At-Large Workspace: Proposal for Chinese Script Root Zone Label Generation Rules

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<th>Statement Name</th>
<th>Status</th>
<th>Assignee(s)</th>
<th>Call for Comments Open</th>
<th>Call for Comments Close</th>
<th>Vote Open</th>
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<th>Date of Submission</th>
<th>Staff Contact and Email</th>
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Brief Overview

**Purpose:** The Chinese community formed the Chinese Script Generation Panel (GP), which in turn has developed a proposal for Chinese Script Root Zone Label Generation Rules (proposal, supporting document, and appendices). As per the LGR procedure, this proposal is being posted for Public Comment to allow those who have not participated in the Chinese Script GP to make their views known. Based on feedback received, the Chinese Script GP will finalize the proposal for its evaluation and submission for integration into the Label Generation Rules for the Root Zone (RZ-LGR).

**Current Status:** Currently there are multiple script communities that have formed generation panels and are actively working towards developing Label Generation Rules (LGRs) for the Root Zone including Chinese, Greek, Japanese, Korean, Latin, Myanmar, and Neo-Brahmi (Bangla). LGRs for the following 16 scripts have already been completed and integrated into the RZ-LGR: Arabic, Devanagari, Ethiopic, Georgian, Gujarati, Gurmukhi, Hebrew, Kannada, Khmer, Lao, Malayalam, Oriya, Sinhala, Tamil, Telugu, and Thai. In addition, Armenian and Cyrillic scripts have also been completed but have been deferred until related script proposals have been received.

**Next Steps:** Following the Public Comment period and submission of the proposal by the Chinese Script GP with any changes to reflect the Public Comment submissions received, the Integration Panel (IP) will evaluate the proposal. If the proposal is successfully evaluated, it will be integrated into a subsequent version of the RZ-LGR. If not, the proposal will be sent back to the Chinese Script GP with comments for further consideration and revision.

Section I: Description and Explanation

Following the Call for Generation Panels to Develop Root Zone Label Generation Rules, the Chinese community organized to form the Chinese Script Generation Panel (GP), which was seated by ICANN on 24 September 2014. The Chinese Script GP has developed the Proposal for Chinese Script Root Zone Label Generation Rules (proposal, supporting document, and appendices), following the format prescribed in the LGR specification.

According to the LGR procedure, the starting point for creating a script LGR for work of the Chinese Script GP is the latest version of the Maximal Starting Repertoire (MSR). The work has been carried out following the specification of the generation panel's tasks, as described in the LGR Procedure and in particular, Section B.3 "Variant Rule Generation Procedure." These tasks are summarized in the guide on setting up and running a Generation Panel.

Each generation panel's proposals are posted for Public Comment. This permits those who have not participated in the generation panel to make their views known. A well-functioning Public Comment period is a critical component of this procedure because there is no formal appeal mechanism for the RZ-LGR being developed.

The LGR Procedure consists of two passes. The first pass creates a set of LGRs, each specific for a given script or writing system, and is carried out by a generation panel composed of people with deep experience or interest in the script, writing system, or language used by some community of Internet users. These panels submit their LGR proposals for review by an Integration Panel consisting of independent experts in the Domain Name System (DNS), and Unicode and scripts. The Integration Panel has responsibility for the second pass, which involves integrating the proposals into a unified set of LGRs for the root zone, taking into account the need for a secure, stable, and reliable DNS root zone.

Section II: Background

Label Generation Rules for the Root Zone (RZ-LGR) are being developed to define a conservative mechanism to determine valid Internationalized Domain Name (IDN) top-level domain (TLD) and their variant labels, for the stable and secure operation of the Internet's root zone.

The successful development of Label Generation Rules depends on having community-based generation panels for each script that will be used in the root zone. Generation panel members are representatives from each of the communities that use a particular script or writing system and their role is to identify the valid characters, variants, and Whole Label Evaluation (WLE) rules for the given script or writing system. Each generation panel starts by considering the code points for the relevant script that are present in the Maximal Starting Repertoire (MSR) and, based on these, develops a Label Generation Rules proposal to be used to generate TLD labels for that script. In doing so, they may need to coordinate efforts with other generation panels whenever their respective scripts are closely related. These proposals are then reviewed by the community through a Public Comment proceeding and by an expert Integration Panel for approval and integration into the LGR for the root zone. The details are defined in the LGR Procedure.

Section III: Relevant Resources

Section IV: Additional Information

Related materials can be found at the following links:

- Guidance on Designing LGRs Supporting Variant Labels: https://tools.ietf.org/rfc/rfc8228.txt
- LGR proposals already received: https://www.icann.org/resources/pages/lgr-proposals-2015-12-01-en

Section V: Reports

FINAL VERSION SUBMITTED (IF RATIFIED)

The final version to be submitted, if the draft is ratified, will be placed here by upon completion of the vote.

FINAL DRAFT VERSION TO BE VOTED UPON BY THE ALAC

The final draft version to be voted upon by the ALAC will be placed here before the vote is to begin.

DRAFT SUBMITTED FOR DISCUSSION

The first draft submitted will be placed here before the call for comments begins. The Draft should be preceded by the name of the person submitting the draft and the date/time. If, during the discussion, the draft is revised, the older version(s) should be left in place and the new version along with a header line identifying the drafter and date/time should be placed above the older version(s), separated by a Horizontal Rule (available + Insert More Content control).