IANA ccNSO Update

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ICANN 55, 8 March 2016

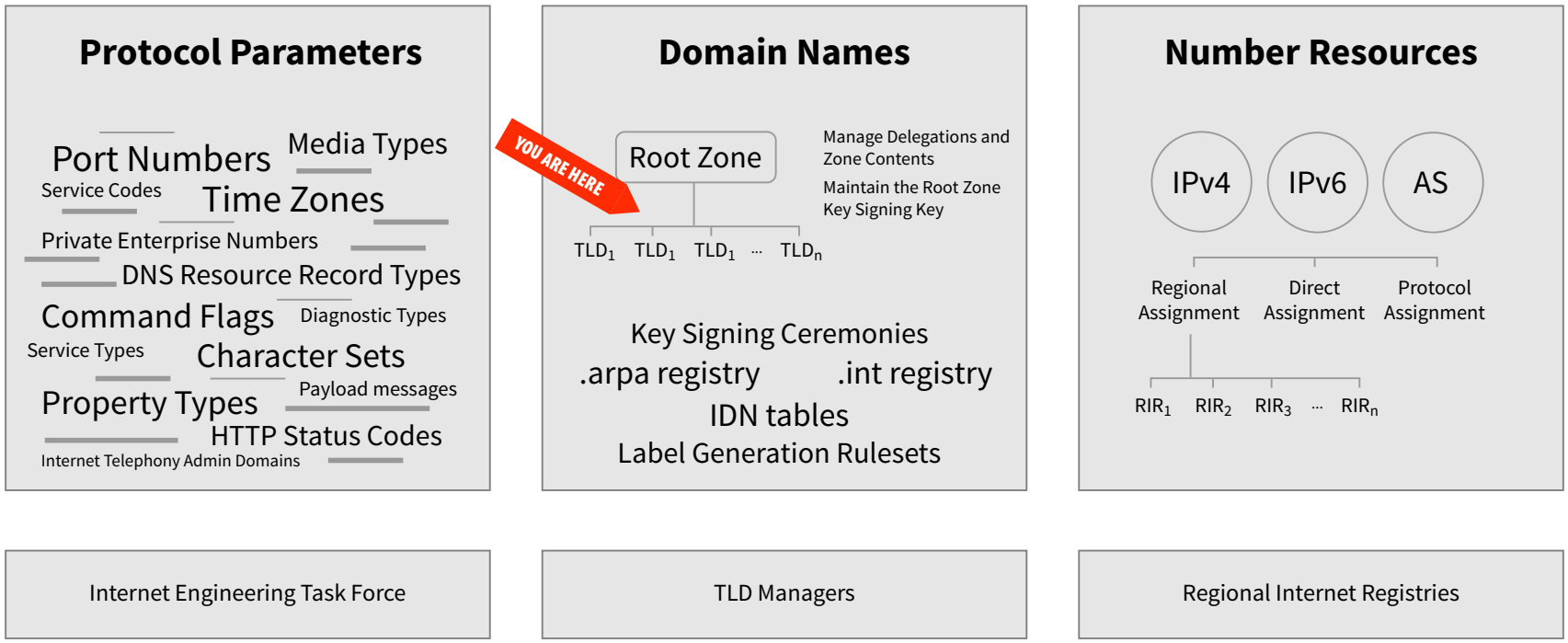
Agenda

- Introduction to IANA
- Performance Overview
- Implementing new post-transition performance metrics
- Framework of Interpretation
- RDAP Update
- Other Work in Progress

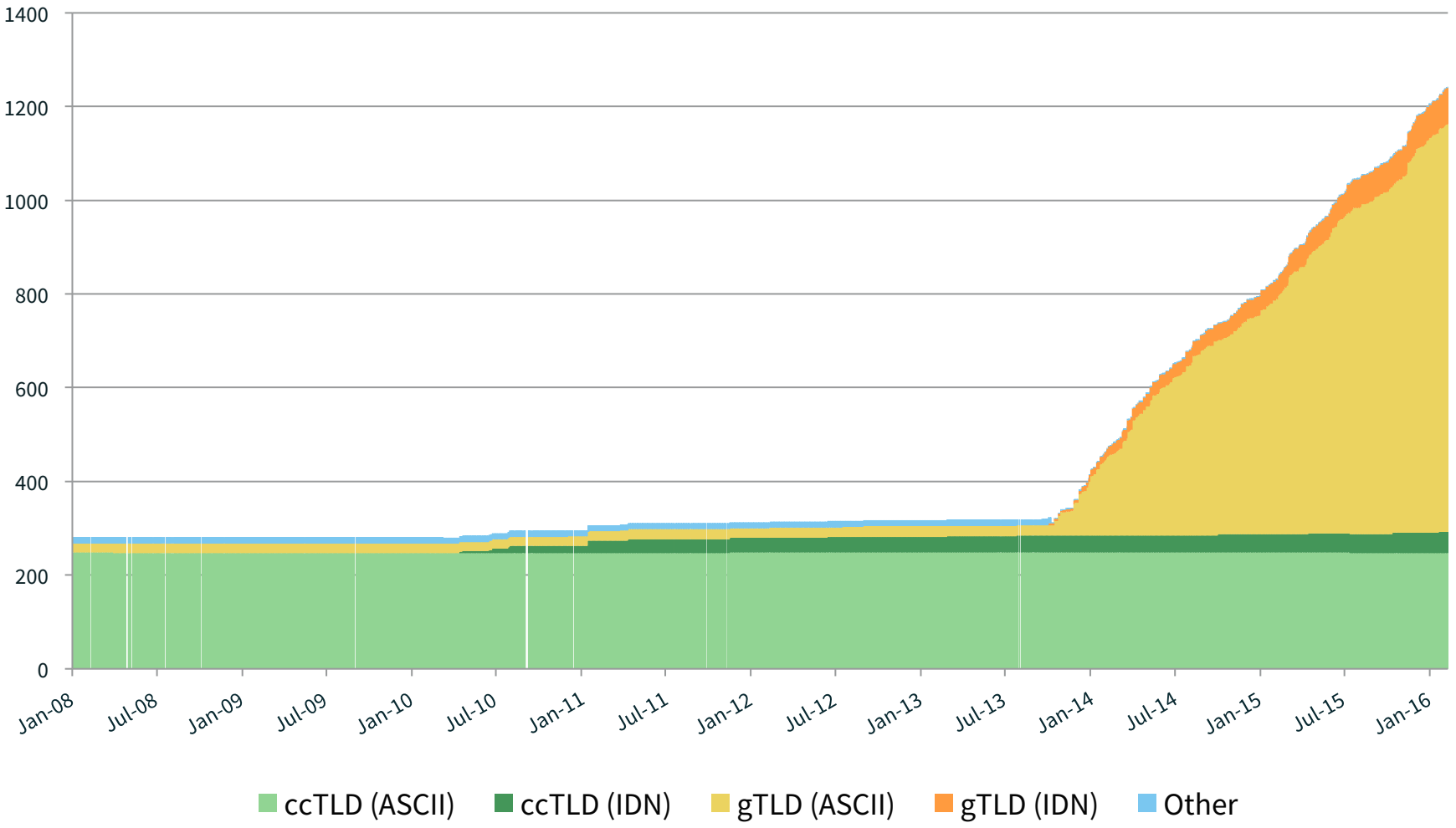
A reminder: What does IANA do?

We're record keepers for globally-unique Internet identifiers. For hierarchically assigned identifiers like domain names and IP addresses, we are the registry of registries.

We tend to divide what we do into three primary areas, that represent the major community groups we partner with in doing those tasks:



TLD Growth


1400
1200
1000
800
600
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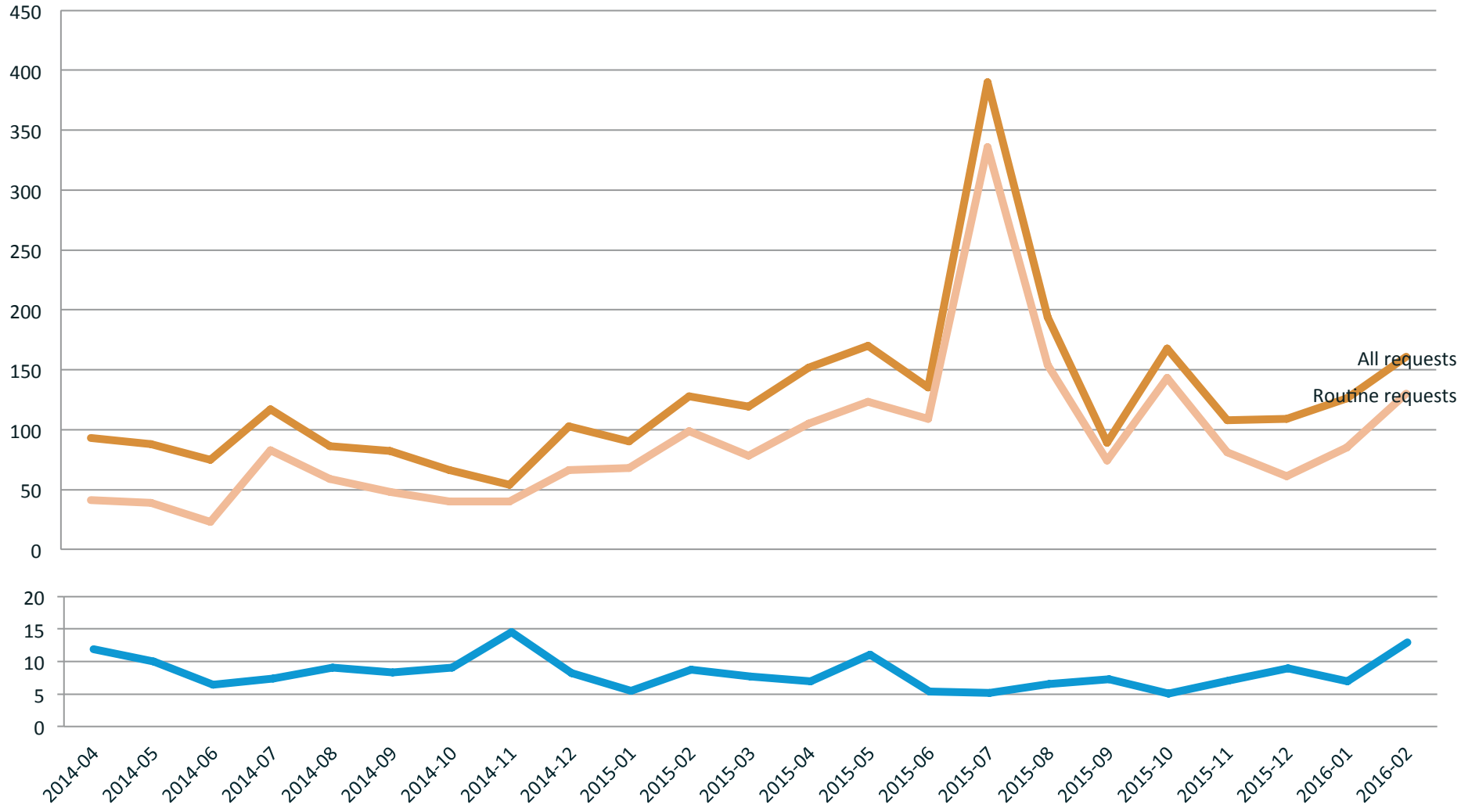
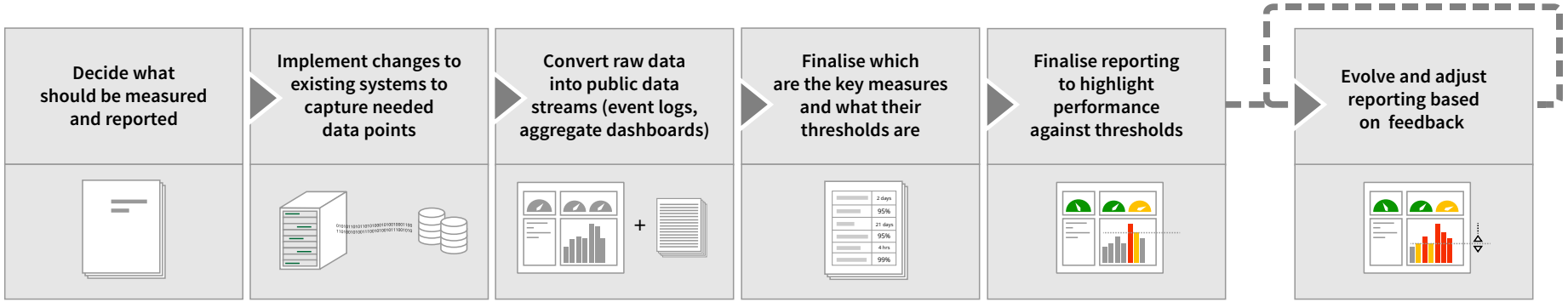
200
0
Jan-08
Jul-08
Jan-09
Jul-09
Jan-10
Jul-10
Jan-11
Jul-11
Jan-12
Jul-12
Jan-13
Jul-13
Jan-14
Jul-14
Jan-15
Jul-15
Jan-16
ccTLD (ASCII)
ccTLD (IDN)
gTLD (ASCII)
gTLD (IDN)
Other

Processing times and volumes

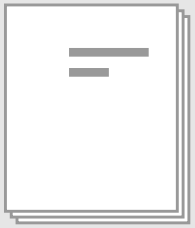


SLE Development at IANA

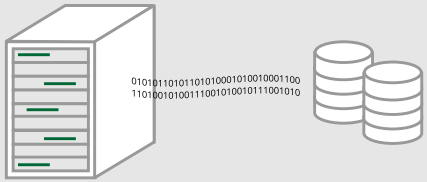


SLE Development at IANA

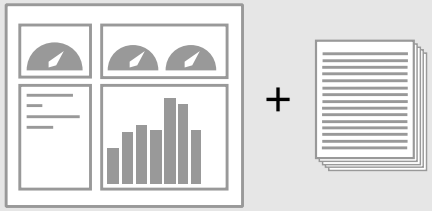
Decide what should be measured and reported



Implement changes to existing systems to capture needed data points



Convert raw data into public data streams (event logs, aggregate dashboards)



Design Team A CWG Final Report

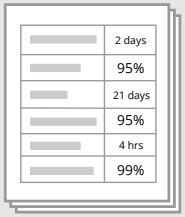
RZMS deployment on 2 March

Tools development commences next week

- Provided subject matter expertise to Design Team to identify what is possible
- Implemented technical changes to systems to record new data
- Now developing system to crunch raw data to generate draft dashboards and other reporting

SLE Development at IANA

Finalise which are the key measures and what their thresholds are

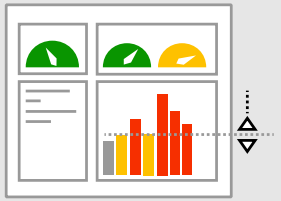


After a period of data collection when trends emerge

Finalise reporting to highlight performance against thresholds

After ICANN and community agree on thresholds

Evolve and adjust reporting based on feedback



Regular engagement with CSC and periodic reviews

Framework of Interpretation

- Approved by the ICANN Board at Buenos Aires meeting, sought draft implementation plan from staff
- ccNSO appointed liaisons (Becky Burr, Keith Davidson) to work with ICANN staff on developing implementation plan
- Meetings have been held with initial clarifying questions posed, more drafting to be done before being ready for public comment and implementation.
- Open actions
  - Response from ccNSO liaisons on open questions regarding manager consent
  - Completion by ICANN of implementation plan dependent on ccNSO clarifications

RDAP Support

What is RDAP?

Registry Data Access Protocol (RDAP) is a newly developed technical standard from the IETF that provides next generation access to registration data. It is intended to be a successor to the WHOIS protocol, but can run in parallel with existing WHOIS servers.

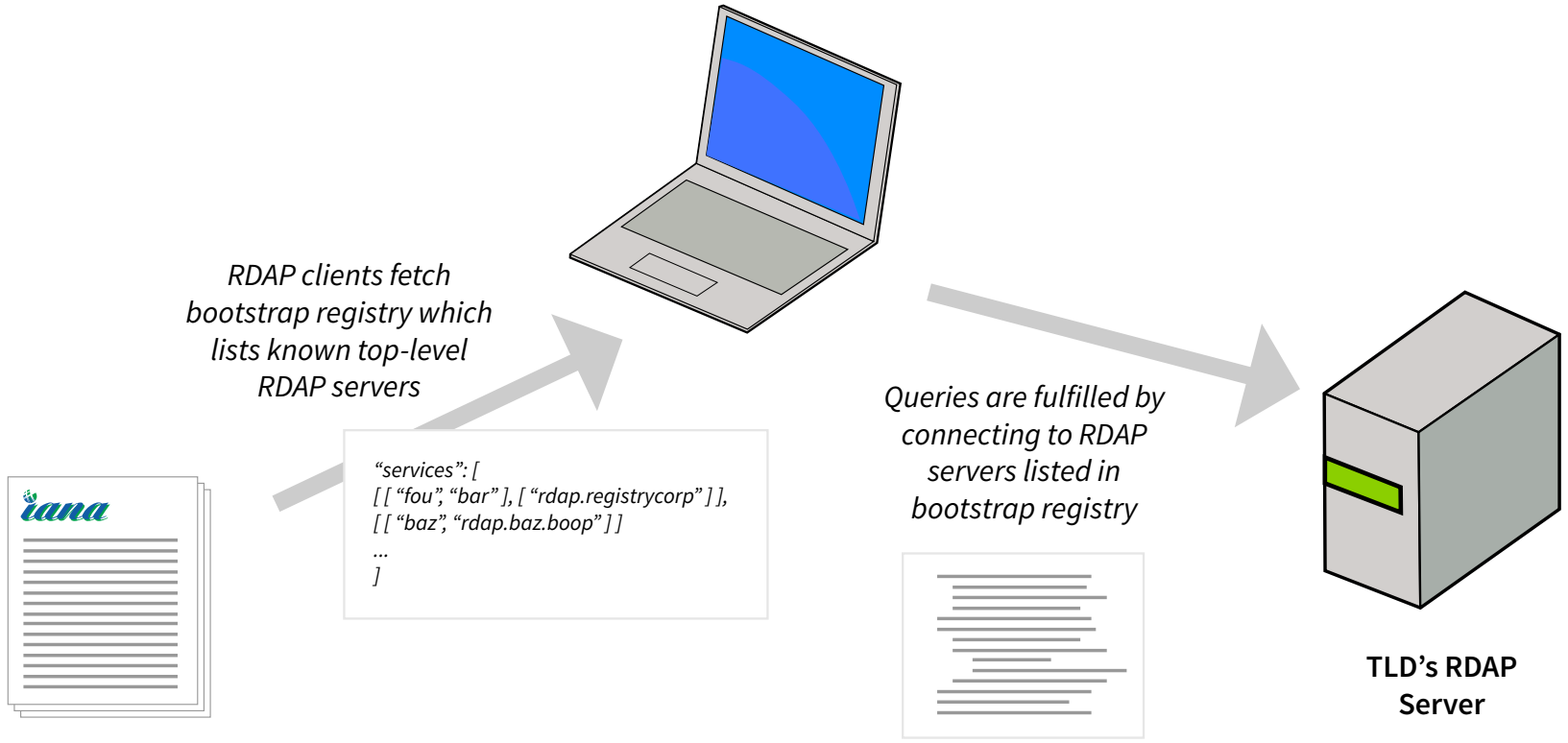
IANA's Role

One of the features RDAP has over WHOIS is automatic discovery of RDAP servers. You no longer have to manually find where the right server is for the data you are looking up, the protocol will do this automatically. It does this by using "bootstrap registries" that are published as an IANA service.

What's new

We have implemented bootstrap registries for IPv4, IPv6, AS numbers and Top-Level Domains. TLD Managers are now able to log into our Root Zone Management System to list their RDAP servers to appear in the bootstrap registry for the DNS.

RDAP Support



Other Work in Progress Updates

1

Parallel Operations

Testing removing NTIA processing by running two services between ICANN and Verisign, ensuring both produce the same root zone.

2

Label Generation Rulesets

Finalising *draft-ietf-lager-specification* within the IETF with plans to use LGRs in IANA's workflow and IDN repository.

3

Rollover of the Root KSK

Community design team has produced a set of recommendations on how to replace the Root Zone key-signing key (KSK) for the first time.

4

TCR Renewal Process

Finalizing processes to select new volunteers from the community to oversee Root KSK operations, including new travel support options.

5

KSK Access Control Upgrades

Improving logistics with the key ceremony room to enhance security and provide for smoother ceremonies.

6

RZMS Development

With transition related development completing, re-evaluate work plan on items discussed with ccNSO, including new authorizer model, improved technical checks, bulk updates etc.

Thank you!

Root Key Signing Ceremony 24

February 2016