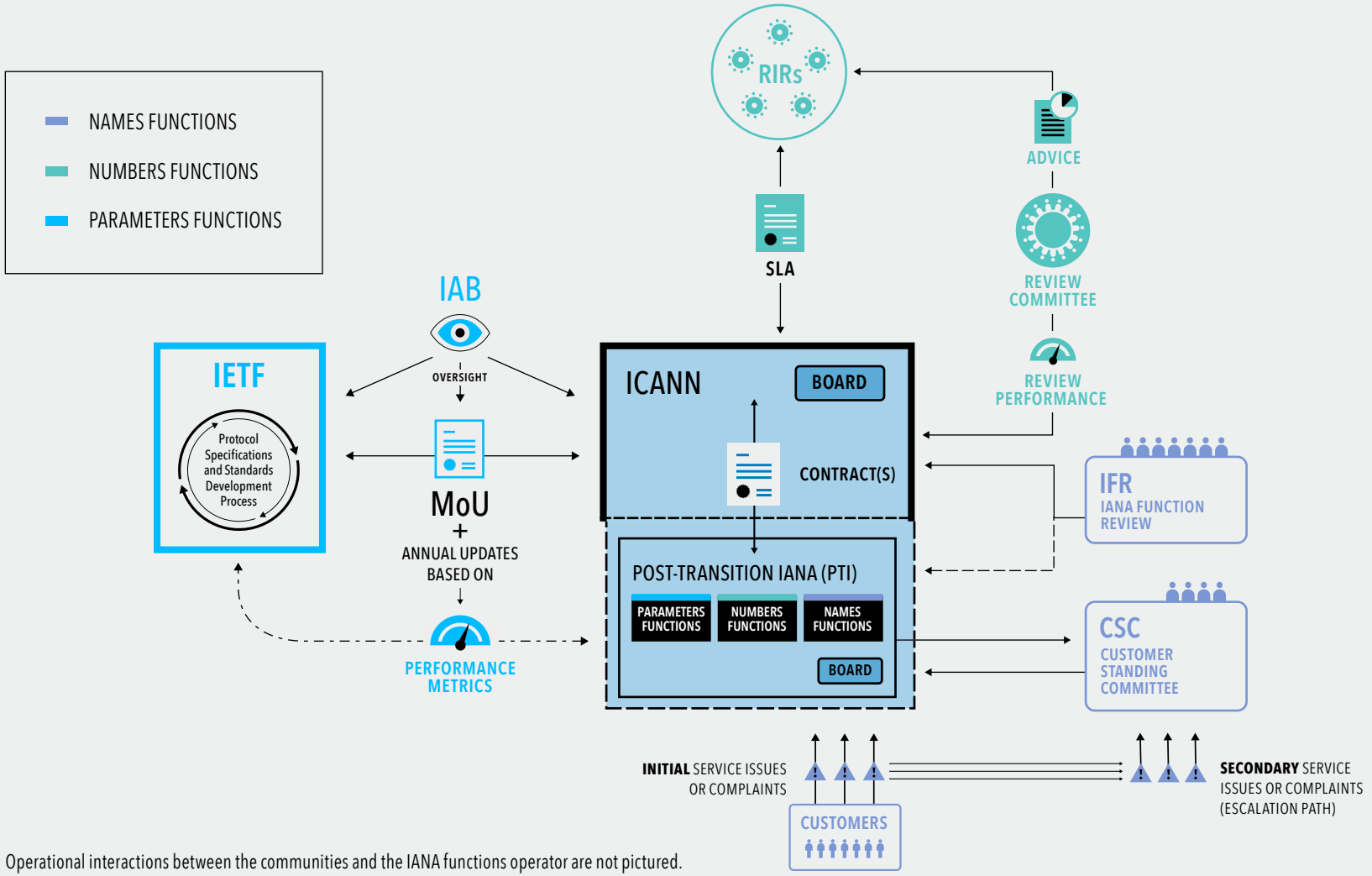
- All relevant parties acknowledge that fact
- If the operation of the protocol parameters registry operator changes at a later time, that all relevant parties will work together to ensure a smooth transition

400	Bad Request	[RFC7231, Section 6.5.1]
401	Unauthorized	[RFC7235, Section 3.1]
402	Payment Required	[RFC7231, Section 6.5.2]
403	Forbidden	[RFC7231, Section 6.5.3]
404	Not Found	[RFC7231, Section 6.5.4]
405	Method Not Allowed	[RFC7231, Section 6.5.5]
406	Not Acceptable	[RFC7231, Section 6.5.6]
407	Proxy Authentication Required	[RFC7235, Section 3.2]
408	Request Timeout	[RFC7231, Section 6.5.7]
409	Conflict	[RFC7231, Section 6.5.8]
410	Gone	[RFC7231, Section 6.5.9]

Sample of HTTP Status Codes from a protocol parameter registry

VISUAL SUMMARY

Oversight components in the combined proposal



Operational interactions between the communities and the IANA functions operator are not pictured.

QUESTIONS

for Public Comment

Questions about the proposal as a whole

- Is the combined proposal complete?
- Do the operational community proposals work together in a single proposal?
- Do the operational community proposals together include appropriate and properly supported independent accountability mechanisms for running the IANA functions?
- Do the results of any tests or evaluations of workability that were included in the operational community proposals conflict with each other or raise possible concerns when considered in combination?

Questions about the NTIA criteria

- Do you believe the proposal supports and enhances the multistakeholder model?
- Do you believe the proposal maintains the security, stability, and resiliency of the DNS?
- Do you believe the proposal meets the needs and expectations of the global customers and partners of the IANA services?
- Do you believe the proposal maintains the openness of the Internet?
- Do you have any concerns that the proposal is replacing NTIA's role with a government-led or inter-governmental organization solution?
- Do you believe that the implementation of the proposal will continue to uphold the NTIA criteria in the future?

How to submit comments

Public comment period:

July 31 to Sept 8

Public comment website:

comments.ianacg.org

Question? Email:

question-icg@ianacg.org

Q&A