

DNSルートサーバーシステム関連 検討状況報告

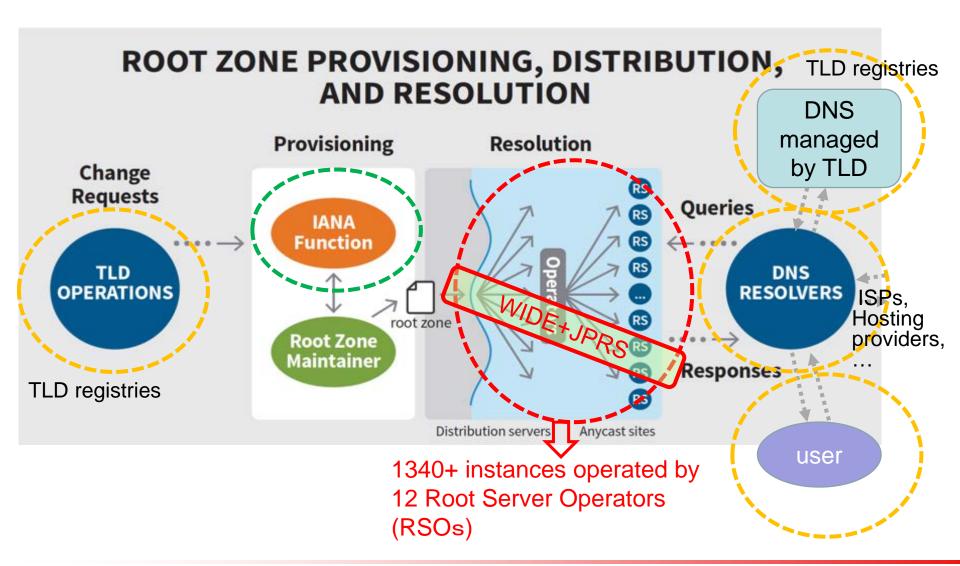
2020年12月3日

日本レジストリサービス(JPRS)

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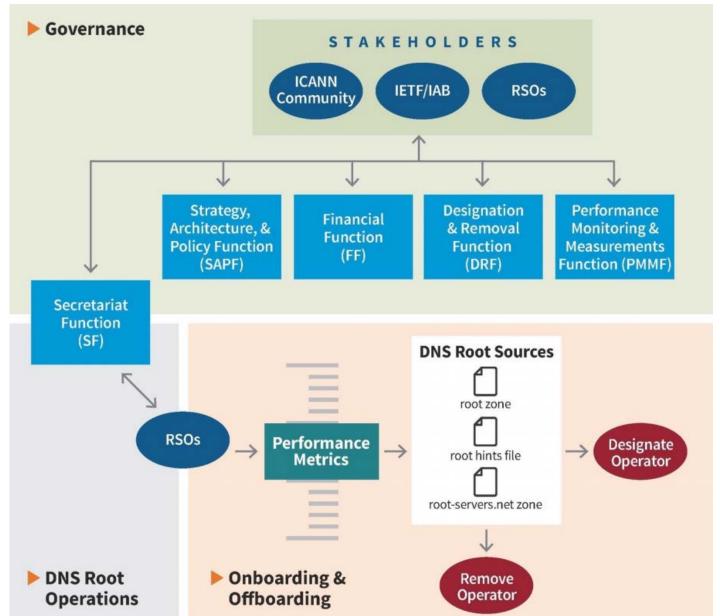


DNSルートサーバーシステム (RSS)の位置づけ



DNSルートサービスのガバナンスモデル提案





RSSAC037 2018/06/15より



提案されたガバナンスモデルでの主要機能

- SAPF: Strategy, Architecture, and Policy Function
 - RSSの技術や構造の将来計画策定、RSOのSLA(技術的/非技術的)の策定、など
- PMMF: Performance Monitoring and Measurement Function
 - ルートサービス全体や各RSOのSLA満足度の監視、測定
- DRF: Designation and Removal Function
 - RSOの新任や辞任/解任を管理(新任/辞任/解任の判断は ICANN理事会)
- FF: Financial Function
 - (RSOの自己資金調達に加え)持続可能なRSS/RSOへの資金提供 モデルを運営
 - 緊急時資金援助、研究・開発の資金援助も含む
- SF: Secretariat Function
 - RSOとインターネットコミュニティ間のチャネル

(RSS : Root Server System RSO : Root Server Operator)



RSSAC (Root Server System Advisory Committee)

- ICANN創設以来存在する諮問委員会の一つ
 - ICANN理事会とコミュニティに対し、RSSの運用、管理、 セキュリティ、完全性に関して助言する委員会
- ICANN69前及び期間中の議論テーマ
 - RSS統括組織と各RSOの契約内容
 - 世界各地からのRSSサービス品質の測定方法
 - RSOの「不良(rogue)性」の定義



RSS GWG (Root Server System Governance Working Group)

- RSSのガバナンスモデルを開発するためのコミュニティ主導のプロセスの核となる検討部会
 - 活動期間:2020年2月~2022年1月(予定)
- ICANN69前及び期間中の議論テーマ
 - RSSAC037を実装するための組織構造の設計
 - 各RSOと契約するRSS統括組織
 - SAPFの役割と組織構造
 - RSOの財務支援の考え方(財務支援が必要な場合)

RSSガバナンス構造のイメージ(2020年10月8日版)



NewOrg as of 8 October 2020

Strategy, Architecture, and Policy Function (SAPF)

- The SAPF is a community-based group that is focused on the management of the strategy and architecture of the Root Server System System (RSS).
- This includes the development of policies related to this function that are to be communicated to the PRS Board for implementation.
- The SAPF role encompasses both the study of technical aspects of the provision of the root service and the broader consideration of the overall architecture of root service provision and the strategies that will align the root service to these architectural principles.
- The SAPF will also be the focal point for community engagement with these tasks and should ensure that its actions are supported through stakeholder engagement.
- The SAPF is chartered by the PRS Board, and the terms of reference for this group are provided by the PRS Board.

Public Root Services (PRS)

PRS is a non-profit corporation whose purpose is to coordinate and oversee the entities providing resolution services for the root zone. PRS is constituted as an affiliate of ICANN. As a legal entity, PRS is a Limited Liability Corporation (LLC), whose single member is ICANN. As such it will have its own articles of incorporation, bylaws, board of directors, and budget. Directors are elected by ICANN as the single member of the corporation.

PRS has an operational role. It does not develop policy, but rather, carries out policies developed by the Strategy, Architecture, and Policy Function (SAPF).

PRS is tasked with fulfilling the following roles and services:

- The Performance Monitoring and Measurement Function (PMMF)
- The Finance Function through contracts and/or agreements with Root Server Operators (RSOs)
- Secretariat Function for SAPF, PRS Board, and the RSOs

PRS maintains relationships with other bodies involved in RSS governance, including:

- RSOs
- IANA
- SAPF
- Root Zone Maintainer (RZM)

sets out the contributions from ICANN to PRS and the obligations of each to the other (e.g. support staff, operations, etc.)

LLC agreement

R7M

ICANN

Board | Community | Org

IANA

Root Server Operators

Multistakeholder Review Panels

 Perform Designation and Removal Function as needed



(参考) M-Root DNSサーバーの拠点展開

- M-Root DNSサーバー
 - 1997~ WIDEプロジェクトによる運用開始
 - 2005~ WIDEプロジェクトとJPRSによる共同運用開始
- 拠点展開状況 (2020年11月現在)
 - 5サイト(東京、サンフランシスコ、パリ、大阪、ソウル)
 - 9インスタンス
- 拠点追加へ
 - アジアを中心に、世界に向けて
 - APNICと協力 (2020年8月31日プレスリリース)
 - ブリスベン拠点準備中
 - その他



ご質問? ご意見?