

ICANN
POLICY FORUM

65

MARRAKECH

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IANA Overview



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ICANN65

28 June 2019

Agenda

- ⦿ Our team and structure within ICANN
- ⦿ IANA and the root server operators
- ⦿ Budget planning and engagement

Our Team



Alan Akahoshi
PRODUCT MGMT



Shaunte Anderson
AUDIT



Amanda Baber
REQUEST SPECIALIST



Michelle Cotton
IETF RELATIONS



Kim Davies
PRESIDENT



Ali Mohammadi
SOFTWARE



Selina Harrington
REQUEST SPECIALIST



Marilia Hirano
EXCELLENCE & AUDIT



Jennifer Johnson
EXECUTIVE ASSISTANT



Andres Pavez
CRYPTO



Seman Said
SOFTWARE



Naela Sarras
SERVICE DELIVERY



David Prangnel
TECHNICAL SERVICES



Sabrina Tanamal
REQUEST SPECIALIST



George Sarkisyan
REQUEST SPECIALIST



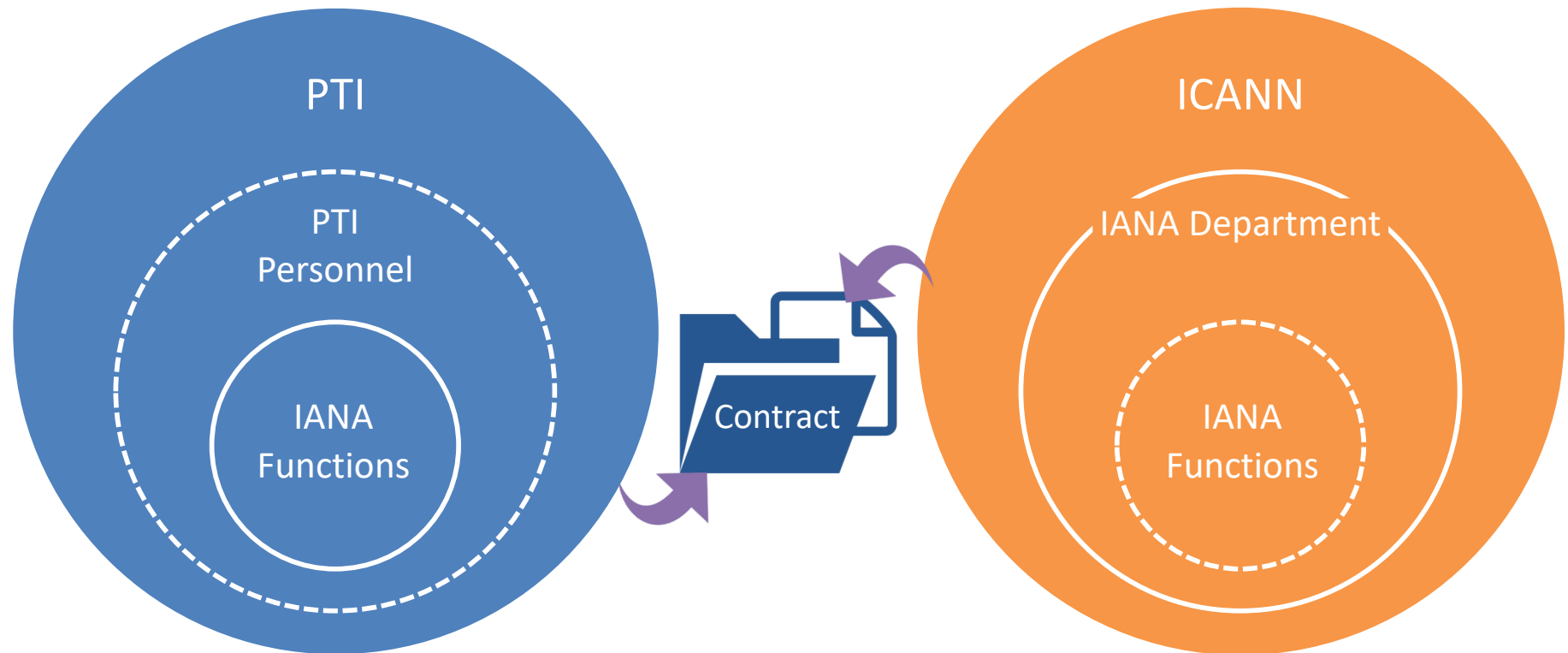
Claudia Stevens
REQUEST SPECIALIST



Aaron Foley
CRYPTO

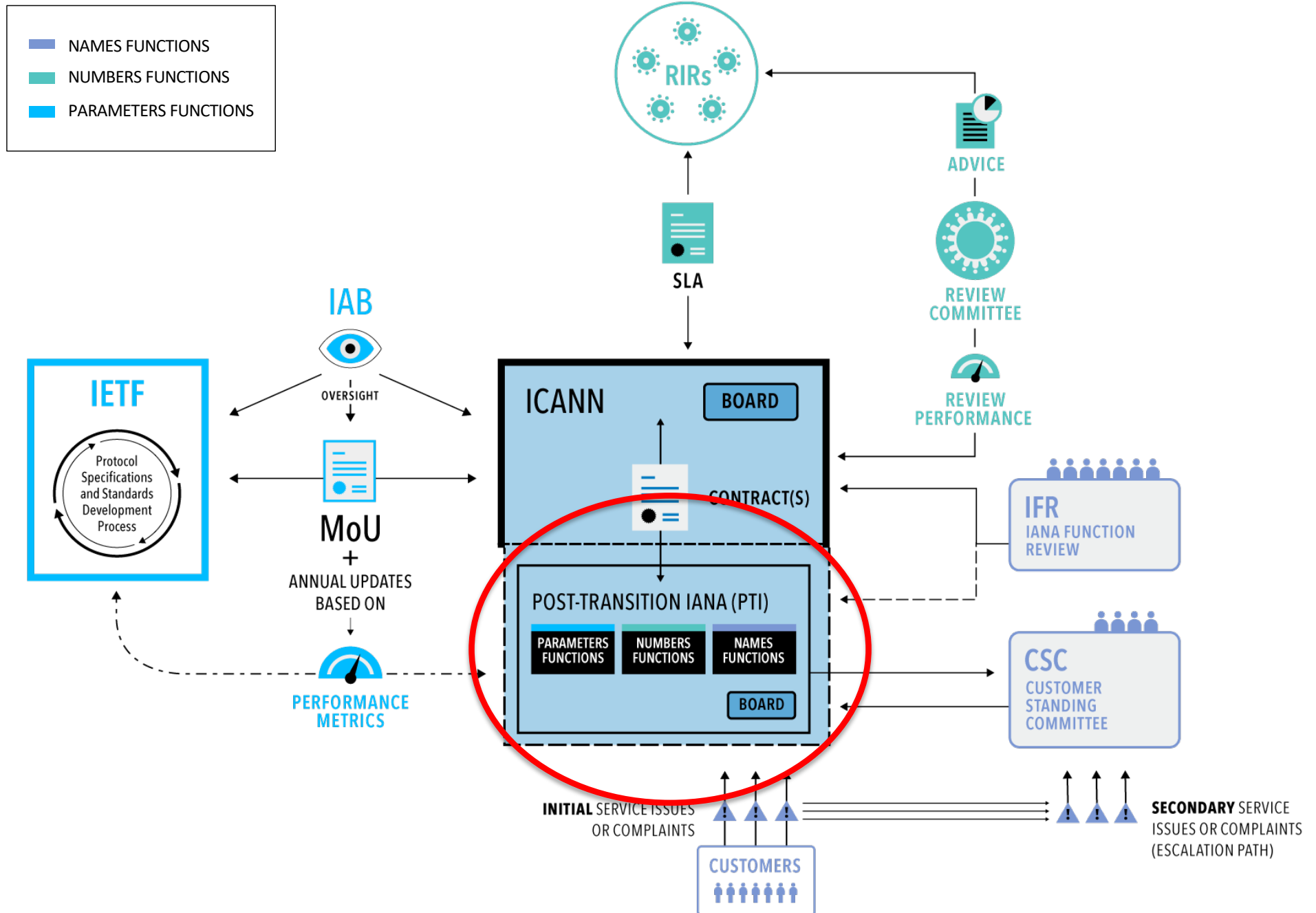
What Is PTI?

Public Technical Identifiers (PTI) is an affiliate of ICANN that is responsible for performing the IANA functions and delivering the IANA services on behalf of ICANN.

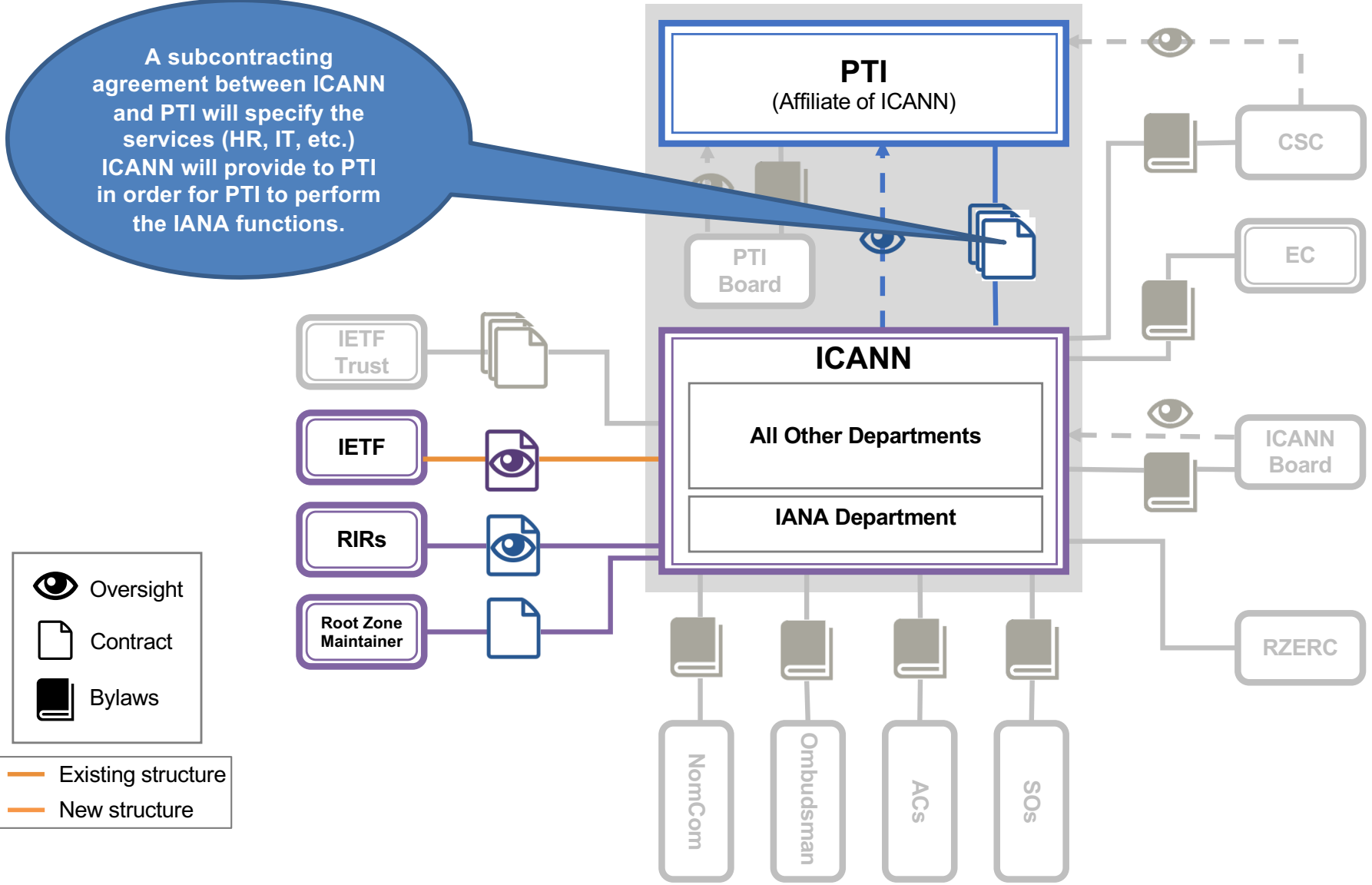


PTI implements agreed-upon policies and principles developed by the ICANN multistakeholder community.

PTI – a result of the IANA stewardship transition



Relationship between ICANN and PTI



PTI overview

Legal

- ⦿ Nonprofit public benefit corporation
- ⦿ ICANN is sole member
- ⦿ Domiciled in California
- ⦿ 501(c)(3) tax status

Organization

- ⦿ Annual budget developed in consultation with the community
- ⦿ Four-year strategic plan updated annually
- ⦿ Annual independent financial audit of PTI financials

Operations

- ⦿ Perform name, protocol parameters, and number services via contract and subcontract with ICANN
- ⦿ ICANN to provide all resources required to perform services

Board

- ⦿ Five directors appointed by ICANN
- ⦿ Three from ICANN/PTI organizations
- ⦿ Two from the ICANN NomCom process

Officers

- ⦿ President – Kim Davies
- ⦿ Treasurer – Becky Nash
- ⦿ Secretary – Samantha Eisner

Staff

- ⦿ No change in personnel performing the IANA functions
- ⦿ Existing IANA department personnel seconded from ICANN to PTI

What Stays the Same?

Definition of the IANA functions

Domain names, numbering resources, and protocol parameters

Registries related to names, numbers, and protocol parameters



Individuals performing the work

IANA department personnel are seconded to PTI.

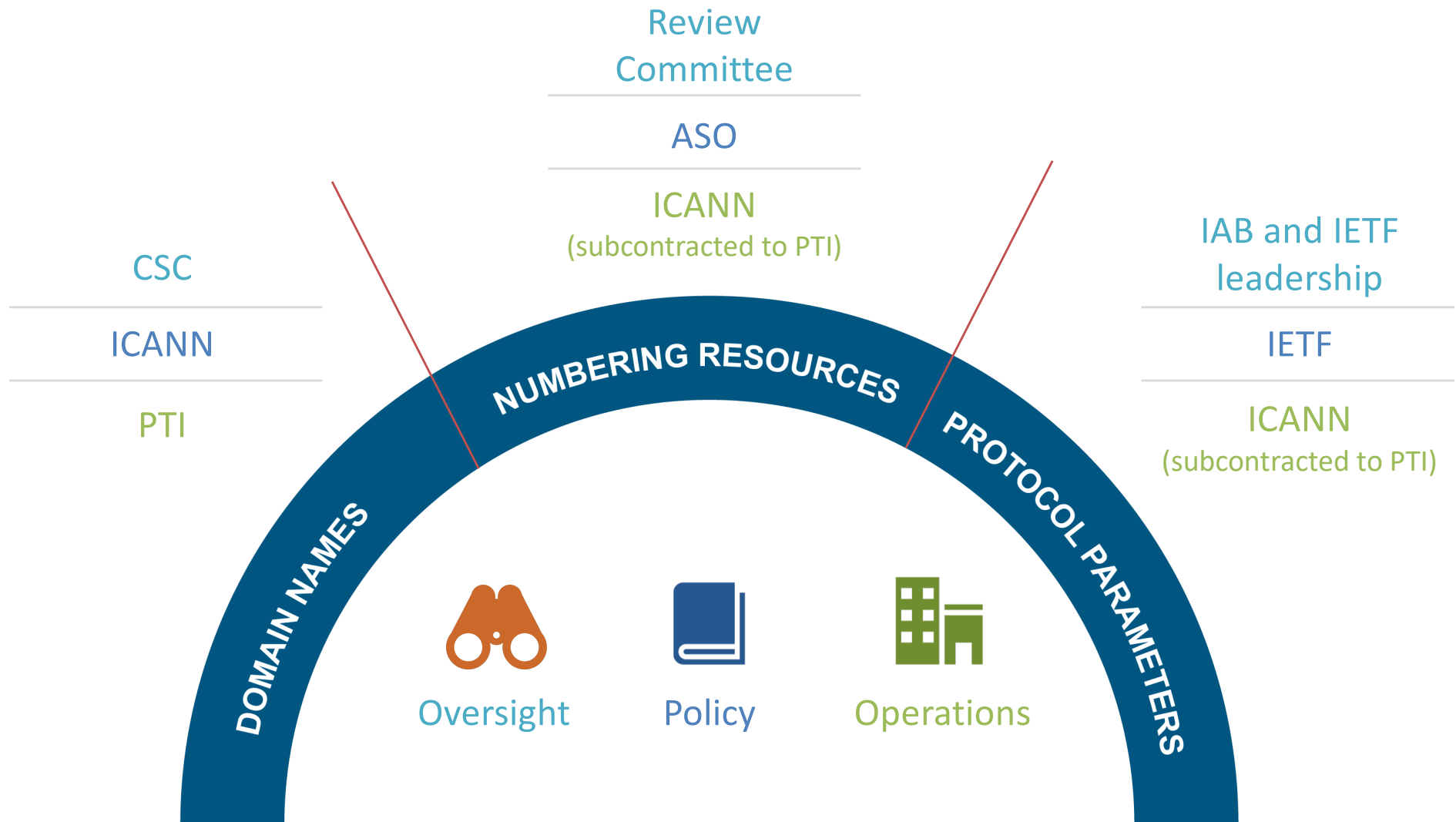
Location of the operational information

Operational reports of the IANA services will remain on iana.org.

Methods for submitting changes or updates to the registries



ICANN Ecosystem with PTI



What we actually do



The global coordination of the DNS Root, IP addressing, and other Internet protocol resources is performed as the Internet Assigned Numbers Authority (IANA) functions. [Learn more.](#)

Domain Names

Management of the DNS Root Zone (assignments of ccTLDs and gTLDs) along with other functions such as the .int and .arpa zones.

- Root Zone Management
- Database of Top Level Domains
- .int Registry
- .arpa Registry
- IDN Practices Repository

Number Resources

Coordination of the global IP and AS number spaces, such as allocations made to Regional Internet Registries.

- IP Addresses & AS Numbers
- Network abuse information

Protocol Assignments

The central repository for protocol name and number registries used in many Internet protocols.

- Protocol Registries
- Apply for an assignment
- Time Zone Database

IANA and the Root Server Operators

IANA is the source of data for root servers

- IANA provides the contents of the root zone served by the root servers
- Occasionally, IANA processes requests for changes to IP addresses for the root servers themselves
 - As part of processing such requests, we have also worked with RSOs to:
 - Coordinate timing and communication regarding the change
 - Update RSO contacts in IANA's internal database

Communicating with RSOs

- IANA maintains an internal list of contacts for each root server operator.
 - Includes name and email address(es) of contacts at each RSO
- Contact information may be out of date
 - No interface between IANA and the root server operators to update their contact information
- How much data should we maintain? One or two contacts for each RSO? More data?
- There is no formal process by which to notify IANA of changes to contacts.
- What about emergency cases? Are there any?

iana.org/domains/root/servers

Root Servers

The authoritative name servers that serve the DNS root zone, commonly known as the “root servers”, are a network of hundreds of servers in many countries around the world. They are configured in the DNS root zone as 13 named authorities, as follows.

List of Root Servers

HOSTNAME	IP ADDRESSES	MANAGER
a.root-servers.net	198.41.0.4, 2001:503:ba3e::2:30	VeriSign, Inc.
b.root-servers.net	199.9.14.201, 2001:500:200::b	University of Southern California (ISI)
c.root-servers.net	192.33.4.12, 2001:500:2::c	Cogent Communications
d.root-servers.net	199.7.91.13, 2001:500:2d::d	University of Maryland
e.root-servers.net	192.203.230.10, 2001:500:a8::e	NASA (Ames Research Center)
f.root-servers.net	192.5.5.241, 2001:500:2f::f	Internet Systems Consortium, Inc.
g.root-servers.net	192.112.36.4, 2001:500:12::d0d	US Department of Defense (NIC)
h.root-servers.net	198.97.190.53, 2001:500:1::53	US Army (Research Lab)
i.root-servers.net	192.36.148.17, 2001:7fe::53	Netnod
j.root-servers.net	192.58.128.30, 2001:503:c27::2:30	VeriSign, Inc.
k.root-servers.net	193.0.14.129, 2001:7fd::1	RIPE NCC
l.root-servers.net	199.7.83.42, 2001:500:9f::42	ICANN
m.root-servers.net	202.12.27.33, 2001:dc3::35	WIDE Project

Ideas for improvement

- Once a year, IANA reaches out to all RSOs to ask if the information we have on file for each RSO is still accurate
- IANA also shares its 24x7 contact information with RSOs on a regular basis
- Long term: IANA creates an interface for Root Server Operators in the Root Zone Management System (RZMS)
 - This enables contacts at RSOs to maintain current contact information and request changes via the root zone workflow system

Budget Planning and Engagement

FY21 Budget

At least nine months prior to the commencement of each fiscal year, the Corporation shall submit to the PTI Board and the Board of Directors of ICANN a proposed annual operating plan and budget for the Corporation's next fiscal year ("Annual Budget").

- Fiscal Year 2021 Budget covers 1 July 2020 — 30 June 2021.

During the Annual Budget development process, and prior to approval of the Annual Budget by the PTI Board, the Corporation shall consult with the Supporting Organizations and Advisory Committees, as well as the Registries Stakeholder Group, IAB and RIRs (all as defined in the ICANN Bylaws).

- We need your feedback on priorities that need to be reflected in our draft budget

FY21 Budget Assumptions

- Customers are happy with service and no fundamental changes are required beyond ongoing refinement and renewal of service delivery.
- New areas of activity foreseen that involve adapting/expanding existing processes and systems:
 - TLD variants
 - Future round of gTLDs (expected costs to be funded by that program)
- Stable headcount and funding

Potential work with fiscal impact

- **Root Zone Management System** development and maintenance
- **Protocol parameter management system** development
- **IANA website** significant refresh
- **Variant TLDs** implementation
- **KSK rollover increased cadence**

Thank you!

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