Statement of Work and Scope
RSSAC047v2
3 August 2021

Background

Recommendation #1 from RSSAC047 asks the ICANN Board to, "commission an initial implementation of the measurement system described in this document to gather operational data and experience from actual monitoring of the RSS." In response to this, the ICANN organization has been working on an initial implementation of the metrics defined in RSSAC047.

RSSAC047 defines:
- Measurements, metrics, and thresholds that root server operators (RSOs) meet to provide a minimum level of performance. The thresholds are based on technical metrics designed to assess the performance, availability, and quality of service that each root server identifier (RSI) provides. The thresholds and the metrics on which they are based are included as the RSSAC's input to a yet-to-be defined evaluation process for future RSOs.
- System-wide, externally verifiable metrics and thresholds which demonstrate that the root server system (RSS) as a whole is online and serving correct and timely responses.

The initial implementation has identified a small number of errors in definitions of some metrics. The purpose of this work party is to discuss and resolve these issues in a second version of RSSAC047.

Scope

The scope of the RSSAC047v2 work party should be limited to:
- correcting technical errors in definitions of metrics as identified by the initial implementation.
- addition of a mandatory review period for the RSSAC047 metrics document (e.g., every two years).

Deliverables

A final draft of RSSAC047v2 will be delivered to RSSAC for approval and publication.

Date of Delivery

The work party shall submit a first draft to the RSSAC prior to November 2021. Submission prior to the deadline is welcome.

Guidelines

This work will occur in an RSSAC Caucus Work Party adhering to the RSSAC operational procedures in its work. At its first meeting the work party will choose a work party leader. If the work party leader is not an RSSAC member, the work party will choose a shepherd who is an RSSAC member. The work party shepherd is responsible for liaising between the RSSAC and the work party. The work party leader/shepherd will report progress on this work to RSSAC as appropriate.

In the event that the deadline will not be realized, the work party leader/shepherd should inform RSSAC immediately and provide details of the work that cannot be completed by the deadline.

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, as needed.

Prior Relevant Work

RSSAC047: RSSAC Advisory on Metrics for the DNS Root Servers and the Root Server System, https://www.icann.org/en/system/files/files/rssac-047-12mar20-en.pdf

An initial implementation of RSSAC047 prepared by ICANN org, https://github.com/icann/root-metrics