



# How the Internet Really Works

26 October 2025

# ICANN's Mission

The mission of the Internet Corporation for Assigned **Names** and **Numbers** ("**ICANN**") is to ensure the stable and secure operation of the *Internet's unique identifier* systems [...]

Coordinates the allocation and assignment of names in the root zone of the Domain Name System ("**DNS**") and [...]

Coordinates the allocation and assignment at the top-most level of Internet Protocol numbers and Autonomous System numbers.

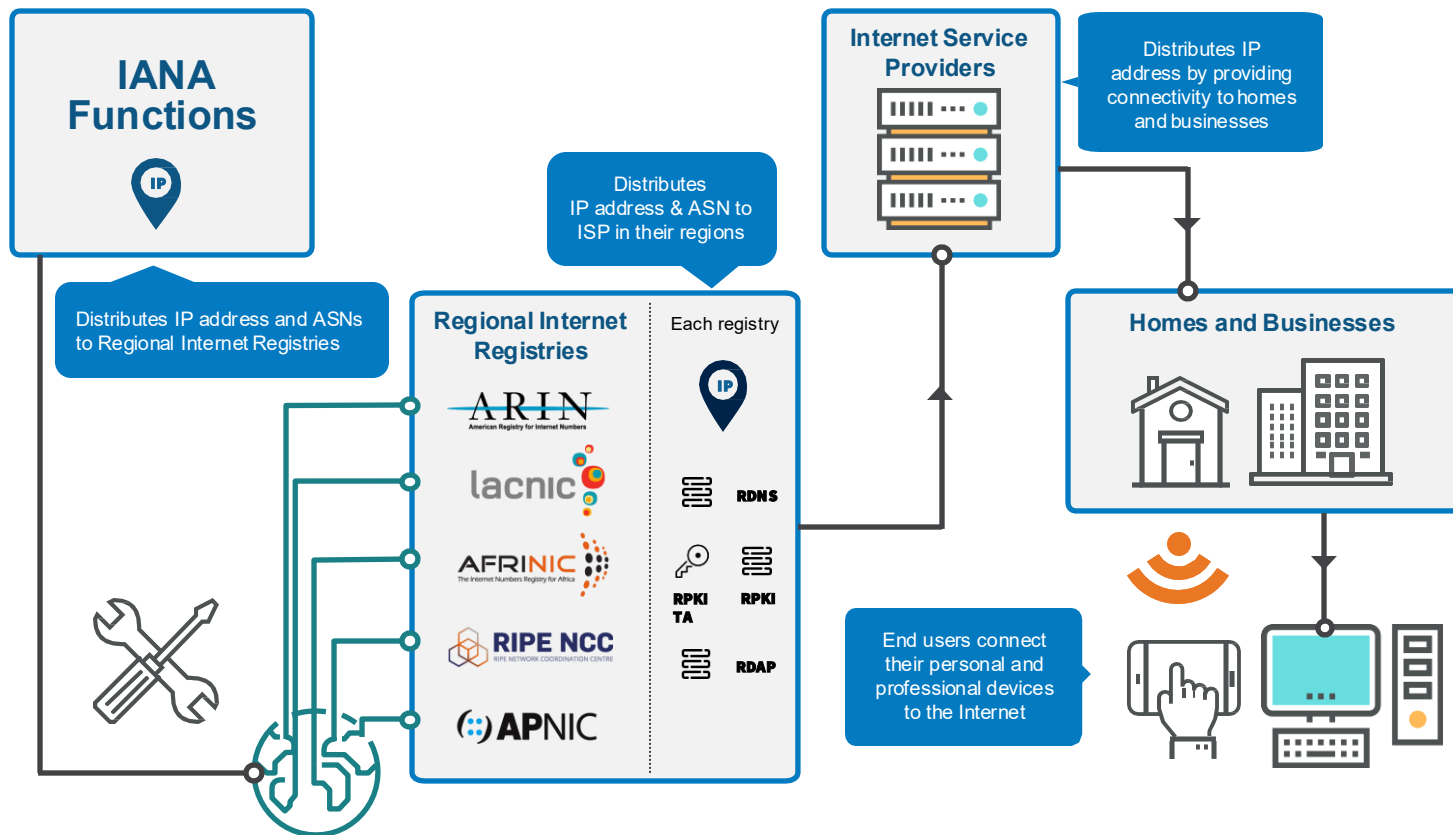


# Packets

# IP-Addresses



# How Numbers Are Distributed



# Networks



## 7



# IXPs

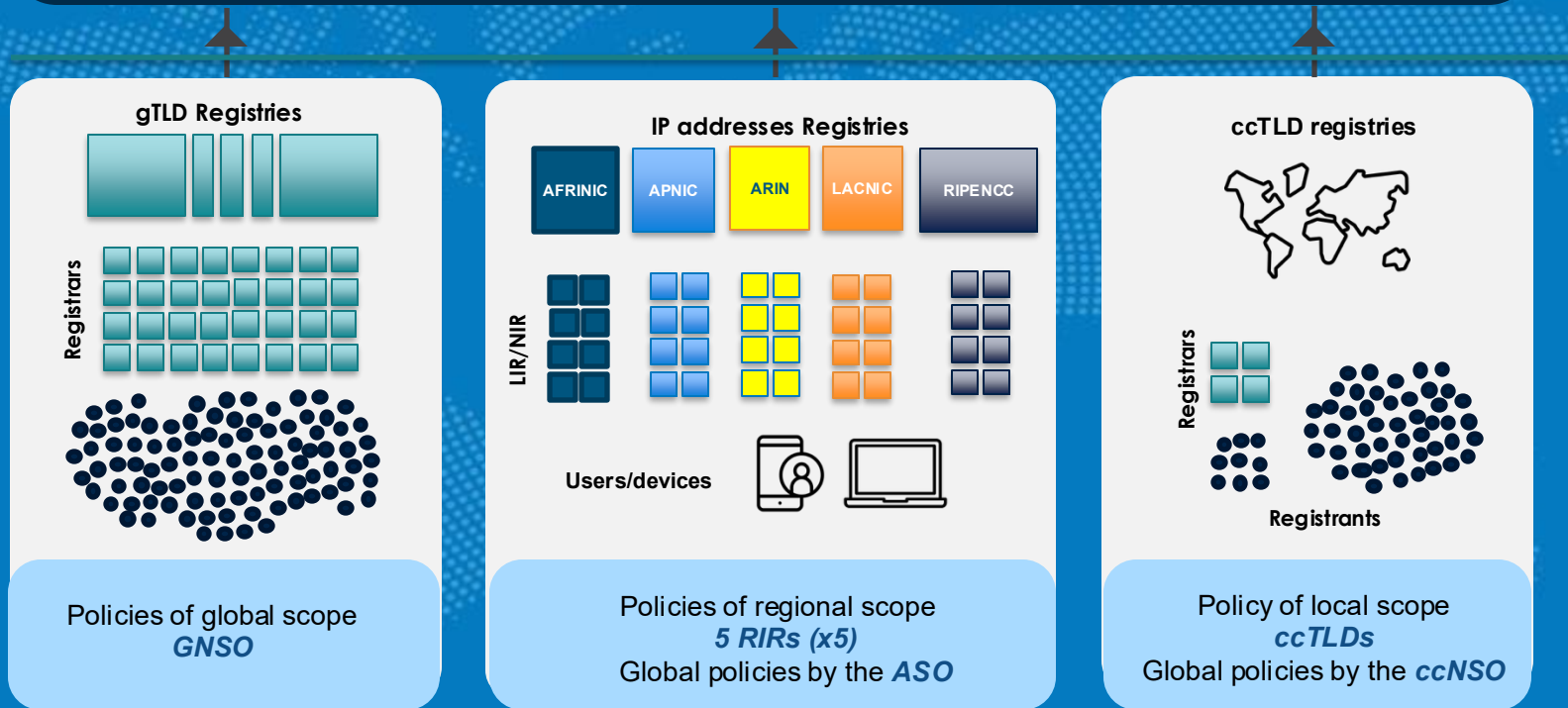


# DNS

Global PDPs  
coordination &  
implementation



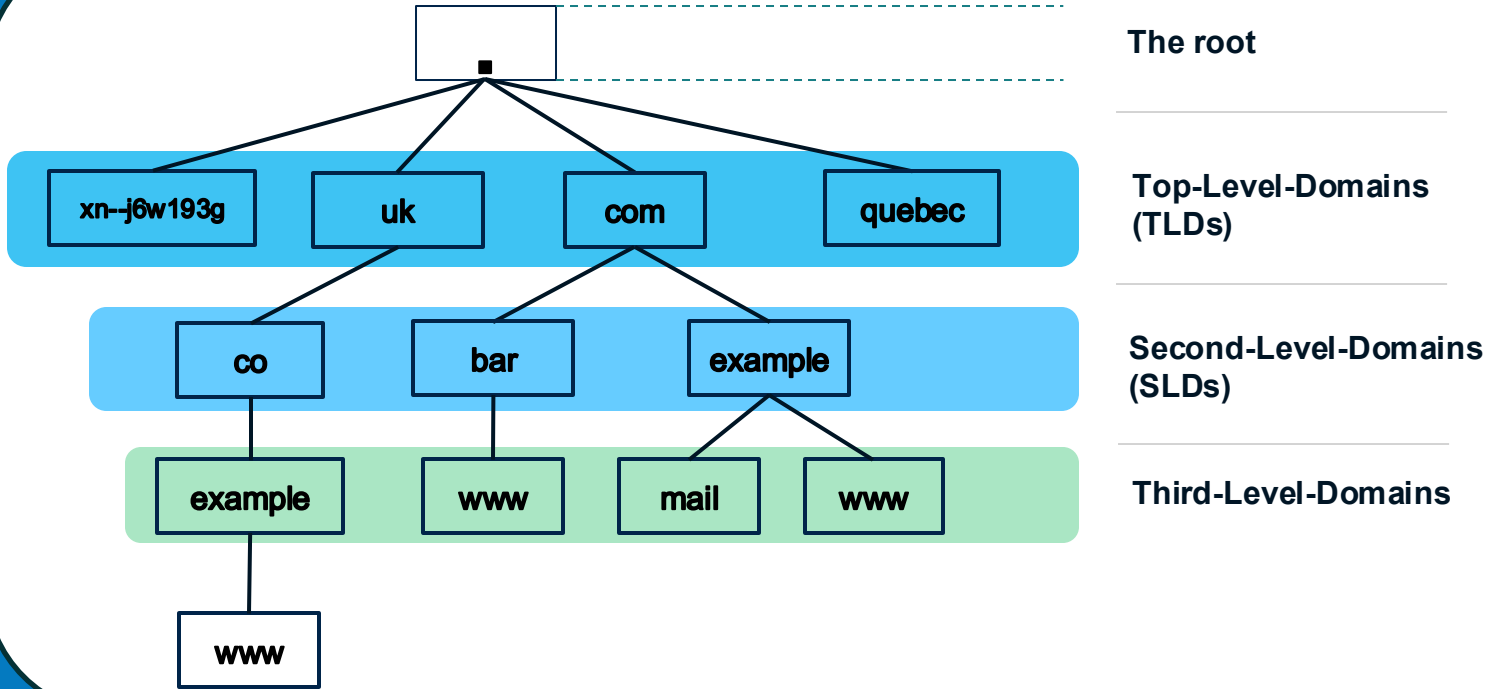
## IANA Functions (Global Policy implementation)



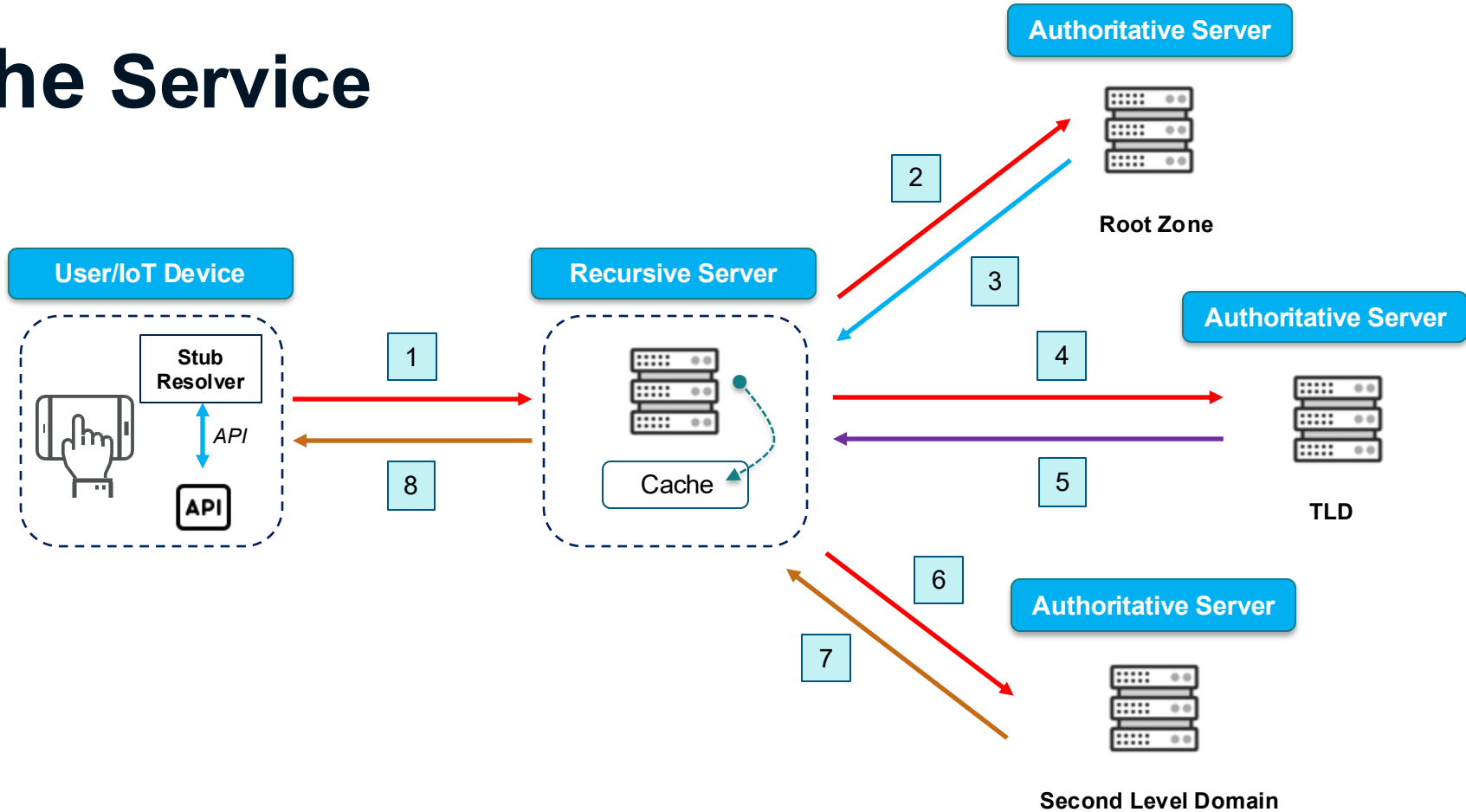
IETF (Protocol Parameters)

Global  
Standards

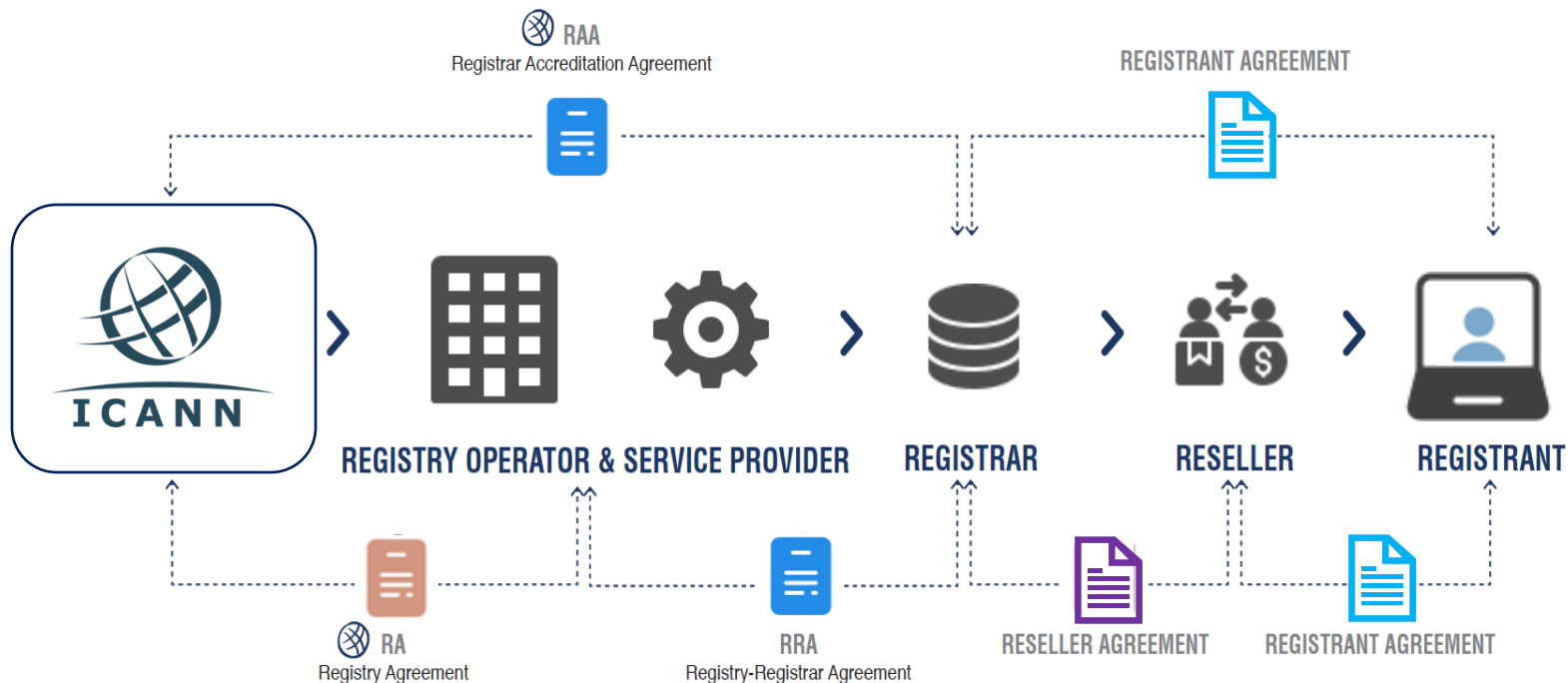
# The Name Space



# The Service



# Provisioning





# ICANN's Mission

The mission of the Internet Corporation for Assigned **Names** and **Numbers** ("**ICANN**") is to ensure the stable and secure operation of the *Internet's unique identifier* systems [...]

Coordinates the allocation and assignment of names in the root zone of the Domain Name System ("**DNS**") and [...]

Coordinates the allocation and assignment at the top-most level of Internet Protocol numbers and Autonomous System numbers.



# ICANN Webpage and Social Media Links



[icann.org](https://icann.org)



[@icann](https://twitter.com/icann)



[facebook.com/icannorg](https://facebook.com/icannorg)



[youtube.com/icannnews](https://youtube.com/icannnews)



[flickr.com/icann](https://flickr.com/icann)



[linkedin.com/company/icann](https://linkedin.com/company/icann)



[instagram.com/icannorg](https://instagram.com/icannorg)