

ABU DHABI 28 October–3 November 2017

IDN Program Update



ICANN 60 1 November 2017

Overview of Session Presentations

- ◎ IDN Program Overview and Progress
- Update by Integration Panel
- Update on IDN Implementation Guidelines
- Community Updates
 - o Cyrillic GP Update
 - o Latin GP Update
 - Neo-Brahmi GP Update
- Q/A

- Sarmad Hussain
- Marc Blanchet
- IDN Guidelines WG
- Dušan Stojičević
- Mirjana Tasić
- Ajay Data



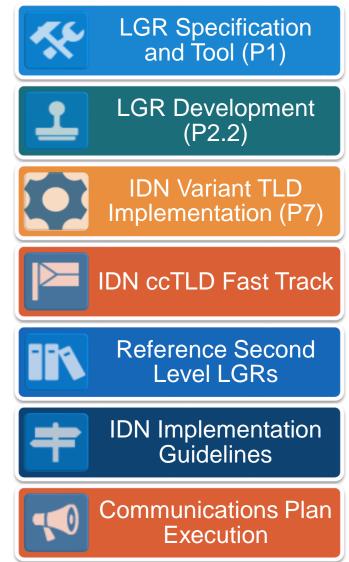
IDN Program Overview and Progress

Sarmad Hussain Director, IDN Programs



Overview

- ⊙ IDNs at Top Level
 - IDN TLD Program
 - Root Zone Label Generation Rules (RZ-LGR)
 - LGR Toolset
 - IDN Variant TLD Implementation
 - IDN ccTLD Fast Track Process
- ⊙ IDNs at Second Level for gTLDs
 - IDN Implementation Guidelines
 - Reference Second Level LGRs
- Community Outreach and Involvement



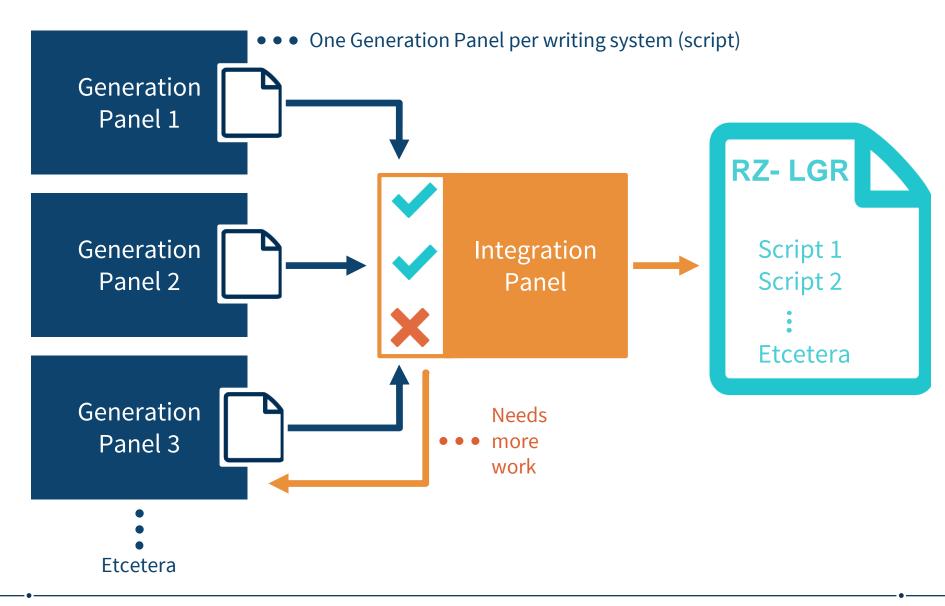


Root Zone Label Generation Rules (RZ-LGR)

- IDNA2008 expects registries at all levels, including the top-level, will reduce opportunities for confusion by, for example, restricting characters or using variant techniques
 - RZ-LGR basis for such mechanism for the Root Zone
- RZ-LGR aims to:
 - Support IDN TLDs in scripts used by communities globally
 - Provide a secure and stable definition for valid IDN TLDs
 - Determine variant labels of IDN TLDs

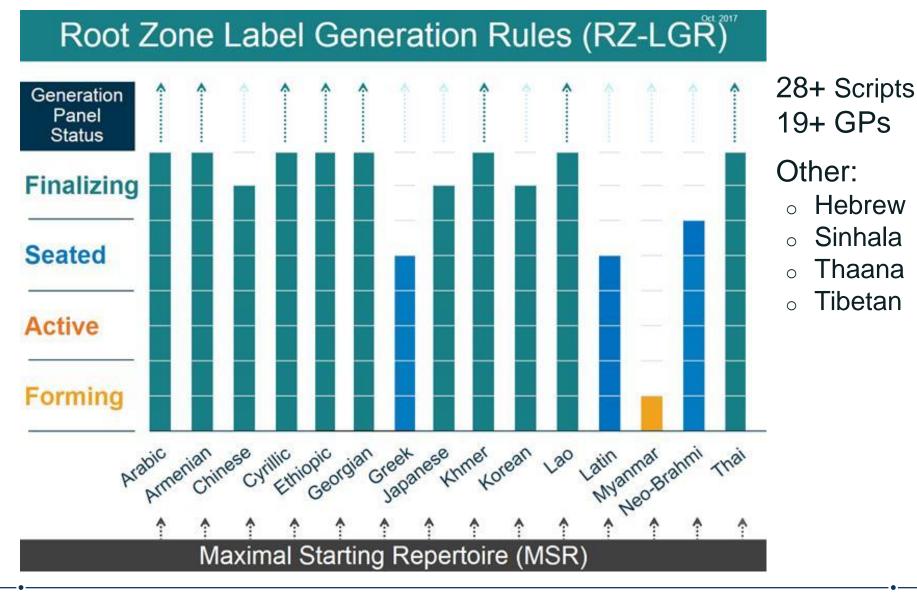


RZ-LGR Process





Status of Generation Panels (GPs)



Status of RZ-LGR



RZ-LGR-2 Summary

- Arabic, Ethiopic, Georgian, Khmer, Lao and Thai scripts integrated
- Armenian finalized to be integrated after LGRs of related scripts received
- Available at <u>www.icann.org/idn</u>



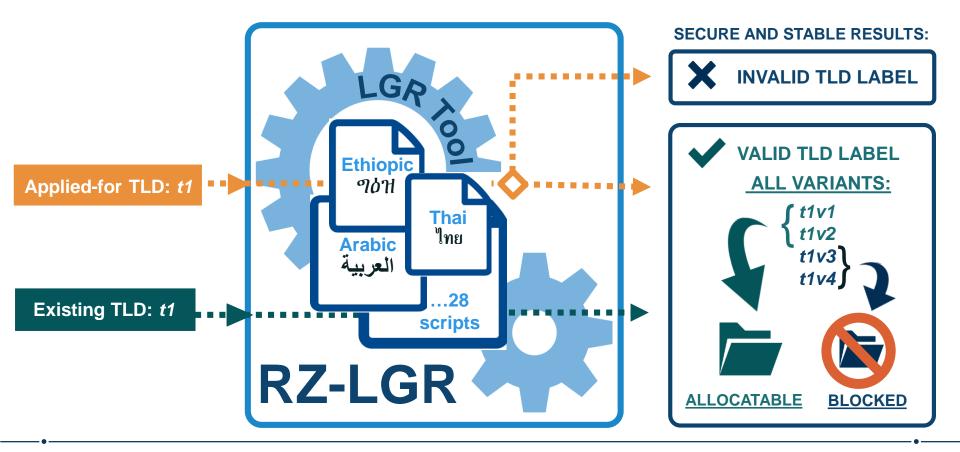
LGR Toolset (beta)

- Label Generation Rulesets (LGRs) used to generate domain name labels, as specified in <u>RFC 7940</u>
- LGR Toolset currently allows for the following:
 - **Create** single LGR or merge multiple LGRs
 - **View** LGR in XML form or user friendly HTML form
 - **Use** a LGR to validate a label and determine its variant labels
 - Manage LGRs, by comparing or combining them
 - **Review** impact of a new or a revised LGR on existing labels
- Online beta deployment at: <u>https://lgrtool.icann.org/</u>
- Open source package(s) released with BSD license
 - Released at github: <u>lgr-core</u>, <u>lgr-django</u>, <u>munidata</u>
- <u>User guide</u> available for further details

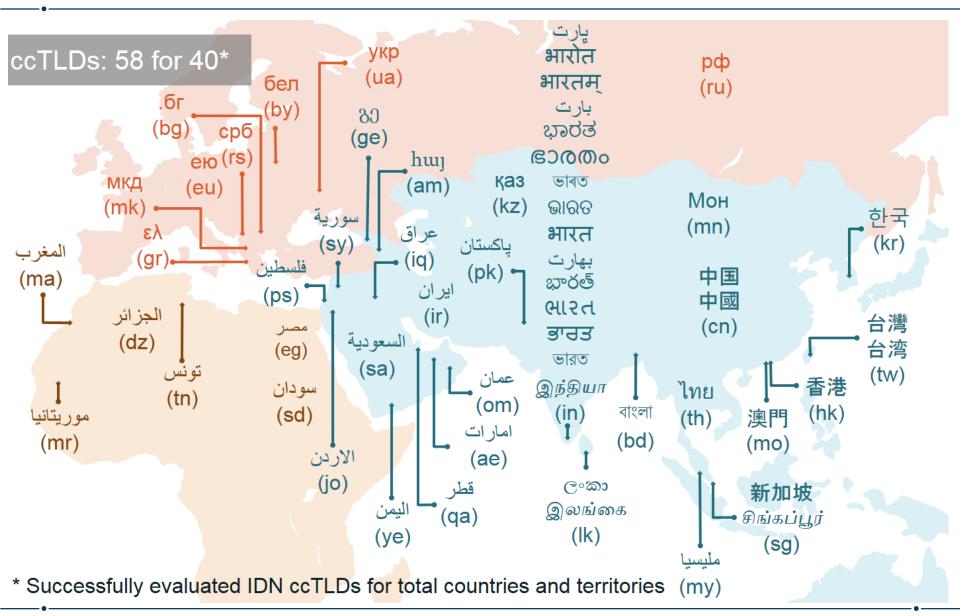


Pre-Requisite for IDN Variant TLD Implementation

 Update relevant procedures to incorporate Root Zone Label Generation Rules (RZ-LGR) cohesively across IDN ccTLDs and IDN gTLDs



IDN Country Code Top-Level Domains





IDN ccTLD Fast Track Process

- ⊙ Launched in late 2009
 - 58 IDN ccTLDs evaluated representing 40 countries/territories
 - 56 IDN ccTLDs delegated representing 38 countries/territories
 - Requests cover 33 languages in 19 scripts for
- Currently under review
 - <u>Public comment</u> in Jan 2015 raised issues with second similarity review process (EPSRP)
 - <u>Board resolution</u> in June 2015 to review EPSRP
 - ccNSO formed Working Group (WG) on EPSRP
 - Public comment in July 2016 on updated EPSRP guidelines
 - Final report published, incorporating feedback and discussion
 - ccNSO adopted the final report by WG on EPSRP
 - Joint ccNSO SSAC Response to ICANN Board

Reference Second Level IDN Tables

- ⊙ Reference IDN tables in LGR format in <u>RFC 7940</u>
- Developed using <u>Guidelines</u>, vetted for security and stability
- Finalized after a public comment process
- Can be referred to, as registries enhance IDN implementations
- ⊙ Currently 27 LGRs <u>published</u>
 - Latin: Bosnian, Danish, English, Finnish, French, German, Hungarian, Icelandic, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Spanish, Swedish
 - Cyrillic: Belarusian, Bosnian, Bulgarian, Macedonian, Montenegrin, Russian, Serbian, Ukrainian
 - Mixed scripts: Korean
 - Others: Chinese, Hebrew



Communication and Outreach Efforts

- ⊙ IDN web pages at icann.org/idn
- IDN Program sessions at ICANN meetings
- IDN Program updates to SOs/ACs at ICANN meetings
- ⊙ Direct outreach
 - o Africa Internet Summit, Jun 2017, Nairobi
 - o DNS Forum, Jul 2017, Tanzania
 - APrIGF, Jul 2017, Bangkok
 - o PKSIG, Aug 2017, Pakistan
 - APTLD, Sep 2017, Georgia
- IDN community wiki pages
- IDN mailing lists
 - {vip, Igr, ArabicGP, ArmenianGP, ChineseGP, ...}@icann.org



- For information on IDN Program projects, please visit: <u>www.icann.org/idn</u>
- For queries regarding the IDN Program, please email: <u>IDNProgram@icann.org</u>



Update by Integration Panel

Marc Blanchet Integration Panel



"The Integration Panel is a panel of independent experts tasked with reviewing proposals presented by the Generation Panels and, if accepted, integrating them into a consistent set of Label Generation Rules for the Root Zone. The decisions by the integration Panel are required to be unanimous."

(https://community.icann.org/display/croscomlgrprocedure/Integration+Panel)

IP Activities Summary – Since ICANN58

- Reviewed GP proposals
 - o Latin
- Reviewed draft LGRs
 - Ethiopic
 - o Thai
 - o Japanese
 - o Greek
 - o Korean
 - Cyrillic
 - o Devanagari
- Monitoring the need for new MSR (ver. 3) for additional scripts and issues related to Unicode 6.3



IP Activities Summary (cont.)

- Root Zone LGR-2 final integration and publication
 - Scripts included: Arabic (from RZ-LGR-1), Ethiopic, Georgian, Khmer, Lao, Thai
 - Postponed: Armenian (waiting for other related scripts to be submitted)
 - Iterative process
 - Multiple independent implementations were used to verify the content
 - Public comments on 6 June 2017
 - <u>https://www.icann.org/public-comments/rz-lgr-2-2017-06-06-en</u>
 - Support received from the community
 - Thanks to GP members who have verified
 - No issues found
 - Posted final 17 August 2017
 - <u>https://www.icann.org/resources/pages/root-zone-lgr-2015-06-21-en</u>



IP Activities Summary (cont.)

- ⊙ The Root Zone LGR is split into the following
 - One **Element LGR** per script
 - A single Merged LGR
 - Each of these files in XML (normative) and HTML (informative)
 - Plus documentation files (Overview and Code Tables)
- Use the LGR to verify a label (e.g. for a new application)
 - Validate the label
 - Generate allocatable variants
 - Check for collisions with delegated labels and their variants
- More details in the IDN RZ-LGR session
 - 15.15 16.45, 1 November 2017



IP Activities Summary (cont.)

- Updated documents
 - Guidelines for Developing Script-Specific Label Generation Rules for Integration into the Root Zone LGR
 - Considerations for Designing a Label Generation Ruleset for the Root Zone
 - Requirements for LGR Proposals from Generation Panels
 - Packaging the MSR and RZ-LGR
 - Out of Repertoire Variants in Root-Zone LGR and Proposals
 - Summary Guidelines
 - Whole Label Evaluation (WLE) Rules
- Variant Rules IP document replaced by RFC 8228 "Guidance on Designing Label Generation Rulesets (LGRs) Supporting Variant Labels"
 - The RFC is heavily based on the IP document
 - Independent effort



 For queries regarding the Integration Panel, please email integrationpanel@icann.org

 For information on IDN Program projects, please visit <u>www.icann.org/idn</u>

 For queries regarding the IDN Program, please email <u>IDNProgram@icann.org</u>



IDN Implementation Guidelines

Version 4.0



Edmon Chung and Mats Dufberg Co-chairs, IDN Guidelines Working Group ICANN 60

1 November 2017

Agenda

- Purpose and Status
- IDN Guidelines WG
- Scope and Topics
- ⊙ Next Steps



Purpose

- Background
 - For second-level IDN registration policies and practices
 - To minimize the risk of cybersquatting and consumer confusion
- Relevance
 - o gTLD registries and registrars offering IDNs contractually bound
 - Required by most Registry Agreements
 - For example, new gTLD Registry Agreement: Specification 6 Section 1.4
 - Required by many Registrar Agreements
 - For example, 2013 Registrar Accreditation Agreement: Additional Registrar Operation Specification Clause 3
 - IDN ccTLDs "expected" by the Fast Track Process



- Call for Community Experts in July 2015
- Working Group formed in October 2015
- Initial issues list presented at ICANN 55
- Interim draft presented at ICANN 57
- Final draft for Public Comment released in March 2017
- Final draft for Public Comment presented at ICANN 58
- Final draft open for Second Public Comment until 10 December 2017
- Final draft for Second Public Comment being presented at ICANN 60



IDN Guidelines WG (IDNGWG)

	Name	Organization	SO/AC
1	Satish Babu	ISOC-TRV	ALAC
2	Wael Nasr	TLDVILLA LLC	ALAC
3	Mats Dufberg	IIS	ccNSO
4	Pablo Rodríguez	Puerto Rico TLD	ccNSO
5	Edmon Chung	.asia	GNSO
6	Christian Dawson	i2Coalition	GNSO
7	Chris Dillon		GNSO
8	Kal Feher	Neustar	GNSO
9	Dennis Tan	Verisign	GNSO
10	Jian Zhang (until 7 April 2017)	KNET	GNSO
11	Patrik Fältström (will only review)		SSAC



- Scope limited to only the owner-name of the DNS records added to the zone file by the registration system
 - Any glue records and right-hand or target names excluded from scope
- Total of 7 topics with 19 guidelines and Additional Notes:
 - Transition (4)
 - Format of IDN Tables (2)
 - Consistency of IDN Tables and Practices (4)
 - IDN Variant Labels (3)
 - Similarity and Confusability of Labels (4)
 - Publishing IDN Registration Policy and Rules (1)
 - Terminology (1)
 - Additional Notes



- Finalize IDN Guidelines 4.0 after second public comment
- Submit final IDN Guidelines 4.0 for consideration by ICANN Board



- For second public comment visit <u>https://www.icann.org/public-comments/idn-guidelines-2017-10-19-en</u>
- Visit IDN Guidelines wiki page for the list of WG members, email archive, call recordings and summaries: <u>https://community.icann.org/display/IDN/IDN+implementation+Guidelin</u> <u>es</u>
- For feedback, email at: <u>idngwg@icann.org</u> or <u>IDNProgram@icann.org</u>



Cyrillic Generation Panel Update

Душан Стојичевић Dusan Stojicevic Chair, Cyrillic GP



- ISO 15924 Code: Cyrl
- ISO 15924 English Name: Cyrillic
- Latin transliteration of native script name: Cyrillic
- Maximal Starting Repertoire (MSR) version: MSR-2



Background on Script and Principle Languages

- Based on Early Cyrillic, from First Bulgarian Empire in 9th century AD
- Used for languages across eastern Europe and north and central Asia
- Basis of alphabets in languages, past and present, especially those of Slavic origin, and non-Slavic languages influenced by Russian
- Used by more than 250 million people as the official script for their languages, about half from Russia
- With the accession of Bulgaria to the European Union in 2007, Cyrillic became the third official script of the European Union, in addition to the Latin and Greek scripts



Background on Script and Principle Languages

- South Eastern part of Europe (Serbia, Montenegro, Macedonia, Bulgaria, Bosnia and Herzegovina)
- Eastern Europe (Belorussia, Ukraine, Russia)
- Central Asia (Kazakhstan, Turkmenistan, Uzbekistan, Kyrgyzstan, Tajikistan, Mongolia)





- According to work plan in the proposal for Cyrillic script GP
- Initially language based repertoire compiled, based on second level IDN tables used by different ccTLDs, including the .su ccTLD which contained inventory for languages currently spoken in Russia
- Language repertoires collated in a face to face meeting in Istanbul on 25-26 Nov. 2016.
- Continued to use the mailing list to share and finalize documents
- Consulted with Integration Panel (IP), including on crucial query regarding inclusion of U+02BC MSR for Ukrainian and Belarusian



Code Point Repertoire

86 code points recommended for inclusion

7 code points recommended for exclusion (shown in the table)

	#	Unico de CP	Glyph	Unico de Name	Lang. using CP	EGIDS value	Ref.
	1	04EB	Ö	CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS	Khanty	Khant y 6b	Rule 6 http://www.omniglot.com / writing/khanty.htm
	2	04ED	ÿ	CYRILLIC SMALL LETTER E WITH DIAERESIS	Sami	Sami 8b	Rule 6
	3	04DB	ə	CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS	Khanty	Khant y 6b	Rule 6 http://www.omniglot.com / writing/khanty.htm
4	4	04C2	Ж	CYRILLIC SMALL LETTER ZHE WITH BREVE	Gagauz	Gagau z 5	Rule 5 http://www.omniglot.com / writing/gagauz.htm Gagauz alphabet not in Cyrillic from 1996
	5	04CC	ų	CYRILLIC SMALL LETTER KHAKASSIAN CHE	Khakas	Khaka s 5	Rule 5 http://www.omniglot.com / writing/khakas.htm
	6	045D	Й	CYRILLIC SMALL LETTER I WITH GRAVE	Histori cal sign		Rule 6
,	7	0450	è	CYRILLIC SMALL LETTER IE WITH GRAVE	Stresse d sign		Rule 6



- No variants in Cyrillic script
 - Some code points visually confusable
 - not considered as variants by the Cyrillic community
 - provide table of confusable code points, so organizations can use as needed

- Decided to limit these to homoglyphs
- Included code points which are homoglyphs in the lower case but not homoglyphs in the upper case
 - Only lower case because upper case disallowed in IDNA 2008
 - Decision made in consultation with IP ("the IP, at this point, does not require that upper case homoglyphs are included")
- Cyrillic GP found cross-script variants with
 - o Armenian
 - o Greek
 - Latin
- Cyrillic GP did not find cross-script variants with Georgian



Cross-Script Variants - with Armenian Script

- Armenian GP indicates three (3) variants with Cyrillic script
- Opinion of Cyrillic GP that only two (2) homoglyphic variant
- Other one (1) not identical, so included in confusables table

Armenian glyph	Armenian code point	Name	Cyrillic glyph	Cyrillic code point
h	0570	ARMENIAN SMALL LETTER HO	h	04BB
0	0585	ARMENIAN SMALL LETTER OH	0	043E



Cross-Script Variants - with Greek Script

⊙ Cyrillic has three (3) homoglyphic variants with Greek script

Greek glyph	Greek code point	Name	Cyrillic glyph	Cyrillic code point
К	03BA	GREEK SMALL LETTER KAPPA	К	043A
0	03BF	GREEK SMALL LETTER OMICRON	0	043E
φ	03C6	GREEK SMALL LETTER PHI	ф	0444



Cross-Script Variants - with Latin Script

 Cyrillic has following homoglyphic variants with Latin from MSR-2

Confusables
listed
separately

Latin glyph	Latin code point	Cyrillic glyph	Cyrillic code point
а	0061	а	0430
С	0063	С	0441
е	0065	е	0435
0	006F	0	043E
h	0068	h	04BB
i	0069	i	0456
j	006A	j	0458
I	006C	1	04CF
р	0070	р	0440
S	0073	S	0455
X	0078	X	0445
У	0079	У	0443
ä	00E4	ä	04D3
ë	00EB	ë	0451
æ	00E6	æ	04D5
ħ	0127	ħ	045B
Ð	01DD	Ð	04D9
Ð	0259		



Timeline



To Summarize

It took Cyrillic GP more than three years to finalize proposal. But, the work has been done according to the dates defined in original Working plan, with some small delays.



- 1. Very short term Celebrate actual end of the work with one dinner together
- 2. After public comment phase Finalize the LGR proposal to include community feedback
- 3. Long term phase

Address new code points included in the MSR in the future

 if needed in the Root Zone LGR, GP to re-convene and create additional proposal



Alex Khmyl (Belarus)	Nelly Stoyanova (Bulgaria)			
Alexei Sozonov (Russia)	Nodir Mirzoev (Tajikistan)			
Almaz Bakenov (Kyrgyz Republic)	Oleksandr Tsaruk (Ukraine)			
Daniel Kalchev (Bulgaria)	Pavel Gusev (Kazakhstan)			
Dmitry Belyavskiy (Russia)	Predrag Lesic (Montenegro)			
Dmitry Kohmanyuk (Ukraine)	Sanja Simonova (Macedonia)			
Dušan Stojičević (Serbia, chair)	Sergey Povalishev (Belarus)			
Enkhbold Gombo (Mongolia)	Tattu Mambetalieva (Kyrgyzstan)			
lliya Bazlyankov (Bulgaria)	Yashar Hajiyev (Azerbaijan)			
Kadamjon Safiev (Tajikistan)	Yuliya Morenets (Russia)			
Mirjana Tasić (Serbia)	Yuriy Kargapolov (Ukraine)			
Nazgul Kurmanalieva (Kyrgyzstan)	Yuriy Honcharuk (Ukraine)			



Latin Generation Panel Overview

Mirjana Tasić Latin GP Chair



Latin GP Overview - Introduction

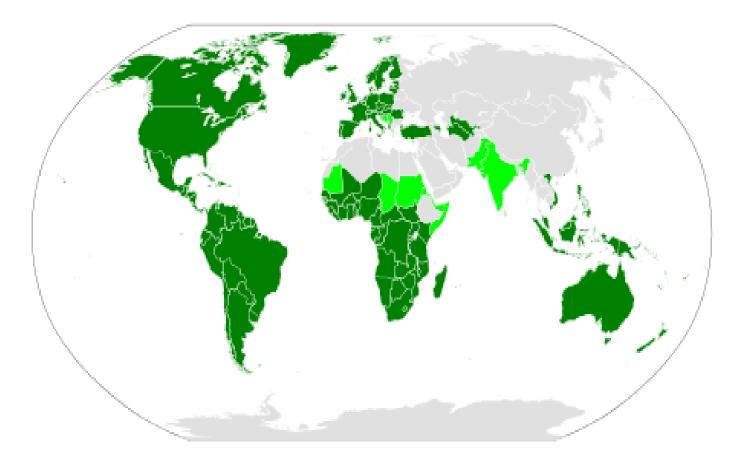




- Summer 2016 GP restarted with new call for volunteers
- Real work started October 2016
- GP proposal finalized and sent to ICANN at the beginning of May 2017
- GP seated on Monday, 15 May 2017
 - Proposal for Formation of Latin Generation Panel



Latin Script Geographic and Linguistic Spread



The dark green areas show the countries where the Latin script is the sole main script. **Light green** shows countries where Latin co-exists with other scripts. **Grey** areas - Latin-script alphabets are sometimes extensively used in areas colored grey due to the use of unofficial second languages, such as French in Algeria and English in Egypt, and to Latin transliteration of the official script, such as <u>pinyin</u> in China or <u>rōmaji</u> in Japan.



Latin GP Overview – Scope of Work

- Maximal Starting Repertoire version 2 (MSR-2)
- Lowercase letters
- ⊙ Unicode ranges
 - Controls and Basic Latin
 - Controls and Latin-1 Supplement Combining
 - Latin Extended-A
 - Latin Extended-B
 - IPA Extensions

- Combining Diacritical Marks
- nt O Combining Diacritical Marks Supplement
 - Latin Extended Additional
 - Latin Extended-C
- Non exhaustive list of 455 languages in scope
- Non exhaustive list of EGIDS 1-5 languages contains 300 languages
- Non exhaustive list of EGIDS 1-4 languages contains 180 languages
- Maximal Starting repertoire version 2 (MSR-2) shows 279 Latin script code points

Note: **EGIDS** stands for the Expanded Graded Intergenerational Disruption Scale. This is a tool that is used to measure the status of a language in terms of endangerment or development.

Latin GP Overview – Members

- ⊙ 14 members, 3 observers
- ⊙ Language representatives
 - Africa
 - o Asia
 - Australia and Oceania
 - Europe
 - North America
- ⊙ Diversity
 - Community Representatives
 - Linguistic Experts
 - Registry/Registrar Experts
 - Policy Experts
 - Technical Community, DNS Experts
 - IDNA/Unicode Experts

Latin GP Overview - Challenges and Solutions

⊙ Challenges

- Many languages
- Many code points to process
- Not enough members to cover workload
- ⊙ Solutions
 - Process languages with EGIDS=1-4 first (180)
 - Consider processing languages with EGIDS=5 (120)
 - Define simple procedure for developing Latin script repertoire
 - Workload divided in two groups
 - Repertoire Working Group
 - Variant Working Group



Latin GP Overview – Organization of Working Groups

- ⊙ Repertoire Working group
 - 10 members
 - Developing Principles for Inclusion and Exclusion of Code Points in Latin Script for the Root Zone LGR
 - Processing Languages to build the repertoire
- ⊙ Variant Working Group
 - o 4 members
 - Developing Principles for Analysis of Variants in the Latin Script for the Root Zone LGR
 - Identifying variants



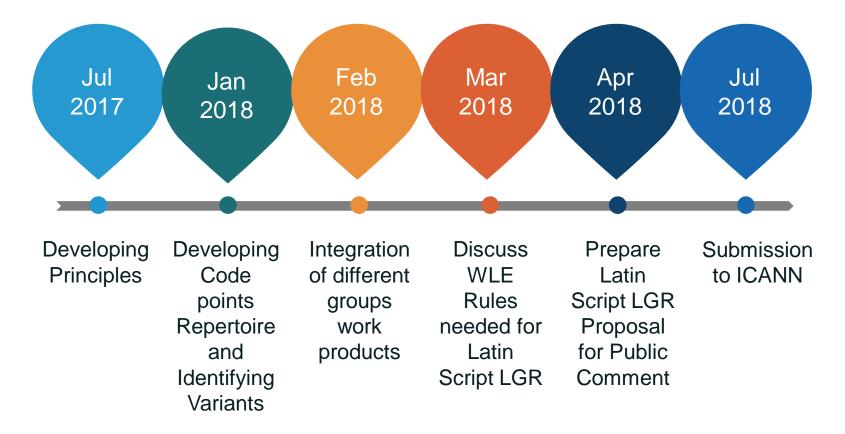
Latin GP Overview – Work Accomplished

- Developing Repertoire
 - 180 of 180 EGIDS 1- 4 languages processed
 - 114 of 279 MSR-2 code points attested
 - 38 non-MSR-2 code points or code point sequences detected
- Developing Variants
 - Variants with Cyrillic script work in progress
 - Variants with Greek script to be done
 - Variants with any other script to be done
 - In-script variants to be done

Note: Figures as of 24 October 2017



Latin GP Overview – Project Timeline



To Summarize: work started on 15 May 2017 14 months is estimated time for project duration

Neo-Brahmi General Panel (NBGP)

Ajay Data, Mahesh Kulkarni, Udaya Narayana Singh NBGP Co-Chairs







Introduction to NBGP, its Scope, Scripts, Languages, and Geo-Coverage



NBGP, Scope, Scripts, Coverage etc.

Introduction

Generate proposals for script specific LGRs, based on community expertise and requirements. Ensure Global Acceptability of Neo-Brahmi Script based language IDN'S and variants.



5

Coverage

Devanagari under the **Brāhmī** family is used by 11 out of 22 scheduled languages of India -Bodo, Dogri, Hindi, Kashmiri, Konkani, Maithili, Marathi, Nepali, Sanskrit, Santhali and Sindhi.

Why Devanagari

Devanagari is also used by 45 other languages in India, and is being adopted by new literary tribal languages of Arunachal Pradesh, Bihar and Andaman & Nicobar Islands. It is also popularly used in Fiji, Mauritius, Malaysia, England, Canada, South Africa, and Indonesia

2

Scope

Devanagari, Gujarati, Bengali, Gurmukhi/Punjabi, Odia/Oriya, Tamil, Kannada, Telugu and Malayalam.



Geo Coverage

India, Sri Lanka, Nepal, Bangladesh

2

Akshara System



Akshara System – Binds Brahmi Based Scripts

- Each consonant under Devanagari has an implicit schwa /ə/ added to it. In traditional phono-graphic classification, the consonants are categorized in terms of FIVE "Varga" or Groups – made up of both Place and Manner of Articulation. In addition, there are a few under the Non-Varga group (includes nine).
- Each Varga, which corresponds to Stops, contains five consonants classified as per their phonetic properties.
- The first four consonants are classified on the basis of Voicing and Aspiration and the last one is the corresponding nasal for each category.
- O All consonants have an implicit vowel sign (schwa) within them. A special sign is needed to denote that this implicit vowel is stripped off. This is known as the Halanta (○) the Vowel-killer.



Akshara System - Binds Brahmi Based Scripts (Cont.)

- The Halanta thus joins two consonants and creates conjuncts, which can be generally from 2 to 4 consonant combinations. In rare cases it can join up to 5 consonants
- Each vowel is pronounced and symbolically represented independently
- To indicate a Vowel sound other than the implicit one, a vowel modifier (Matra) is attached to the consonant. Since the consonant has a built in schwa, there are equivalent Matras for all vowels excepting the अ
- Hindi, Marathi, and Konkani also admit two more vowels and their Matras given at the end
- Then there are vowel modifiers, Anusvara (homo-organic nasal) & Chandrabindu (or nasalization marker), Visarga as well as 'Nukta' for Perso-Arabic words



Akshara System - Binds Brahmi Based Scripts (Cont.)

Consonants In "Varga"		Unvoiced			ed Vo		Voiced		Nasal		Non Cons	-		य	र	ल	ळ	व	श	ষ	स	ह
		- Asp	+As	р-	Asp	+A	sp															
Velar		क	ख		ग	Έ	T	ङ														
Palatal		च	জ		ज	इ	Ŧ	ञ														
Retroflex		ว	Q		ड	5	5	ण														
Dental		त	খ		द	Ę	T	न														
Bi-labial		प			ब	8	Ŧ	म														
Vowels	अ	आ	হ	ላህን	3	ক	ॠ	ए	ऐ	ओ	औ	<u>ऍ/</u> :	ਜੱ	ऑ								
Matras		ा	ি	ी	ം	ঁ	ৃ	ð	Š	ो	ী											

- Vowel Signs / Matras (M) :
 - ె ၢ ြ ါ ္ ္ ႂ ် ိ ံ ĭ ॊ ဲ ဲ ၴ ဴ ႆ ႆ ຼ
- Vowel modifiers (D) : ँ ं ः
- Halant (H) : ्
- Nukta (N) : 🖓

3

NBGP - Members



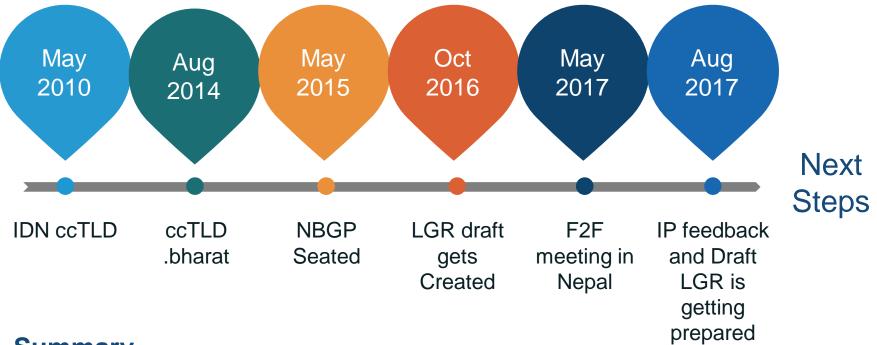
Co-Chairs Dr. Ajay Data Mahesh Kulkarni & Prof.Udaya Narayana Singh	Key Members Akshat S. Joshi Jay Paudyal Harish Choudhary	Key Members Raiomond Doctor Bal Krishan Bal Gurpreet Lehal
Members Chitrita Chatterjee U.B Pavanaja Hempal Ganesh Murmu	Members Shubham Sharan Rajiv Kumar Abhijit Dutta Anupam Agrawal +++++	ICANN Sarmad Hussain Samiran Gupta Pitinan Kooarmornpatana



Timeline



Timeline



Summary

Draft LGR for Devanagari is at final stages to be released for public comments.



5

Future Plan of Action



Future Timeline



Scripts

Important Follow up

Comments

Draft LGR for Devanagari is at final stages to be released for public comments.

Created



Comments

Thank you Connect with NBGP NeobrahmiGP@icann.org



Engage with ICANN and IDN Program



Thank You and Questions

Reach us at: IDNProgram@icann.org Website: icann.org/idn



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