

## Process and methodology for confusing similarity evaluation

Version 06- 16 November 2022 REDLINE

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### Introduction

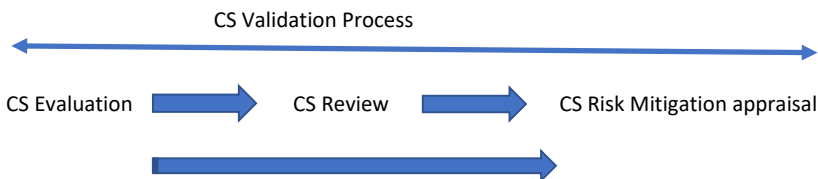
The ccNSO proposed a two-step confusing similarity review in 2013. However over time the Fast Track process evolved further. The IDN Fast Track Process was updated in 2013, following completion of the ccPDP2, to include of the Extended Process Similarity Review Panel. In 2019 the Fast Track was again updated to include of the Risk Mitigation Measures Evaluation. This change was the result of the third review of the Fast Track Process.

For your reference the following sections are included:

1. ccPDP4 Proposed Policy (page 2-6)
2. References
3. Annex A - Delineation document, reflecting the initial discussions on criteria and base for comparison.
4. Annex B - EPSRP Procedures
5. Annex C - Risk Mitigation Measures Evaluation Process.

### The confusing similarity validation process

On the previous call group agreed on the 3 process steps, following those of the Fast Track Confusing Similarity Validation.



Under assumption that confusing similarity review will be required as part of the CS validation in first reading there was support for inclusion of both a review of the initial evaluation and opportunity to suggest risk mitigation. The sub-group members present on the previous call supported that each of the 3 steps should be done by external, independent panel(s).

1 **Proposed Process and Method Confusing Similarity Evaluation PDP4**

2

3 **Goal and Standard Confusing Similarity Evaluation**

4 **1. Goal Confusing similarity review.** The goal of the confusing similarity review is to  
5 minimize **the risk to the stability and security of the DNS due to user confusion by**  
6 **exploiting potential visual confusing similarity between domain names (eg. be in Latin**  
7 **script vs бe in Cyrillic)** As such confusing similarity should therefore be minimized and  
8 mitigated. The risk of visual confusing similarity is not a technical DNS issue, but can  
9 have an adverse impact on the security and stability of the domain name system.

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Commented [MOU1]: The example has been update following discussion on 11 October and 8 November 2022

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11 *Notes and Observations*

12 The rule on confusing similarity originates from the IDNC WG and Fast Track  
13 Implementation Plan and was introduced to minimize the risk of confusion with  
14 existing or future two letter country codes in ISO 3166-1 and other TLDs. This is  
15 particularly relevant as the ISO 3166 country codes are used for a broad range of  
16 applications, for example but not limited to, marking of freight containers, postal use  
17 and as a basis for standard currency codes.

18 The risk of string confusion is not a technical DNS issue, but can have an adverse  
19 impact on the security and stability of the domain name system, and as such should  
20 be minimized and mitigated.

21 The method and criteria used for the assessment cannot be determined only on the  
22 basis of a linguistic and/or technical method of the string and its component parts,  
23 but also needs to take into account and reflect the results of scientific research  
24 relating to confusing similarity, for example from cognitive neuropsychology<sup>1</sup>.

25 In SAC 060, SSAC advised ICANN (i.e the policy making bodies) that *should they*  
26 *decide to implement safeguards to deal with failing user expectations due to the*  
27 *introduction of variants, a distinction should be made between two types of failure*  
28 *modes: no-connection versus misconnection"*

29 No-connection may be a nuisance for the user, like a typo, however misconnection  
30 may result in the exploitation of the user confusion and this could be avoided though  
31 the similarity review.

32

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<sup>1</sup> See for example,

- M. Finkbeiner and M. Coltheart (eds), Letter Recognition: from Perception to Representation. Special Issue of the Journal *Cognitive Neuropsychology*, 2009 and:
- Simpson, Ian; Mousikou, Petroula; Montoya, Juan; Defior, Sylvia, A letter visual-similarity matrix for Latin-based alphabets, *Behavior Research Methods*; June 2013, Vol. 45 Issue 2, p431
- Shane Mueller, Cristoph Weidemann, Alphabetic letter identification: Effects of perceivability, similarity, and bias, *Acta Psychologica* 139, (2012)

The last two studies were used as basis for the review methodology of the Extended Process Similarity Review.

1 With the introduction of variants one of the issues in the context of confusing  
2 similarity is to delineate the base for comparison, which is defined as the set of  
3 requested strings (Request Side) that will be compared with the set of potential  
4 visual confusingly similar strings (Comparison Side). Delineating the base for  
5 comparison is needed for reasons of :

- 6 • Scalability
- 7 •  Avoiding unforeseen and/or unwanted side effects.

8  
9 The original text (from 2013) included the following example as case in point of  
10 confusing similarity: **.PY in Latin script vs PY in Cyrillic**. However currently (October  
11 2022) **.PY (Latin) and PY** are considered variant. At the time (before 2013) a large  
12 pool of characters was considered similar and the example above was  
13 considered one of the best illustration of confusing similarity. However, since then  
14 variants were defined variant characters that were considered to be confusingly  
15 similar are also considered to be variants. The 2013 example is now a good  
16 illustration of this overlap.

- 17
- 18 **2. Standard for evaluation** A selected IDN ccTLD string is considered confusingly similar  
19 with one or more other string(s) (which must be either Valid-U-labels or any a  
20 combination of two or more ISO 646 BV characters) if the appearance of the selected  
21 string in common fonts in small sizes at typical screen resolutions is sufficiently close to  
22 one or more other strings so that it is probable that a reasonable Internet user who is  
23 unfamiliar with the script would perceive the strings to be the same or confuse one for  
24 the other<sup>2</sup>.
- 25
- 26 **3. Base for comparison Confusing similarity of IDN ccTLD Strings.** Under the ccNSO policy  
27 a Selected string, and its Requested Delegatable Variants should not be confusingly  
28 similar with:
- 29 ○ Any combination of two ISO 646 Basic Version (ISO 646-BV) characters (letter  
30 [a-z] codes), nor
  - 31 ○ Existing TLDs, which includes the already delegated variants or reserved  
32 names.
  - 33 ○ Proposed TLDs which are in process of string validation and their requested  
34 Delegatable or requested variants (however defined under the ccTLD and  
35 gTLD processes)

36  
37 (From the 2013 policy document) The following supplemental rules provide the  
38 thresholds to solve any contention issues between the IDN ccTLD selection process  
39 and new gTLD process:

- 40 • A gTLD application that is approved by the ICANN Board will be considered  
41 an existing TLD unless it is withdrawn.
- 42 • A validated request for an IDN ccTLD will be considered an existing TLD  
43 unless it is withdrawn.

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<sup>2</sup> Based on Unicode Technical Report #36, Section 2: Visual Security Issues

1 NOTE; The base for comparison will need to be revisited after competition of CS Process and  
2 Methodology

3 The validation whether or not a selected IDN ccTLD string is confusingly similar is a process  
4 step and should be conducted externally and independently. The recommended procedure  
5 is described in Section [**update section number**], Validation of IDNccTLD Strings  
6  
7

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## 8 **Stage 2: Validation of IDN ccTLD string**

### 10 **1. General description**

11 The String Validation stage is a set of procedures to ensure all criteria and requirements  
12 regarding the selected IDN ccTLD string (as listed in previous section of the Report) have  
13 been met. The actors involved would typically be:

- 14 • The IDN ccTLD string requester. This actor initiates the next step of this stage of the  
15 process by submitting a request for adoption and associated documentation.
- 16 • ICANN staff. ICANN staff will process the submission and coordinate between the  
17 different actors involved.
- 18 • External, Independent Panels (Technical, Similarity & Risk Mitigation Appraisal), to  
19 validate the selected string and its variant(s).  
20

Deleted: review the string (Technical, Similarity & Risk Mitigation Panels).

21 The activities during this stage would typically involve:

- 22 1. Submission of selected string and related documentation.
- 23 2. Validation of selected IDN ccTLD string:
  - 24 a. ICANN staff validation of request. This includes
    - 25 i. Completeness of request
    - 26 ii. Completeness and adequacy of Meaningfulness and Designated  
27 Language documentation
    - 28 iii. Completeness and adequacy of support from relevant public  
29 authority
    - 30 iv. Completeness and adequacy of support from other Significantly  
31 Interested Parties
  - 32 b. Independent Evaluations.
    - 33 i. Technical review
    - 34 ii. String Confusion review
- 35 3. Publication of selected IDN ccTLD string on ICANN website or notification to  
36 requester application was terminated  
37

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38  
39 <snip>

### 41 *b. Independent Evaluations and Reviews*

## 43 **General description of Technical and string confusion validation**

44

1 The goal of the validation is to provide external and independent advice to the ICANN Board  
2 whether a selected string and/or its requested delegatable variant(s) meet(s) the required  
3 technical criteria and is/are not considered to be confusingly similar.

4 If according to the definite outcome of the validation a selected string does not meet one or  
5 more of the technical criteria and/or is considered confusingly similar to another string, the  
6 requested IDNccTLD string is invalid and not eligible under this policy.

7 It is recommended that ICANN appoint the following external and independent Panels:

8 • To validate the technical requirements under this policy are met, ICANN shall  
9 appoint a "Technical Panel"<sup>3</sup> to conduct a technical evaluation of the selected IDN  
10 ccTLD string.

11 • To validate a string for string similarity, ICANN shall appoint an external and  
12 independent "Similarity Evaluation Panel" (hereafter SEP) conducts an evaluation of  
13 the requested IDN ccTLD string.

14 • To allow for a final confusing similarity validation ICANN shall appoint an external  
15 and independent Similarity Review Panel (SRP), again to validate that the selected  
16 IDN ccTLD string is not confusingly similar.

17 Due to the specific nature of the confusing similarity and its inherent subjective  
18 assessment the findings of the "Similarity Evaluation Panel" are reviewed only if so  
19 requested by the requester by, an external and independent "Similarity Review  
20 Panel" (hereafter: SRP). This SRP reviews the requested IDN ccTLD string using a  
21 different assessment framework. The "Similarity Review" is considered a specific  
22 review mechanism, not to be confused with the general ccTLD Review Mechanism. It  
23 is expected that this panel will not include members from any person from one of  
24 the other Panels called for under this policy.

25  
26 • To allow for an appraisal of the risk mitigation treatment, if either or both the SEP  
27 and/or SRP have found the requested string to be confusingly similar ICANN shall  
28 appoint an external and independent Risk Treatment Appraisal Panel

### 29 Notes and observations

30 The details of the roles and responsibilities of the various panels and membership  
31 requirements and the details of the methods, procedures for evaluations and reviews by the  
32 respective panels should be developed as part of the implementation planning. It is noted  
33 that these details have been developed and tested under the IDNccTLD Fast Track Process  
34 and could be used as an example. The various details of Similarity review process and Risk  
35 Treatment Appraisal are included in Annex B (SR) and Annex C (Risk Mitigation Evaluation).  
36  
37

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To allow for a final validation review relating the confusing similarity, and only if so requested by the requester, ICANN should appoint, an external and independent "Extended Process Similarity Review Panel." ¶  
To allow for a review of risk mitigation measures if either or both the Similarity Evaluation Panel and EPSRP have found the requested string to be confusingly similar. ¶~~

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<sup>3</sup> Or any other name ICANN would prefer.

1 Note that under the Fast Track Process the “Technical Panel” and “Similarity Evaluation  
2 Panel” were combined under the function of the DNS Stability Panel. Whether in future,  
3 under the ccPDP4 policy, the two Panels will be combined is a matter of implementation.

#### 4 **A. Process for Technical Validation**

6 **A. 1.** After completion of the ICANN staff validation of the request, ICANN staff will submit  
7 the selected IDN ccTLD string to the “Technical Panel” for the technical review.

9 **A.2.** The Technical Panel conducts a technical string evaluation of the string submitted for  
10 evaluation. If needed, the Panel may ask questions for clarifications through ICANN staff.

12 **A.3.** The findings of the evaluation will be reported to ICANN staff. In its report the Panel  
13 shall include the names of the Panelists and document its findings, and the rationale for the  
14 decision.

16 Usually the Panel will conduct its review and send its report to ICANN staff within 30 days  
17 after receiving the IDN ccTLD string to be evaluated. In the event the Panel expects it will  
18 need more time, ICANN staff will be informed. ICANN staff shall inform the requester  
19 accordingly.

21 **A.4** If according to the technical review the string meets all the technical criteria the string is  
22 technically validated. If the selected string does not meet all the technical criteria the string  
23 is not-valid. ICANN staff shall inform and notify the requester accordingly.

#### 25 **B. Process for Confusing Similarity Validation**

26 **B.1 . Introduction.** As part of the validation process, external and independent advice to the  
27 ICANN Board is provided whether a selected string is valid i.e. not considered to be  
28 confusingly similar.

30 If according to the Confusing Similarity Validation, the selected IDNccTLDs string and/or its  
31 requested variant(s) is/are considered confusingly similar, the requested IDN ccTLD string(s)  
32 is/are not valid and hence not eligible under this policy.

34 To validate the string(s) are not considered confusingly similar, the validation process  
35 includes the following procedures:

- 36 • Similarity Evaluation. The Similarity Evaluation is detailed in section B.2 below.
- 38 • Similarity Review. The Similarity Review is detailed in section B.3 below.
- 40 • Risk Treatment Appraisal Procedure. The Risk Treatment Appraisal is detailed in  
41 section B.4 below.

#### 43 **B.2 Similarity Evaluation**

##### 44 **B.2.1 Procedural aspects**

45 **B.2.1.1** After completion of the Technical Validation ICANN staff will submit the  
46 selected IDN ccTLD string to the String Similarity Panel (SSP) for the confusing  
47 similarity string evaluation.

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2 **B.2.1.2** The Panel or SSP shall conduct a confusability string evaluation of the string  
3 submitted for evaluation. The Panel may ask questions for clarification through  
4 ICANN staff.

5  
6 **B.2.1.3** The findings of the evaluation will be reported to ICANN staff. In the report  
7 the Panel will include the names of the Panelists, document the decision and provide  
8 the rationale for the decision.

9  
10 ICANN staff shall inform and notify the requester accordingly.

11  
12 Usually the Panel will conduct its review and send its report to ICANN staff within 30  
13 days after receiving the IDN ccTLD string to be evaluated. In the event the Panel  
14 expects it will need more time, ICANN staff will be informed. ICANN staff shall inform  
15 the requester accordingly.

## 16 **B.2.2. Results of Evaluation**

17 **B.2.2.1** If according to the evaluation, the Panel does not consider the requested  
18 string(s) to be confusingly similar, the selected IDN ccTLD is validated.

19  
20 **B.2.2.2** Where the string is considered to be confusingly similar the report shall at a  
21 minimum include a reference to the string(s) to which the confusing similarity relates  
22 and examples (in fonts) where the panel observed the similarity.

23  
24  
25 **B.2.2.3** If according to the evaluation by the Panel, the selected IDN ccTLD string  
26 presents a risk of string confusion with a ccTLD string (see Base for Comparison  
27 above) and this (variant) ccTLD string is associated with the same Territory as  
28 represented by the selected IDNccTLD or requested delegatable variant IDNccTLD  
29 string(s), this should be noted in the report. ICANN staff shall inform the requester  
30 accordingly.

31 If, within 3 months of receiving the report the requester shall confirm  
32 that:

- 33 (i) The intended manager and intended registry operator for the  
34 IDN ccTLD and the ccTLD manager for the confusingly similar  
35 country code are one and the same entity; and  
36 (ii) The intended manager of the IDN ccTLD shall be the entity that  
37 requests the delegation of the IDN ccTLD string; and  
38 (iii) The requester, intended manager and registry operator and, if  
39 necessary, the relevant public authority, accept and document  
40 that the IDN ccTLD and the ccTLD with which it is confusingly  
41 similar will be and will remain operated by one and the same  
42 manager, and  
43 (iv) The requester, intended manager and registry operator and, if  
44 necessary, the relevant public authority agree to specific and pre-  
45 arranged other conditions with the goal to mitigate the risk of

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1 user confusion as of the moment the IDN ccTLD becomes  
2 operational;  
3 then the IDN ccTLD string is deemed to be valid.

4  
5 If either the requester, intended manager or the relevant public authority  
6 do not accept the pre-arranged conditions within 3 months after  
7 notification or at a later stage refutes the acceptance, the IDN ccTLD shall  
8 not be validated.

9  
10 Alternatively, the requester may defer from this mechanism and use the  
11 procedure as described under B.3 or B.4.

12  
13 **B.2.2.4** If according to the evaluation the selected IDN ccTLD string(s) is/are found to  
14 present a risk of string confusion, ICANN staff shall inform the requester. The  
15 requester may call for a Similarity Review or Risk Mitigation Appraisal and provide  
16 additional documentation and clarification referring to aspects in the report of the  
17 Panel. The requester should notify ICANN within three (3) calendar months after the  
18 date of notification by ICANN, and include the additional documentation. After  
19 receiving the notification from the requester, ICANN staff shall call on the Similarity  
20 Review Panel (SRP) or RTAP Panel.

21  
22  
23 **FOR DISCUSSION:**

24 WHAT IF the Selected IDNccTLD is considered confusingly similar and one or  
25 more variants not? Should:

- 26 • all requested strings be considered invalid?
- 27 • Only the confusing similar string?

28 Note: a variant of IDNccTLD string is a variant of the selected string that is  
29 by itself delegatable i.e meets all criteria.

30  
31 Proposed Reponse: If the selected string is not valid, all related variant strings  
32 are invalid. Rationale: the slected string is considered the core or primary  
33 string. All variants strings are derived from this string. So if the core or primary  
34 string is considered invalid, all strings that are derived from the this core or  
35 primary string should be invalid as well.

36  
37 WHAT IF the selected IDNccTLD is NOT considered confusingly similar and one  
38 or more requested variants are considered confusingly similar? Should in this  
39 case only the variant be considered invalidated?

40  
41 Proposed Reponse: If the selected string is valid, all related variant strings  
42 should be evaluated individually whether they meet all criteria (including the  
43 non-confusing similarity requirements). Rationale: the selected string is

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1 considered the core or primary string. All variants strings are derived from this  
2 string. So although the core or primary string is considered valid, the derived  
3 strings should be validated at their own merits. This is also in line and  
4 operationalizes section 3.2.3 of the policy ( Limitation of delegation of variants  
5 ). According to the notes and observations section 3.2.3: *For variants to be*  
6 *eligible for delegation, section 3.2.3 implies that all criteria apply and the*  
7 *required documentation and support from the Significantly Interested Parties*  
8 *must be available for all requested variants before validation. The proposal is*  
9 *attempting to strike a balance between the legitimate need for variants of an*  
10 *IDNccTLD to avoid user confusion and the general responsibilities for the*  
11 *security and stability of the root by the need to limit proliferation of strings at*  
12 *the root level.*

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13  
14  
15 WHAT IF the Selected IDNccTLD strings is valid (and one or more variant(s)) ,  
16 and other variant(s) are invalid, should the review and/or risk mitigation  
17 process (B.3 and/or B.4 below) be available (i.e. review of the evaluation, and  
18 /or appraise mitigation measures)?

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19  
20 ▲ Proposed response:

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21 For variants to be eligible for delegation, the policy tries to strike a between  
22 the legitimate need for variants of an IDNccTLD to avoid user confusion and  
23 the general responsibilities for the security and stability of the root by the  
24 need to limit proliferation of strings at the root level. If a variant string is  
25 considered a prima facie to be confusing similar to another (delegated) string,  
26 the need to introduce such a string to avoid user confusion creates the second  
27 order side-effect of potentially adding to the confusion, which initially was  
28 supposed to be limited by the introduction of the variant. To avoid such a  
29 situation the review and/or risk mitigation process (B.3 and/or B.4 below)  
30 should not be available to review an invalidated variant IDNccTLD string or to  
31 appraise risk treatment related to an invalidated Variant IDNccTLD string.

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### 32 33 34 35 **B.3 Similarity Review**

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#### 36 37 **B.3.1 Similarity Review Process**

38 The SRP can be requested to conduct a second and final confusing similarity assessment of  
39 the requested IDN ccTLD string if:

- 40 1) The selected IDNccTLD string (and/or requested delegatable variant IDNccTLD  
41 string(s)) are deemed to be invalid; and

1 2) The request for a Similarity Review is received by ICANN within three (3) months of  
2 ICANN's notification of the Similarity Evaluation.  
3

4  
5 **B.3.2** The SRP conducts its review based on the standard and methodology and criteria  
6 developed for it, and, taking into account, but not limited to, all the related documentation  
7 from the requester, including submitted additional documentation and the finding of the  
8 Similarity Evaluation Panel. The SRP may ask questions for clarification through ICANN staff.  
9

10 **B.3.3** The findings of the SRP shall be reported to ICANN staff and will be publicly  
11 announced on the ICANN website. This report shall include and document the findings of  
12 the SRP, including the rationale for the final decision, and in case of the risk of confusion a  
13 reference to the strings that are considered confusingly similar and examples where the  
14 panel observed this similarity.  
15

16 If according to the Similarity Review, the SRP does not consider the string to be confusingly  
17 similar, the selected IDN ccTLD and/or its requested variant(s) is/ are valid.  
18

19 If according to the Similarity Review, the SRP considers the string to be confusingly similar,  
20 the selected IDN ccTLD and/or its requested variant(s) is/ are invalid.  
21

22 **B.3.4** Transitional arrangement: If an IDN ccTLD string request was submitted under the Fast  
23 Track Process is still in process or has been terminated due to non-validation of the string  
24 per confusing similarity criteria under the Fast Track , the requester has the option to  
25 request a second and final validation review by the Similarity Review Panel. This option is  
26 available to the requester within three (3) calendar months of the date the SRP is  
27 appointed. ICANN should notify the Requesters who fall in this category as soon as the SRP  
28 is operational.  
29

30 **B.3.5.** If ICANN is not notified within three (3) calendar months after the date of notification  
31 by ICANN of the evaluation Panel's findings, or under the transitional arrangement within  
32 three (3) months of the date the EPRSP is appointed, the Termination Process will be  
33 initiated. (See section XX of the policy).  
34

35  
36  
37 **B.4 Risk Treatment Appraisal**

38 **B.4.1 The Objective of the Review of Risk Treatment Appraisal.** The objective is to  
39 determine if the risk will be effectively mitigated i.e that if a requested string has been  
40 found to be confusingly similar with the upper case version of other strings, the proposed  
41 mitigation measures reduce the risks associated with the confusing similarity to an  
42 acceptable level or threshold.  
43

44 **B.4.2 Base for appraisal.** The proposed mitigation measures should be evaluated in relation  
45 to the strings identified by the relevant panel (SEP or SRP) as confusingly similar to the  
46 requested string(s).  
47

**Deleted:** Transitional arrangement: If an IDN ccTLD string request submitted under the Fast Track Process is still in process or has been terminated due to non-validation of the string per confusing similarity criteria under the Fast Track , the requester has the option to request a second and final validation review by the Similarity Review Panel. This option is available to the requester within three (3) calendar months of the date the SRP is appointed. ICANN should notify the Requesters who fall in this category as soon as the SRP is operational. ¶

¶ If ICANN is not notified within three (3) calendar months after the date of notification by ICANN of the evaluation Panel's findings, or under the transitional arrangement within three (3) months of the date the EPRSP is appointed, the Termination Process will be initiated. (See section XX of the policy). ¶

¶ If according to the review the selected IDN ccTLD string is found to present a risk of string confusion, ICANN staff shall inform the requester in accordance with paragraph 3 above. The requester may call for an Extended Process Similarity Review and provide additional documentation and clarification referring to aspects in the report of the Panel. The requester should notify ICANN within three (3) calendar months after the date of notification by ICANN, and include the additional documentation. After receiving the notification from the requester, ICANN staff shall call on the Extended Process Similarity Review Panel (EPRSP). ¶

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1 **B.4.3. Standard of Appraisal.** The RTAP Panel should consider the likelihood of confusing  
2 similarity with specific consideration of confusability from the perspective that any domain  
3 name may be displayed in either upper- or lower-case, depending on the software  
4 application and regardless of the user’s familiarity with the language or script.

5  
6 The proposed mitigation measures meet the objective of Risk Treatment Appraisal if:

- 7 • The requester has made clear how the risk management process and proposed  
8 mitigation measures meet the objective and criteria of the Risk Treatment. This  
9 should be evaluated together with the confusability findings.
- 10 • The residual level of risk, if any, due to the confusability of domain names is  
11 expected to be in the same range as which would occur by adding another IDN ccTLD  
12 which has not been found similar to existing or reserved TLD.

13  
14 **B.4.4 Criteria to appraise the Risk Mitigation proposals.** To appraise whether the proposed  
15 risk mitigation meet the objective of the RTA, the proposed risk mitigation measures should  
16 be:

- 17 • **Proportionate.** The mitigation measures will be in proportion to risks identified. The  
18 higher the risks, the greater the mitigation measures will be required; conversely,  
19 lower mitigation measures will be a proportionate response to risks that are  
20 identified as low severity or low likelihood,
- 21 • **Adequate.** For each of the case(s), the measures should reduce the risk of user  
22 confusion arising from the potential use of the applied-for TLD to an acceptable  
23 level. The residual level of risk, if any, due to the confusability of domain names is  
24 expected to be in the same range as which would occur by adding another IDN ccTLD  
25 which has not been found similar to existing or reserved TLD.
- 26 • **Self-contained.** The proposed mitigation measures can only apply to the registration  
27 policies of the applied-for TLD and do not assume any restrictions on the availability  
28 or registration policies of other current or future TLD labels.
- 29 • **Global Impact.** The proposed mitigation measures must have global applicability,  
30 and not apply to confusability within the intended user community only.

31 *Notes and observations*

32 The criteria to appraise the Risk Mitigation proposals were develop by a joint ccNSO – SSAC  
33 working party. To test the Risk Mitigation proposals the working party conducted a case  
34 study: [https://www.icann.org/en/system/files/files/eu-greek-mitigation-measures-28feb19-](https://www.icann.org/en/system/files/files/eu-greek-mitigation-measures-28feb19-en.pdf)  
35 [en.pdf](https://www.icann.org/en/system/files/files/eu-greek-mitigation-measures-28feb19-en.pdf). This case study, together with the related Guideline, provides the basis to interpret  
36 and implement details of the Risk Appraisal criteria and Risk appraisal procedure

37 **B.4.5 Conditions for Eligibility of the RTA.** Only under the following set of conditions, a  
38 request for the RTA is eligible:

- 39 I. The DEP or SEP evaluation have determined that the requested string is confusingly  
40 similar in uppercase only.
- 41 II. The requester has filed a request for a review of its proposed mitigation measures  
42 within three months from the date the results from the DEP and/or SRP have been  
43 communicated to the requester.

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- 1 III. In the request for the appraisal of proposed mitigation measures, the requester has  
2 included - at a minimum – a reference to the proposed, internationally recognized  
3 and appropriate risk management and mitigation process the requester intends to  
4 use, and the related, proposed mitigation measures (hereafter the Risk Mitigation  
5 Plan or RMP).  
6 IV. The IDNccTLD Manager, and if so required the relevant public authority, commits to  
7 implement the proposed and agreed upon mitigation measures as of the moment  
8 the IDN ccTLD becomes operational.  
9

10 If the above conditions are met, the review and evaluation of the proposed methodology  
11 and related mitigation measures shall be undertaken by an independent panel (the ‘RTAP  
12 Panel’), appointed by ICANN.  
13

#### 14 **B.4.4 Risk Treatment Appraisal Procedure**

- 15 1. Requester submits the request for appraisal, including the Risk Mitigation Plan (or  
16 RMP) within three (3) months after receiving the communication of the string  
17 similarity review decision  
18 2. ICANN convenes the RTAP Panel, and forwards the request to the RTAP Panel within  
19 one (1) week of the formation of the RTAP Panel  
20 3. The RTAP Panel creates a review plan within three (3) weeks for the completion of  
21 the work, which includes at a minimum:  
22 a. Tentative work plan and timeline  
23 b. Request(s), if any, additional information which may be needed or helpful  
24 4. ICANN reviews the RTAP Panel’s evaluation plan, and informs the requester of the  
25 timeline and any additional information needed.  
26 5. Requester considers the review plan and shares any feedback, and additional  
27 information requested with respect to the RMP, and any other information  
28 considered necessary and /or relevant as soon as possible and confirms whether to  
29 proceed with the RTA. If deemed helpful the requester may ask for a meeting with  
30 the panel to provide additional explanations (The meeting between the requester  
31 and panel may be in person, virtual or combined. If in person the requester may be  
32 asked to compensate the travel expenses of the panelists attending the meeting in  
33 person).  
34 6. If the confirmation is not received within eight (8) weeks of receiving the review  
35 plan, the application is closed  
36 7. ICANN organization forwards the updates with respect to the RMP, if any, to RTAP  
37 Panel, within one (1) week of receiving it.  
38 8. RTAP Panel undertakes analysis of the RMP. ICANN organization coordinates any  
39 additional interaction between RTAP Panel and requester with respect to any  
40 clarifying question RTAP Panel may have or additional information the requestor  
41 intends to provide with respect to the RMP.

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- 1 9. The RTAP Panel creates and hands over to ICANN organization a first RTA-Interim  
2 Report within eight (8) weeks of receiving the requester's confirmation to proceed  
3 with the RTAP,
- 4 10. ICANN organization passes RTA-Interim Report to the requester within one (1 week)  
5 of receiving it.
- 6 11. Requester submits its response and any additional information it considers relevant  
7 on the RTA-Interim Report and updated RMP (if at all) to ICANN organization within  
8 four (4) weeks of receiving the RTA-Interim Report.
- 9 12. ICANN organization sends the response and updates of the RMP (if any) to RTAP  
10 from the requester. If requester has not submitted a response within four (4) weeks  
11 after receiving the Interim Report, ICANN will inform the RTAP Panel that they may  
12 continue to next steps.
- 13 13. The RTAP Panel creates the RTA-Final Report and sends it to ICANN organization  
14 within (4) weeks of receiving the requester response on the RTA-Interim Report, or if  
15 no response is received within four (4) weeks of the expiry of the deadline for filing a  
16 response. ICANN organization coordinates any clarifying questions between RTAP  
17 Panel and the requester.
- 18 14. ICANN organization sends the RTA-Final Report to the requester and publishes it one  
19 (1) week after sending it to the requester

20  
21

22 **B.4.5 Result of Risk Treatment Appraisal.** The result of the RTA procedure is either:

- 23 I. A documented and consolidated recommendation from the RTAP Panel, following  
24 consultations with the requester, confirming that:
  - 25 o The requester has adopted an appropriate risk management methodology  
26 and framework;
  - 27 o The mitigation measures are proportionate and adequate to treat the risk(s)  
28 identified by the SEP or SRP (as the case may be);
  - 29 o The requester/ IDN ccTLD manager has committed to implement the  
30 mitigation measures prior to or on launch of the IDN ccTLD string(s);
  - 31 o The requested IDNccTLD string(s) is/are considered valid.

32 **or**

- 33 II. A documented and consolidated recommendation confirming the risk is not  
34 adequately treated, given the list of mitigation measures being proposed by the  
35 requester or IDNccTLD Manager and the requested IDNccTLD string(s) is/are  
36 considered invalid.

37 The RTAP Panel's recommendation will be made public.

38

39 **C. Implementation.** Additional details for the string validation process under A and B above  
40 are considered a matter of implementation. With respect to the procedures under B, the  
41 procedures and Guidelines that were developed under the IDNccTLD Fast Track  
42 Implementation Plan, provide a tested and operational basis.

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**Deleted:** If these measures are agreed upon by the time the delegation request of the IDN ccTLD string is submitted then the requested string is deemed to have passed the string evaluation. ¶

1 **References & Background material**

- 2 • Guideline EPSRP: [https://www.icann.org/en/system/files/files/epsrp-guidelines-](https://www.icann.org/en/system/files/files/epsrp-guidelines-04dec13-en.pdf)
- 3 [04dec13-en.pdf](https://www.icann.org/en/system/files/files/epsrp-guidelines-04dec13-en.pdf)
- 4
- 5 • Guideline Risk Mitigation Measures Evaluation:
- 6 [https://www.icann.org/en/system/files/files/guideline-risk-mitigation-measures-](https://www.icann.org/en/system/files/files/guideline-risk-mitigation-measures-evaluation-28mar19-en.pdf)
- 7 [evaluation-28mar19-en.pdf](https://www.icann.org/en/system/files/files/guideline-risk-mitigation-measures-evaluation-28mar19-en.pdf)
- 8
- 9 • EPSRP and Risk Mitigation Reports for IDN ccTLD Applications:
- 10 <https://www.icann.org/resources/pages/epsrp-reports-2014-10-14-en>
- 11
- 12 • Joint ccNSO SSAC Response to ICANN Board (on introduction of Risk Mitigation)
- 13 [https://ccnso.icann.org/sites/default/files/field-attached/epsrp-final-response-](https://ccnso.icann.org/sites/default/files/field-attached/epsrp-final-response-17aug17-en.pdf)
- 14 [17aug17-en.pdf](https://ccnso.icann.org/sites/default/files/field-attached/epsrp-final-response-17aug17-en.pdf)
- 15
- 16

**Deleted:** D.5 If the intended IDN ccTLD manager does not propose mitigation measures or does not implement the agreed upon risk mitigation measures sufficiently within the timeline described above, the Termination Procedure will be initiated.¶

To determine whether the proposed risk mitigation measures are adequate ICANN will consult experts in the area of relevant Risk Mitigation measures and the IDN ccTLD string requestor. The proposed measures are to be evaluated together with the finding of the confusability evaluation.¶

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## 1 Annex A - Delineating Confusing Similarity

### 2 Introduction

3 At its last meeting, the CS sub-group discussed the scope of the base for comparison for the  
4 confusing similarity review. The discussion focused on the which variants, if any, to include  
5 in the comparison to assess possible confusing similarity of requested strings. Basicly the  
6 group started with assumption that the review should be based on:

- 7 • On the submission/ request side:
  - 8 ○ the requested label (level 1) and all allocatable variants (level 2).
- 9 • On the other side it would include:
  - 10 1 Any combination of two ISO 646 Basic Version (ISO 646-BV) characters<sup>4</sup> (letter [a-z]  
11 codes),
  - 12 2 Existing TLDs or reserved names, their allocatable (level 2) and blocked variants (level 3),  
13 and
  - 14 3 Proposed TLDs which are in process of string validation, their allocatable ( level 2) and  
15 blocked variants (level 3)

16  
17 The scope will need to be revisited again. Starting point of this discussion is the goal of the  
18 confusing similarity review.

### 20 Goal Confusing similarity review

21 The agreed upon goal of the confusing similarity review is to minimize **the risk to the**  
22 **stability and security of the DNS due to user confusion by exploiting potential visual**  
23 **confusing similarity between domain names (eg. .PY in Latin script vs PY in Cyrillic)** As such  
24 confusing similarity should therefore be minimized and mitigated. The risk of visual  
25 confusing similarity is not a technical DNS issue, but can have an adverse impact on the  
26 security and stability of the domain name system.

27  
28 In SAC 060, SSAC advised ICANN (i.e the policy making bodies) that *should they decide to*  
29 *implement safeguards to deal with failing user expectations due to the introduction of*  
30 *variants, a distinction should be made between two types of failure modes: (no-connection)*  
31 *versus misconnection.*

- 32 • **No-Connection (Denial of Service):** *the user attempts to visit http://example.Y,*  
33 *reading it as being the same Uniform Resource Identifier (URI) as the*  
34 *http://example.X that, for example, he or she saw in an advertisement, but the*  
35 *connection does not work (lookup fails) because Y is either blocked, withheld, or X*  
36 *has no variant at all, and example.Y is not registered.*
- 37 • **Misconnection:** *the user attempts to visit http://example.Y, reading it as being the*  
38 *same URI as the http://example.X that, for example, he or she saw in an*  
39 *advertisement, but arrives at a site controlled by a registrant different to that of*  
40 *example.X.*

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<sup>4</sup> International Organization for Standardization, "Information Technology – ISO 7-bit coded character set for information interchange," ISO Standard 646, 1991



1 *In case of no-connection, the user is frustrated and may conclude that “the Internet does not*  
2 *work,” but no serious harm has arisen.*

3 From a risk perspective: although there is a possibility ( $p1$ ) of confusion ( $C$ ), there is no  
4 harm ( $H$ ) nor potential ( $p2$ ) harm. The overall estimated impact of the risk is therefore zero  
5 [ $p1 * C * p2 * 0 (=H)$ ].

6 *The second case is problematic even if this effect is not the result of malicious work on the*  
7 *part of Y’s operator or example.Y registrant. Misconnections to a perfectly legitimate site*  
8 *operating at example.Y present issues of possible credential compromise or other accidental*  
9 *disclosure of information in addition to user confusion and frustration.*

10 From a risk perspective: there is not only a possibility ( $p1$ ) of confusion ( $C$ ), there is also a  
11 potential ( $p2$ ) harm ( $H$ ) to be associated with the confusing similarity. The overall estimated  
12 impact of the risk is therefore not zero [ $p1 * C * p2 * H$ , whereby  $H > 0$ ] and should be avoided.

13 Under the evolution of the Fast Track Process a joint ccNSO-SSAC working group<sup>5</sup> noted that  
14 in dealing with risks associated with confusing similarity *there is no general hard and fast*  
15 *rule with respect to the mitigation measures that should be implemented or with respect to*  
16 *the acceptable level of risk. It all depends very much on the circumstances, context and*  
17 *interplay of proposed measures and current and future risks associated with the confusing*  
18 *similarity of proposed strings.*

#### 19 **Linking these two risk categories to the goal of the confusing similarity review**

20 Visual similarity is relevant for those situations where as a the result of visual similarity a  
21 user does not connect or misconnects. In line with the SAC060 distinction between No-  
22 connection and Misconnection a distinction should be made whereby as a result of visual  
23 confusion no-connection or a misconnection is established.

24  
25  
26 No-connection may be a nuisance for the user, like a typo, however misconnection may  
27 result in the exploitation of the user confusion and this could be avoided though the  
28 similarity review.

#### 29 30 31 **Scope of comparison**

32 Taking into account the goal of the confusing similarity review, **minimize the risk to the**  
33 **stability and security of the DNS due to user confusion by exploiting potential visual**  
34 **confusing similarity between domain names (eg. .PY in Latin script vs PY in Cyrillic)** the  
35 confusing similarity review is limited to avoid misconnection resulting from visual similarity  
36 of strings.

37 With the introduction of variants one of the issues in the context of confusing similarity is to  
38 delineate the base for comparison, which is defined as the set of requested strings (Request

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<sup>5</sup> <https://ccnso.icann.org/sites/default/files/field-attached/epsrp-final-response-17aug17-en.pdf>

1 Side) that will be compared with the set of potential visual confusingly similar strings  
2 (Comparison Side)

3 As a result of the introduction of variants, the potential scope of the Base for Comparison  
4 will expand exponentially. For example, as part of the confusing similarity review a selected  
5 IDNccTLD string needs to be compared with the string “Pakistan” in the Arabic script. As a  
6 result of introducing the comparison could expand to over 1200 strings (including all  
7 allocatable and blocked variants of “Pakistan” in the Arabic script). Therefore delineating  
8 the base for comparison is needed for reasons of :

- 9 • Scalability:
  - 10 ○ Be able to scale the review appropriately. It is expected that for the
  - 11 upcoming years, confusing similarity reviews have to done manually.
  - 12 ○ Without proper limitation, the review may become to resource intensive
  - 13 and/or long in duration, which may additional issues, for example around
  - 14 predictability.
- 15 • Avoiding unforeseen and/or unwanted side effects.
  - 16 ○ If the full set of blocked variants of a would be included in the
  - 17 Comparison Side, a requested selected IDNccTLD could be “invalid” and
  - 18 further processing terminated although the variant string included in the
  - 19 Compare Side is from another script, and co-mingling of scripts is not
  - 20 allowed. In other words, the comparison may include strings/labels,
  - 21 which are not allowed under policy.
  - 22 ○ If a string includes is comprised of or contains blocked variants it will
  - 23 never be delegated.

24  
25 **Comparison Side.** To assess confusing similarity of strings the requested strings needs to be  
26 compared with and should not be visual similar to other strings (Comparison Side) that  
27 would include visual comparable strings from the following set:

- 28 • Any combination of two ISO 646 Basic Version (ISO 646-BV) characters<sup>6</sup> (letter [a-z]
- 29 codes), nor
- 30 • Existing TLDs or reserved names.
- 31 • Proposed TLDs which are in process of string validation.

#### 32 33 34 **Delineating Scope of Request Side**

35 The primary question to determine the scope of the Request Side Question:  
36 Which set of variants should be taken into request side of the base for comparison?  
37 1. Only the selected string and the requested delegatable variants?  
38 2. The selected string and **all delegatable** variants?  
39 3. The selected string and **all allocatable variants** of the selected string, or  
40 4. The selected string and **all variants (allocatable and blocked).**?

41  
42 **Proposed Request Side.** The proposed policy the request side for the Base for Comparison is  
43 comprised of the:

---

<sup>6</sup> International Organization for Standardization, "Information Technology – ISO 7-bit coded character set for information interchange," ISO Standard 646, 1991

- 1 • Selected string, and
- 2 • Requested delegatable variants (only those allocatable variants, which are a
- 3 meaningful representation of the name of the territory in the designated language
- 4 and related script and requested at the time of submission of the request)

5

6 **Rationale**

- 7 1. The IDN selection process is open and ongoing. Variants may be requested any time
- 8 as long as they meet all criteria, including meaningfulness.
- 9 2. The focus should be minimizing the risk of Misconnection to minimize and/or
- 10 mitigate harm.

11 Abstracting from variants, if the selected string “X X” is considered confusingly

12 similar with the string “xx”, which belongs to the pool of:

- 13 • Any combination of two ISO 646 Basic Version (ISO 646-BV) characters<sup>7</sup>
- 14 (letter [a-z] codes),
- 15 • Existing TLDs or reserved names.
- 16 • Proposed TLDs which are in process of string validation

17 The potential misconnection results from this confusing similarity between “X X” and

18 “xx” and for that reason “X X” is deemed to be invalid and processing under the

19 policy will end.

- 20 3. From a technical point of view the selected sting “X X” and its delegatable variants
- 21 should be viewed as separate TLDs. Therefore each of the requested strings should
- 22 be reviewed on confusing similarity.
- 23 4. As IDNccTLD process is open and at a later stage additional variant strings may be
- 24 requested (for example variants of already delegated IDNccTLD under the Fast Track
- 25 process). Each of these requested variants of an already delegated selected string,
- 26 should be reviewed at its own merits with respect to confusing similarity.

27

28

29 **Delineating Scope of Comparison Side.**

30 Re-iterating, the goal of the confusing similarity review is to minimize **the risk to the**

31 **stability and security of the DNS due to user confusion by exploiting potential visual**

32 **confusing similarity between domain names** or to paraphrase in terms of SAC 060

33 (*Examining the User Experience Implications of Active Variant TLDs*) the goal is to minimize

34 the risk of Misconnection due to visual confusability of two strings.

35

36 The minimum level of the Comparison Side, before the introduction of variants, includes:

- 37 4 Any combination of two ISO 646 Basic Version (ISO 646-BV) characters<sup>8</sup> (letter [a-z]
- 38 codes), nor
- 39 5 Existing TLDs or reserved names.
- 40 6 Proposed TLDs which are in process of string validation.

41

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<sup>7</sup> International Organization for Standardization, "Information Technology – ISO 7-bit coded character set for information interchange," ISO Standard 646, 1991

<sup>8</sup> International Organization for Standardization, "Information Technology – ISO 7-bit coded character set for information interchange," ISO Standard 646, 1991

1 After the introduction of the variants, the minimum set of strings in the Comparison Side,  
2 could be defined as:  
3  
4 7 Any combination of two ISO 646 Basic Version (ISO 646-BV) characters<sup>9</sup> (letter [a-z]  
5 codes), nor  
6 8 Existing TLDs, which includes the already delegated variants or reserved names.  
7 9 Proposed TLDs which are in process of string validation and their requested delegatable  
8 or requested variants (however defined under the ccTLD and gTLD processes)  
9

10 In other words, all strings that:

- 11 1. Should never be delegated under any existing policy (the reserved names),
- 12 2. Should always be delegatable because of other existing policy (ASCII two-letter  
13 country-code TLDs, RFC 1591)),
- 14 3. Have been delegated (existing TLDs and their delegated variants), and
- 15 4. Are in the process of validation at the time the request for the selected IDNccTLD  
16 and its requested delegatable variants was submitted. This would include the  
17 variants of the selected IDNccTLD strings and new gTLD labels and their requested  
18 variants.

19 Secondly, all allocatable variants could be included of all already delegated TLDs, and those  
20 which are in process.  
21

22 Although, by definition allocatable variants may be requested at a later stage. The  
23 allocatable variants will need to be reviewed against all criteria, including confusing  
24 similarity and meaningfulness if they are to be delegated. By including all allocatable  
25 variants in the comparison side, the confusing similarity review could become a reservation  
26 system. Allocatable variants, which have not been requested and may never be requested  
27 could block the introduction and delegation of a selected IDNccTLD.  
28

29 And again, the goal of the confusing similarity review is to minimize risk of misconnection,  
30 and therefore avoid that a requested string is potentially delegated. The goal is not to  
31 minimize or avoid Denial of Service or Non-Connection.  
32

33 With respect to including the blocked variants. The arguments to exclude all allocatable  
34 variants apply even in a stronger sense.  
35

36 In summary: Under the ccNSO policy a Selected string, and its Requested Delegatable  
37 variants should not be confusingly similar with:

- 38 10 Any combination of two ISO 646 Basic Version (ISO 646-BV) characters (letter [a-z]  
39 codes), nor
- 40 11 Existing TLDs, which includes the already delegated variants or reserved names.
- 41 12 Proposed TLDs which are in process of string validation and their requested delegatable  
42 or requested variants (however defined under the ccTLD and gTLD processes)  
43  
44

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<sup>9</sup> International Organization for Standardization, "Information Technology – ISO 7-bit coded character set for information interchange," ISO Standard 646, 1991

1 **Annex B – Extended Process Similarity Review**  
2 **Extended Process Similarity Review Panel**

3  
4 **Introduction**

5 As part of the DNS Stability Evaluation external and independent advice to the ICANN Board is  
6 provided whether a selected string is not confusingly similar to other existing or applied for  
7 TLDs. If according to the DNS Stability Evaluation the selected string is considered confusingly  
8 similar to another string, the request for the IDN ccTLD with that particular selected string is  
9 not eligible under the Fast Track Process.

10  
11 To evaluate potential similarity, the DNS Stability Evaluation includes the following evaluation  
12 Panel:

- 13 • To evaluate a string for string similarity, an external and independent “Similarity  
14 Review Panel” conducts a review of the requested IDN ccTLD string.
- 15  
16 • To evaluate a string for string similarity If a selected string is found to be confusingly  
17 similar by the “Similarity Review Panel”, an external and independent “Extended  
18 Process Similarity Review Panel” (hereafter: EPSRP) conducts a review of the  
19 requested IDN ccTLD string second panel, using a different framework, and, only if so  
20 requested by the requester.

21  
22 The EPSRP shall review the requested string(s) on the basis of the framework described  
23 below, with a clear focus on the overarching principle to preserve and ensure the security,  
24 stability and interoperability of the DNS.

25  
26  
27 **Extended Proces Similarity Review Procedure**

28 The EPSRP can be requested to conduct a second and final confusing similarity assessment of  
29 the requested IDN ccTLD string if:

- 30 3) The DNS Stability Panel, in performing its string similarity review, deems the string to  
31 be invalid; and
- 32 4) If the requester seeks review by the EPSRP within three (3) months of ICANN’s  
33 notification of the DNS Stability Panel’s determination.

34  
35 Transitional arrangement: If an IDN ccTLD string request submitted under the Fast Track  
36 Process is still in process or has been terminated due to non-validation of the string per  
37 confusing similarity criteria, the requester has the option to request a second and final  
38 validation review by the Extended Process Similarity Review Panel. This option is available to  
39 the requester within three (3) calendar months of the date when the EPSRP is appointed.  
40 Requesters who fall in this category will be notified by ICANN staff of their eligibility for this  
41 process when the panel has been seated.

42  
43 If ICANN is not notified within three (3) calendar months after the date of notification by  
44 ICANN of DNS Stability Panel findings, or under the transitional arrangement within three (3)  
45 months of the date the EPRSP is appointed, the Fast Track Termination Process will be  
46 initiated (See section 5.4. of the Implementation Plan).

47

1 The requester may call for the second and final Extended Process Similarity Review by  
2 sending a request to <insert address> (INCLUDE SAMPLE?). Additional documentation and  
3 clarification, if any, referring to aspects in the report of the DNS Stability Panel may be also  
4 provided. The additional material should be send to: <insert address> .  
5

6 After receiving the notification from the requester, ICANN shall call on the EPSRP.  
7

8 Within one (1) month after receiving the notification from ICANN staff, the EPSRP will request  
9 the external research team to measure similarity and confusability of the selected IDN ccTLD  
10 string to similar and dissimilar comparison letter strings, taking into account the  
11 documentation provided. The request will include at a minimum the font and font size  
12 conditions.  
13

14 The EPSRP conducts its evaluation of the string based on the methodology and criteria  
15 described below, and, taking into account, but not limited to:

- 16 • All the related documentation from the requester, including submitted additional  
17 documentation,
- 18 • IDN tables and
- 19 • The findings of the DNS Stability Panel.

20 During the evaluation process the EPSRP may seek further clarification from the requester  
21 through ICANN staff, if deemed necessary.  
22

23 The findings of the EPSRP shall be reported to ICANN and will be publicly announced on the  
24 ICANN website. This report shall include and document the findings of the EPSRP, including:

- 25 • The final decision
- 26 • The rationale for the final decision.

27 In case the string is deemed to be invalid the report shall also include:

- 28 • A reference to the strings that are considered confusingly similar and
  - 29 • Examples where this similarity was noted.
  - 30 • Report of the external research team.
- 31

32 If according to the EPSRP the selected IDN ccTLD string is valid on string similarity grounds,  
33 the requester is notified by ICANN staff that the DNS Stability Evaluation has successfully  
34 been completed and that the requested string(s) will be queued for public posting.  
35  
36

### 37 **Methodology and criteria**

38 A selected IDN ccTLD string should not be confusingly similar with:

- 39 ○ Any combination of two ISO 646 Basic Version (ISO 646-BV) characters<sup>10</sup> (letter [a-z]  
40 codes), nor
  - 41 ○ Existing TLDs or reserved names.
- 42

43 As stated in the proposed IDN ccTLD policy, the rule for confusing similarity is that if the  
44 appearance of the selected string, in both upper and lower case, in common fonts in small

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10 International Organization for Standardization, "Information Technology – ISO 7-bit coded character set for information interchange," ISO Standard 646, 1991

1 sizes at typical screen resolutions, is sufficiently close to one or more other strings, it is  
2 probable that a reasonable Internet user who is unfamiliar with the script perceives the  
3 strings to be the same or confuses one for the other<sup>11</sup>.

4  
5 In order to determine whether this is the case in particular for the two letter codes, under  
6 the Fast Track Process, the EPSRP will establish whether a selected IDN ccTLD string is too  
7 similar to another to recommend acceptance, based on a behavioral metric that objectively  
8 measure the visual similarity of a candidate IDN ccTLD strings to other letter strings, and in  
9 particular the reserved 2-letter ISO3166-1 country codes. The behavioral metric provides  
10 quantitative and statistical evidence about the likelihood of confusing two possible IDN  
11 ccTLDs and its methods are open and repeatable to enable replication by third parties<sup>12</sup>.

12  
13 An external and independent research team will provide the behavioral metric relating to the  
14 selected IDN ccTLD string under evaluation by the EPSRP. The metric itself is a combined  
15 metric derived from three (3) different measuring methods to assess similarity:

- 16 • Subjective Rating Task: Participants judge on a multi-point scale the visual similarity  
17 of two letter strings. Although this is necessarily a subjective measure, the outcomes  
18 from such ratings can be very reliable within and between raters, and this can easily  
19 be treated as a numerical scale.
- 20 • Delayed Match to Sample / 2-AFC: Participants in the test are shown a stimulus,  
21 which later must be selected from a set of options. When only two options are given,  
22 this is sometimes referred to as a two-alternative forced choice (2-AFC) task.
- 23  
24 • Visual Search Task: Participants search for and identify a stimulus either by matching  
25 a target or miss-matching the rest of the stimuli in a field of text strings.

26  
27  
28 **Panelists Extended Process Similarity Review Panel**  
29 (Initially include a placeholder)

30  
31  
32  
33 **Research Team**

34  
35  
36  
37  

---

<sup>11</sup> Based on Unicode Technical Report #36, Section 2: Visual Security Issues

<sup>12</sup> This takes into account the latest literature in study of letter recognition, neuropsychology and cognition for example:

**A letter visual-similarity matrix for Latin-based alphabets,**  
Simpson, Ian; Mousikou, Petroula; Montoya, Juan; Defior, Sylvia,  
Behavior Research Methods; June 2013, Vol. 45 Issue 2, p431

**Alphabetic letter identification: Effects of perceivability, similarity, and bias.**  
Shane Muleler, Cristoph Weidemann, *Acta Psychologica* 139, (2012)

1 **Annex C - Risk Mitigation Evaluation Procedure**

2 **1. Introduction**

3 As per proposed policy, a requested IDN ccTLD string should not be confusingly similar with  
4 (i) any Reserved Name, existing TLDs (both ccTLDs and gTLDs) or potential future TLDs to  
5 avoid risk associated with “misconnection” (see Annex A above).

6  
7 To evaluate possible confusing similarity, ICANN has appointed the following two panels:

- 8 • **Similarity Evaluation Panel (SEP).** The DSP conducts the initial DNS Stability  
9 Evaluation, which includes a string similarity review of the requested IDN ccTLD  
10 string.
- 11 • **Extended Process Similarity Review Panel (EPSRP).** The EPSRP conducts a review of  
12 the requested IDN ccTLD string for contention cases identified by DSP upon the  
13 request of the requester, using the same criteria but with a different methodology  
14 from DSP<sup>13</sup>.

15 The process description includes the evaluation of mitigation measures to reduce risks  
16 associated with confusingly similarity of TLD strings. This describes the process on how to  
17 propose and review mitigation measures.

18  
19 **2. High level overview Risk Treatment Appraisal Process**

20 At the request of the requester of an IDN ccTLD string and under the eligibility conditions of  
21 this guideline, the Risk Treatment Appraisal Process Panel (RTAP Panel) will need to be  
22 satisfied that the requester has followed an appropriate risk management process and  
23 adequate, related risk mitigation measures.

24 Should the RTAP Panel have concerns as to the adequacy of the proposed risk management  
25 process or the proposed mitigation measures, the RTAP Panel will communicate with ICANN  
26 and the requester during the process to understand the objective and the Risk Mitigation  
27 Proposal (RMP), and the requester may provide additional information and clarification.  
28

29 **3. Conditions for Application of these Guidelines**

30 In accordance with the proposed ccPDP4 procedure and under the following limited set of  
31 conditions, a requester is eligible to propose measures to mitigate the risk associated with  
32 confusing similarity:

- 33 III. If the DSP or EPSRP evaluation have determined that the requested string is  
34 confusingly similar in uppercase only.
- 35 IV. The requester has filed a request for a review of its proposed mitigation measures  
36 within three months from the date the results from the DRP and/or EPSRP have  
37 been communicated to the requester or, if at a later date, within 3 months after the  
38 date at which this guideline becomes effective.

---

<sup>13</sup>. Following the methodology in its guidelines, for the scripts which are bicameral the EPSRP provides separate recommendations for uppercase and lowercase versions of the applied-for IDN ccTLD strings given that from a visual similarity point of view, uppercase and lowercase characters of the same letter are distinct entities (see for example: <https://www.icann.org/en/system/files/files/epsrp-greece-30sep14-en.pdf>)

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1 V. In the request for a review of proposed mitigation measures, the requester has  
2 included - at a minimum – a reference to the proposed, internationally recognized  
3 and appropriate risk management and mitigation process the requester intends to  
4 use, and the related, proposed mitigation measures.

5 The requester commits to implement the proposed and agreed upon mitigation  
6 measures as of the moment the IDN ccTLD becomes operational.  
7

8 If the above conditions are met, the review and evaluation of the proposed methodology  
9 and related mitigation measures shall be undertaken by an independent panel (the 'RTAP  
10 Panel'), appointed by ICANN.  
11

12 The RTAP Panel shall evaluate the proposed risk management process and related risk  
13 mitigation measures to assess whether the risks of confusing similarity identified through  
14 the evaluation or review has been mitigated.  
15

#### 16 **4. Objective and Criteria for Review of Risk Mitigation Measures**

17 The mitigation measures proposed in the RMP should meet the objective of Risk Mitigation  
18 Measures and the criteria for review of Risk Mitigation Proposal.

19 The requester should make clear how the risk management process and proposed  
20 mitigation measures contained in the RMP meet the objective and criteria and should be  
21 evaluated together with the confusability findings.

22 The residual level of risk, if any, due to the confusability of domain names is expected to be  
23 in the same range as which would occur by adding another IDN ccTLD which has not been  
24 found similar to existing or reserved TLD.  
25

##### 26 **4.1 The Objective of the Review of Risk Mitigation Measures**

27 The objective is to determine if the risk will be effectively mitigated, as per the statement  
28 below:

29 If a requested string has been found to be confusingly similar with the upper case version of  
30 other strings, the proposed mitigation measures should reduce the risks associated with the  
31 confusing similarity to an acceptable level or threshold. The proposed mitigation measures  
32 should be evaluated in relation to the strings identified by the relevant panel (DSP or EPSRP)  
33 as confusingly similar to the applied-for string. In accordance with the IDN ccTLD  
34 Implementation Plan, the RTAP Panel should consider the likelihood of confusing similarity  
35 with specific consideration of confusability from the perspective that any domain name may  
36 be displayed in either upper- or lower-case, depending on the software application and  
37 regardless of the user's familiarity with the language or script.  
38

##### 39 **4.2 The Criteria for assessing the risk mitigation measures**

- 40 1. **Proportionate:** The mitigation measures will be in proportion to risks identified. The  
41 higher the risks, the greater the mitigation measures will be required; conversely,  
42 lower mitigation measures will be a proportionate response to risks that are identified  
43 as low severity or low likelihood,
- 44 2. **Adequate:** For each of the case(s), the measures should reduce the risk of user  
45 confusion arising from the potential use of the applied-for TLD to an acceptable level.

- 1 The residual level of risk, if any, due to the confusability of domain names is expected  
2 to be in the same range as which would occur by adding another IDN ccTLD which has  
3 not been found similar to existing or reserved TLD.
- 4 3. **Self-contained:** The proposed mitigation measures can only apply to the registration  
5 policies of the applied-for TLD and do not assume any restrictions on the availability or  
6 registration policies of other current or future TLD labels.
- 7 4. **Global Impact:** The proposed mitigation measures must have global applicability, and  
8 not apply to confusability within the intended user community only.

9 **5. Risk Treatment Appraisal Process Panel (RTAP Panel)**

10 Effective risk analysis and mitigation require expertise in the area of risk management and  
11 risk management processes and procedures. To guide the discussion and coordinate the  
12 assessment work and given the paramount nature of this kind of expertise, at least one  
13 person on the panel should be a recognized expert in this area. The RTAP Panel members  
14 shall appoint one of their members to be the chair of the RTAP Panel.

15 The team doing the risk analysis should also include persons who are 1. considered experts  
16 in the area of internationalized domain names and how related registration policies are  
17 implemented by the registries (to review the practicality of implementing the RMP), 2. how  
18 IDNs may be confusing, to what extent such confusion can cause harm and how such  
19 confusion and harm could be prevented.

20 Therefore, the RTAP Panel will have three (3) to five (5) members, ensuring all the following  
21 requirements/skill sets are represented:

- 22 ○ Expertise in and understanding of various risk mitigating processes and standards  
23 and risk mitigation practices.
- 24 ○ Expertise on IDN implementation by registries, good understanding of the  
25 implementation opportunities and challenges for different IDN policies at the second  
26 and other levels, and knowledge of the relevant security and technical standards  
27 relating to IDNs.
- 28 ○ Expertise in brand protection, trade mark law and domain name disputes pertaining  
29 to the use of domain names as instruments for phishing and other sorts of abusive  
30 use, their impact and measures to address them.
- 31 ○ Expertise in the relevant language(s)/scripts.

32

33 ICANN organization convenes the RTAP Panel to review the anticipated RMP.

34 The names of the members of the RTAP Panel will be listed on the ICANN Website as soon  
35 as possible following their appointment, and included in the report.

36

37 **6. Risk Treatment Appraisal Procedure**

- 38 1. Requester submits the RMP within three (3) months after receiving the  
39 communication of the string similarity review decision<sup>14</sup>

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<sup>14</sup> For applications in the process before the implementation of these guidelines, this period will start from the date of publishing of the announcement that these guidelines are applicable.

- 1 2. ICANN organization convenes the RTAP Panel, and forwards RMP to RTAP Panel
- 2 within one (1) week of the formation of the RTAP Panel
- 3 3. The RTAP Panel creates a review plan within three (3) weeks for the completion of
- 4 the work, which includes at a minimum:
  - 5 a. Tentative work plan and timeline
  - 6 b. Request, if any, for additional information which may be needed or helpful
- 7 4. ICANN organization reviews the RTAP Panel's evaluation plan, and informs the
- 8 requester of the timeline and any additional information needed.
- 9 5. Requester considers the review plan and shares any feedback, and additional
- 10 information requested with respect to the RMP, and any other information
- 11 considered necessary and /or relevant as soon as possible and confirms whether to
- 12 proceed with the RTA. If the confirmation is not received within eight (8) weeks of
- 13 receiving the review plan, the application is closed
- 14 6. ICANN organization forwards the updates with respect to the RMP, if any, to RTAP
- 15 Panel, within one (1) week of receiving it.
- 16 7. RTAP Panel undertakes analysis of the RMP. ICANN organization coordinates any
- 17 additional interaction between RTAP Panel and requester with respect to any
- 18 clarifying question RTAP Panel may have or additional information the requestor
- 19 intends to provide with respect to the RMP.
- 20 8. The RTAP Panel creates and hands over to ICANN organization a first RTA-Interim
- 21 Report within eight (8) weeks of receiving the requester's confirmation to proceed
- 22 with the RTAP,
- 23 9. ICANN organization passes RTA-Interim Report to the requester within one (1 week)
- 24 of receiving it.
- 25 10. Requester submits its response and any additional information it considers relevant
- 26 on the RTA-Interim Report and updated RMP (if at all) to ICANN organization within
- 27 four (4) weeks of receiving the RTA-Interim Report.
- 28 11. ICANN organization sends the response and updates of the RMP (if any) to RTAP
- 29 from the requester. If requester has not submitted a response within four (4) weeks
- 30 after receiving the Interim Report, ICANN will inform the RTAP Panel that they may
- 31 continue to next steps.
- 32 12. The RTAP Panel creates the RTA-Final Report and sends it to ICANN organization
- 33 within (4) weeks of receiving the requester response on the RTA-Interim Report, or if
- 34 no response is received within four (4) weeks of the expiry of the deadline for filing a
- 35 response. ICANN organization coordinates any clarifying questions between RTAP
- 36 Panel and the requester.
- 37 13. ICANN organization sends the RTA-Final Report to the requester and publishes it one
- 38 (1) week after sending it to the requester

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## 39 7. Closure of procedure

40 The end result of the review procedure is either:

- 41
- 42 o A documented and consolidated recommendation from the RTAP Panel,
- 43 following consultations with the requester, confirming that:

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- 1                   ▪ The requester has adopted an appropriate risk management
- 2                   methodology and framework;
- 3                   ▪ The mitigation measures are proportionate and adequate to treat the
- 4                   risk(s) identified by the DSP or EPSRP (as the case may be);
- 5                   ▪ The requester/ IDN ccTLD operator has committed to implement the
- 6                   mitigation measures prior to or on launch of the IDN ccTLD string(s);
- 7                   **or**
- 8                   ○ A documented and consolidated recommendation confirming the risk is not
- 9                   adequately treated, given the list of mitigation measures being proposed by
- 10                  the requester.
- 11 VI.           The end result of the review, will be made public.
- 12

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13 **8. Risk Treatment Appraisal (RTA) Reports**

14 There are two kind of reports generated by the panel. There is *RTA-Interim Report* which

15 identifies gap(s) and (possibly) recommends any additional controls and solutions to

16 mitigate risks identified. The second, the *RTA-Final Report* provides the final consolidated

17 recommendation after evaluating the RMP by the requester. These reports would contain at

18 least the following:

19 **RTA-Interim Report**

- 20 1. *Objective and scope of the risk management process.*
- 21 2. *Summary of the external and internal context and how it relates to the system*
- 22 *being assessed.*
- 23 3. *Summary of the methodology used for various stages of risk management.*
- 24 4. *Assessment of risk and breakdown of overall risk into its itemized component*
- 25 *risks, with description of each component risk, the gap it causes, the end-user*
- 26 *communities it impacts, and its evaluation.*
- 27 5. *Summary of the initial RMP by the requester, its break down into constituent*
- 28 *controls, and how applicable constituent controls address each component risk.*
- 29 6. *Analysis of the degree (and description) of residual risk for each component risk*
- 30 *after applying the proposed constituent controls.*
- 31 7. *For each component risk and in accordance with the objective and criteria set out*
- 32 *in these guidelines, a detailed evaluation if the residual risk is still at significant*
- 33 *level. Why? Why not?*
- 34 8. *Any suggestions, if available, for effectively addressing any of the residual risks*
- 35 *which is still considered significant.*
- 36 9. *Based on the RMP, the residual risk for each component risk, what is the interim*
- 37 *consolidated recommendation: is the cumulative risk effectively mitigated based*
- 38 *on the RTA objective? Why? Why not?*

39 **RTA-Final Report**

- 40 1. *Objective and scope of the risk management process.*
- 41 2. *Summary of the external and internal context and how it relates to the system*
- 42 *being assessed.*
- 43 3. *Summary of the methodology used for various stages of risk management.*

- 1 4. *Assessment of risk and breakdown of overall risk into its itemized component*
- 2 *risks, with description of each component risk, the gap it causes, the end-user*
- 3 *communities it impacts, and its evaluation.*
- 4 5. *Summary of the initial RMP, and any response or changes to the mitigation*
- 5 *measures proposed by the requester in response to the RTA-Interim report,*
- 6 6. *Summary of the final RMP, its break down into constituent controls, and how*
- 7 *applicable constituent controls address each component risk.*
- 8 7. *Analysis of the degree (and description) of residual risk for each component risk*
- 9 *after applying the proposed constituent controls.*
- 10 8. *For each component risk, and in accordance with the objective and criteria set*
- 11 *out in this guideline, a detailed evaluation if the residual risk is still at significant*
- 12 *level. Why? Why not?*
- 13 9. *Based on the RMP, the residual risk for each component risk, what is the final*
- 14 *consolidated recommendation: is the cumulative risk effectively mitigated based*
- 15 *on the RTA objective? Why? Why not?*

16

#### 17 **Glossary**

- 18 • Risk Mitigation Proposal, by the requester – RMP. The RMP should include at a
- 19 minimum the proposed internationally recognized and appropriate risk management
- 20 and mitigation process the requester has used and intends to use, and the proposed
- 21 mitigation measures.
- 22 • Risk Treatment Appraisal Process- RTAP
- 23 • Risk Treatment Appraisal Process Panel – RTAP Panel (none DRP EPSPR or ICANN
- 24 employees or contractors)

25

26

27

1 To be updated  
 2 Process Flow Diagram

