ICANN | 53

Buenos Aires

21-25 JUNE 2015

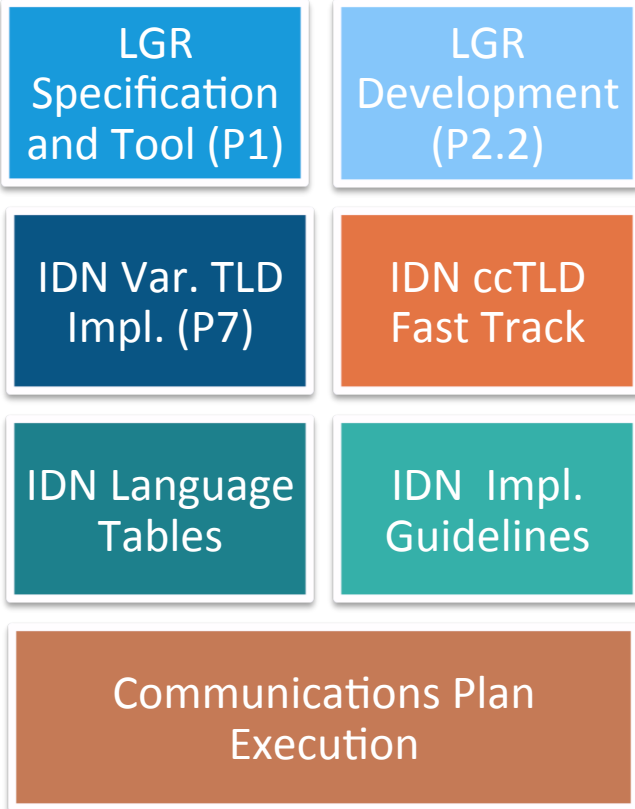# Overview of Presentation

- ◉ **IDNs at Top Level**
  - • IDN TLD Program
    - o Label Generation Ruleset (LGR)
    - o LGR Toolset
    - o IDN Variant TLD Implementation
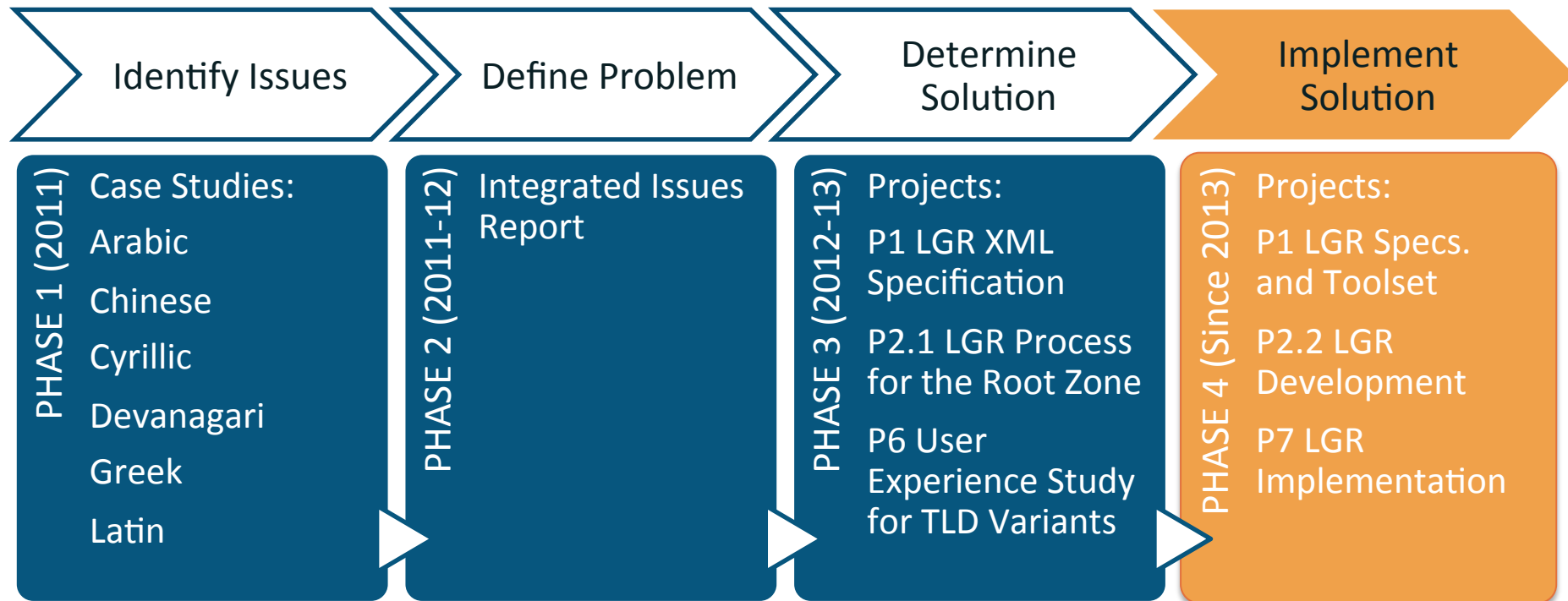 - • IDN ccTLD Fast Track Process Implementation
- ◉ **IDNs at Second Level for gTLDs**
  - • IDN Implementation Guidelines
  - • IDN Tables
- ◉ **Community Outreach and Involvement**

LGR Specification and Tool (P1)	LGR Development (P2.2)
IDN Var. TLD Impl. (P7)	IDN ccTLD Fast Track
IDN Language Tables	IDN Impl. Guidelines
Communications Plan Execution	

IDN TLD Program

Identify Issues	Define Problem	Determine Solution	Implement Solution
PHASE 1 (2011) Case Studies: Arabic, Chinese, Cyrillic, Devanagari, Greek, Latin	**PHASE 2 (2011-12)** Integrated Issues Report	**PHASE 3 (2012-13)** Projects: P1 LGR XML Specification; P2.1 LGR Process for the Root Zone; P6 User Experience Study for TLD Variants	**PHASE 4 (Since 2013)** Projects: P1 LGR Specs. and Toolset; P2.2 LGR Development; P7 LGR Implementation

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.

MSR-2

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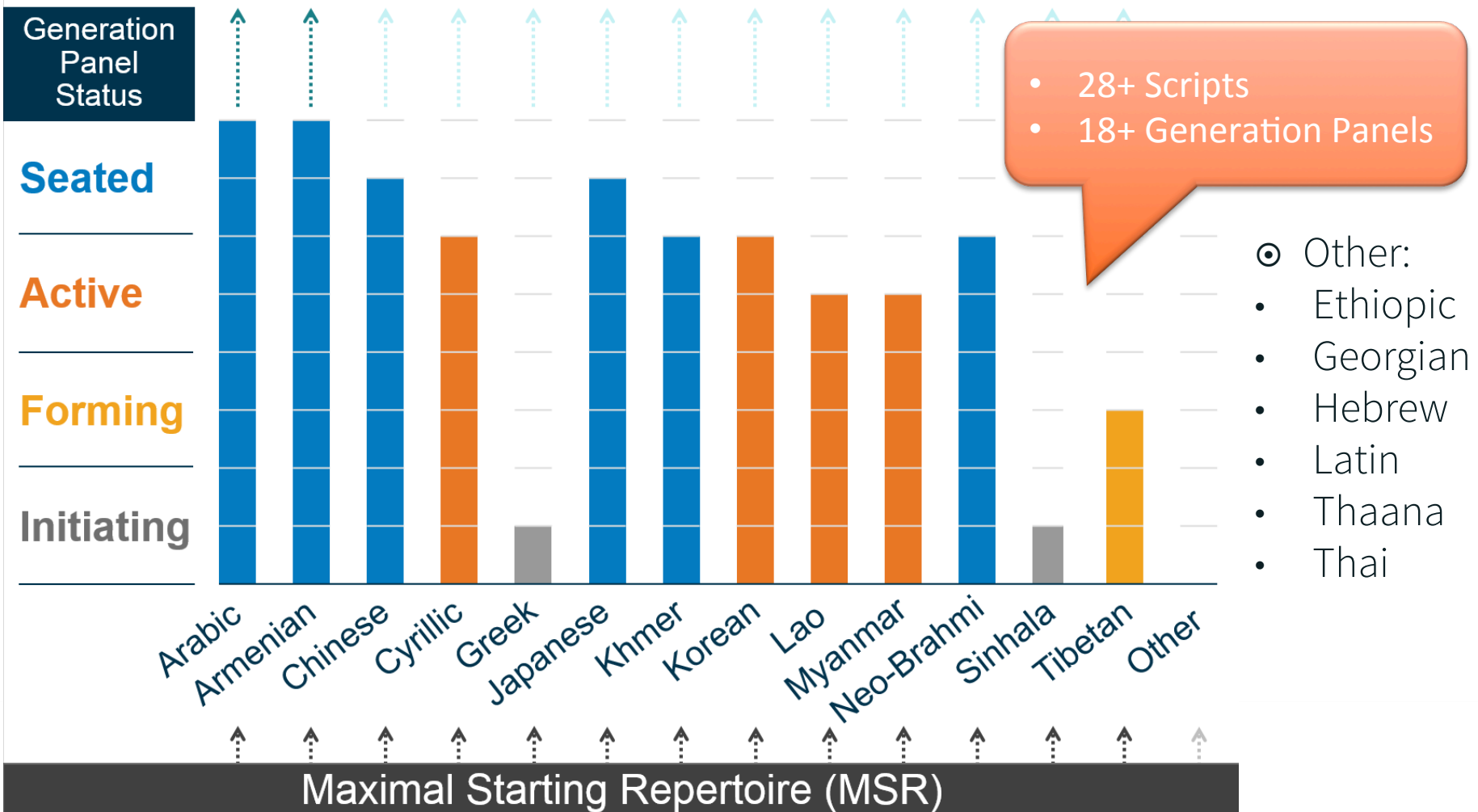- Based on Unicode 6.3
- Upwardly compatible with MSR-1

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
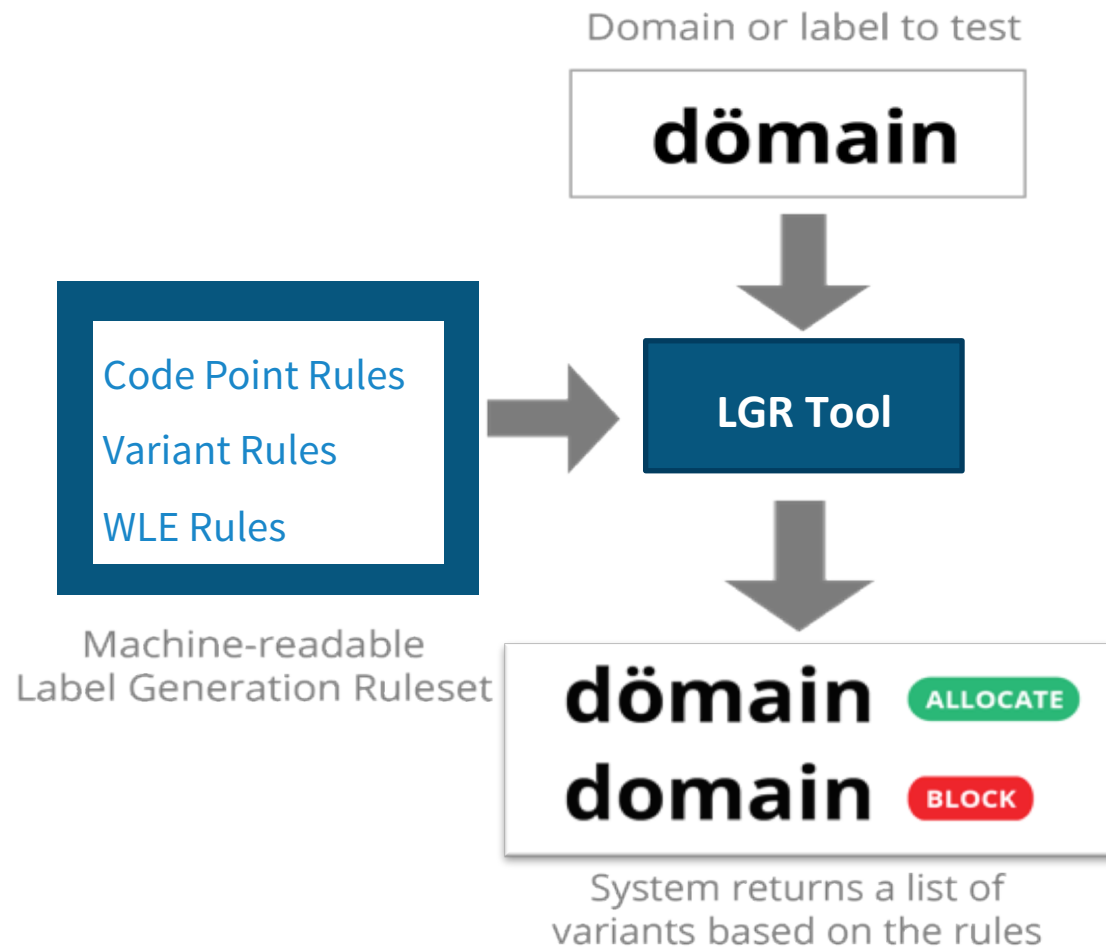
Status of LGR Development

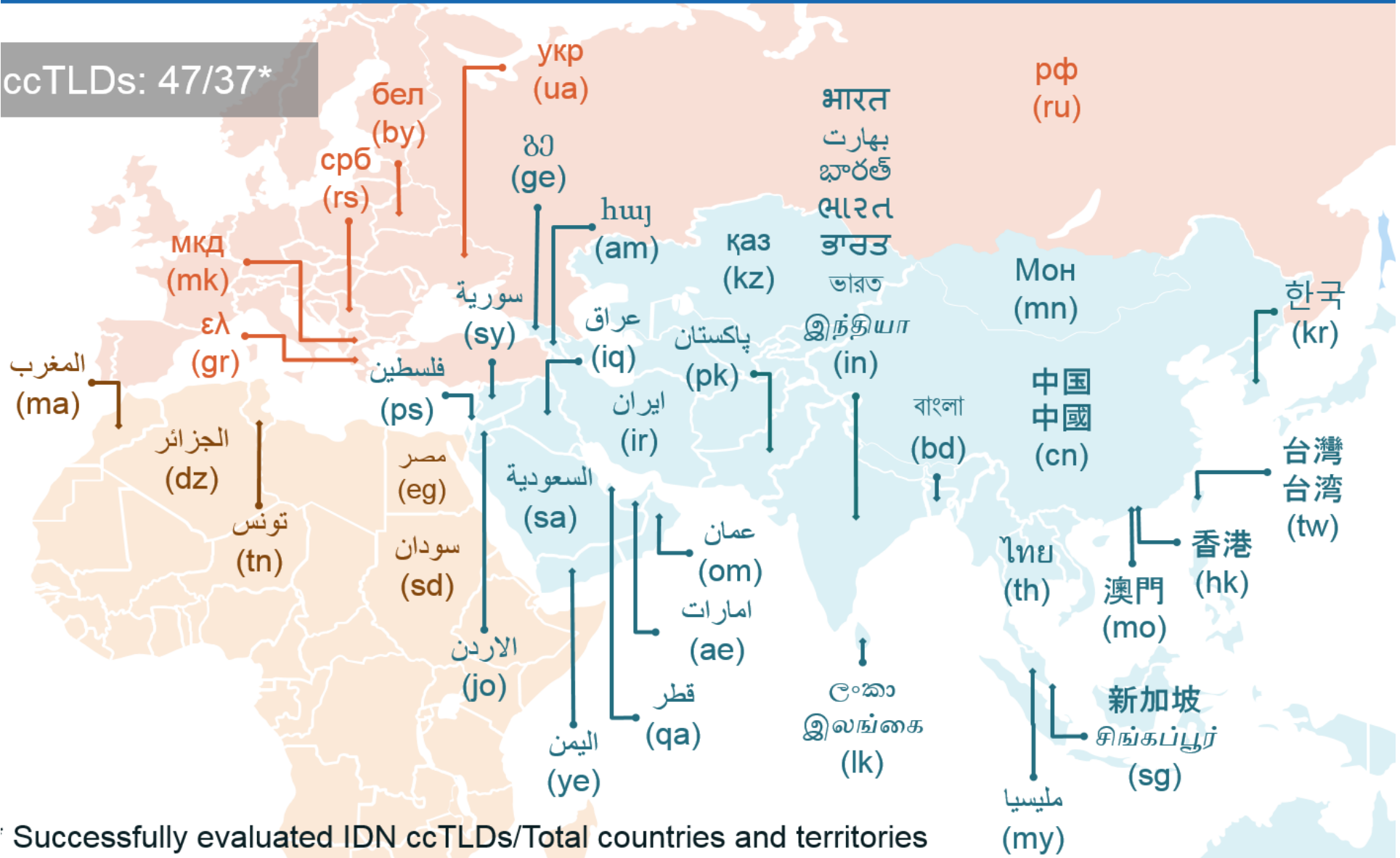Label Generation Rules (LGR) — ICANN 53

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

Domain or label to test

dömain

Code Point Rules

Variant Rules

WLE Rules

Machine-readable
Label Generation Ruleset

LGR Tool

dömain ALLOCATE

domain BLOCK

System returns a list of
variants based on the rules

IDN Country Code Top-Level Domains

ccTLDs: 47/37*

укр (ua)
бел (by)
срб (rs)
мкд (mk)
ελ (gr)
المغرب (ma)
الجزائر (dz)
تونس (tn)
مصر (eg)
سودان (sd)
الاردن (jo)
اليمن (ye)
قطر (qa)
السعودية (sa)
امارات (ae)
عمان (om)
ایران (ir)
عراق (iq)
سورية (sy)
فلسطين (ps)
 სა (ge)
հայ (am)
қаз (kz)
پاکستان (pk)
भारत بهارت ಭಾರತ ભારત ਭਾਰਤ ভারত இந்தியா (in)
рф (ru)
Мон (mn)
বাংলা (bd)
中国 中國 (cn)
한국 (kr)
台灣 台湾 (tw)
香港 (hk)
澳門 (mo)
新加坡 சிங்கப்பூர் (sg)
ไทย (th)
ලංකා இலங்கை (lk)
مليسيا (my)

* Successfully evaluated IDN ccTLDs/Total countries and territories

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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

⊙ **Current status - awaiting community response**

- CCNSO and GNSO requested for potential topics for review

- GNSO formulated an internal informal WG

⊙ **Next steps**

- Based on feedback from the community, formulate a WG 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**
    - Development through vendor
        - Guidelines and documentation of authoritative sources
        - IDN table in LGR format
        - Expert review: linguistic and security and stability
        - Public comments
        - Publication after incorporating public feedback
    - Public comment – update process to allow review; coordinate with GPs; wait till LGR for Root Zone; why LGR format
    - 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 idntlds@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: idntlds@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/croscomlgrprocedure/Document+Repository

- Community Wiki for LGR Project: https://community.icann.org/display/croscomlgrprocedure/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

Reach us at: idntlds@icann.org
Email: engagement@icann.org
Website: icann.org

twitter.com/icann

facebook.com/icannorg

linkedin.com/company/icann

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