

# Board Technical Committee (BTC) Activity Report – 1 January through 30 June 2022

## Section I – Completed Activities

Items	Description	Completion Date	Accomplishments/Outcome
<b>Oversee the implementation of RZERC-003 by IANA.</b>	The BTC to review the proposal for IANA implementation of RZERC-003 recommendations.	February 2022	The BTC has approved the recommendations presented by ICANN org at its meeting of January 2022 and ratified by the Board <b>Resolutions 2022.02.24.01, 2022.02.24.02, 2022.02.24.03</b> <sup>1</sup>
<b>ICANN Managed Root Server (IMRS) Strategy</b>	The BTC to oversee the finalization of the IMRS strategy taking into consideration inputs provided by the community.	June 2022	OCTO has published revised version of the IMRS strategy in its document <b>OCTO-016v2</b> <sup>2</sup> .
<b>Emerging Alternative Name Space Based on Blockchain Technology.</b>	BTC to work with OCTO to Study Emerging Alternate Naming System Based on Blockchain Technologies.	April 2022	OCTO has published a document reviewing the most popular alternate naming system and their potential impact on the DNS in <b>OCTO-034</b> <sup>3</sup>

<sup>1</sup> RZERC003: Adding Zone Data Protections to the Root Zone - <https://features.icann.org/rzerc003-adding-zone-data-protections-root-zone>

<sup>2</sup> OCTO-016v2 - ICANN's Root Name Service Strategy and Implementation - <https://www.icann.org/en/system/files/files/octo-016-27jun22-en.pdf>

<sup>3</sup> OCTO-034 - Challenges with Alternative Name Systems - <https://www.icann.org/en/system/files/files/octo-034-27apr22-en.pdf>

## Section II – Activities in Progress

Item	Description	Estimated Completion Date	Accomplishments/Outcome
<b>Name Collision Analysis Project (NCAP) – Study 2</b>	The BTC to oversee the work on NCAP Study-2, and regularly update the Board on its progress.	Q3 2022	Work on Study-2 is in progress with the support of an external contractor. A report is expected to be delivered to the BTC at the end of Q2 of 2022.
<b>Evolution of the Root Server System governance: RSAAC037/038 implementation plan</b>	The BTC to oversee and act as the Board Caucus group for the implementation of RSSAC037/038.	TBC	The Root Server System Governance Working Group (RSSG-WG) through its work continues to explore ways to fine tune and implement the proposals in RSSAC037. The Working group composition has been extended to involve all the Root Server Operators.
<b>Root Zone Management (RZM) Evolution Study</b>	<p>To conduct an analysis of whether and how to revise the existing RZM through two studies:</p> <ul style="list-style-type: none"> <li>- The first study would evaluate the process as it is today and provide possible recommendations on incremental changes that could be made to make the process more robust.</li> <li>- The second study would not be limited to making incremental changes to the current approach but would instead consider a potential new radical approach for making changes to the content of the root zone.</li> </ul>	Q3 2022	A contractor was selected and the work on the first study took place throughout 2021. The first draft of the study was delivered to OCTO in late November 2021. This first draft went to public comment in Q1 2022. The report was updated based on feedback from the public comment and is now final and will be sent to the BTC at the beginning of Q3 2022.
<b>Implementation of DSFI-TSG Recommendations</b>	The BTC to oversee steps taken by Org to implement recommendations submitted by the DSFI-TSG	TBC	The CEO has received and accepted the DSFI-TSG recommendations and started an internal process for their assessment and implementation under the oversight of the BTC.

## Section III: Appendix – Resolutions Recommended by the BTC and Passed by the Board

### PROPOSED RESOLUTIONS:

#### Resolutions [2022.02.24.01, 2022.02.24.02, 2022.02.24.03] [RZERC003: Adding Zone Data Protections to the Root Zone](#)

Whereas, in February 2021, the Internet Engineering Task Force (IETF) produced [RFC 8976](#) documenting a new technique for verifying the contents of Domain Name System (DNS) zone files: Message Digests for DNS Zones (aka "ZONEMD").

Whereas, on 12 February 2021, the ICANN Root Zone Evolution Review Committee (RZERC) published [RZERC003: Adding Zone Data Protections to the Root Zone](#) containing three recommendations to ICANN in support of implementing the ZONEMD protocol in the DNS root zone.

Whereas, the Board Technical Committee (BTC) has considered RZERC003 and ICANN org's feasibility assessment of implementation of the recommendations and found that implementing the recommendations would be in alignment with ICANN's strategic goals and mission to ensure the stable and secure operation of the Internet's unique identifier systems.

**Resolved (2022.02.24.01)** the Board accepts Recommendation 1 calling for ICANN org to engage with the Root Zone Maintainer and the Root Server operators to ensure the addition of a ZONEMD resource record to the root zone will not negatively impact the distribution of root zone data within the Root Server System, and directs the ICANN President and CEO, or his designee(s), to implement this recommendation.

**Resolved (2022.02.24.02)** the Board accepts Recommendation 2 calling for ICANN org to engage with relevant technical bodies to raise awareness of the plan for the deployment of ZONEMD in the root zone, and directs the ICANN President and CEO, or their designee(s), to implement this recommendation.

**Resolved (2022.02.24.03)** the Board accepts Recommendation 4 calling for ICANN org to develop a plan for deploying ZONEMD in the root zone with its contractors and make the plan available to RZERC for review, and directs the ICANN President and CEO, or his designee(s), to implement this recommendation.