IANA STEWARDSHIP TRANSITION UPDATE

Uganda IGF 2015
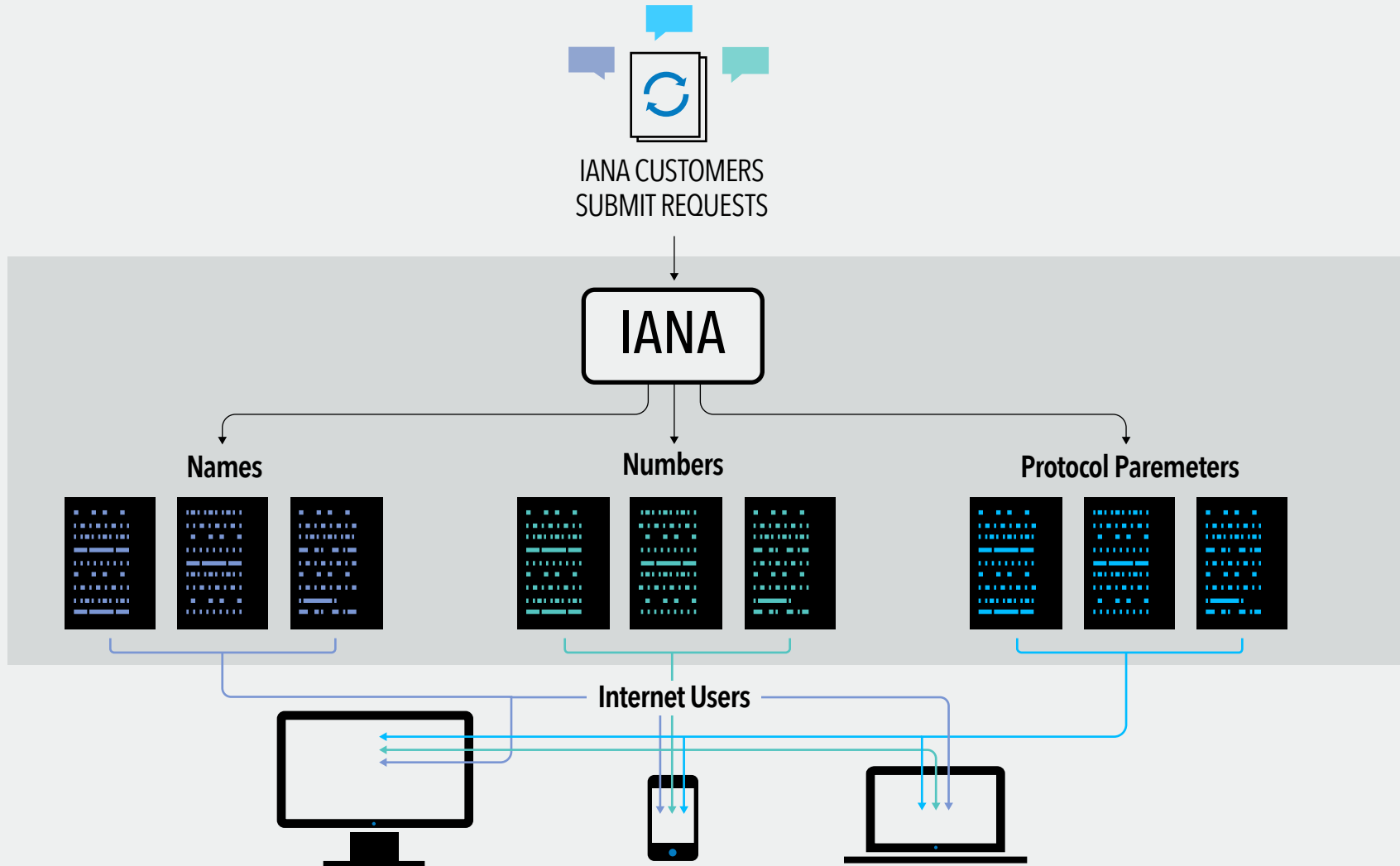
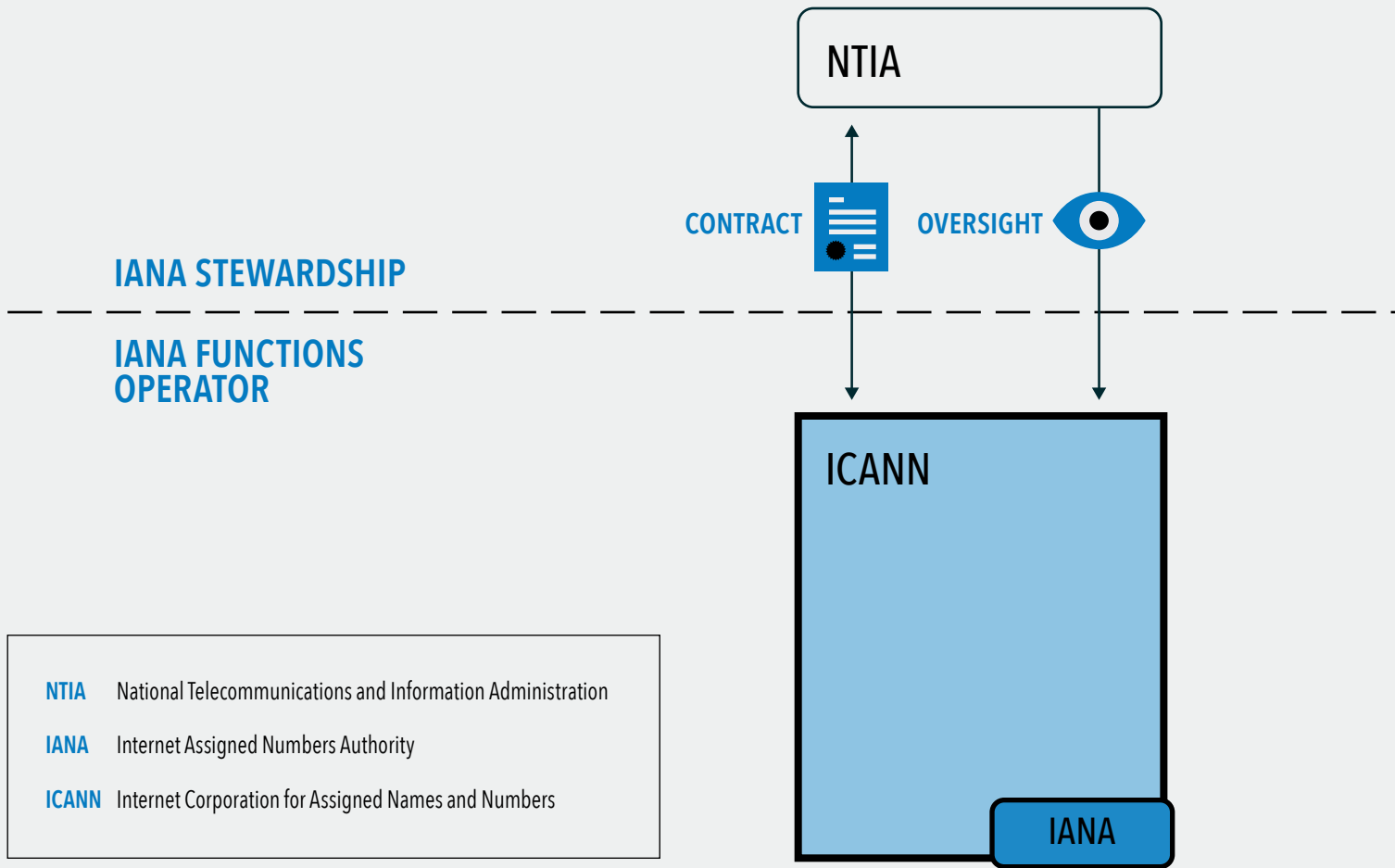*Douglas Onyango*

Agenda

- Overview: IANA and IANA stewardship transition

- Transition proposal

  - NAMES

  - NUMBERS

  - PROTOCOL PARAMETERS

- How to participate

- Q&A

What are the IANA functions?

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

NTIA

CONTRACT   OVERSIGHT

IANA STEWARDSHIP

IANA FUNCTIONS OPERATOR

ICANN

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
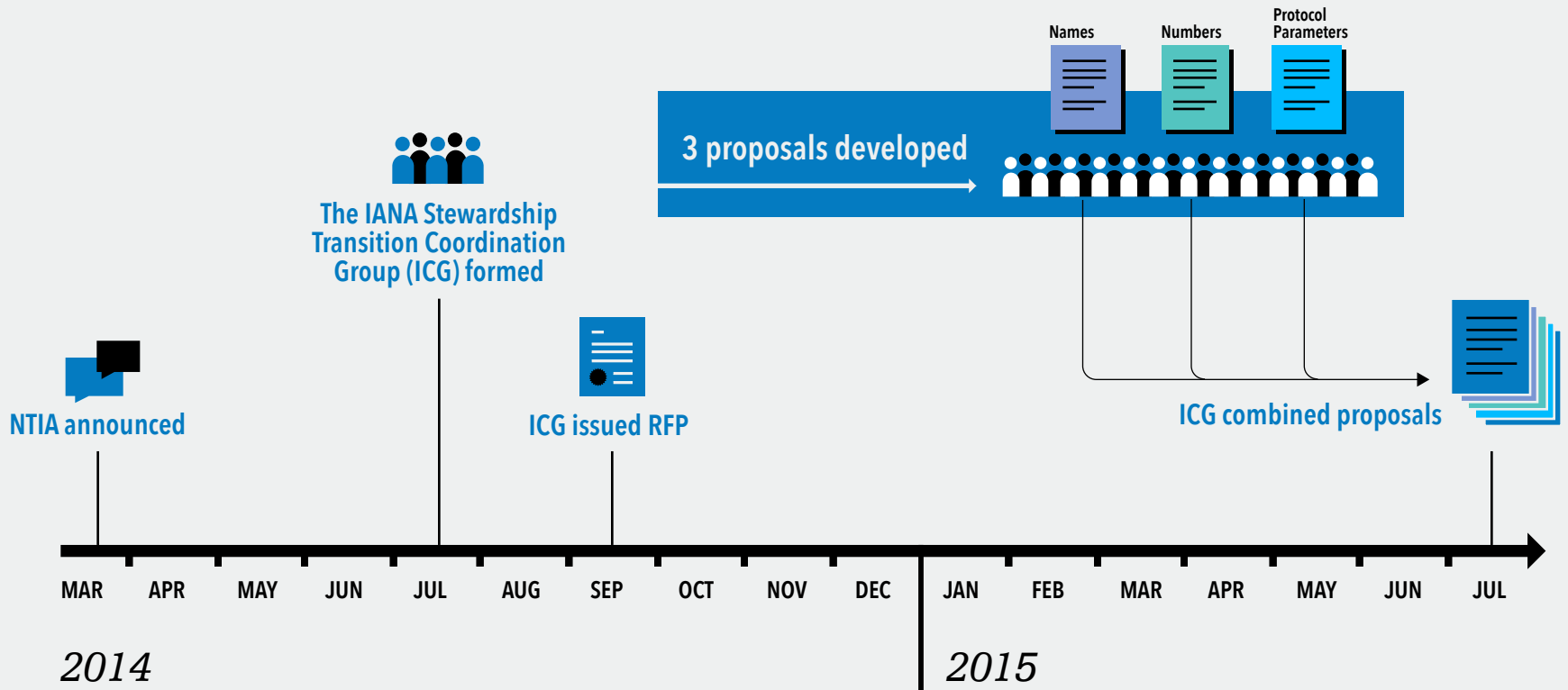
Maintain the openness of the Internet
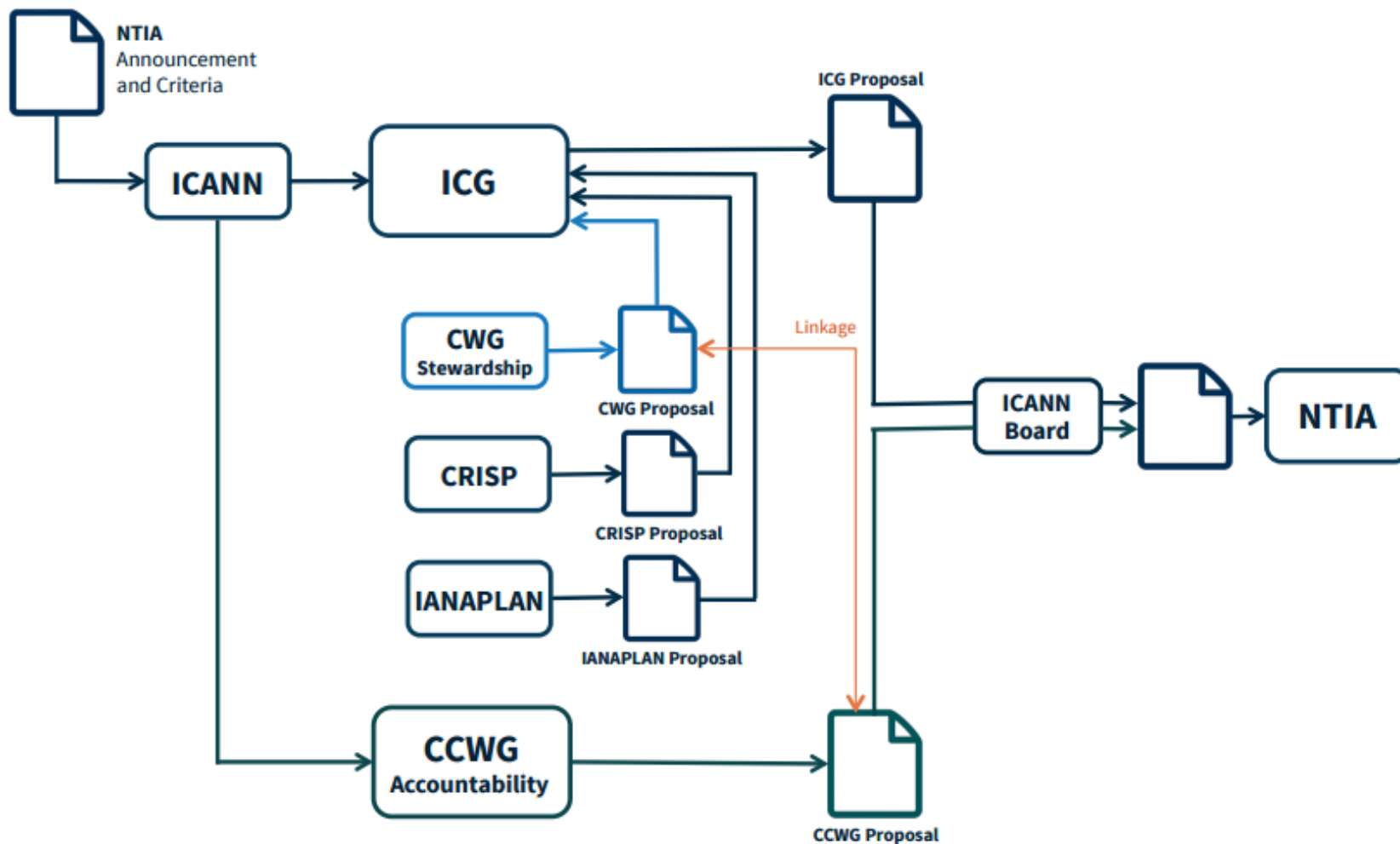
NTIA's Expectations

Broad community support

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

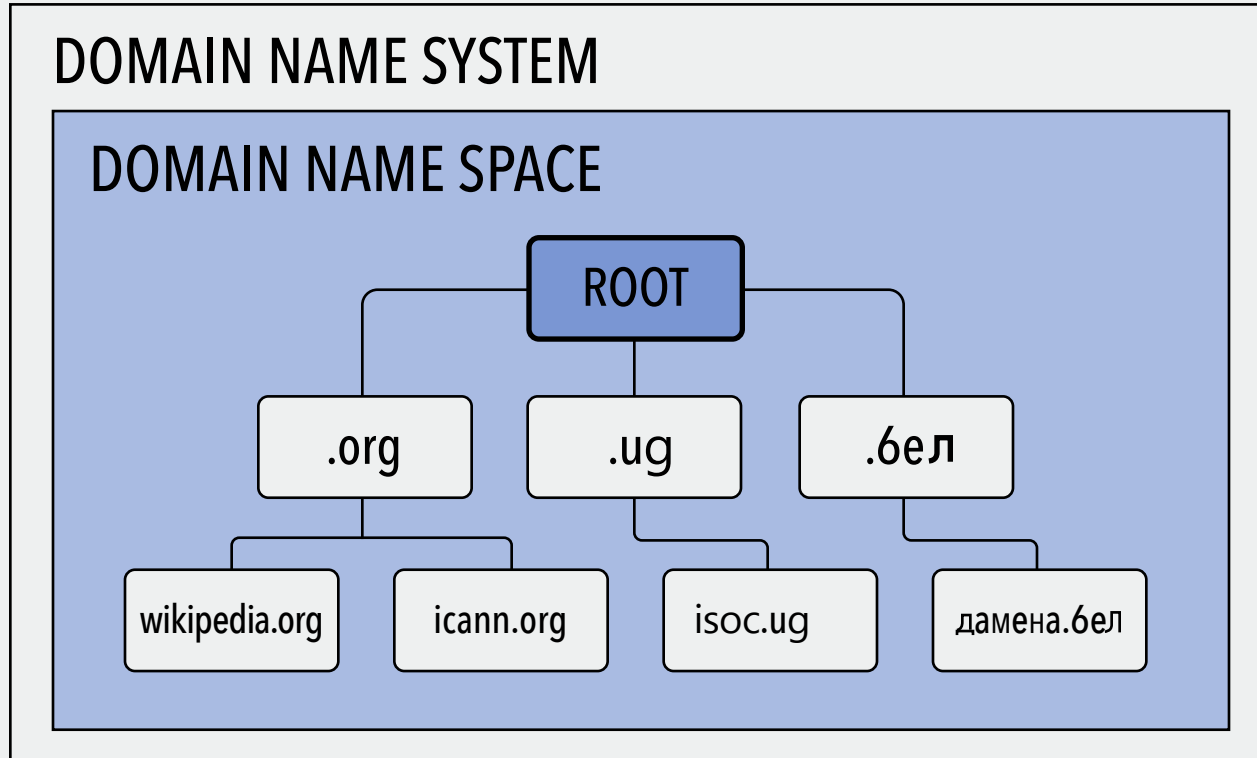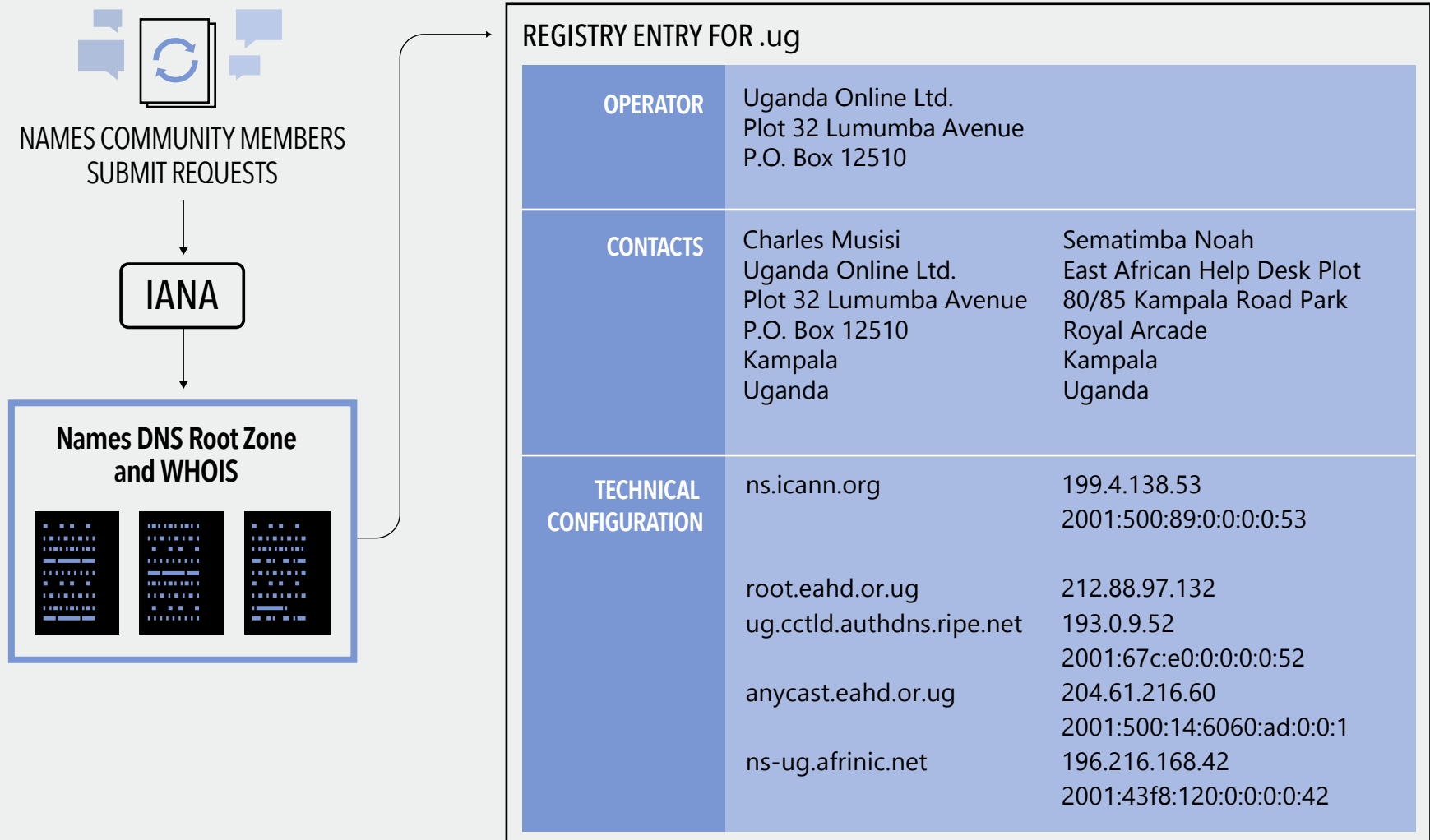# Transition proposal Update

IANA Stewardship Transition Proposal at a Glance

Transition Proposal:

NAMES

What are the IANA functions related to names?

What are the IANA functions related to names?

NAMES COMMUNITY MEMBERS
SUBMIT REQUESTS

IANA

Names DNS Root Zone and WHOIS

REGISTRY ENTRY FOR .ug

| OPERATOR	Uganda Online Ltd. Plot 32 Lumumba Avenue P.O. Box 12510	
CONTACTS	Charles Musisi Uganda Online Ltd. Plot 32 Lumumba Avenue P.O. Box 12510 Kampala Uganda	Sematimba Noah East African Help Desk Plot 80/85 Kampala Road Park Royal Arcade Kampala Uganda
TECHNICAL CONFIGURATION	ns.icann.org	199.4.138.53 2001:500:89:0:0:0:0:53
	root.eahd.or.ug ug.cctld.authdns.ripe.net	212.88.97.132 193.0.9.52 2001:67c:e0:0:0:0:0:52
	anycast.eahd.or.ug	204.61.216.60 2001:500:14:6060:ad:0:0:1
	ns-ug.afrinic.net	196.216.168.42 2001:43f8:120:0:0:0:0:42

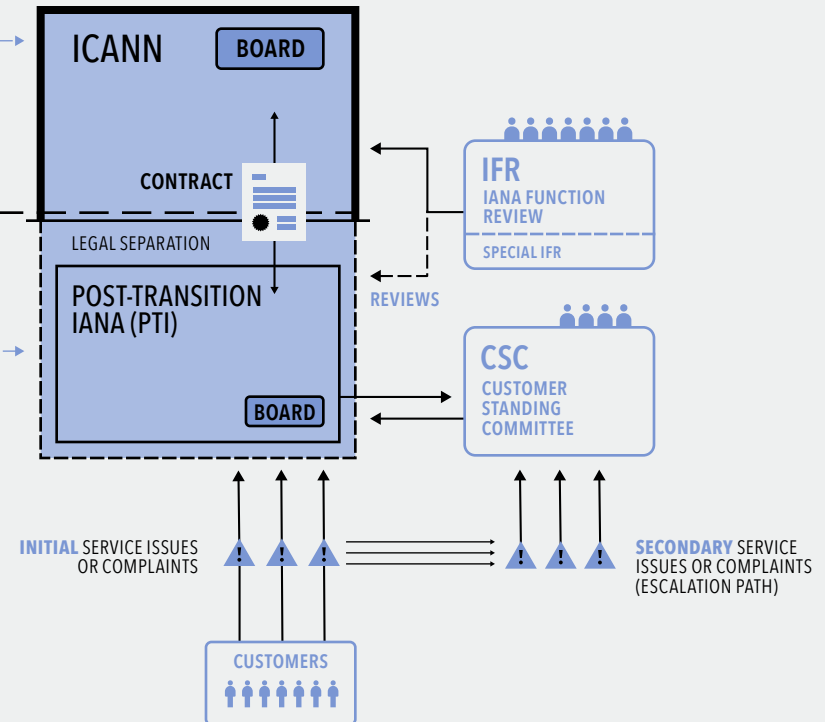# What are the IANA functions related to names?

- 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
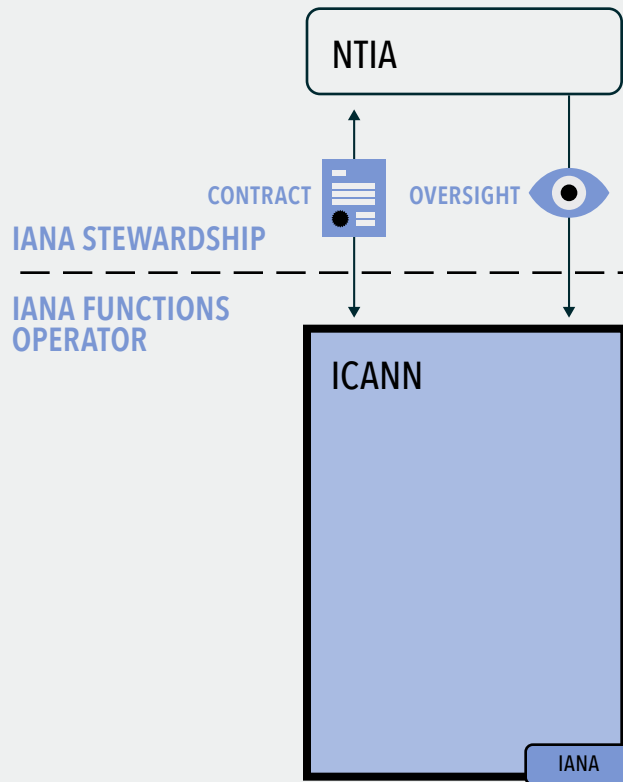
Parallel public comment processes

August 3 – September 12
CCWG Public Comment Period

July 31 – September 8
ICG Public Comment Period

JUL   AUG   SEP   OCT
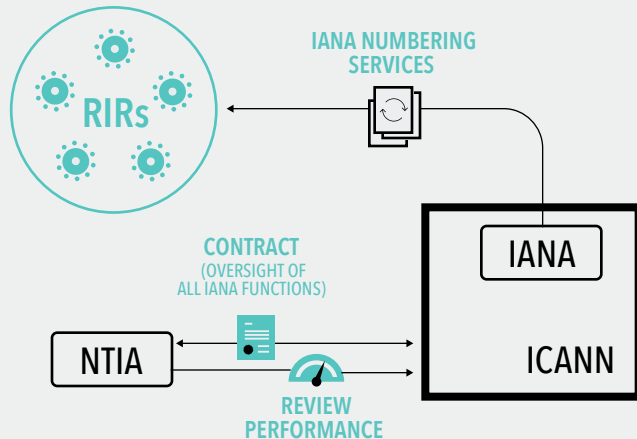
2015

Transition Proposal:

NUMBERS

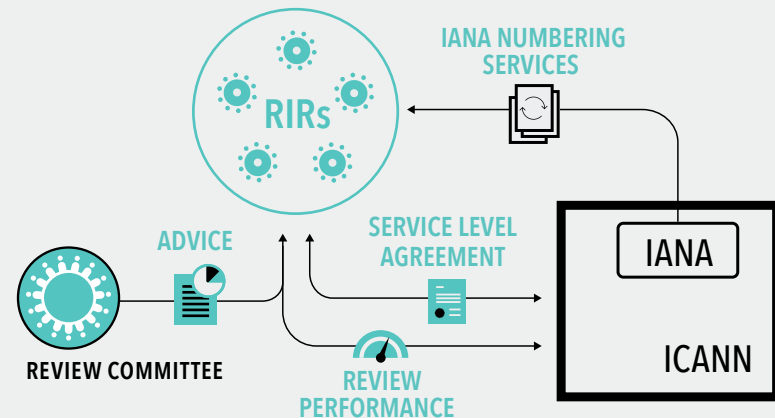# What are the IANA functions related to numbers?

- 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

IANA NUMBERING SERVICES

RIRs

CONTRACT
(OVERSIGHT OF
ALL IANA FUNCTIONS)

IANA

NTIA

ICANN

REVIEW PERFORMANCE

Post-transition

IANA NUMBERING SERVICES

RIRs

ADVICE

SERVICE LEVEL AGREEMENT

IANA

REVIEW COMMITTEE

REVIEW PERFORMANCE

ICANN

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.

❶ ICANN to continue as the IANA Functions Operator for the IANA Numbering Services via a Service Level Agreement (SLA) with the RIRs

❷ The rights over any intellectual property related to provision of the IANA services should reside with the community

❸ 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
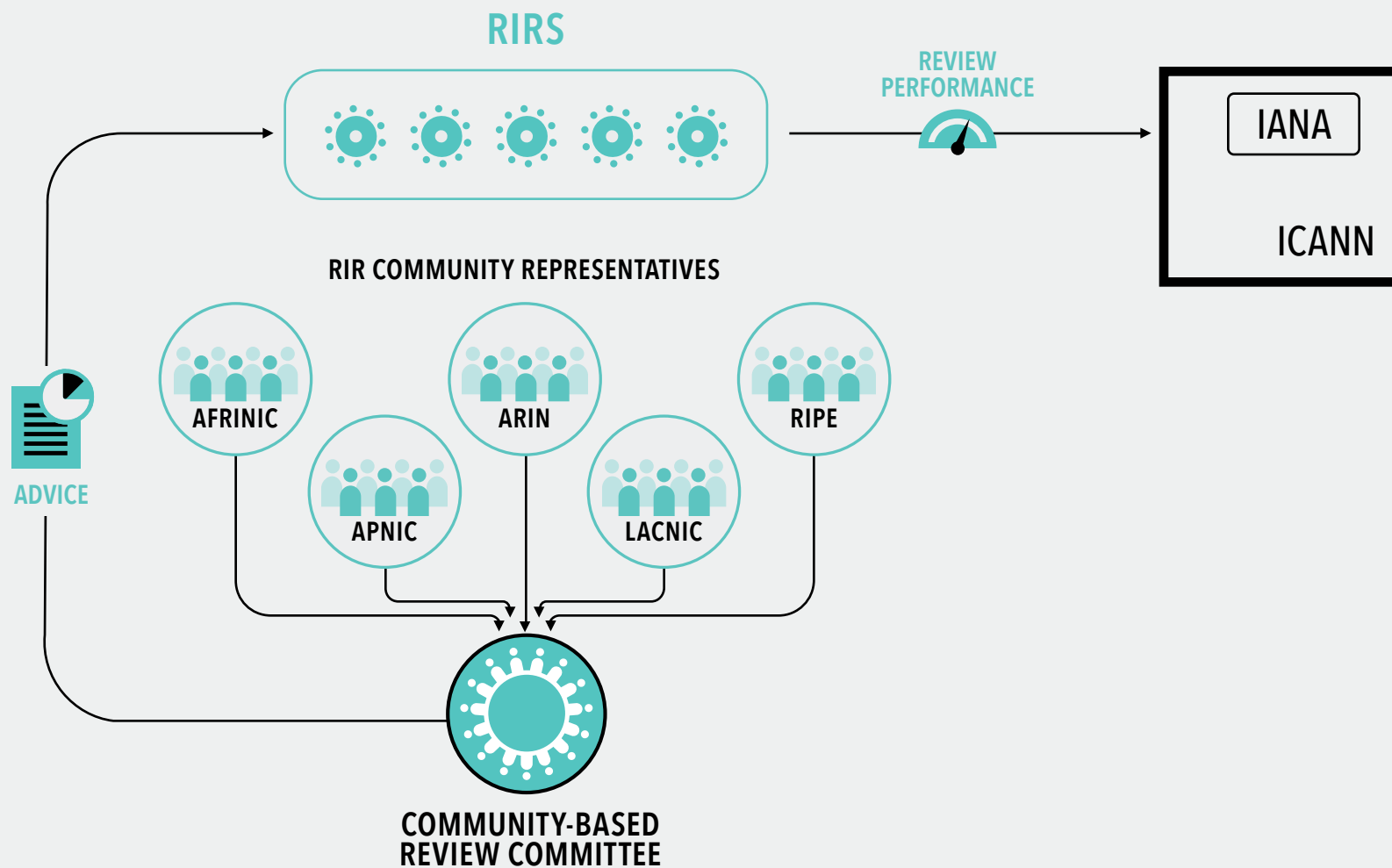
Transition Proposal:

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).
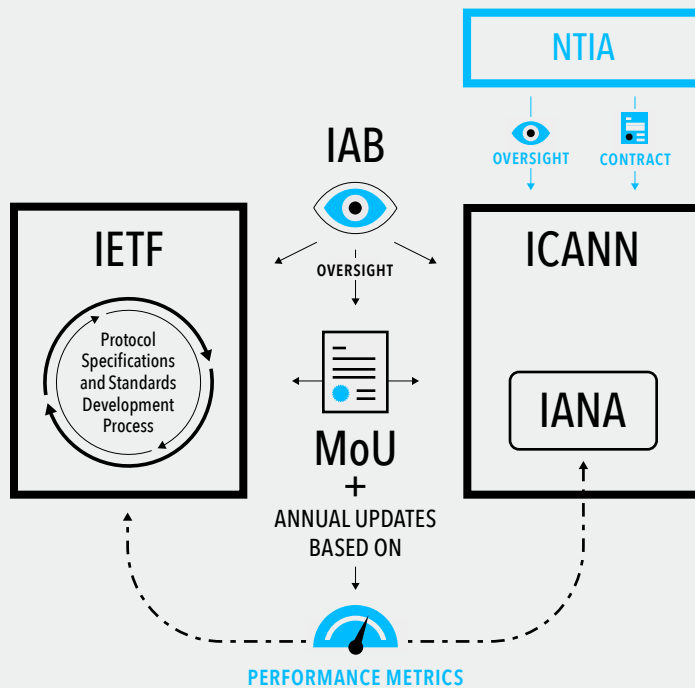
PROTOCOL PARAMETER
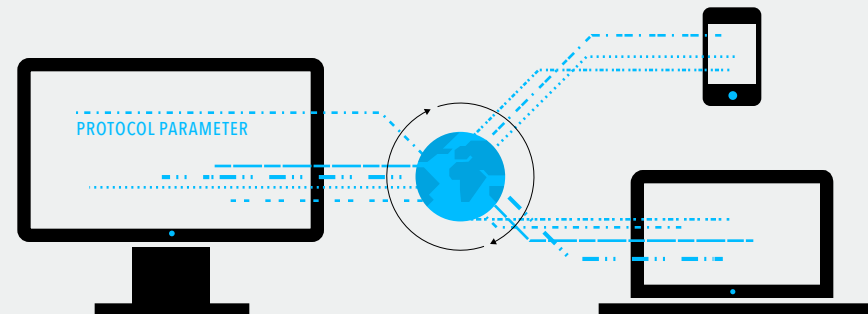
401	Unauthorized	[RFC7235, Section 3.1]
402	Payment Required	[RFC7231, Section 6.5.2]
403	Forbidden	[RFC7231, Section 6.5.3]
404	**Not Found**	**[RFC7231, Section 6.5.4]**
405	Method Not Allowed	[RFC7231, Section 6.5.5]
406	Not Acceptable	[RFC7231, Section 6.5.6]
407	Proxy Authentication Required	[RFC7235, 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
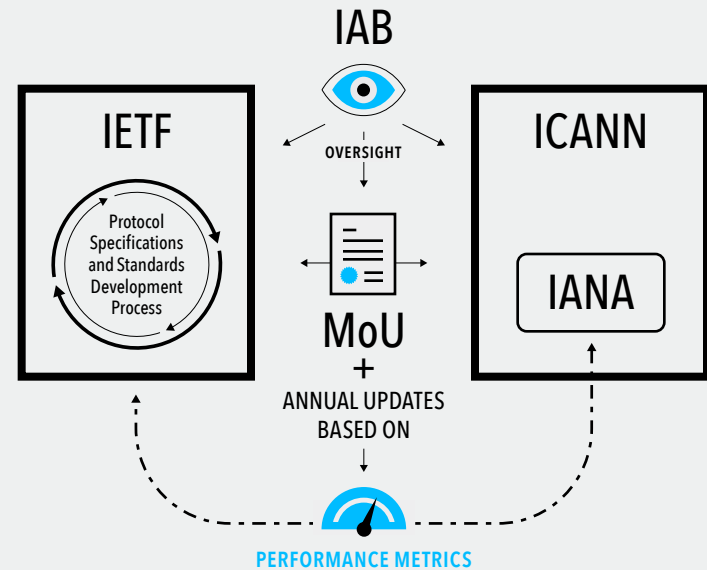
Unlike the DNS, which is referenced by computers in realtime, the protocol registries are referenced by people as needed for activities like writing software.

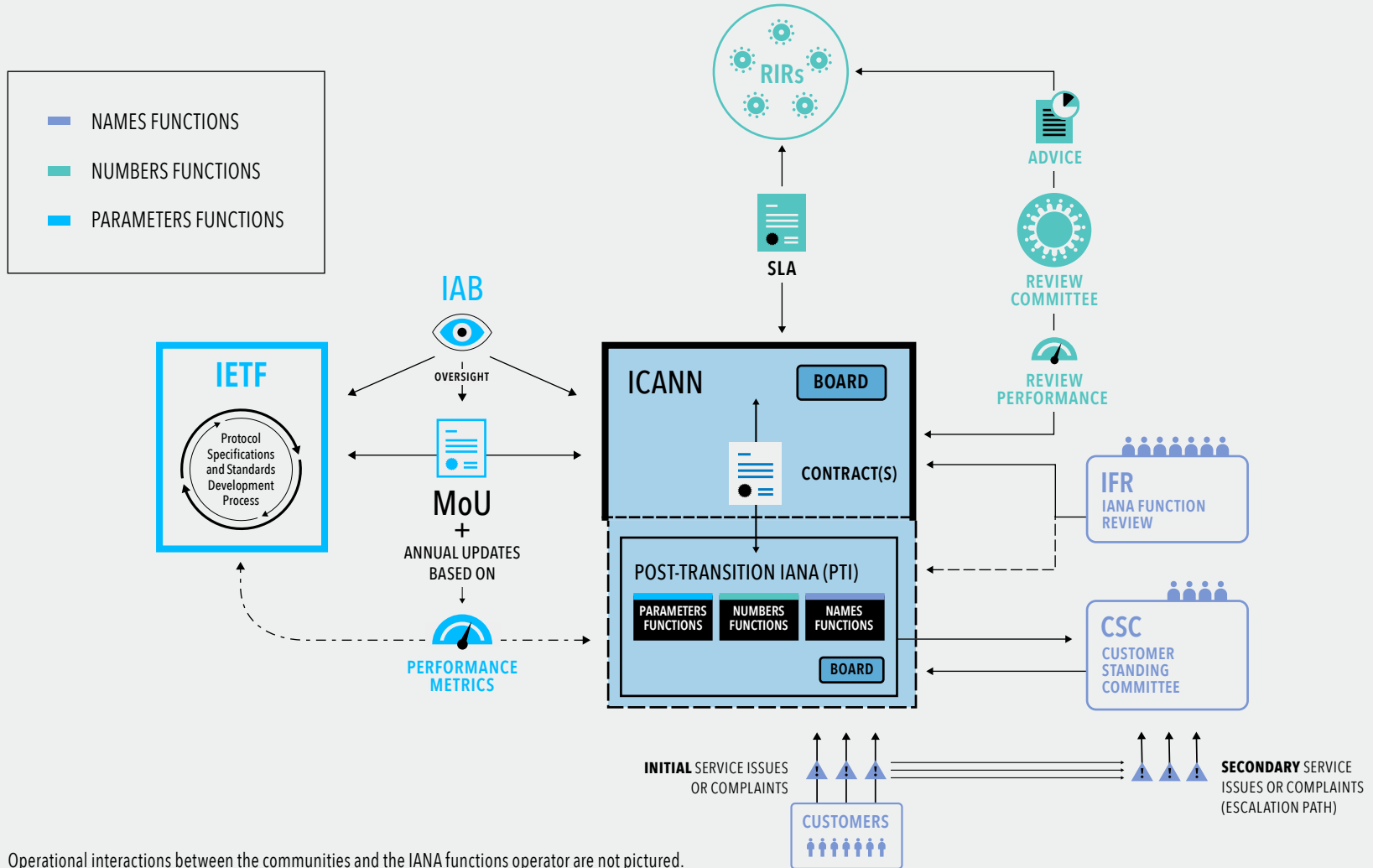# Protocol parameters proposal overview

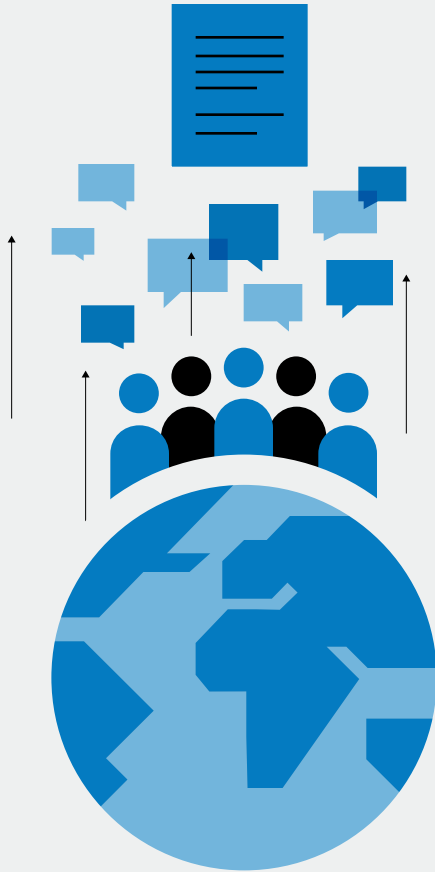*Current Contract*

Post-transition

VISUAL SUMMARY

Oversight components in the combined proposal

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

How to submit comments

Public comment period:

July 31 to Sept 8

Public comment website:

comments.ianacg.org

QUESTIONS

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