



ICANN | 53 *Buenos Aires*

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IDN Program Update for ccNSO

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Overview of Presentation

◉ IDNs at Top Level

- IDN TLD Program
 - Label Generation Ruleset (LGR)
 - LGR Toolset
 - IDN Variant TLD Implementation
- IDN ccTLD Fast Track Process Implementation

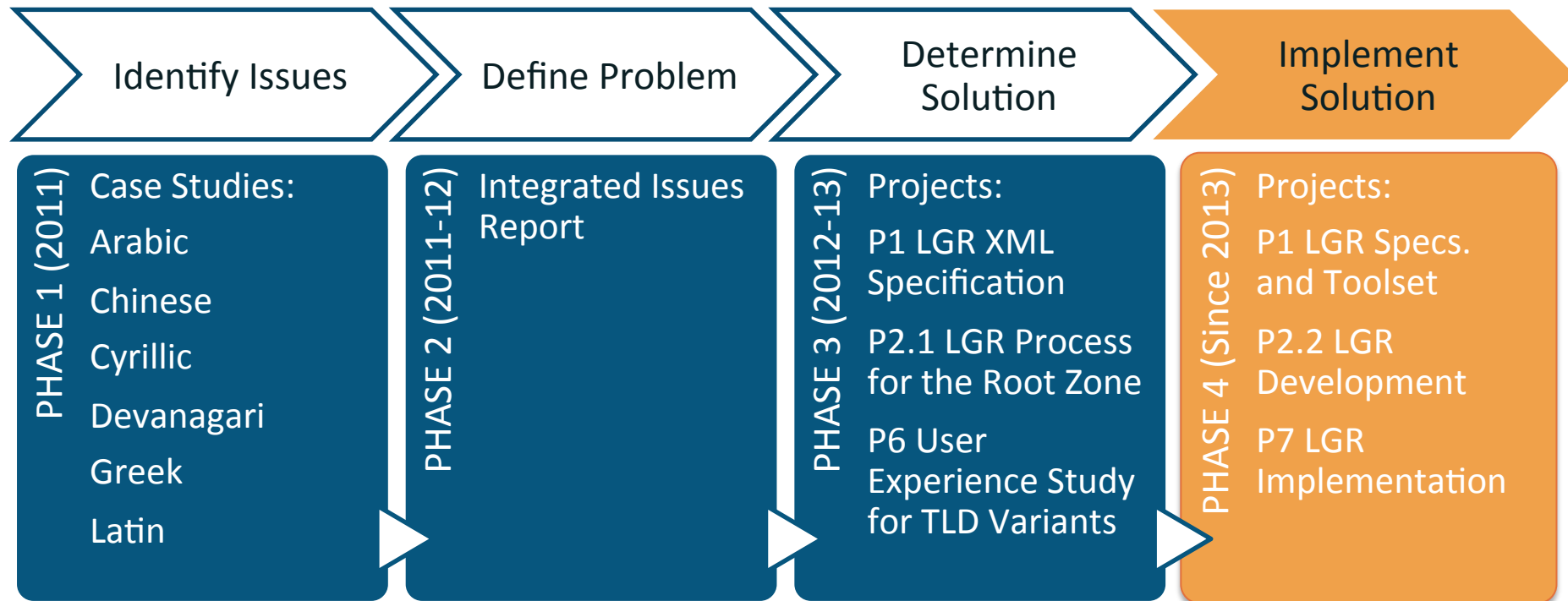
◉ IDNs at Second Level for gTLDs

- IDN Implementation Guidelines
- IDN Tables

◉ Community Outreach and Involvement



IDN TLD Program



Community agreed to define Label Generation Rules (LGR)

Reports and documentation of all completed projects available at:
<https://www.icann.org/resources/pages/reports-2013-04-03-en>.

Maximal Starting Repertoire (MSR-2)

- ⦿ **MSR-2 released on 27 April 2015**
- ⦿ Total 28 scripts, including six additional scripts
 - Armenian, Ethiopic, Khmer, Myanmar, Thaana, Tibetan
- ⦿ Total 33,490 code points shortlisted from 97,973 candidates
 - Additional 700 from 936 candidate code points in the six scripts
- ⦿ Based on Unicode 6.3
- ⦿ Upwardly compatible with MSR-1

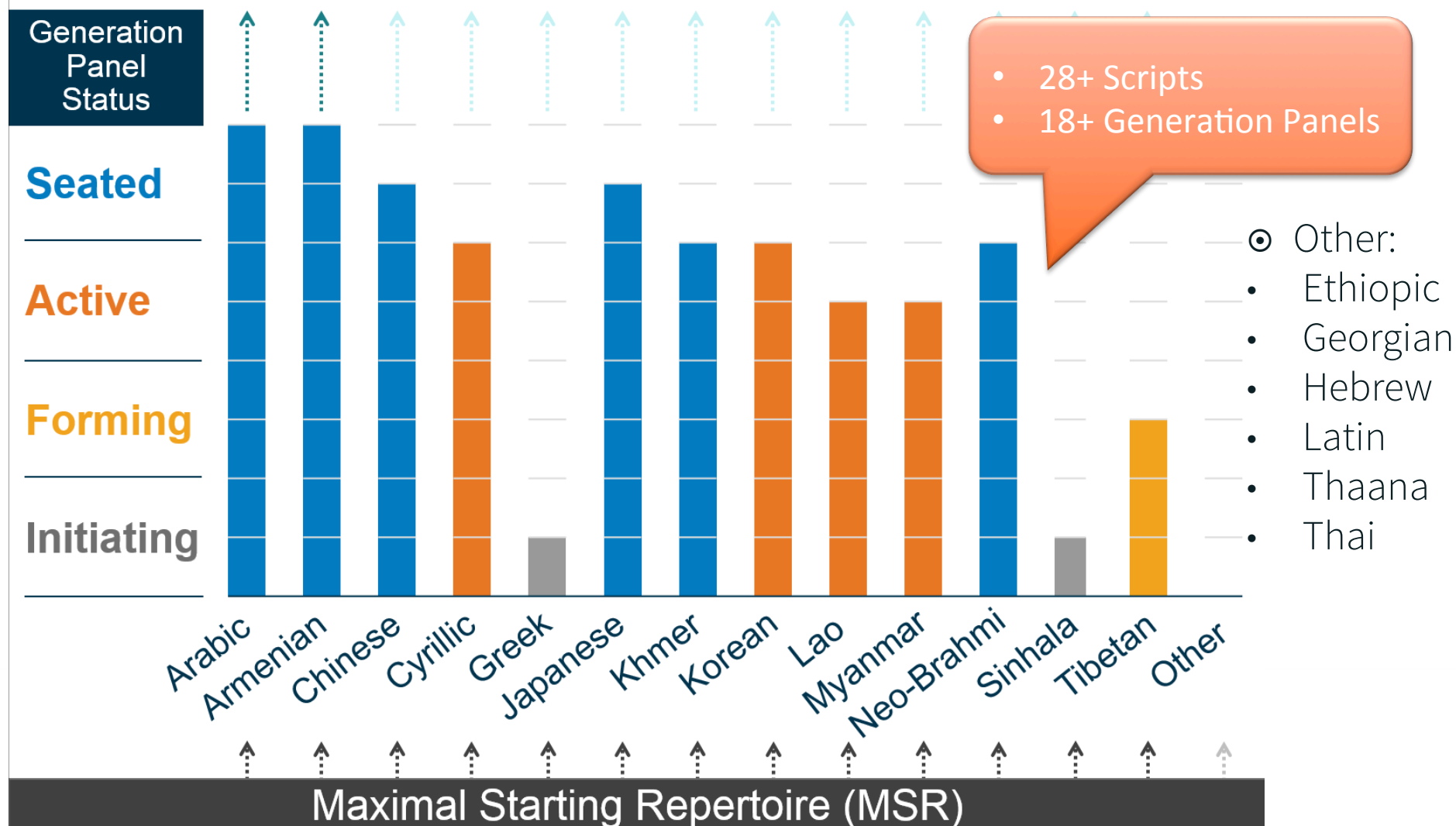
Guidelines for Generation Panels

- ◉ Guidelines released for GPs on 27 April 2015
- ◉ <https://www.icann.org/public-comments/lgr-guidelines-2015-01-15-en>
 - 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
- ◉ Technical documents:
 - Variant Rules
 - Whole Label Evaluation (WLE) Rules
 - Representing Label Generation Rulesets using XML

Status of LGR Development

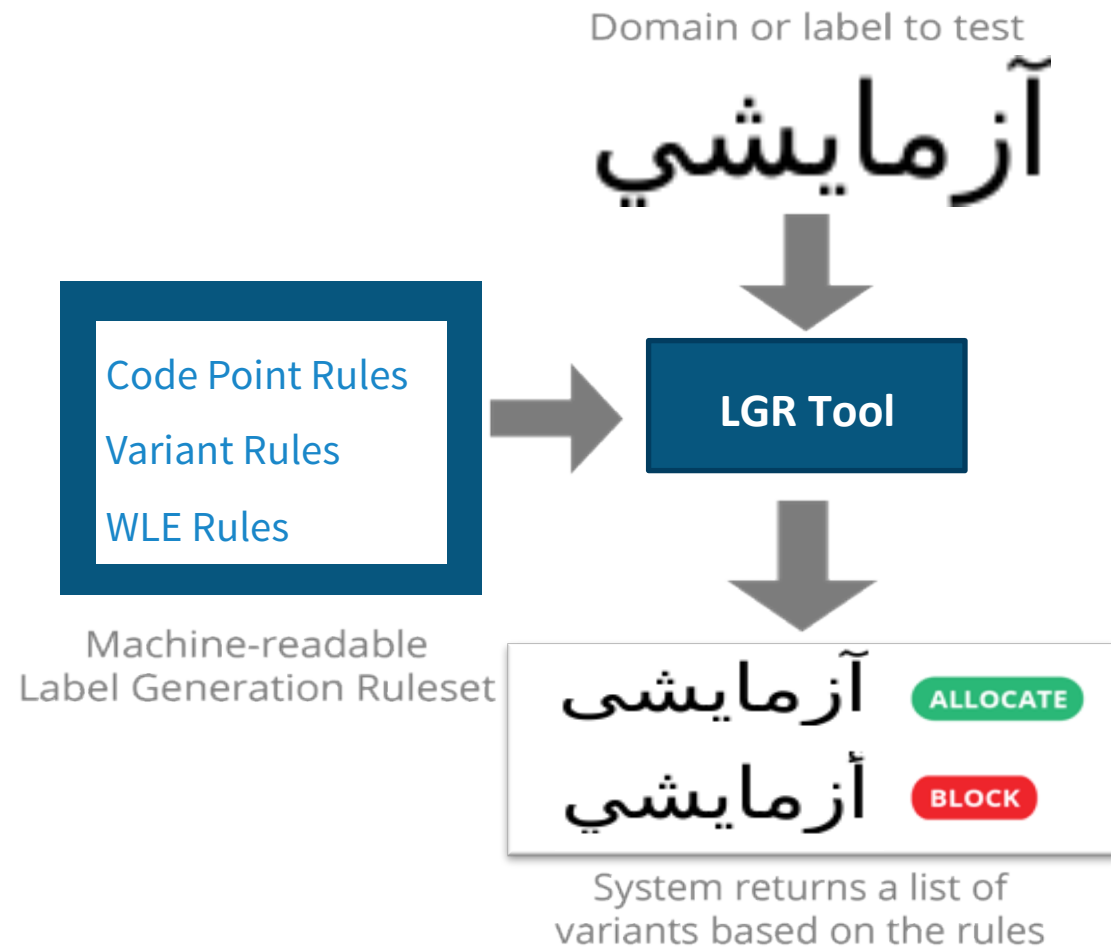
Label Generation Rules (LGR)

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LGR Specification and Toolset

- ◉ LGR machine-readable specifications at:
<https://datatracker.ietf.org/doc/draft-davies-idntables>
- ◉ [Public Comment](#) on tool requirement: 3 Dec. 2014
- ◉ Toolset tentative timeline:
 - Create LGR – 09/15
 - Use LGR – 12/15
 - Manage LGRs – 3/16
 - Open source



Create Use Case: Code Point Screens Flow

LGR-Arabic.xml - Sample LGR for Arabic

Load file... New file... Summary Download

Code points References

Code points list screen

Add code point(s)

Code point(s)	Comments	
U+4E7E 乾	Lorem ipsum dolor sit amet, consectetur adipiscing elit	
U+4E7E 〇 U+4E7E 〇	Lorem ipsum dolor sit amet, consectetur adipiscing elit	
U+4E7E 乾 U+4E7E 乾	Lorem ipsum dolor sit amet, consectetur adipiscing elit	
U+4E7E 乾 U+4E7E 乾	Lorem ipsum dolor sit amet, consectetur adipiscing elit	

LGR-Arabic.xml - Sample LGR for Arabic

Load file... New file... Summary Download

Add code point(s)

Code point Code points range Import file

Format Hex Character

Code point

Add

Add code points modal

LGR-Arabic.xml - Sample LGR for Arabic

Load file... New file... Summary Download

Add variant

Format Hex Character

Variant

Type BLOCK

Add

Add variant modal

LGR-Arabic.xml - Sample LGR for Arabic

Load file... New file... Summary Download

Code points References Meta-data

Code point: U+4E7E 乾

Variants

Character	Type	
U+4E7E 乾	BLOCK	...
U+4E7E 乾	S-PREFERRED	Lorem ipsum dolor sit amet, consectetur adipiscing elit
U+4E7E 〇	BLOCK	Lorem ipsum dolor sit amet, consectetur adipiscing elit
U+4E7E 〇		...

Add variant

References

Comment

References

Referenced in variants

U+4E7E 乾 U+4E7E 乾 U+4E7E 乾

Edit code point screen

LGR-Arabic.xml - Sample LGR for Arabic

Load file... New file... Summary Download

References

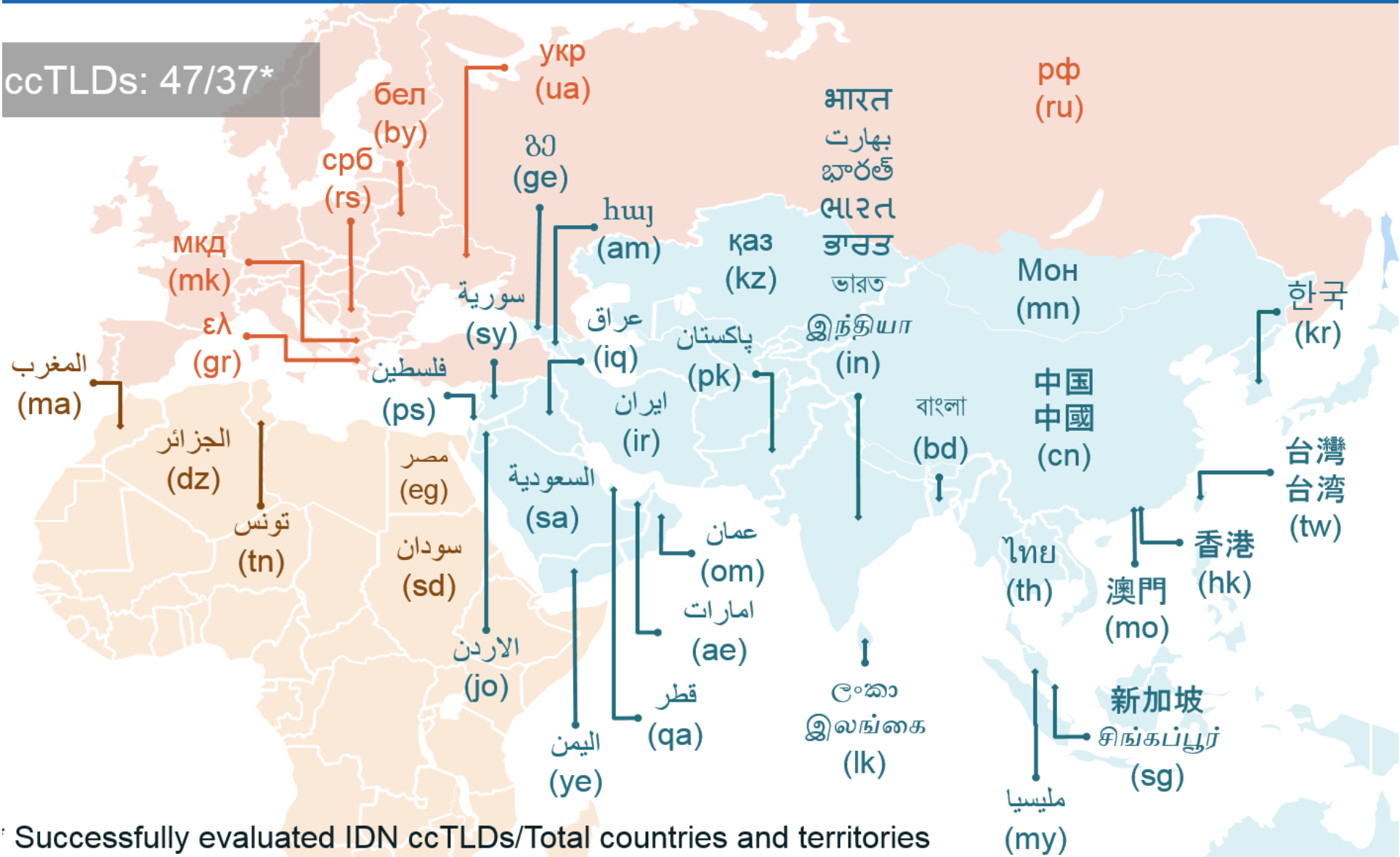
References

Add reference

Edit references modal

IDN Country Code Top-Level Domains

ccTLDs: 47/37*



* Successfully evaluated IDN ccTLDs/Total countries and territories

IDN ccTLD Fast Track Process

◉ More than five years of operation

- Requests in 18 scripts for 27 languages
- 37 IDN ccTLDs delegated in the Root Zone representing 29 countries/territories

◉ Currently under annual review

- Public comment announced on 15 Jan. 2015
- Public comment closed on 17 March 2015
 - Significant feedback on second similarity review and process

IDN Implementation Guidelines

⦿ Background and motivation

- To promote IDN registration policies and practices and to minimize consumer risk and confusion
- Last updated in 2011; GNSO community requested for review

⦿ Next steps

- Formulate a WG of experts to undertake the review

IDN Tables

- ◉ Submitted by new gTLD registries intending to offer IDNs:
 - Varied character repertoire and contextual rules
 - Reference Label Generation Rulesets (LGRs) for facilitation and consistency in Pre-Delegation Testing (PDT) and the Registry Service Evaluation Process (RSEP)
 - Reuse for better end-user experience

- ◉ **Current Status**
 - Public comment on development and review process closed
 - RFP released on 5 June 2015 – responses by 7 July 2015

Communication and Outreach Efforts

- ◉ IDN Program sessions at ICANN meetings
- ◉ IDN Program updates to SOs/ACs at ICANN meetings
- ◉ Presentations
 - **APRALO-APAC Hub Webinar on IDNs on 9 April 2015**
 - Support IDN related outreach (APRICOT, MENOG, Russian IGF, DNS Forum, Africa Internet Summit)
 - Direct outreach (Cambodia, Laos, Myanmar, Pakistan)
- ◉ IDN pages at ICANN Community Wiki and ICANN website
- ◉ IDN mailing lists
 - {vip, lgr, ArabicGP, ArmenianGP, ChineseGP, ...}@icann.org

Get Involved

Volunteer

Volunteer for your script Generation Panel (GP)

To contribute expertise, contribute to the GP for your script. You can get involved by simply emailing your CV and a brief statement of interest to identlds@icann.org

Review

Review work through public comments

Sign up for the IDN mailing list vip@icann.org (to sign up, visit <https://mm.icann.org/listinfo/vip>) and participated in the review of IDN work being done at ICANN through the public comments

Listen

Stay up to date

Attend regular IDN Program Update sessions at ICANN meetings and sign up on the IDN mailing list vip@icann.org to get updates on the IDN Program at ICANN

Useful Links for IDN Program

- To join a Generation Panel for your language, submit CV and statement of interest at: identlds@icann.org; call for Generation Panels:
<http://www.icann.org/en/news/announcements/announcement-11jul13-en.htm>
- LGR Document Repository:
<https://community.icann.org/display/crocomlgrprocedure/Document+Repository>
- Community Wiki for LGR Project:
<https://community.icann.org/display/crocomlgrprocedure/Root+Zone+LGR+Project>
- IDN ccTLD Fast Track Page:
<https://www.icann.org/resources/pages/string-evaluation-completion-2014-02-19-en>
- IDN Implementation Guidelines:
<https://www.icann.org/resources/pages/implementation-guidelines-2012-02-25-en>

Engage with ICANN



Thank You and Questions

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