ICANN/IANA: Role and Structural Considerations

"To support and enhance the multistakeholder model of Internet policymaking and governance, the U.S. Commerce Department's National Telecommunications and Information Administration (NTIA) today announces its <u>intent</u> to transition key Internet domain name functions to the global multistakeholder community. As the first step, NTIA is asking the Internet Corporation for Assigned Names and Numbers (ICANN) to convene global stakeholders to develop a <u>proposal</u> to transition the current role played by NTIA in the coordination of the Internet's domain name system (DNS).

NTIA's responsibility <u>includes</u> the procedural role of administering changes to the authoritative root zone file – the database containing the lists of names and addresses of all top-level domains – <u>as well as serving as the historic steward of the DNS</u>. NTIA currently contracts with ICANN to carry out the Internet Assigned Numbers Authority (IANA) functions and has a Cooperative Agreement with Verisign under which it performs related root zone management functions. Transitioning NTIA out of its role marks the final phase of the privatization of the DNS as outlined by the U.S. Government in 1997."

Overview of functions

OVERSIGHT

Stewardship through top-level principles:
• Multistakeholderism

- · Competitive market
- · Public accountability
- · Security and stability

Contractual oversight:

- Issue and monitor the IANA contract
- · Issue and monitor the RZM contract

Specific DNS root operations:

Authorise changes

POLICY

Common to all areas:

Monitor IANA SLA

gTLD contracts:

- Authorise, contract and regulate gTLDs
- · Authorise, contract and regulate Registrars

gTLD policy:

- Set policy by multistakeholder consensus
- · Issue delegation / re-delegations instructions to IANA in line with policy

IP / AS Address Set local policy

- by community consensus
- Issue change requests to IANA in line with global policy.

ccTLD policy

- Set local policy by community consensus
- Issue change requests to IANA in line with global policy.

ccTLD policy

IP / AS Address

Set global policy

by community

Issue delegation /

re-delegations

instructions to

IANA in line with policy

consensus

- Set global policy by community consensus
- · Issue delegation / re-delegations instructions to IANA in line with policy

Protocol parameters

- · Set policy by community consensus
- Issue change instructions to IANA

IANA FUNCTIONS

Operate all registries:

- Implement changes in line with
 - published policies.
- Measure performance against SLA
- Refer complex / unclear changes. Publish all change requests

Specific DNS root operations:

- Implement delegations / re-delegations in line with policies.
- Check changes are technically compliant
- Sign root.

RZM FUNCTIONS

Specific DNS root operations:

- Check changes are technically compliant (second pair of eyes)
- Publish root.

Current overlay of organisational split

OVERSIGHT

Stewardship through top-level principles:

- Multistakeholderism
- · Competitive market
- · Public accountability
- · Security and stability

Contractual oversight:

- . Issue and monitor the IANA contract
- Issue and monitor the RZM contract

Specific DNS root operations:

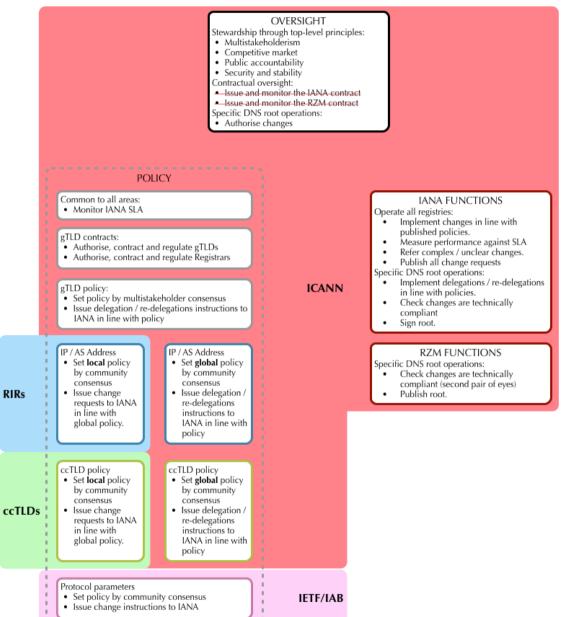
· Authorise changes

NTIA

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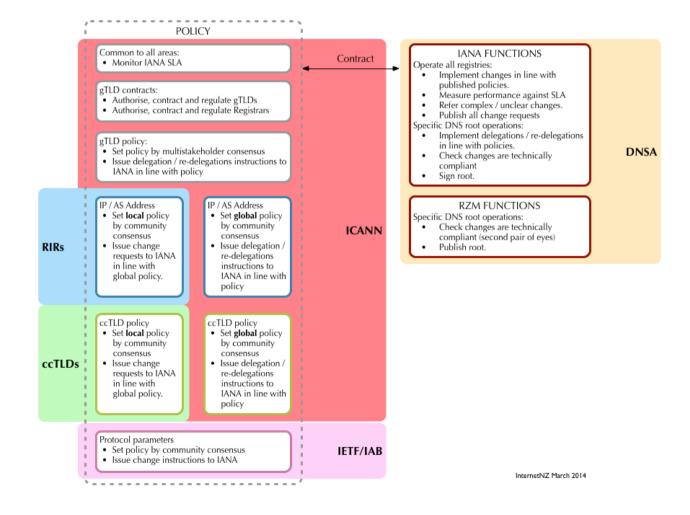
POLICY Common to all areas: IANA FUNCTIONS Monitor IANA SLA Operate all registries: Implement changes in line with published policies. gTLD contracts: Measure performance against SLA Authorise, contract and regulate gTLDs Refer complex / unclear changes. Authorise, contract and regulate Registrars Publish all change requests Specific DNS root operations: Implement delegations / re-delegations gTLD policy: in line with policies. Set policy by multistakeholder consensus Check changes are technically · Issue delegation / re-delegations instructions to compliant IANA in line with policy Sign root. IP / AS Address IP / AS Address RZM FUNCTIONS Set local policy Set global policy Specific DNS root operations: by community by community Check changes are technically VERISIGN **ICANN** consensus consensus compliant (second pair of eyes) Issue change RIRs Issue delegation / Publish root. requests to IANA re-delegations in line with instructions to global policy. IANA in line with policy ccTLD policy ccTLD policy Set local policy Set global policy by community by community consensus consensus ccTLDs Issue change Issue delegation / requests to IANA re-delegations in line with instructions to global policy. IANA in line with policy Protocol parameters · Set policy by community consensus IETF/IAB Issue change instructions to IANA

Proposed by ICANN to SO/AC chairs



IGP proposal

OVERSIGHT Stewardship through top level principles: Multistakeholderism Competitive market Public accountability Security and stability Contractual oversight: Issue and monitor the IANA contract Issue and monitor the RZM contract Authorise changes MOU



Option: New oversight entity and structural separation

OVERSIGHT

Stewardship through top-level principles:

- Multistakeholderism
- · Competitive market
- · Public accountability
- · Security and stability
- Contractual oversight:
- Issue and monitor the IANA contract
- · Issue and monitor the POLICY contract

Specific DNS root operations:

Authorise changes

NEW **ENTITY 1**

POLICY Common to all areas: Monitor IANA SLA gTLD contracts: Authorise, contract and regulate gTLDs · Authorise, contract and regulate Registrars gTLD policy: Set policy by multistakeholder consensus · Issue delegation / re-delegations instructions to IANA in line with policy IP / AS Address IP / AS Address Set local policy Set global policy by community by community **ICANN** consensus consensus RIRs Issue change Issue delegation / requests to IANA re-delegations in line with instructions to global policy. IANA in line with policy ccTLD policy ccTLD policy Set local policy Set global policy by community by community consensus consensus ccTLDs Issue delegation / Issue change requests to IANA re-delegations in line with instructions to global policy. IANA in line with policy Protocol parameters · Set policy by community consensus IETF/IAB Issue change instructions to IANA

IANA FUNCTIONS

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Specific DNS root operations:

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- Sign root.

NEW **ENTITY 2**

RZM FUNCTIONS

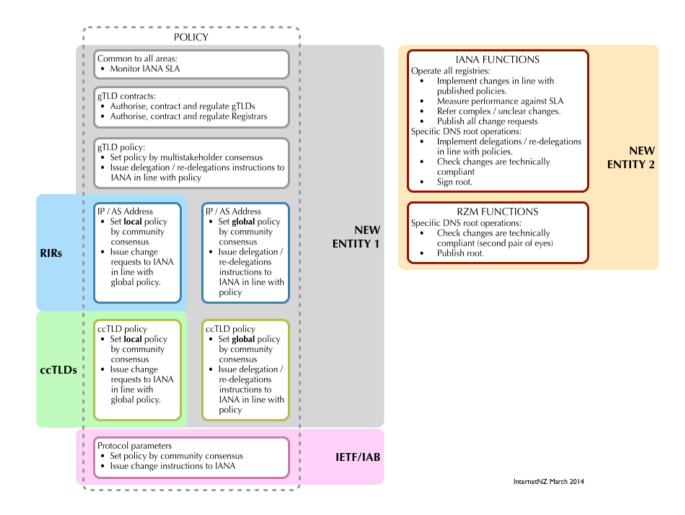
Specific DNS root operations:

- Check changes are technically
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- Publish root.

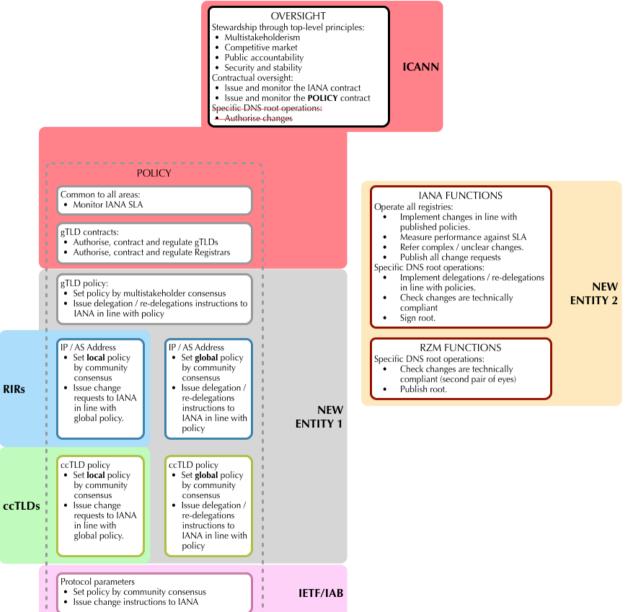
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Option: New policy entity (1) and structural separation

OVERSIGHT Stewardship through top-level principles: Multistakeholderism Competitive market Public accountability Security and stability Contractual oversight: Issue and monitor the IANA contract Issue and monitor the POLICY contract Specific DNS root operations: Authorise changes

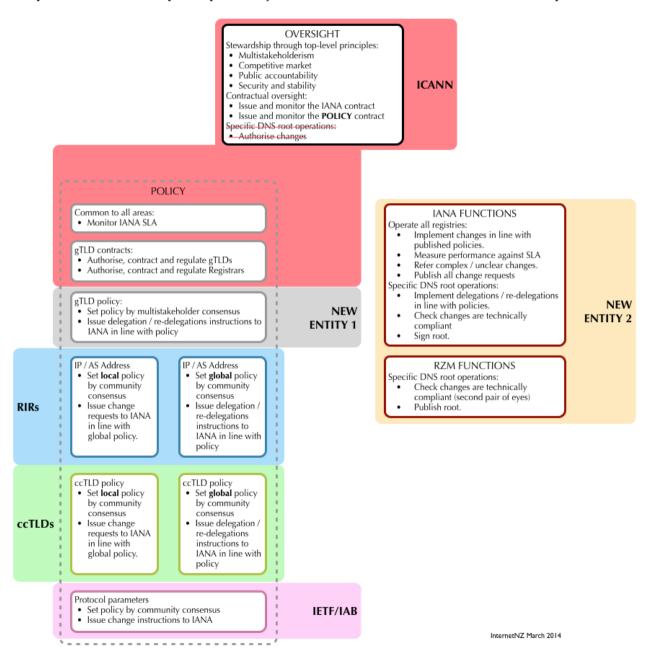


Option: New policy entity (2) and structural separation



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Option: Multiple policy entities and structural separation



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