

RSSAC Caucus Statement of Work for RSSAC001v3

April, 2025

Background

RSSAC001 describes service expectations of root server operators, and requires or recommends that RSOs publish certain information. RSSAC001 version 1 was published in 2015 and version 2 was published in August of 2023.

This proposed work effort will consider new DNS technologies that could become expectations of root server operators (e.g., DNS cookies, request routing infrastructure). Additionally, it will revisit the language of ‘expectations’ and consider if another word, or words, are better for communicating norms. The work party may determine that some DNS technologies are required for RSOs while others are optional, thereby requiring additional terminology to communicate RSO norms.

The work party may choose to create a new version of RSSAC001 or it may determine that a new version is unnecessary.

Scope

The RSSAC Caucus will be asked to discuss and determine the best course of action for the following topics related to RSSAC001v2:

1. Evaluate the existing requirements and expectations in RSSAC001v2 for relevance in today’s RSS environment.
2. Survey which features RSOs implement beyond those expected in RSSAC001v2 and RFC 7720, and determine how best to publish the survey data.
3. Consider whether a new version of RSSAC001 should communicate both required and optional DNS technologies or continue using a language of ‘expectations’. This may result in a new title for RSSAC001v3.
4. Consider if any existing service expectations should be revised.
5. Consider if any new service expectations, requirements, or options should be added.
6. Consider if any existing service expectations should be removed.
7. Evaluate RSSAC001v2 overall for correct and up-to-date use of terminology.

RFC 7720

RFC 7720 is a companion document to RSSAC001v2, which specifies the protocol and deployment requirements for the DNS root name service. The Internet Architecture Board should be made aware that this work party is being formed to evaluate and possibly update RSSAC001v2. The IETF may wish to also update RFC 7720 at the same time.

Deliverable

The work party may determine that a new version of RSSAC001 is not necessary, in which case the work party may decide to close itself. If the work party decides to stop working without producing a new version of RSSAC001 it must give two weeks notice on the RSSAC Caucus mailing list for interested Caucus members to voice dissent. If no Caucus member voices dissent the work party will be considered closed. However, if one or more Caucus members voice dissent in this two week period the work party Leader will inform the RSSAC and the matter will be resolved by a vote of the RSSAC.

If the work party decides to publish a new version of RSSAC001 (RSSAC001v3) it will be voted upon by the RSSAC before becoming an RSSAC publication.

Expected Date of Delivery

If the work party determines that a new version of RSSAC001 is necessary, a final draft of RSSAC001v3 should be submitted to the RSSAC no later than one year after approval of this statement of work. Submission prior to the deadline is welcome. If the work party is expected to continue working after this deadline, the work party leader should inform the RSSAC of this along with the new expected date of delivery.

Guidelines

This effort is to be carried out on the main RSSAC Caucus mailing list and involve any member of the RSSAC Caucus that wishes to participate.

The first task of the work party is to appoint a leader. They will ensure the work progresses forward. If they are an RSSAC member they will give updates on the work effort at RSSAC Caucus meetings and monthly RSSAC meetings. If they are not an RSSAC member the work party will appoint a shepherd, who is an RSSAC member, and the shepherd will be responsible for keeping the RSSAC updated.

RSSAC support staff will assist the work party deliberation of the work, including setting up a mailing list for the work party, arranging and supporting regular teleconference calls, taking notes of meetings, and drafting background materials if needed.

References

RSSAC001v1: Service Expectations of Root Servers

<https://itp.cdn.icann.org/en/files/root-server-system-advisory-committee-rssac-publications/rssac-001-root-service-expectations-04dec15-en.pdf>

RSSAC001v2: Service Expectations of Root Servers

<https://itp.cdn.icann.org/en/files/root-server-system-advisory-committee-rssac-publications/rssac-001-root-service-expectations-01aug23-en.pdf>

RFC 7720: DNS Root Name Service Protocol and Deployment Requirements

<https://datatracker.ietf.org/doc/html/rfc7720>