

# Stress Testing

**DRAFT v1.9**

ccNSO

2019-12-03

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## 5 1 Stress Testing

6 Stress testing was defined as:

- 7 • Test the process as developed by applying the process to *corner case* situations  
8 and understand whether such a case results in a unwanted outcome or side ef-  
9 fects.
- 10 • If the outcome of that situation results in an unwanted outcome or side effects.  
11 Policy/Process may need to be adjusted/refined.

12 The stress testing was conducted in Montreal working through the responses on the  
13 following questions:

- 14 • What is outcome of this situation when process is invoked?
- 15 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
16 acceptable?
- 17 • Does Policy/Process need to be adjusted/refined?

18 Moving forward (to ensure consistency) these questions will be used to examine  
19 each of the additional identified corner cases.

## 20 **2 Identified Cases**

### 21 **2.1 Significant names change of country (resulting in change of** 22 **ccTLD).**

#### 23 **2.1.1 Examples**

- 24 • ZR (Zaire) to CD (Congo, Democratic Republic of) (1997)
- 25 • TP (East Timor) to TL (Timor-Leste) (2002)

## 26 2.1.2 Question

27 Does replacement from the former ccTLD by the new ccTLD imply a delegation of  
28 the new ccTLD or should it be considered as an exception of the regular case of  
29 delegation?

## 30 2.1.3 Outcome examination

- 31 • No exception. No additional change Operationally or transfer/ delegation
- 32 • Policy no exception, no need to adjust

## 33 2.2 Domain Names under management at removal date.

### 34 2.2.1 Question

- 35 • At agreed end-date (date of removal from the root-zone) Second Level domain  
36 names are still under management of the ccTLD Manager, despite reasonable  
37 efforts from the ccTLD Manager to end registrations
- 38 • Does it make a difference if only a few (10) or thousands (10.000 or more) SLDs  
39 are active at the time of removal?

## 40 2.2.2 Outcome examination

- 41 • Difference does not matter, avoid gaming the policy
- 42 • Case added 3166 to accommodate new names
- 43 • No Need to adjust the process/policy

## 44 3 Breach of Retirement Agreement

### 45 3.1 Various situations

- 46 • The ccTLD Managers continues to promote ccTLD and accepting registrations  
47 during retirement process. Does it make a difference if at removal date no SLDs  
48 under management or the number of registrations under management has not  
49 declined or has even increased compared to number at date of Retirement Noti-  
50 fication?
- 51 • The ccTLD Manager stops all activities i.e. goes off
- 52 • The ccTLD Managers takes no action resulting in serious deterioration of the  
53 zone

### 54 **3.1.1 Outcome examination**

- 55 • Plan continues as agreed
- 56 • Compliance not applicable.
- 57 • Too complicated
- 58 • No need to adjust process/policy

## 59 **4 ccTLD Manager Goes Bankrupt After Notification of** 60 **Retirement**

### 61 **4.1 Outcome examination**

- 62 • Broke substantively responsibility of operator
- 63 • Revocation after substantial misconduct
- 64 • Security and stability issue: IFO assess on case-by case basis
- 65 • Linkage active SLD -> that is not material to remove to root
- 66 • No need to adjust process/policy

## 67 **5 Request for Transfer post Retirement Notice**

### 68 **5.1 Result of significant name change**

69 Both apply

### 70 **5.2 Result of dissolution country, significant interested parties** 71 **cannot be identified**

72 GAP, but indirectly addressed, special power transfer

#### 73 **5.2.1 Outcome Examination**

- 74 • Special policy requirement to transfer is considered reasonable.
- 75 • GAP in existing transfer / retirement policy.
- 76 • Proposed policy/process needs to be adjusted to accommodate specific transfer.

77 **6 ccTLD Manager ends membership of the ccNSO and**  
78 **claims policies (Retirement & RFC1591/FoI) are**  
79 **therefore not applicable**

80 **6.1 Question: Does it matter if ccTLD Manager Acts with support**  
81 **of SIP or without support of SIP?**

82 **6.1.1 Outcome Examination:**

83 **Note:** the ccNSO Council recently established that membership of ccNSO by defi-  
84 nition ends when entity listed as ccTLD Manager is no longer listed as such in the  
85 IANA Root Database, implying that for the duration of the retirement process mem-  
86 bership of the ccNSO does not end, unless it is actively terminated by the Manager.

- 87 • Up to ICANN to decide whether relevant
- 88 • No need to adjust policy/process

89 **7 Country Code Was Removed From List of Assigned**  
90 **Codes Because Country Dissolved.**

91 **7.1 Code was re-assigned shortly afterwards (within 10 years) to**  
92 **another country added to the list**

93 **7.1.1 Outcome examination:**

- 94 • Currently impossible.
- 95 • No need to adjust policy/process

96 **7.2 After several years (during retirement process) code is**  
97 **exceptionally reserved, specifically as ccTLD**

98 **7.3 Outcome Examination:**

99 No need to adjust policy/process.



## 100 **8 New, Additional Corner Cases/Situations in Order to** 101 **Examine**

102 In Montreal the WG identified the following additional situations to be subject to  
103 the stress testing. To organize the stress testing process, each group member was  
104 asked to identify the 5 to be tested first. Based on that ranking (see: <https://nl.surveymonkey.com/results/SM-7XTTP3BW7>)  
105

- 106 • Lines of communication between ccTLD Manager and IFO: authoritative (5 out  
107 of 6)
- 108 • Breach Agreement due to court injunction (4 out of 6)
- 109 • Breach of Agreement due to applicable national law/ Court order (4 out of 6)
- 110 • Breach of Agreement during extension period (4 out of 6)
- 111 • Island state disappears, but commercial interests keep ccTLD *alive* (3 out of 6)
- 112 • Unforeseen technical consequences/significant consequences for other affect-  
113 ing other TLDs/DNS in general (3 out of 6)
- 114 • Country disappears/ however there is a clear successor state (2 out of 6)
- 115 • 3166 disappears/decision of ISO 3166 MA is completely out of line, in breach of  
116 own rules (1 out of 6)

- 117 • Assets go to other party (1 out of 6)
- 118 • Does the retirement policy apply to pending retirement case? ((1 out of 6)

## 119 **8.1 Stress testing**

## 120 **8.2 Lines of communication between ccTLD Manager and IFO:** 121 **authoritative**

### 122 **8.2.1 Examination questions**

- 123 • What is outcome of this situation when process is invoked?
- 124 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
125 acceptable?
- 126 • Does Policy/Process need to be adjusted/refined?

127 **8.2.2 Outcome examination**

128 **8.3 Cases Breach of Agreement**

- 129 • Due to court injunction
- 130 • Due to applicable national law / Court order
- 131 • Breach of agreement during extension period

132 **8.3.1 First question, specifically related to this cluster of situations**

133 Is there a significant difference between Breach of Agreement due to court injunc-  
134 tion and Court order/ breach of national (applicable) law?

135 With respect to each of the three (3) identified situations the following examination  
136 questions need to be answered:

- 137 • What is outcome of this situation when process is invoked?
- 138 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
139 acceptable?
- 140 • Does Policy/Process need to be adjusted/refined?

### 141 8.3.2 Outcome examination

142 Note the previously cases of Breach of Agreement that have been identified and  
143 discussed:

- 144 • The ccTLD Managers continues to promote ccTLD and accepting registrations  
145 during retirement process. Does it make a difference if at removal date no SLDs  
146 under management or the number of registrations under management has not  
147 declined or has even increased compared to number at date of Retirement Noti-  
148 fication?
- 149 • The ccTLD Manager stops all activities i.e. goes off
- 150 • The ccTLD Managers takes no action resulting in serious deterioration of the  
151 zone

## 152 8.4 Island state disappears, but commercial interests keep ccTLD 153 *alive*

### 154 8.4.1 Examination questions

- 155 • What is outcome of this situation when process is invoked?

- 156 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
157 acceptable?
- 158 • Does Policy/Process need to be adjusted/refined?

#### 159 8.4.2 Outcome examination

### 160 8.5 Unforeseen technical consequences/significant consequences 161 for other affecting other TLDs/DNS in general

#### 162 8.5.1 Examination questions

- 163 • What is outcome of this situation when process is invoked?
- 164 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
165 acceptable?
- 166 • Does Policy/Process need to be adjusted/refined?

167 **8.5.2 Outcome examination**

168 **8.6 Country disappears/ however there is a clear successor state**

169 **8.6.1 Examination questions**

- 170 • What is outcome of this situation when process is invoked?
- 171 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
172 acceptable?
- 173 • Does Policy/Process need to be adjusted/refined?

174 **8.6.2 Outcome examination**

175 **8.7 3166 disappears/decision of ISO 3166 MA is completely out of**  
176 **line, in breach of own rules**

177 **8.7.1 Examination questions**

- 178 • What is outcome of this situation when process is invoked?

- 179 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
180 acceptable?  
181 • Does Policy/Process need to be adjusted/refined?

182 **8.7.2 Outcome examination**

183 **8.8 Assets go to other party**

184 **8.8.1 Examination questions**

- 185 • What is outcome of this situation when process is invoked?  
186 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
187 acceptable?  
188 • Does Policy/Process need to be adjusted/refined?

189 **8.8.2 Outcome examination**

190 **8.9 Does the retirement policy apply to pending retirement case?**

191 **8.9.1 Examination questions:**

- 192 • What is outcome of this situation when process is invoked?
- 193 • Is the outcome of that situation/the result unwanted or are side effects unwanted/un-  
194 acceptable?
- 195 • Does Policy/Process need to be adjusted/refined?

196 **8.9.2 Outcome examination**