
Public Comment Summary Report

Root Zone Label Generation Rules Version 5 (RZ-LGR-5)

Open for Submissions Date:

Thursday, 24 March 2022

Closed for Submissions Date:

Wednesday, 11 May 2022 (extended from 29 April 2022)

Summary Report Due Date:

Monday, 23 May 2022 (extended from 19 May 2022)

Category: Technical

Requester: ICANN Org

ICANN org Contact(s): pitinan.koo@icann.org, sarmad.hussain@icann.org

Open Proceeding Link:

<https://www.icann.org/en/public-comment/proceeding/root-zone-label-generation-rules-version-5-rz-lgr-5-24-03-2022>

Outcome:

ICANN org appreciates the comments submitted by the community on the Root Zone Label Generation Rules Version 5 (RZ-LGR-5).

There are 26 comments received. All comments support that script LGRs created by the Generation Panel (GPs) are integrated correctly into the RZ-LGR-5 by the Integration Panel (IP). Of all the comments, 10 of them provide editorial suggestions or observation notes for further consideration by the Integration Panel (IP). As per the [LGR Procedure](#), the IP analyzes the comments and incorporates them as needed. The final version of RZ-LGR-5 will be posted on the Root Zone Label Generation Rules (RZ-LGR) [web page](#).

Section 1: What We Received Input On

Recently the Generation Panels (GPs) for Greek, Latin, Japanese, Korean, and Myanmar scripts have finalized their RZ-LGR proposals after Public Comment. In addition, the Armenian and Cyrillic script GPs had also finalized their proposals, which were deferred from integration into RZ-LGR by the Integration Panel (IP) because they were related to Greek and Latin scripts.

The IP has successfully evaluated the RZ-LGR proposals for these scripts and integrated the proposals, along with other scripts in the RZ-LGR version 4, to develop the fifth version (RZ-LGR-5). As per the [LGR Procedure](#), RZ-LGR-5 was published for Public Comment to gather community feedback for its finalization. Proposals for additional scripts will be integrated in future versions of RZ-LGR.

Section 2: Submissions

Organizations and Groups:

Name	Submitted by	Initials
Japanese Script Generation Panel	Hiro Hotta	JPAN-GP
Myanmar Script Generation Panel	Yin May Oo	MYMR-GP
Thai Script Generation Panel	Wanawit Ahkuputra	THAI-GP
Latin Script Generation Panel	Mirjana Tasic	LATN-GP
Armenian Script Generation Panel	Igor Mkrtumyan	ARMN-GP
Khmer Script Generational Panel	Rapid SUN	KHMR-GP
Cyrillic Script Generation Panel	Dusan (Душан) Stojicevic (Стојичевић)	CRYL-GP
Sinhala Script Generation Panel	Harsha Wijayawardhana	SINH-GP
Lao Script Generation Panel	Anisone Kingsada	LAOO-GP
Ethiopic Script Generation Panel	Dessalegn Yehuala	ETHI-GP
Chinese Script Generation Panel	Wei WANG	HANS-GP
Neo-Brahmi Generation Panel	Udaya Narayana Singh	NBGP
Bangla Script Working Group of Neo-Brahmi Generation Panel	Mohammad Mamun Or Rashid	Beng-NBGP
Devanagari Script Working Group of Neo-Brahmi Generation Panel	Neha Gupta	Deva-NBGP
Gujarati Script Working Group of Neo-Brahmi Generation Panel	Akshat Joshi	Gujr-NBGP
Malayalam Script Working Group of Neo-Brahmi Generation Panel	Veena Solomon	Mlym-NBGP
Tamil Script Working Group of Neo-Brahmi Generation Panel	Shanmugam Rajabhathar	TamI-NBGP
Telugu Script Working Group of Neo-Brahmi Generation Panel	Uma Maheshwar Rao Garapati	Telu-NBGP
Integration Panel	Asmus Freytag	IP
Arabic Script Generation Panel	Nabil Benamar	ARAB-GP
Korean Script Generation Panel	Kyongsok KIM	KORE-GP
Greek Script Generation Panel	Panagiotis Papaspiliopoulos	GREK-GP

Name	Submitted by	Initials
Registry Stakeholder Group		RySG
Hebrew Script Generation Panel	Doron Shikmoni	HEBR-GP

Individuals:

Name	Affiliation (if provided)	Initials
Jitti Kunphruk	Thai GP	JK
Michael Bauland	Latin GP, Registrar Stakeholder Group member	MB

Section 3: Summary of Submissions

ICANN org received 26 comments on the RZ-LGR-5. All comments support that script proposals created by the GPs are correctly integrated into RZ-LGR-5 by the IP.

MYMR-GP, THAI-GP, GREK-GP, RySG, Mylm-NBGP, and HEBR-GP thank and congratulate ICANN org, GPs, IP, and ICANN community who supported this work.

The following GPs do not have any additional suggestions or observations: THAI-GP, LATN-GP, KHMR-GP, CRYL-GP, LAOO-GP, HANS-GP, Deva-NBGP, Gujr-NBGP, Mlym-NBGP, Tami-NBGP, Telu-NBGP, KORE-GP, and GREK-GP.

There are 10 comments from GPs and individuals which include editorial suggestions or observation notes for further consideration by the IP.

JPAN-GP suggests editorial changes in the Overview and Summary document to make the terms of Japanese variant consistent. JPAN-GP also suggests minor edits in Japanese RZ-LGR-5 XML and Common RZ-LGR-5 XML.

MYMR-GP provides the list of editorial suggestions for the description section of the Myanmar RZ-LGR XML.

MB comments that the table of contents of Overview and Summary document should be updated to reflect the correct page numbers.

ARMN-GP raises that rationale of code point U+0587 exclusion from the Maximal Starting Repertoire (MSR) should be revisited.

SINH-GP shares that the Chandra Bindu has recently been encoded in Sinhala script. The SINH-GP may need to revise the RZ-LGR for this code point in the future.

ETHI-GP provides the list of cross-script variant code point candidates and requests the IP to make modification, if necessary. The list includes Ethiopic-Armenian, Ethiopic-Hebrew, and Ethiopic-Cyrillic candidates. ETHI-GP also suggests editorial changes for the description section of the Common RZ-LGR-5 XML.

Beng-NBGP shares five observations: 1) pointing out additional languages written in Bangla script i.e, Hajong, Koda, Sadri, and Manipuri, 2) noting that labels are allowed by Bangla LGR even though they are misspelled, 3) suggesting the tag 'Matra' should be written as 'Matra (Kar)' to avoid ambiguity for Bengali readers, 4) noting the encoding of code points 09DC, 09DD, and 09DF should be reclaimed, and 5) suggesting that an exhaustive list of Bangla LGR-support labels should be developed.

NBGP shares four observations on the Overview and Summary document: 1) in Section 1.1.1, more Latin-related scripts may arise in the future which will need more analysis, 2) in general, hyperlinks to script LGRs could be added in the text, 3) in Section 8.4, Samiran Gupta should be included, and 4) in Section 8.3, hyperlinks to GP members should be added.

ARAB-GP shares additional reference that could be added to the Arabic RZ-LGR. ARAB-GP also suggests a code point name correction in the Arabic RZ-LGR-5 XML.

HEBR-GP shares two (2) observations: 1) the inclusion of U+0069 and U+006F to the variant sets seems unnecessary as they are not allowed by Hebrew LGR, and 2) the test result file provided by ICANN staff have rendering issue when labels end with a Latin code point and invalid by RFC5893 Bidi rule.

Section 4: Analysis of Submissions

ICANN org thanks all the contributors for their valuable input and feedback. All comments have been submitted to the IP. The IP has analyzed all comments and provides the following feedback.

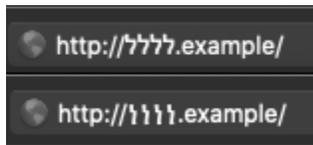
The editorial suggestions from JPAN-GP, MYMR-GP, ETHI-GP, NBGP, Beng-NBGP, ARAB-GP, and MB will be incorporated into the final version of RZ-LGR-5.

In response to ARMN-GP's comment, the IP clarifies that U+0587 could not be included in the repertoire for the Armenian script because it is DISALLOWED in IDNA2008 (see RFC [5892](#)) and therefore not allowed in IDNs. A note will be placed into the Armenian Element LGR to resolve any ambiguities.

The IP notes that the additional consideration for Sinhala Chandra Bindu would be required in the future if the code point is to be included in the MSR.

Regarding the suggested variant candidates from ETHI-GP, the IP has considered the attached list of potential cross-script variants and decided that there is a noticeable difference in characteristics among the scripts in question. The case that comes closest in the IP's view would be the single instance of a Hebrew letter U+05DC resembling an Ethiopic letter U+1290. However, even this case, the IP finds noticeable differences in width that become apparent when one tries to compose a whole label.

Following is the display of these code points, by using the default a Safari web browser font on a Mac machine.



The IP analyzed Beng-NBGP's observations and provides the following responses. Beng-NBGP1 suggests additional languages which are already listed in the supporting document; therefore no further action is required. Beng-NBGP2 and Beng-NBGP5 are similar; the IP concurs that there's no requirement in an LGR to enforce only orthographically valid spellings. Beng-NBGP3 suggests editorial change on the name 'Matra' and 'Kar', which will be updated in the description of Bangla Element XML. Beng-NBGP4 is noted by the IP but it is not in the scope of RZ-LGR project.

The IP analyzed NBGP's observations and provide following responses. Based on NBGP1, the future uses of existing scripts or code points can be addressed in a future version of the RZ-LGR; as in the case of potentially emerging scripts, all such uses can be considered once the evidence points to their level of use which passes the threshold levels that allow them to be put in a future version of the MSR. The hyperlinks suggested in NBGP2 and NBGP4 will be added where appropriate, while keeping the manageability of the document. Additional contributor name will be added based on NBGP3.

The IP will update the Arabic code point names as suggested by ARAB-GP. The additional suggested reference will not in included as it is not a publicly available research paper.

In response to HEBR-GP1, the IP clarifies that ASCII labels will coexist with Hebrew ones in the Root Zone. The Latin GP identified these two code points, U+0069 and U+006F, as high risk, particularly as ".ooo" is already delegated. They therefore identified those as cross-script variants with Hebrew. Under the rules of the integration process, these are "inherited" into the Hebrew LGR. HEBR-GP2 is the internal working files which is not in the scope of the RZ-LGR-5 documents.

Section 5: Next Steps

After consideration of the comments, and modification by the IP as needed, the final version of the RZ-LGR-5 will be posted on the [Root Zone Label Generation Rules page](#).