PROPOSALS FOR DEVANAGARI, GURMUKHI, AND GUJARATI SCRIPTS' ROOT ZONE LABEL GENERATION RULES

Open Date:	27 July 2018	**Close Date:**	8 September 2018
Originating Organization:	Global Domains Division		
Categories/Tags:	Top-Level Domains		
Brief Overview:	The Neo-Brahmi Script Generation Panel (NBGP) was formed by nine communities that use scripts derived from the Brahmi script. NBGP is developing Root Zone Label Generation Rules (LGR) for Bengali, Devanagari, Gujarati, Gurmukhi, Kannada, Malayalam, Oriya, Tamil and Telugu scripts. The GP intends to publish the proposals for the LGRs of these nine scripts in three sets, releasing proposals for the scripts which share cross-script variant code points together to the extent possible. The first set includes the following: (1) *Proposal for the Devanagari Script Label Generation Rules for the Root Zone,* (2) *Proposal for the Gurmukhi Script Label Generation Rules for the Root Zone,* and (3) *Proposal for the Gujarati Script Label Generation Rules for the Root Zone.* As per the [LGR Procedure](#), these proposals are being posted for public comments to allow those who have not participated in the NBGP to make their views known. Based on the feedback, the NBGP will finalize each proposal for its evaluation and integration into the Label Generation Rules for the Root Zone.		
Link:	[Do not complete; Web Content Operations Team will insert URL]		

PUBLIC COMMENT PROCEEDING	
Open Date:	27 July 2018
Close Date:	8 September 2018
Summary Report Due Date:	22 September 2018

IMPORTANT INFORMATION LINKS

[This section will be completed by the Web Content Operations Team]

BRIEF OVERVIEW

Originating Organization:	Global Domains Division
Categories/Tags:	Top-Level Domains
Brief Overview:	***Purpose:*** The Neo-Brahmi script Generation Panel (NBGP) was formed by nine communities that use scripts derived from the Brahmi script. NBGP is developing Root Zone Label Generation Rules (LGR) for Bengali, Devanagari, Gujarati, Gurmukhi, Kannada, Malayalam, Oriya, Tamil and Telugu scripts. NBGP intends to publish the proposals for the LGRs of these nine scripts in three sets, releasing proposals for scripts that share cross-script variant code points together to the extent possible. The first set includes the following: (1) *Proposal for the Devanagari Script Label Generation Rules for the Root Zone* (2) *Proposal for the Gurmukhi Script Label Generation Rules for the Root Zone* (3) *Proposal for the Gujarati Script Label Generation Rules for the Root Zone* As per the LGR Procedure, these proposals are being posted for public comment to allow those who have not participated in the NBGP to make their views known. Based on the feedback, the NBGP will finalize each proposal for submission for integration into the Label Generation Rules for the Root Zone (RZ-LGR). ***Current Status:*** Currently there are multiple script communities which have formed generation panels and are actively working towards developing the Label Generation Rules for the Root Zone, including Chinese, Greek, Japanese, Korean, Latin, Myanmar and Neo-Brahmi. In addition, Arabic, Armenian, Ethiopic, Georgian, Khmer, Lao and Thai script GPs have already completed and submitted their LGR proposals. Except for Armenian and Cyrillic which have been deferred, the remaining six scripts have been integrated into the RZ-LGR. ***Next Steps:*** Following the public comments and submission of the proposals with any changes to reflect the public comments, the Integration Panel (IP) will evaluate the final proposals by the NBGP for these three scripts. Any proposals successfully evaluated will be integrated into a subsequent version of the RZ-LGR. Remaining proposals will be sent to the NBGP with comments for further consideration and revision.

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DETAILED INFORMATION

Section I: Description and Explanation

Following the Call for Generation Panels to Develop Root Zone Label Generation Rules, the Neo-Brahmi script Generation Panel (NBGP) was formed by nine communities using scripts derived from Brahmi script. It was seated by

ICANN on 26 May 2015. The NBGP has developed the Proposal for the Devanagari Script Root Zone Label Generation Rules (LGR and supporting documentation), Proposal for the Gurmukhi Script Root Zone Label Generation Rules (LGR and supporting documentation), and Proposal for the Gujarati Script Root Zone Label Generation Rules (LGR and supporting documentation) following the format prescribed in the LGR specification.

The starting point for creating a script LGR for the Root Zone is the latest version of the Maximal Starting Repertoire (MSR-3). The work has been carried out following the specification of Generation Panel's tasks, as described in the LGR Procedure in particular, Section B.3 "Variant Rule Generation Procedure". These tasks are summarized in the guide on Setting up and Running a Generation Panel.

The 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 to the integration panel. A well-functioning public comment is a critical component of this procedure, because there is no formal appeal mechanism for the 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; this task is carried out by Generation Panels 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 to ICANN for review by an Integration Panel. The Integration Panel consists of independent experts in DNS, Unicode and scripts, and has responsibility for the second pass. This second pass 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 (LGR) for the Root Zone are being developed to define a conservative mechanism to determine valid IDN TLDs and their variants, for stable and secure operation of the Internet's Root Zone.

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 of the each of the communities that use a particular script or writing system – 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 and, based on them, develop a Label Generation Rule proposal to be used to generate TLDs for that script. In doing so, they may need to coordinate efforts with other GPs, whenever their respective scripts are closely related. These proposals are then reviewed by the community through public comment 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: Document and Resource Links

Proposal for the Devanagari Script Root Zone Label Generation Rules (LGR and supporting documentation)

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Proposal for the Gurmukhi Script Root Zone Label Generation Rules (LGR and supporting documentation)
Proposal for the Gujarati Script Root Zone Label Generation Rules (LGR and supporting documentation)

Section IV: Additional Information

Related materials can be found at the following links:

Root Zone Label Generation Rules: https://www.icann.org/resources/pages/root-zone-lgr-2015-06-21-en
Maximal Starting Repertoire: https://www.icann.org/resources/pages/msr-2015-06-21-en
Procedure to Develop and Maintain the Label Generation Rules for the Root Zone in Respect of IDNA Labels:
https://www.icann.org/en/system/files/files/draft-lgr-procedure-20mar13-en.pdf
Machine readable specification for the Label Generation Rules: https://www.rfc-editor.org/rfc/rfc7940.txt
Guidance on Designing LGRs Supporting Variant Labels: https://tools.ietf.org/rfc/rfc8228.txt
LGR Toolset: https://www.icann.org/resources/pages/lgr-toolset-2015-06-21-en
Repository of Guidelines and other relevant documents:
https://www.icann.org/resources/pages/root-zone-lgr-documentation-2017-12-15-en
LGR proposals already received: https://www.icann.org/resources/pages/lgr-proposals-2015-12-01-en

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