

Update IDN ccPDP 4

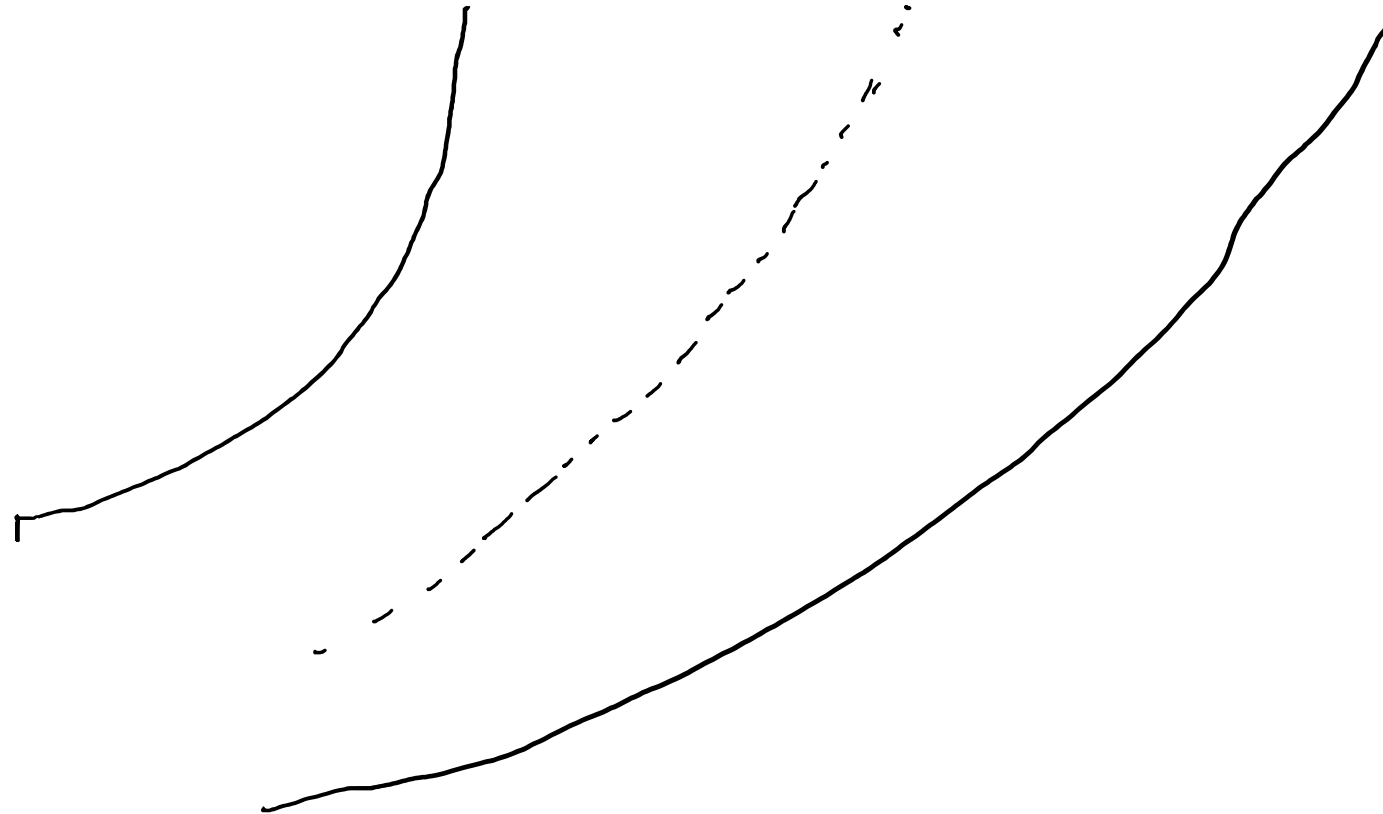
# Topics

- The roadmap
- Principles and Basic Criteria selection IDNccTLD String
- Deselection of IDNccTLDs
- Variants and Variant Management

# The March 2019 Roadmap

To: Policy for Selection of IDN ccTLD String  
Inclusion of IDNccTLDs in ccNSO

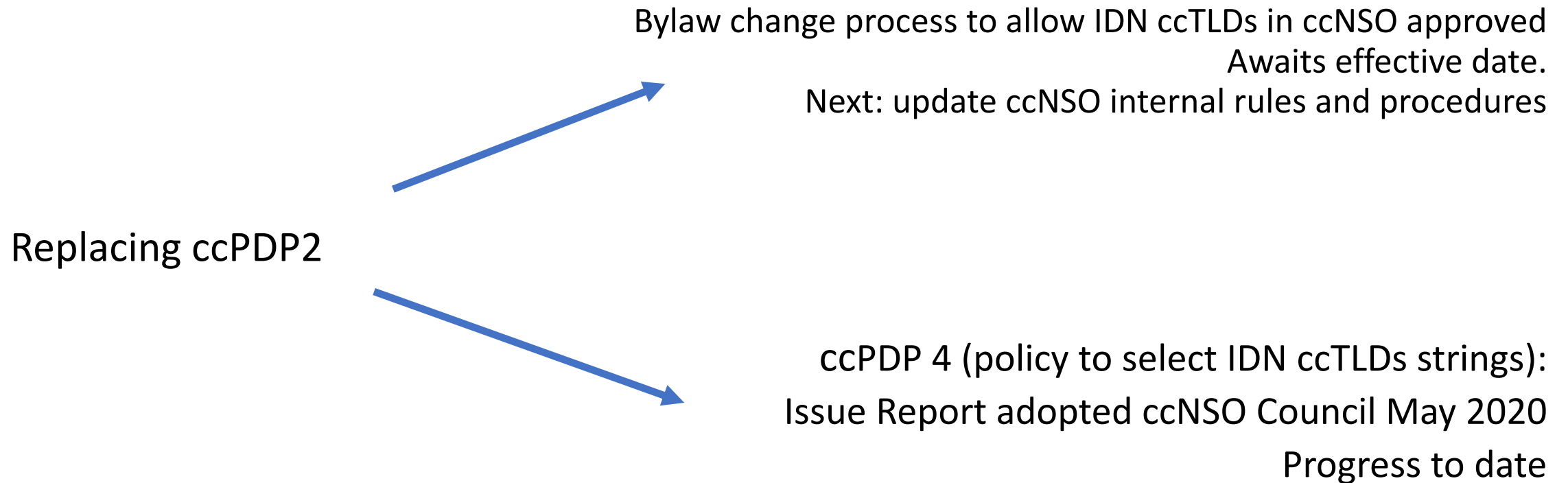
Get from:  
Fast Track Process  
&  
2013 IDN ccTLD policy proposals



# The Roadmap: Where are we now?

ccPDP2 Closed and Evolution of Fast Track Process stopped

Gap Analysis Overall IDN ccTLD policy (PDP 2): completed June 2019



# ccPDP4 Progress to date

## Full Working Group

- Update basic policy document from 2013 (completed)
- Update basic policy with recommendations of the sub-groups
  - Deselection (completed)
  - Variant Management by full WG (underway)
  - CS discussion full WG
  - Stress Testing to start at ICANN74

## Sub-group Variant Management

- Definition & validating variants of IDN ccTLDs and requirements for the delegation of variant IDN ccTLDs
- Area coordination with GNSO IDN EPDP.
- From IDN ccPDP4 perspective:
  - Use results to date SubPro, SAC 060, SAC 120 and other basic documentation
  - coordination at leadership level with GNSO EPDP
  - Partial joint membership, partial joint staff support GNSO EPDP

## Sub-group De-Selection of IDN ccTLDs

- Deselection (retirement) of IDNccTLDs (Completed)

## Sub-group Confusing Similarity

- Review & update review process (underway)
- Standard for Review, Base for Comparison completed

# Topics

- The roadmap?
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# Principles underpinning the policy

- An IDN ccTLD string MUST be associated with a Territory
- (ASCII) ccTLD and IDN ccTLDs are all country code Top Level Domains
- Preserve security, stability and interoperability of the DNS
- Requests for the delegation of IDN ccTLDs should be an ongoing process
- The number of IDNccTLDs per Territory are determined by Criteria

# Basic criteria for selection of an IDNccTLD string

**The IDN ccTLD string must be  
a Meaningful Representation of the name of a Territory in a  
Designated Language and related script**

The underlying principle for the representation of Territories in two letter (ASCII) code elements is the visual association between the names of Territories (in English or French, or sometimes in another language) and their corresponding code elements [section 5.2 ISO 3166-1:2020].

The principle of association between the IDN country code string and the name of a Territory should be maintained. A selected IDN ccTLD string **MUST** be a Meaningful Representation of the name of the Territory.



# Other Criteria for the selection of the IDNccTLD string

- **Additional Technical Criteria**

- IDN TLDs must comply with IDNA2008 (RFCs 5890-5895) or its successor(s).

- **Only one (1) IDN ccTLD string per Designated Language**

- **Selected IDN ccTLD string MUST be non-contentious within the Territory**

- Evidenced by a statement by the Significantly Interested Parties in the Territory.
- Significantly Interested Parties is derived from RFC 1591 and as interpreted by the Framework of Interpretation

Pending recommendations of Variant Management and Confusing Similarity sub-groups

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# De-selection of IDNccTLD strings

- Dovetails with proposed Retirement policy
- De-selection of IDNccTLDs => Definition of trigger event in terms of Retirement policy
- Trigger event IDNccTLDs initiates Retirement process of the selected IDNccTLD and its delegated variants

# Five (5) potential Trigger Events

1. Removal of the name of a Territory from ISO3166-1 list
2. The selected and /or delegated IDNccTLD string is no longer a Meaningful Representation of the name of the Territory:
  - The full or short name of the Territory
  - Part of the name of the Territory
  - The short-form designation for the name of the Territory
3. Language to denote IDNccTLD string is no longer a Designated Language
4. The script in which IDNccTLD string is expressed is no longer script in which the Designated Language is expressed
5. The selected IDN ccTLD string is no longer supported by the Significantly Interested Parties in the Territory
  - SIP defined in RFC1591 as interpreted by the 2013 Framework of Interpretation
  - Always include relevant public authority
  - Include other parties involved in original request.

# Polling question

- Do you support the IDNccPDP4 WG proposed trigger events?

# Basic Mechanism to confirm trigger event

- ICANN is not expected to actively seek confirmation of change of status
  - Exception removal of name from ISO3166-1
- If additional IDNccTLD string is selected and requested, ICANN to seek Statement from ccTLD Manager that relevant criteria are still met.
  - If Statement confirms IDNccTLD string still meets criteria and is provided within 3 months, request for additional IDNccTLD considered to be invalid.
  - If Statement does not confirm relevant delegated IDNccTLD string still meets criteria or Statement is not provided within 3 months, retirement process will be triggered and delegated IDNccTLD string and its variant will be retired.
- ICANN recommended to provide templates for:
  - Statement of (dis-) association
  - Statement of Designated Language
  - Statement of change Referenced Script
  - Statement of de-selection by SIP

# Polling question

- Do you support the IDNccPDP4 WG proposed mechanism to confirm trigger events?

Questions?



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# Variant and Variant Management

- **How are Variants of the selected IDNccTLD string defined?**
- **How should variants of the selected IDNccTLD string be managed?**

# What are Variants?

Extract of Variant Labels overview for ابو ظبي (Abu Dhabi) in Arabic Script  
Using Root Zone –Label Generation Rule for the Arabic script, 80 variant label(s) have been generated of which:

- 78 are “blocked”,
- 1 variant is “allocatable” and
- 1 is “valid”.

## Examples

ابو ظبي	-> xn--mgbca7dzdo	is	valid (meets all criteria)
ابو ظبي	-> xn--lgbbda3fte	is	“blocked” (can not be used according to Rz-LGR)
ابو ظب	-> xn--mgbca7dzdi	is	“blocked”
ابو ظبي	-> xn--mgbca7dzd84b	is	“allocatable” (can be used according to RZ-LGR)

# How are variants generated?

**Compliance with Root Zone Label Generation Rules RZ-LGR-5 or its successor) IS required for the generation of selected IDNccTLDs and its variants, including the determination of whether a variant label is blocked or allocatable.**

Root Zone Label Generation Rules (RZ-LGR) provide a conservative mechanism to determine valid IDN TLDs and their variant labels.

Root Zone Label Generation Rules Version 5 (RZ-LGR-5, June 2022) covers twenty-six scripts.

# Highlight IDNccTLD Variant Management: limit number of variant that can be delegated

Need to limit number of variants to be delegated. Draw a line between

Maximum usability < - ----- -> Maximum security and stability

Example: “Pakistan” in Arabic Script

Arabic script RZ-LGR generates 1200 variants, only 6 are allocatable. Of these 6:

- 3 are not correct spelling of the name of the country in any language
- 1 variant is meaningful representation of the name of the country in the Designated Language
- 1 variant is poetic representation of the name of the Pakistan
- 1 variant is a meaningful representation, however not in a Designated Language.

## **Recommendation –**

**Only variants of the selected IDNccTLD string eligible for delegation have to be:**

- **a Meaningful Representations of the name of the Territory**
- **in the Designated Language**
  - Variants of selected IDNccTLD should be requested by the requester/IDNccTLD Manager
  - Variants of the selected IDNccTLD string must meet all other selection criteria.

# Highlight TLD Variant Management: Applicable policy aspects

All ccTLD related policies (Delegation, Transfer, Revocation & Retirement, and Selection of IDNccTLD strings) apply to variant IDNccTLDs, unless specific requirements under a policy state otherwise.

Example 1 specific requirement: the requirement of one(1) IDNccTLD per Designated Language / script combination does not apply to variants of a selected IDNccTLD string.

Example 2 specific requirement: An IDNccTLD and its variants MUST be delegated to one and the same ccTLD Manager.

Questions?

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# References

- Information on ccPDP4 WG:

<https://ccnso.icann.org/en/workinggroups/idn-cctld-strings.htm>

- Wikispace: here you can find all documents, recordings, and notes:

<https://community.icann.org/display/ccnsowkspc/Policy+Development+Process+%28ccPDP4%29+-+%28de-%29selection+of+IDN+ccTLD+Strings>

- IDNccPDP2 (2013) Recommendations:

<https://ccnso.icann.org/en/announcements/announcement-26sep13-en.htm>

## Fast Track Implementation Plan:

<https://www.icann.org/resources/pages/fast-track-2012-02-25-en>

- General IDN material:

<https://www.icann.org/resources/pages/idn-2012-02-25-en>

# References

- SAC 060: SSAC Comment on Examining the User Experience Implications of Active Variant TLDs Report  
<https://www.icann.org/en/system/files/files/sac-060-en.pdf>
- SAC 120: Input to GNSO IDN EPDP on Internationalized Domain Name Variants (28 April 2022)  
<https://www.icann.org/en/system/files/files/sac-120-en.pdf>