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# Registration Abuse Policies Working Group Initial Report

Submitted [TBC]

[ROUGH DRAFT: IN PROCESS.  
Version: 27 January 2010]

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## STATUS OF THIS DOCUMENT

This is the Initial Report of the Registration Abuse Policies Working Group (RAPWG), prepared by ICANN staff for submission to the GNSO Council on [TBC] and posted for public comment. A Final Report will be prepared following the closure of the public comment period.

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42 **2. Executive Summary**

43

44     ▪ TBC

45

## 45 3. Background, Process, and Next Steps

46

### 47 3.1 Background

48

49 ▪ On 25 September 2008, the GNSO Council adopted a motion requesting an issues report  
50 on registration abuse provisions in registry-registrar agreements. The issues report was  
51 submitted to the GNSO Council on 29 October 2008 and provides an overview of  
52 existing provisions in registry-registrar agreements relating to abuse and includes a  
53 number of recommended next steps, namely for the GNSO Council to:

#### 54 - **Review and Evaluate Findings**

55 A first step would be for the GNSO Council to review and evaluate these findings,  
56 taking into account that this report provides an overview of registration abuse  
57 provisions, but does not analyse how these provisions are implemented in practice  
58 and whether they are deemed effective in addressing registration abuse.

#### 59 - **Identify specific policy issues**

60 Following the review and evaluation of the findings, the GNSO Council would need  
61 to determine whether there are specific policy issues regarding registration abuse.

62 As part of this determination it would be helpful to define the specific type(s) of  
63 abuse of concern, especially distinguishing between registration abuse and other  
64 types of abuse if relevant.

#### 65 - **Need for further research**

66 As part of the previous two steps, ICANN Staff would recommend that the GNSO  
67 Council determines where further research may be needed – e.g. is lack of  
68 uniformity a substantial problem, how effective are current registration abuse  
69 provisions in addressing abuse in practice, is an initial review or analysis of the  
70 UDRP required?’

71 ▪ The GNSO Council voted on 18 December to form a drafting team to create a proposed  
72 charter for a working group charged with investigating the open issues identified in

73 Registration Abuse Policies report. The drafting team was formed and met for the first  
74 time on 9 January 2009. They finalized a charter (see Annex I), which was adopted by  
75 the GNSO Council on 19 February 2009, for a Registration Abuse Policies Working Group  
76 (RAPWG). The GNSO Council will not make a decision on whether or not to initiate a  
77 [Policy Development Process \(PDP\)](#) on registration abuse policies until the RAPWG has  
78 presented its findings.

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### 80 3.2 Process

- 81
- 82 ▪ The RAPWG started with discussing and developing a working definition of abuse, which  
83 has served as a basis to further explore the scope and definition of registration abuse.
- 84 ▪ The RAPWG has been researching and discussing what “registration abuse” is, including:  
85 a. How ‘registration’ is defined. This term was not explicitly defined, and is essential  
86 for understanding the “registration” versus “use” issues that the charter and Issues  
87 Report call attention to.  
88 b. Which “aspects of the subject of registration abuse are within ICANN’s mission to  
89 address and which are within the set of topics on which ICANN may establish  
90 policies that are binding on gTLD registry operators and ICANN-accredited  
91 registrars.” As part of the RAPWG research, a presentation was provided by ICANN  
92 staff about policy-making scope issues and past PDPs.
- 93 ▪ The RAPWG developed a list of potential abuses. The RAPWG discussed each of these  
94 proposed abuses, sometimes facilitated by the creation of sub-teams. The RAPWG  
95 developed a definition for each, considered whether they are abusive or not,  
96 determined if and how registration issues are implicated in them and whether  
97 regulation is within or outside of policy-making scope, and developed recommendations  
98 for further consideration. Further details can be found in the following chapter of this  
99 report.
- 100 ▪ [Several sub-teams were formed to specifically deep dive on abuse types and other RAP](#)  
101 [topics. Such sub-teams were: Cybersquatting, Uniformity of Contracts, Front-Running,](#)

102 | [etc. The Uniformity of Contracts sub-team was formed](#) in order to research whether  
103 | registration abuses are occurring that might be curtailed or better addressed if  
104 | consistent [policies / contract language](#) were established. The findings and  
105 | recommendations that resulted from this effort can be found [in the “uniformity of](#)  
106 | [Contracts” chapter](#).

### 3.3 Next Steps

108 | **3.3 Next Steps**

109 |

110 | ■ Even though the RAPWG is not a Policy Development Process (PDP) Working Group, in  
111 | the interest of transparency and participation it decided to follow the practice of PDP  
112 | Working Groups by producing an Initial Report for [community comment](#) and  
113 | consideration before finalizing the report and its recommendations for submission to  
114 | the GNSO Council. [The RAPWG will review the comments received and issue a Final](#)  
115 | [Report following the closing of the public comment period](#).

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## 116 4. Discussion of Charter and Scope Questions

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### 118 4.1 Abuse definition

119

120 The RAPWG developed a [consensus](#) working definition of abuse, which served as a basis to  
121 further explore the scope and definition of registration abuse. This working definition reads:

122 *Abuse is an action that:*

- 123 a. *Causes actual and substantial harm, or is a material predicate of such harm, and*
- 124 b. *Is illegal or illegitimate, or is otherwise considered contrary to the intention and design of a*  
125 *stated legitimate purpose, if such purpose is disclosed.*

126 **Note:**

- 127 \* The party or parties harmed, and the substance or severity of the abuse, should be  
128 identified and discussed in relation to a specific proposed abuse.
- 129 \* The term "harm" is not intended to shield a party from fair market competition.  
130
- 131 \* The above definition of abuse is indebted to the definition of "misuse" in the document  
132 "Working Definitions for Key Terms that May be Used in Future WHOIS Studies" prepared by  
133 the GNSO Drafting Team<sup>1</sup>.

134

### 135 4.2 Definitions of "registration" and "Use"

136

137 *Registration issues* are related to the core domain name-related activities performed by  
138 registrars and registries. These generally include but are not limited to:

- 139 • the allocation of registered names, and reserved names

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<sup>1</sup> 18 February 2009, at <sup>1</sup> 18 February 2009, at <http://gns0.icann.org/issues/whois/whois-working-definitions-study-terms-18feb09.pdf>

- 140 • maintenance of and access to accurate and up-to-date information concerning  
141 domain name registrations – i.e. WHOIS information.  
142 • the transfer, deletion, and reallocation of domain names.  
143 • functional and performance specifications for the provision of Registry Services.  
144 • The resolution of disputes regarding whether particular parties may register or  
145 maintain registration of particular domain names.  
146

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147 These are generally within the scope of GNSO policy-making. Many of the above are specifically  
148 listed in registration agreements as being subject to Consensus Policies, and the extant  
149 Consensus Policies have to do with these kinds of topics. Other potential outcomes of policy  
150 work are also possible, such as advice to ICANN on possible contract amendments, or the  
151 development of non-binding options such as codes of conduct or best practices.  
152

153 *Registration abuses* are therefore abuses associated with the above kinds of activities or topics.

154 ICANN has made consensus policies for several registration-related abuses. Examples<sup>2</sup> include:

- 155 • The AGP Limits Policy, instituted to curb abuse of the Add Grace Period—specifically the  
156 practice known as domain tasting.  
157 • The WHOIS Data Reminder Policy, instituted to remind registrants that provision of false  
158 WHOIS information is abusive and can be grounds for cancellation of their domain name  
159 registration.  
160 • The Inter-Registrar Transfer Policy, designed to guarantee that registrants can transfer  
161 names to the registrar of their choice, and to provide standardized requirements for the  
162 proper handling of transfer requests by registrars and registries.  
163

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164 Note that in this context, “registration” is not a synonym for the creation of a domain name. As  
165 per the lists above, registration abuses may occur at various points in a domain name’s lifecycle.  
166 The RAPWG therefore found that making distinctions between pre-domain-creation, domain-

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<sup>2</sup> <http://www.icann.org/en/general/consensus-policies.htm>



167 creation, and post-creation abuses is sometimes not applicable or useful when considering  
168 whether an abuse is in-scope for policy-making.

169  
170 In contrast, domain name *use issues* concern what a registrant *does* with his or her domain  
171 name after the domain is created—the purpose the registrant puts the domain to, and/or the  
172 services that the registrant operates on it. These use issues are often independent of or do not  
173 involve any registration issues.

174  
175 A domain name can have nearly infinite uses. It can be used for various technical services, such  
176 as e-mail, a Web site, file transfers, and can support subdomains. And it can support all kinds of  
177 practical uses or purposes – speech and expression, e-commerce, social networking, education,  
178 entertainment, and so on. Some uses of domain names are generally agreed to be abusive or  
179 even criminal—such as phishing and malware distribution, which perpetrate theft and fraud.

180 Other uses – such as adult pornography or political criticism – may be considered abusive or  
181 illegal in some jurisdictions but not generally. Domain names in sponsored TLDs may by design  
182 be restricted to certain uses or users.

183  
184 Are uses of domain names subject to GNSO policy-making? In the Issues Report that led to the  
185 RAPWG, ICANN’s General Counsel wrote: “Is the issue in scope of GNSO Policy Making? Section  
186 4.2.3 of the RAA between ICANN and accredited registrars *provides for the establishment of new*  
187 *and revised consensus policies concerning the registration of domain names, including abuse in*  
188 *the registration of names, but policies involving the use of a domain name (unrelated to its*  
189 *registration) are outside the scope of policies that ICANN could enforce on registries and/or*  
190 *registrars. The use of domain names may be taken into account when establishing or changing*  
191 *registration policies. Thus, potential changes to existing contractual provisions related to abuse*  
192 *in the registration of names would be within scope of GNSO policy making. Consideration of new*

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193 *policies related to the use of a domain name unrelated to its registration would not be within*  
194 *scope.”<sup>3,4</sup> [Emphasis added].*

195 [Other sections of the RAA and Registry Agreements may enable the GNSO to develop consensus](#)  
196 [policies on the topic of registration abuse. For example, Section 4.2.1 of the RAA \(as well as](#)  
197 [analogous sections of various registry agreements\) authorizes development of consensus](#)  
198 [policies on topics where the uniform or coordinated resolution is reasonably necessary to](#)  
199 [facilitate the interoperability, technical reliability, or operational stability of registrars, registries,](#)  
200 [the DNS, or the Internet. <sup>5</sup> The Registry Agreements generally limit Consensus Policy-making to  
201 \[core registration issues. <sup>6</sup>\]\(#\)](#)

202  
203 [Careful consideration of these issues and limiting of scope](#) seems to be consistent with ICANN’s  
204 mission. In its 2002 “Working Paper on ICANN Mission and Core Values,” the Committee on  
205 ICANN Evolution and Reform commented on the registration-versus-use issue. It said “Though  
206 some of ICANN’s registry-level gTLD policies are non-technical in nature, all relate directly to  
207 ICANN’s mission to coordinate the assignment of unique identifiers to ensure stable functioning  
208 of these systems. For example, the need for dispute resolution mechanisms in the gTLDs flows

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<sup>3</sup> "GNSO Issues Report on Registration Abuse Policies," 29 October 2008, pages 4-5.

<http://gnso.icann.org/issues/registration-abuse/gnso-issues-report-registration-abuse-policies-29oct08.pdf>

<sup>4</sup> See also <http://www.icann.org/en/registrars/ra-agreement-21may09-en.htm>, paragraph 4.2. The new Registrar Accreditation Agreement (RAA) notes that a Consensus Policy may be established regarding the “resolution of disputes concerning the registration of Registered Names (as opposed to the use of such domain names), including where the policies take into account use of the domain names.”

<sup>5</sup> Please [also](#) refer to the transcript of the 1 June 2009 RAP meeting, describing the presentation by Margie Milam on the scope of Consensus policies related to the topic of registration abuse, posted at <http://gnso.icann.org/calendar/index.html#june>

<sup>6</sup> [Principles for allocation of registered names, prohibitions on warehousing of or speculation in domain names, reserved names, maintenance of and access to accurate and up-to-date WHOIS information; procedures to avoid disruptions of domain name registration due to suspension or termination of operations by a registry operator or a registrar, and domain name disputes.](#)

209 from the problem of unique assignment: it is the assigned domain name string itself that is at  
210 issue.... [RAPWG note: i.e. a registration issue is involved.] By contrast, disputes over the content  
211 of an e-mail message, ftp file, or web page bear no inherent relation to the assigned domain  
212 name, and therefore fall outside the scope of ICANN's policy-making scope. ICANN therefore  
213 does not base its policies on the content served by websites, contained in e-mail messages, or  
214 otherwise accessed by domain names.”<sup>7</sup> ICANN’s Core Values<sup>8</sup> also state that ICANN should  
215 respect the innovation and flow of information made possible by the Internet by limiting  
216 ICANN's activities to those matters within ICANN's mission, and “To the extent feasible and  
217 appropriate, delegating coordination functions to or recognizing the policy role of other  
218 responsible entities that reflect the interests of affected parties”—perhaps such as courts, law  
219 enforcement, and contracted parties.

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221 Members of the RAPWG devoted significant discussion to the differences between registration  
222 issues and use issues and how they may intersect. The RAPWG also found that the distinctions  
223 can provide logical boundaries for policy-making. For example, some members noted that  
224 ICANN is not in a position to create policies affecting speech or what kinds of e-commerce  
225 should be allowed via domain names, because those typically are uses of domain names and do  
226 not implicate registration issues. Others pointed out the difficulties of addressing criminal  
227 domain name use via ICANN policy and contractual compliance. (This issue is explored in  
228 additional depth in this Report’s section about malicious uses of domain names.)

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230 Understanding and differentiating between domain registration abuses and domain use abuses  
231 is essential in the ICANN policy context. Failure to do so can lead to confusion:

- 232 • In 2008, the GNSO initiated a PDP to examine fast-flux hosting; the concern was that  
233 fast-flux was a criminal abuse that leveraged the DNS. The Fast-Flux Working Group  
234 (FFWG) learned that fast-flux is actually a technical practice with both benign and  
235 malicious applications, and that most criminal fast-flux hosting did not involve any

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<sup>7</sup> <http://www.icann.org/en/committees/evol-reform/working-paper-mission-06may02.htm>

<sup>8</sup> <http://www.icann.org/en/general/bylaws.htm#l>

236 changes of registration records.<sup>9</sup> The FFWG determined that fast-flux was not always an  
237 abuse, and it found that illicit fast-flux was a domain use issue and did not generally  
238 involve registration issues. Some constituencies and observers noted that fast-flux was  
239 therefore outside of policy-making scope.<sup>10</sup> In the end, the FFWG did not recommend  
240 any new policies or any changes to existing policies.

241 • The “GNSO Issues Report on Registration Abuse Policies” was an initial look into the  
242 topic of registration abuse, and did not consistently and thoroughly delineate or define  
243 the registration versus use issues. It sometimes used the word “abuse” to refer to both  
244 registration and use problems interchangeably. At one point the Issues Report noted  
245 that “various registry operators have differing policies with respect to abusive  
246 registrations” while pointing to registry policies that have nothing to do with registration  
247 abuses.<sup>11</sup>

249 The RAPWG therefore approached each proposed abuse on its list by determining what  
250 registration issue exists (if any), and considering if or how it has any inherent relation to a  
251 domain name or registration process. Other questions that should be considered in evaluating  
252 potential abuses and related policies are if and how any policy decision might impact the use of  
253 domain names, and establishing whether and to what extent the use of domain names affects  
254 the stability and security of the DNS itself, and if so how.

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<sup>9</sup> The DNS rotation took place at a level below the registries and registrars, and domain and nameserver records were usually not being updated on a rapid basis or at all.

<sup>10</sup> [https://st.icann.org/data/workspaces/pdp-wg-ff/attachments/fast\\_flux\\_pdp\\_wg:20090807173836-0-13665/original/Fast%20Flux%20Final%20Report%20-%206%20August%202009%20-%20FINAL.pdf](https://st.icann.org/data/workspaces/pdp-wg-ff/attachments/fast_flux_pdp_wg:20090807173836-0-13665/original/Fast%20Flux%20Final%20Report%20-%206%20August%202009%20-%20FINAL.pdf)

<sup>11</sup> See “GNSO Issues Report on Registration Abuse Policies” Section 1.5 and Annex B. The .INFO Anti-Abuse Policy is strictly aimed at malicious *uses* of domains names, such as malware and child pornography.

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## 255 5. Potential Registration Abuses Explored

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257 Early in the RAPWG’s existence, members were asked to propose potential abuses for  
258 examination. This was to fulfill the RAPWG Charter, which asked the RAPWG to create “an  
259 illustrative categorization of known abuses” and perform research “in order to understand what  
260 problems may exist in relation to registration abuse and their scope, and to fully appreciate the  
261 current practices of contracted parties.” In each case, the RAPWG considered the activity by  
262 applying the RAPWG’s definition of abuse, and by discussing what scope and policy issues  
263 existed, especially whether registration issues were fundamentally involved. In some cases the  
264 RAPWG confirmed that abuse exists, and in some cases found that abuse does not exist or is out  
265 of scope for policy-making.

266

### 267 5.1 Cybersquatting

268

#### 269 5.1.1 Issue / Definition

270 Cybersquatting is the deliberate and bad-faith registration or use of a name that is a registered  
271 brand or mark of an unrelated entity, for the purpose of profiting (typically, though not  
272 exclusively, through pay-per-click advertisements). Cybersquatting is recognized as registration  
273 abuse in the ICANN community, and the UDRP was originally created to address this abuse.

274 There was consensus in the RAPWG that provisions 4(a) and 4(b) of the UDRP are a sound  
275 definition of Cybersquatting.<sup>12</sup>

276

#### 277 5.1.2 Background

278 As part of the RAPWG's work to catalog various types of abuse, Cybersquatting was targeted as  
279 an area for further work. Developing a universal, global, and technically operable definition for  
280 Cybersquatting has been challenging, particularly as the RAPWG sought to balance the needs

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<sup>12</sup> <http://www.icann.org/en/udrp/udrp-policy-24oct99.htm>

281 and interests of all parties that can potentially be harmed by the practice. The RAPWG draws a  
282 distinction between competing but potentially legitimate claims and Cybersquatting, which  
283 denotes a bad-faith use of another party's mark. There was consensus in the RAPWG that  
284 provisions 4(a) and 4(b) of the UDRP are a sound definition of Cybersquatting. Several attempts  
285 to expand the definition beyond these by borrowing from other sources (e.g. the Anti-  
286 Cybersquatting Consumer Protection Act (ACPA)) have been challenging, and consensus on how  
287 to proceed ultimately broke down. There was minority interest in expanding the definition to  
288 include additional elements of bad faith intent, as denoted in the ACPA (i.e., 5(v) and 5(vi)). For  
289 further details, please see <https://st.icann.org/reg-abuse-wg/index.cgi?cybersquatting>.

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291 The UDRP was specifically designed to address Cybersquatting. It is used to settle disputes  
292 between parties who have competing trademark claims as well as other cases in which the  
293 respondent may have no trademark claim at all or is acting in bad faith. Only disputes in which  
294 “the domain name is identical or confusingly similar to a trademark or service mark in which the  
295 complainant has rights” are applicable for UDRP arbitration.<sup>13</sup> The ICANN Web site’s UDRP page  
296 also notes: “Disputes alleged to arise from abusive registrations of domain names (for example,  
297 cybersquatting) may be addressed by expedited administrative proceedings that the holder of  
298 trademark rights initiates by filing a [UDRP] complaint with an approved dispute-resolution  
299 service provider.”<sup>14</sup>

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301 Notwithstanding its shortcomings, the UDRP has generally been considered a success. It has  
302 been used to settle thousands of cases, and WIPO has claimed that the UDRP has been a  
303 deterrent to undesirable registration behavior.<sup>15</sup> Since it went into effect in 1999, there have  
304 also been complaints about the UDRP. Some of these present policy and process issues. These  
305 criticisms have included: the following:

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Mike O'Connor 22/1/10 11:57

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- 19/1/10 13:55

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<sup>13</sup> Uniform Domain Name Dispute Resolution Policy, <http://www.icann.org/en/udrp/udrp-policy-24oct99.htm>

<sup>14</sup> <http://www.icann.org/en/udrp/udrp.htm>

<sup>15</sup> [http://www.wipo.int/pressroom/en/html.jsp?file=/redocs/prdocs/en/2005/wipo\\_upd\\_2005\\_239.html](http://www.wipo.int/pressroom/en/html.jsp?file=/redocs/prdocs/en/2005/wipo_upd_2005_239.html)

- 306 • [Complainants can forum-shop](#) in attempts to find arbitrators more likely to rule in the  
307 complainant’s favor.
- 308 • Complainants have the ability to re-file a complaint for the same name against the same  
309 respondent – in effect re-trying the same case in hopes of achieving a different  
310 outcome.
- 311 • The UDRP requires the complainant prove that the domain name “has been registered  
312 and is being used in bad faith.” However, many UDRP cases have been decided without  
313 the domain names having ever been used. Observers have noted that the usage  
314 requirement has sometimes been ignored in the UDRP “case law” that has developed  
315 over the years.
- 316 • [The](#) UDRP is too expensive and too time-consuming for some brand owners, who wish  
317 to pursue large numbers of potentially infringing domain names.
- 318 • The UDRP procedures lack some safeguards that are generally available in conventional  
319 legal proceedings, such as appeals.
- 320 • In a possibly related issue, ICANN apparently does not enter into contracts with its  
321 Approved UDRP Providers.<sup>16</sup> This may present a number of issues. For example, in the  
322 absence of such contracts, it [is unclear whether](#) ICANN has [the ability](#) to review or  
323 assure general uniformity or [procedural](#) compliance.
- 324 • One UDRP service provider, the Czech Arbitration Court, recently proposed changing  
325 some of its own supplemental rules in order to create an “expedited UDRP.” Some  
326 community members asked whether the proposed scheme presented substantive issues  
327 that can and should only be dealt with in the main ICANN UDRP Rules.<sup>17</sup>

328  
329 [Some members of the RAPWG felt that the UDRP is a useful mechanism to counter some](#)  
330 [elements of cybersquatting, but were of the opinion that: "the scale of cybersquatting is](#)  
331 [overwhelming and the drain on cost and resources for brand-owners to respond in all instances](#)  
332 [by using only the UDRP as a remedy is prohibitive. In addition, there is insufficient up-front](#)

<sup>16</sup> <sup>16</sup> <http://forum.icann.org/lists/cac-prop-supp-rules/msg00004.html>

<sup>17</sup> <http://forum.icann.org/lists/cac-prop-supp-rules/index.html>

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Faisal Shah 24/1/10 12:39  
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333 [protection mechanisms to prevent registrants from initially registering infringing domains which](#)  
334 [are freely monetized from the date of registration, via PPC and other online advertising](#)  
335 [methods, thus earning revenue for the registrant. They can then simply wait until a UDRP action](#)  
336 [is commenced before they give up the domain, without penalty. The burden therefore rests](#)  
337 [with the trademark owner to monitor, investigate and pursue litigation in order to provide](#)  
338 [protection to Internet users. This burden often includes the registration and ongoing](#)  
339 [management of large domain name portfolios, consisting mainly of unwanted domains that](#)  
340 [benefit only the Registry, Registrar and ICANN parties. This approach is already a major concern](#)  
341 [for trademark owners, in terms of cost and resources, with the existing level of gTLDs and](#)  
342 [ccTLDs, let alone the anticipated growth of new gTLDs and IDNs."](#)  
343

344 [Other members disagreed with those points, expressing the following opinions:](#)

- 345 a) [The URDP is the long-standing mechanism for addressing cybersquatting. A better](#)  
346 [first step would be to establish if or where the UDRP is ineffective, and make policy](#)  
347 [decisions based on facts and data. While some claim that "the scale of](#)  
348 [cybersquatting is overwhelming," the scale issue was not been quantified in or for](#)  
349 [the RAPWG, and an adequate factual basis was not provided by the IRT.](#)
- 350 b) [Those proposed rights-protection mechanisms upend several long-established legal](#)  
351 [principles. One is that the registrant is the party responsible for ensuring he or she](#)  
352 [is not infringing upon the rights of others. Another is that rights holders have the](#)  
353 [responsibility for protecting their intellectual property, and that shifting](#)  
354 [responsibility, cost, or liability for such to ICANN-contracted parties is unfair.](#)
- 355 c) [It is inadvisable to begin considering the imposition of those evolving rights](#)  
356 [protection mechanisms in the existing TLDs, when they are so controversial over in](#)  
357 [the new TLD discussion. There are many legal, business, and speech issues involved.](#)  
358 [The effectiveness of those proposed mechanisms is hypothetical, it is not known](#)  
359 [what impacts or unintended consequences they may have, and it is unknown if they](#)  
360 [can deliver the cost and process benefits their advocates promised or asked for. It is](#)  
361 [unknown what consequences those mechanisms may have for speech and](#)  
362 [expression. Some parties have called for imposition of the trademark clearinghouse](#)



363 [RPM during ongoing registry operations, which might effectively stop real-time,](#)  
364 [first-come registrations. This would be a major change to the industry.](#)

365

### 366 5.1.3 Cybersquatting Recommendation

367

368 [Recommendation #1.](#)

369

370 [\[VERSION 19 Jan. by Martin Sutton:\] The RAPWG recommends the initiation of a Policy](#)  
371 [Development Process by requesting an Issues Report](#)[issues report to investigate the current](#)  
372 [state of the UDRP, and consider revisions to address cybersquatting if appropriate. This effort](#)  
373 [should consider:](#)

- 374 • [How the UDRP has addressed the problem of cybersquatting to date, and any](#)  
375 [insufficiencies/inequalities associated with where the process. UDRP may be insufficient](#)  
376 [to curb cybersquatting](#)
- 377 • [Whether the definition of cybersquatting inherent within the existing UDRP language](#)  
378 [needs to be reviewed or updated. ;](#)

379

380 [View B:](#)

381

382 [Recommendation #2:](#)

383

384 [View A: The RAPWGRAP WG further recommends the initiation of a Policy Development](#)  
385 [Process by requesting an Issues Report to investigate the appropriateness and effectiveness](#)  
386 [of how any Rights Protection Mechanisms that are developed elsewhere in the community](#)  
387 [\(e.g. the New new gTLD program\) can be applied to the problem of](#)  
388 [cybersquatting](#)[Cybersquatting in the current gTLD space.](#)

389

390 [View B: The initiation of such a process is premature; the effectiveness and consequences of](#)  
391 [RPMs proposed for the new TLDs is unknown. Discussion of Rights Protection Mechanisms](#)

392 [should continue via the New TLD program. Experience with them should be gained before](#)  
393 [considering their appropriate relation \(if any\) to the existing TLD space.](#)

394

## 395 **5.2 Front-Running**

396

### 397 **5.2.1 Issue / Definition**

398 Front-running is when a party obtains some form of insider information regarding an Internet  
399 user's preference for registering a domain name and uses this opportunity to pre-emptively  
400 register that domain name. In this scenario, "insider information" is information gathered from  
401 the monitoring of one or more attempts by an Internet user to check the availability of a domain  
402 name.

403

### 404 **5.2.2 Background**

405 The definition above is taken from the SSAC paper "SAC 024: Report on Domain Name Front  
406 Running."<sup>18</sup> Specifically, the RAPWG examined these documents:

- 407 1. SAC 022, <http://www.icann.org/en/committees/security/sac022.pdf>
- 408 2. SAC 024,  
409 [https://par.icann.org/files/paris/SSACReportonDomainNameFrontRunning\\_24Jun08.pdf](https://par.icann.org/files/paris/SSACReportonDomainNameFrontRunning_24Jun08.pdf)
- 410 3. Benjamin Edelman, [http://www.icann.org/en/compliance/edelman-frontrunning-study-](http://www.icann.org/en/compliance/edelman-frontrunning-study-16jun09-en.pdf)  
411 [16jun09-en.pdf](http://www.icann.org/en/compliance/edelman-frontrunning-study-16jun09-en.pdf)

412

413 The two reports by the SSAC contain a great deal of material. The RAPWG felt that a few key  
414 quotes for these documents are:

- 415 • "Checking the availability of a domain name can be a sensitive act which may disclose an  
416 interest in or a value ascribed to a domain name. SSAC suggests that any such domain  
417 name availability lookups should be performed with care. Our premise is that a  
418 registrant may ascribe a value to a domain name; that unintended or unauthorized

- 19/1/10 10:07

**Deleted:** <#>The RAP WG recognises that the UDRP is regarded a useful mechanism to counter some elements of cybersquatting, particularly where both parties can evidence prior rights and a judgement is required to resolve a complaint. However, the scale of cybersquatting is overwhelming and the drain on cost and resources for brand-owners to respond in all instances by using UDRP is prohibitive. Some of the key issues raised were: -

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Efforts at establishing Rights Protection Mechanisms elsewhere in the community (e.g., the New gTLD program) should be monitored for their applicability to the problem of Cybersquatting. -  
This issue, upon first inspection, seems to be relatively straightforward. It is only through discussion with diverse stakeholders do the complexities emerge. Therefore, we recommend that the RAPWG, and any subsequent PDP WGs, be wary of any proposed "silver bullet" solutions. -

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<sup>18</sup> <http://www.icann.org/en/committees/security/sac024.pdf>

419 disclosure, or disclosure of an availability check by a third party without notice may pose  
420 a security risk to the would-be registrant; and that availability checks may create  
421 opportunities for a party with access to availability check data to acquire a domain  
422 name at the expense of the party that performed an availability check, or to the benefit  
423 of the party that monitored the check." (SAC 022, page 2)

- 424 • "SSAC strongly contends that any agent who collects information about an Internet  
425 user's interest in a domain name and who discloses it in a public way violates a trust  
426 relationship. This violation is exacerbated when agents put themselves or third parties  
427 in an advantageous market position with respect to acquiring that domain name at the  
428 expense of its client." (SAC 024, page 12)
- 429 • "SSAC observes a deteriorating trust relationship between registrants and registrars and  
430 urge ICANN and the community to consider the implications of continued erosion and a  
431 loss of faith in the registration process." (SAC 024, page 12)

432

433 The RAPWG discussed issues such as theoretical vs. actual abuse; is domain speculation an  
434 abuse; expectations of trust; what is considered insider information; the interaction with the  
435 add-grace period and domain tasting; possible legitimate uses of pre-registration data; and, who  
436 is harmed by front-running. Commentary regarding these topics is summarized on the RAPWG  
437 wiki.<sup>19</sup> Highlights of the discussions included:

- 438 • One well-known case of front-running is described in SAC 024. Otherwise, the RAPWG  
439 was unable to reference any other confirmed cases.<sup>20</sup> [The WG members](#) therefore  
440 wondered whether the practice exists or is widespread enough to merit further  
441 investigation or concern.
- 442 • The RAPWG members generally considered front-running an abuse, referencing the  
443 SSAC's concerns about registrant expectations and breach of trust. A member also

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<sup>19</sup> [https://st.icann.org/reg-abuse-wg/index.cgi?domain\\_front\\_running](https://st.icann.org/reg-abuse-wg/index.cgi?domain_front_running)

<sup>20</sup> The Edelman study uncovered no additional evidence of the practice. The Edelman study's methodology has been called into question, and some members considered it inconclusive.

444 offered that in a first-come-first-served environment, efforts to gain advantage or even  
445 game those processes should be considered abuse.

446 • A member noted that the harm is to people who are new to domains and not educated  
447 about how ordering takes place.

448 • The issue may involve registrars or registries only indirectly. A threat may come from  
449 third parties using monitoring to examine traffic and then front-run domains, perhaps  
450 even using spyware or malware. In such cases, it is unknown whether a registrar or  
451 registry would even be able to detect or do something about front-running. Some  
452 registrars have reportedly implemented SSL-protected search pages to help guard  
453 against intercepted availability check traffic.

454 • Members raised some issues regarding the definition of "insider information." For  
455 example, what information can registries or registrars collect about their customers, and  
456 that some uses may not be inappropriate or harmful. One member stated that traffic  
457 data regarding unregistered names (e.g. NX data) is by definition not registration data,  
458 while another was of the opinion that such is data that can be used to decide to register  
459 domains and is therefore registration data or at worst "lack-of-registration data, which  
460 is merely the negative of registration data."

461 • The new Add Grace Period Limits Policy effectively killed domain tasting, and may have  
462 an impact on front running. To be a profitable practice, front-running might require the  
463 registration of a fair number of domain names, which might now be prohibitive under  
464 the AGP Limits Policy.

### 466 5.2.3 Recommendations

467  
468 It is unclear to what extent front-running happens, and the RAPWG does not recommend policy  
469 development at this time. The RAPWG suggests that the Council monitor the issue and consider  
470 next steps if conditions warrant.

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Deleted: <#>Better education of all parties involved in the domain name registration process (SAC 024 Recommendation #1, #2, #3, #4, #5). ..

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Deleted: <#>More study

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Deleted: <#>, with the goal of determining whether this abuse is actually occurring, or simply has the potential to occur.

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Deleted: <#>Better disclosure by registry operators as to their privacy policy and how they use information, including availability checks and DNS traffic for unregistered domain names (extending point above which applied only to registrars). ..

<#>Requiring registry operators to produce and publish lists of all registered domain names with expiry dates, lists of post expiration domain names (with expected deletion date, etc.), and daily diffs, so that availability checks can be performed locally by registrars, registrants, and 3rd parties, thereby enabling greater privacy. ..

<#>Prohibiting registrars and/or registry operators from using/disclosing availability checks (including DNS traffic to unregistered domains), and/or creating "Chinese Walls" between different TLDs managed by a registry operator. Alternatively, creating rules as to how those availability checks can be used (e.g. instead of being able to use/sell real-time results, one might permit 1 hour old results to be sold, to permit novel idea creators sufficient time to complete registrations within an hour). ..

473 | **5.3 Gripe Sites; Deceptive, and/or Offensive Domain Names**

474

475 | **5.3.1 Issue / Definition**

476 The issue is whether the registration these kinds of domain names are simply a form of  
477 cybersquatting or whether the registration of such domain names should be addressed as a  
478 separate form of registration abuse, and whether a consistent policy framework addressing this  
479 category can or should be applied across all ICANN-accredited registries and registrars.

- 480 • Gripe/Complaint Sites a.k.a. “Sucks Sites”: Web sites that complain about a company’s  
481 or entity’s products or services and uses a company’s trademark in the domain name  
482 (e.g. companysucks.com).
- 483 • Pornographic/Offensive Sites: Web sites that contain adult or pornographic content and  
484 uses a brand holder’s trademark in the domain name (e.g. brandporn.com).
- 485 • Offensive strings: Registration of stand-alone dirty words within a domain name (with or  
486 without brand names).
- 487 • Registration of deceptive domain names: Registration of domain names that direct  
488 unsuspecting consumers to obscenity or direct minors to harmful content—sometimes  
489 referred to as a form of “mousetrapping.”

490

491 | **5.3.2 Background**

492 The RAPWG discussed the issue of whether the registration of these types of domain names  
493 should be addressed as a unique category of registration, with discussions that centered on  
494 several different areas:

495

496 | i. Gripe/Complaint Websites:

497 Several members pointed to the freedom of speech laws (not only in the U.S. but  
498 internationally) that govern gripe and complaint sites using a company’s trademark in the  
499 domain name, and indicated that registration of these names should not be considered as a  
500 separate abuse category but rather should be considered as potential cases of cybersquatting, if  
501 anything. Other members also discussed the intrinsic value of gripe and complaint Web sites to

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502 companies and organizations that are seeking to understand the problems that customers may  
503 have with respect to their products or services. The WG noted that aggrieved parties could turn  
504 to the courts and the UDRP to remedy any claims they may have with respect to the use of  
505 trademarks in a domain name. There was some discussion that decisions have not been  
506 consistent with respect to gripe and complaint sites, although it is generally understood that  
507 that truthful statements in gripe and complaint sites are protected free speech. Examples  
508 include:

- 509 • [http://decisions.courts.state.ny.us/fcas/fcas\\_docs/2005oct/30060065920045sciv.pdf](http://decisions.courts.state.ny.us/fcas/fcas_docs/2005oct/30060065920045sciv.pdf). A  
510 U.S. court ruled that a disgruntled customer of an insurance firm cannot be sued for  
511 defamation over statements he made on his “gripe site” because those statements are  
512 protected free speech.
- 513 • [http://www.acluva.org/docket/pleadings/lamparello\\_opinion.pdf](http://www.acluva.org/docket/pleadings/lamparello_opinion.pdf) - A U.S. Appeals Court  
514 found that a Web site using the domain name fallwell.com, set up to criticize evangelist  
515 Jerry Falwell, did not violate trademark laws. There was no likelihood of confusion, ruled  
516 the Court.
- 517 • <http://www.wipo.int/amc/en/domains/decisions/html/2007/d2007-0731.html> - A figure  
518 behind controversial business schemes failed in his bid to gain control of the .COM  
519 Internet address consisting of his name. A site that criticizes his activities was allowed to  
520 keep the name.
- 521 • <http://www.wipo.int/amc/en/domains/decisions/html/2005/d2005-0168.html> - The  
522 domain name AirFranceSucks.com was transferred to Air France. But the airline's victory  
523 at arbitration was not without controversy: panelists disagreed about what the word  
524 'sucks' really means to Internet users.
- 525 • <http://www.wipo.int/amc/en/domains/decisions/html/2009/d2009-1077.html>- The  
526 Panel noted that that the domain name Radioshacksucks.com was not redirected to a  
527 “gripe” Web site, but was pointing to a Web site with various pay-per-click links mainly  
528 aimed at directing visitors to competing third party commercial Web sites. The Panel  
529 found for the Complainant and transferred the name.

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530 • At least one article has criticized some of the current UDRP decisions in this area. That  
531 article can be found at: [http://domainnamewire.com/2009/12/04/freedom-of-speech-  
533 a-concept-not-limited-to-yankees/](http://domainnamewire.com/2009/12/04/freedom-of-speech-<br/>532 a-concept-not-limited-to-yankees/)

534 ii. Pornographic Websites/Registration of Offensive Strings:

535 There appears to be some distinction however between complaint and gripe sites and the  
536 registration of offensive strings, and whether these should be treated differently. The  
537 registration of complaint site names (a.k.a. “sucks sites”) appears to have a direct impact on  
538 organizations and companies, while the registration of offensive words have a more direct  
539 impact on consumers. A domain name that contains a brand and an offensive word and also  
540 points to a Web site that contains pornographic content can tarnish the reputation and the  
541 image of a company’s brand. In addition to court action, the UDRP is a tool that companies and  
542 organizations can turn to turn to remediate this problem because of the presence of the brand  
543 name. **A recent article in Computerworld magazine (Domain-name wars-Rise of the  
544 Cybersquatters) discusses the increase in Cybersquatting abuse in general. The article points to  
545 the example of the Web site FreeLegoPorn.com that began publishing pornographic images  
546 created with Lego toys. The trademark owner Lego Juris AS filed a UDRP complaint with the  
547 World Intellectual Property Organization’s (WIPO) Arbitration and Mediation Center, which  
548 ultimately ruled in its favor. That article can be found at:  
549 [551  
552 However, a domain name that is registered for the sole purpose of misleading a consumer can  
553 be extremely harmful. For example, the U.S. government enacted the Truth in Domain Names  
554 Act \(18 USC Sec. 2252B\), which makes it a crime to knowingly register a domain name with the  
555 intent to mislead a person into viewing obscene material. It also makes it a crime to register a  
556 domain name with the intent to deceive a minor into viewing harmful material. These domain  
557 names generally encompass typos \(but not always\) of recognizable names and trademarks as a  
558 means of confusing people into visiting objectionable Web sites. Moreover, a number of ccTLDs  
559 \[maintain policies governing\]\(#\) the registration of \[objectionable\]\(#\) words, with at least one ccTLD](http://www.computerworld.com/s/article/print/9134605/Domain_name_wars_Rise_of_the_cy<br/>550 bersquatters?taxonomyName=Networking+and+Internet&taxonomyId=16</a></b></p></div><div data-bbox=)**

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**Deleted:** A recent article (part of which is set forth below) discussed this issue and the increase in cybersquatting abuse in general: “(Computerworld)

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**Deleted:** For example, when the Web site FreeLegoPorn.com began publishing pornographic images created with Lego toys, trademark owner Lego Juris AS filed a UDRP complaint with the World Intellectual Property Organization’s (WIPO) Arbitration and Mediation Center, which ruled in its favor. -

Mike O’Connor 22/1/10 11:50  
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560 registry (.US) apparently preventing the registration of the “seven dirty words” as per a  
561 government policy. (The United States Federal Trade Commission also regulates the use of  
562 these seven words on broadcast television and radio stations in the U.S.)

564 The RAPWG discussed some of the practical business challenges that could be presented for a  
565 registry to adopt a policy that blacklists all names that also contain some form of prohibited  
566 word. For example, the RAPWG noted the difficulty in (i) trying to monitor the use of expletives  
567 in different languages, (ii) continuing to adapt to the evolution of obscenities in the vernacular  
568 of a specific language, and (iii) addressing “gaming” of the system in this area.

570 RAPWG members also pointed out that ccTLDs and gTLDs are not in equivalent positions in  
571 these matters. ccTLD operators are associated with certain countries, and are usually obligated  
572 to adhere to their governments’ directives and laws, which reflect varying local standards of  
573 decency. In contrast, gTLDs are by definition global, and it would be difficult to determine  
574 baselines and balances for issues involving free speech and morals. Members commented that  
575 ICANN is not in a good position to enforce morals in relation to domain names. The issue was  
576 effectively settled in .COM/.NET/.ORG in 1999.

578 The RAPWG members generally agreed that gripe site and offensive domain names that use a  
579 brand owner’s trademark are adequately addressed in the context of Cybersquatting for  
580 purposes of establishing consistent registration abuse policies in this area.

### 582 5.3.3 Recommendations

#### 584 Recommendation 1:

- 586 **View A:** The URDP should be revisited to determine what substantive policy changes, if  
587 any, would be necessary to address any inconsistencies relating to decisions on “gripe”  
588 names and to provide for fast track substantive and procedural mechanisms in the event

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**Deleted:** dirty  
- 19/1/10 14:09  
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- 19/1/10 14:10  
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**Deleted:** That gripe site and offensive site domain names should be addressed in the context of cybersquatting for purposes of establishing consistent registration abuse policies in this area, and .  
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589 of the registration of deceptive domain names that mislead adults or children to  
590 objectionable sites.

591  
592 [View B: Make no recommendation. There should not be a PDP to examine the UDRP for carve-](#)  
593 [outs or exceptions for “gripe” sites, or for fast track substantive and procedural mechanisms to](#)  
594 [address the registration of deceptive domain names that mislead adults or children to](#)  
595 [objectionable sites. Gripe site and offensive domain names are adequately addressed in the](#)  
596 [context of cybersquatting and the UDRP for purposes of establishing consistent registration](#)  
597 [abuse policies in this area. Creating special procedures for special classes of domains may](#)  
598 [present problems.](#)

- 599
- 600 ▪ [Recommendation 2](#): Registries should also consider developing internal best practice
  - 601 policies that would restrict the registration of offensive strings in order to mitigate the
  - 602 potential harm to consumers and children.

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## 604 5.4 Fake Renewal Notices

605

### 606 5.4.1 Issue / Definition

607 Fake renewal notices are [misleading](#) correspondence sent to registrants from an individual or  
608 organization claiming to be or to represent the current registrar. These are sent for a variety of  
609 deceptive purposes. The desired action as a result of the deceptive notification is:

- 610 ▪ Pay an unnecessary fee (fraud)
- 611 ▪ Get a registrant to switch registrars unnecessarily (“slamming”, [or illegitimate market-](#)  
612 [based switching](#))
- 613 ▪ Reveal credentials or provide authorization codes to facilitate theft of the domain

614

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### 615 5.4.2 Background

616 What is the ICANN issue?

- 617 • [Transfer issue \(deceptive/fraudulent practices on the part of a registrar/reseller\)](#)

- 618 ○ [Pretending to be current registrar](#)
- 619 ○ [Creating a fraudulent transfer event](#)
- 620 • [Domain hijacking issue \(in the case of a non-registrar reseller\)](#)
- 621 • [WHOIS abuse issue \(obtaining contact information through questionable means or in violation of RAA section 3.3.6.4\)](#)

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623  
624 [What is ICANN's role?](#)

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- 625 • [If the perpetrator is a registrar or reseller, ICANN policy applies through the RAA.](#)
- 626 • [If the perpetrator is not a registrar/reseller, ICANN's role is still applies, but it falls into the realm of IRTP, hijacking or WHOIS abuse.](#)

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628  
629 For a number of case studies, please see [\[complete with link to wiki\]](#).

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### 631 5.4.3 Recommendations

- 632 • [Refer to RAA working group \(for additional enforcement tools\)](#)
- 633 • [Refer to WHOIS working groups \(to clarify the sanctions for unauthorized use\)](#)
- 634 • [Refer to IRTP working group \(for inclusion in the "urgent return" discussion\)](#)
- 635 • [Refer to PEDNR working group \(for inclusion in the hijacking/return topic\)](#)
- 636 [Recommended -- Keep in proposed RAP PDP \(reducing the risk of overlaps or gaps in the review/analysis\)](#)
- 637 [Recommended -- Refer to ICANN Contract Compliance for possible enforcement action.](#)

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**Deleted:** <#>Refer to RAA working group (for additional enforcement tools)?  
Refer to WHOIS working groups (to clarify the sanctions for unauthorized use)?  
Refer to IRTP working group (for inclusion in the "urgent return" discussion)?  
Refer to PEDNR working group (for inclusion in the hijacking/return topic)?  
Recommended -- Keep in proposed RAP PDP (reducing the risk of overlaps or gaps in the review/analysis)?  
Recommended -- Refer to ICANN Contract Compliance for possible enforcement action

## 640 5.5 Name Spinning

### 642 5.5.1 Issue / Definition

643 This is the practice of using automated tools used to create [permutations of a given domain name string](#). Registrars often use such tools to suggest alternate strings to potential registrants  
644 when the string [that the person queries](#) they is not available for registration.

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648 **5.5.2 Background**

- 649     ▪ The main concern is that such tools may produce results that may infringe upon
- 650       trademarked strings.
- 651     ▪ There was agreement in the RAPWG that that name spinning is a tool that can be used
- 652       by people for both legitimate and illegitimate purposes. As such, name-spinning is not
- 653       in and of itself abusive.
- 654     ▪ As discussed in some other areas, a determination of whether or not a particular use of
- 655       such software is dependent on the user's intent.
- 656     ▪ Until a domain name is actually registered, the trademark infringement (and therefore
- 657       any registration abuse) is purely hypothetical, and therefore not a subject for policy-
- 658       making.
- 659     ▪ As discussed in some other areas, a determination of whether or not a particular use of
- 660       such software is dependent on the user's intent.
- 661     ▪ Domain name registrations that infringe on trademarks may be addressed via the UDRP.

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663 **5.5.3 Recommendations**

664 None.

666 **5.6 Pay-per-Click**

668 **5.6.1 Issue / Definition**

670 Pay per click (PPC) is an Internet advertising model used on Web sites, in which the advertiser,

671 pays the host only when their ad is clicked. The concern raised was use of a trademark in a

672 domain name to draw traffic to a site containing paid placement advertising.

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674 **5.6.2 Background**

675 The RAPWG had consensus that pay-per-click advertising is not in and of itself a registration

676 abuse, and that bad-faith use of trademarks in domain names is a Cybersquatting issue that can

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677 | [be addressed](#) under the UDRP. [The abuse of a PPC system for illicit gain is most appropriately](#)  
678 | [addressed by the operator of the PPC advertising network \(e.g. Google AdSense\).](#)

679

### 680 **5.6.3 Recommendations**

681 None.

682

## 683 **5.7 Traffic Diversion**

684

### 685 **5.7.1 Issue / Definition**

686 Use of brand names in HTML visible text, hidden text, meta tags, or Web page title to  
687 manipulate search engine rankings and divert traffic.

688

### 689 **5.7.2 Background**

690 The RAPWG had consensus that this is a pure Web site use issue with no inherent relation to a  
691 domain name or registration process, and is therefore out of GNSO policy-making scope.

692

### 693 **5.7.3 Recommendations**

694 None.

695

## 696 **5.8 False Affiliation**

697

### 698 **5.8.1 Issue / Definition**

699 Web site that is falsely purporting to be an affiliate of a brand owner.

700

### 701 **5.8.2 Background**

702 The RAPWG had consensus that this is a pure Web site use issue with no inherent relation to a  
703 domain name or registration process, and is therefore out of GNSO policy-making scope.

704

705 **5.8.3 Recommendations**

706 None.

707

708 **5.9 Domain Kiting / Tasting**

709

710 **5.9.1 Issue / Definition**

711 Registrants may abuse the Add Grace Period for continual registration, deletion, and re-  
712 registration of the same names in order to avoid paying the registration fees. This practice is  
713 sometimes referred to as “domain kiting.” This term has been mistakenly used as being  
714 synonymous with domain tasting, but it refers to multiple and often consecutive tasting of the  
715 same domain name. ICANN staff has received anecdotal reports that this type of activity is  
716 occurring, but does not currently have data to demonstrate definitively that domain kiting  
717 occurs or to what extent.

718

719 The anecdotal reports received by the ICANN staff would indicate that:

- 720 a. Very few registrants engage in kiting;
- 721 b. Those registrars who facilitate kiting are discovered and warned by the registry to cease the  
722 behaviour;
- 723 c. Kiting practices cannot enable a registrant to “keep” a single domain name. Any name is  
724 available to be taken in the drop pool by another registrant. The activity is only practicable if  
725 attempting to maintain a number of names – some would be lost at each drop.

726

727 **5.9.2 Background**

728 Bob Parsons appears to have introduced the term “domain kiting” in a blog post in 2006. In the  
729 post he chose to call the activity “kiting”, but his definition described what later came to be  
730 termed “domain tasting” (as [The Public Interest Registry](#) did in [its](#) letter to Steve Crocker on  
731 March [26, 2006](#)). This confusion of terms carried forward for some time as can be seen in a  
732 MessageLabs report published several months later.

733

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734 Eventually, the current definition of domain kiting (the serial re-registration of a domain to get a  
735 domain for free) solidified, but it is not clear whether it was based on any actual activity or  
736 whether it was simply a matter of repurposing an already confused definition to cover a possible  
737 abuse scenario.

738

739 ICANN staff looked into domain kiting (while developing the 2007 issue report on domain  
740 tasting) and could not find anything except anecdotal evidence of the activity. [A RAPWG](#)

741 [member performed an analysis of the .INFO registry in 2008 and again in December 2009, and](#)  
742 [did not find any examples of kiting.](#) <sup>21</sup>

743

### 744 5.9.3 Recommendations

- 745 • [Refine the definitions of tasting and kiting based on the discussion and defined boundary](#)  
746 [conditions above.](#)
- 747 • [Incorporate these definitions in any review or refinement of excess-delete policy and data](#)  
748 [collection or data reporting efforts.](#)
- 749 • [Alert ICANN staff to the possibility of kiting as a possible abuse of the add-grace period.](#)
- 750 • [Check with other working groups \(e.g. domain tasting\) to determine if follow-on studies](#)  
751 [have useful definitions and data.](#)
- 752 • [Conduct broader research \(at the registry level\) to determine to what extent domain kiting](#)  
753 [is a problem.](#)

754

755

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<sup>21</sup> <http://forum.icann.org/lists/gnso-rap-dt/msg00425.html>

## 755 6. Malicious Use of Domain Names

756 The WG discussed how these problems relate to the scope of the Working Group’s activities as  
757 well as GNSO policy-making. In general, the RAPWG found that malicious uses of domain names  
758 have limited [but notable](#) intersections with registration issues.

759  
760 The RAPWG acknowledges that e-crime is an important issue of the ICANN community. The  
761 Internet community frequently voices concern to ICANN about malicious conduct and, in  
762 particular, the extent to which [criminals](#) take advantage of domain registration and name  
763 resolution services. Various parties—including companies, consumers, governments, and law  
764 enforcement—are asking ICANN and its contracted parties to monitor malicious conduct and,  
765 when appropriate, take reasonable steps to detect, block, and mitigate such conduct. The  
766 question is what ICANN can reasonably do within its mission and policy-making boundaries.

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### 768 6.1 Issue / Definition

769  
770 The RAPWG was asked by the GNSO Council to examine issues surrounding illicit uses of domain  
771 names, an outgrowth of learning done about that topic in the Fast-Flux Working Group (FFWG).  
772 Specifically, the GNSO Council resolved:

- 773 • “The Registration Abuse Policy Working Group (RAPWG) should examine whether  
774 existing policy may empower Registries and Registrars, including consideration for  
775 adequate indemnification, to mitigate illicit uses of Fast Flux,” and
- 776 • “To encourage ongoing discussions within the community regarding the development of  
777 best practices and / or Internet industry solutions to identify and mitigate the illicit uses  
778 of Fast Flux.”<sup>22</sup>

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<sup>22</sup> <http://gns0.icann.org/meetings/minutes-03sep09.htm>

780 Malicious or illicit behavior may be mitigated by stopping the domain name from resolving. This  
781 can be accomplished by the sponsoring registrar or registry by: applying an EPP Hold status; by  
782 removing or changing the nameservers delegated to the domain; or by deleting the domain  
783 name. Some malicious behaviors may be stopped by the hosting provider, and that may be the  
784 most appropriate action depending upon the specific case. (For example, hosting providers can  
785 take down individual [phishing](#) pages while the [rest of the](#) Web site continues to resolve.) But in  
786 the ICANN context, stopping resolution of the domain is the relevant issue, since that is what  
787 registrars and registries have the technical ability to make happen.

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788  
789 This issue is common to many types of abusive or malicious behavior – not only illicit fast-flux,  
790 but also spamming, malware distribution, online child pornography, phishing, botnet command-  
791 and-control, 419 scams, and others. [Some](#) specifics related to [some common](#) malicious abuses  
792 are noted below.

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793  
794 [The RAPWG also discussed how the basic accessibility of WHOIS, the accuracy of contact data,](#)  
795 [and the use of proxy contact services are registration issues related to the malicious use of](#)  
796 [domain names.](#)

## 798 6.2 Background

799  
800 ICANN possesses a limited technical coordination function for the DNS. The Internet is a huge  
801 and sprawling environment that crosses international borders. It is decentralized by design, and  
802 involves millions of parties all exercising ownership of or control over various assets and  
803 infrastructure. These parties include network and telecom operators, ISPs, RIRs, registrants,  
804 registrars, registry operators, corporations and organizations, governments, the root operators,  
805 and more. The Internet and its users also depend upon hardware and software vendors, such as  
806 the creators of operating systems and Web browsers. All of these parties are vulnerable to and  
807 are [often](#) leveraged by criminals. As a result, no one party -- and no one type of entity -- has the  
808 power to solve the problem of e-crime alone. Indeed, security experts agree that e-crime cannot

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809 be solved – it can only be fought, and hopefully contained, just like offline crime. In the end, all  
810 responsible parties have a role to play. Collaboration, data sharing, and education are effective  
811 and important tools for dealing with Internet security problems.

812

813 Law enforcement becomes involved in only a tiny percentage of e-crime incidents, due to the  
814 limited resources available, the large number of incidents, and the difficulties of investigating  
815 and prosecuting across national [borders and](#) jurisdictions. Instead, the great bulk of abusive or  
816 criminal behavior is dealt with via terms of service and contractual rights. The standard  
817 mitigation model on the Internet is that malicious behavior is reported to the service provider(s)  
818 who may have the right and ability to do something about it. Malicious domain name use is  
819 reported to the relevant hosting provider and/or to the sponsoring registrar (and occasionally to  
820 the registry operator). The registrar is the ICANN-related party with the direct relationship  
821 with—and a direct contract with—the registrant. The registrar (and/or registry) may determine  
822 if the use violates its [legal](#) terms of service, and decides whether or not to take any action.

823

824 Registrars always include language in their registrar-registrant contracts that allows the registrar  
825 to suspend or cancel a domain name. The language and terms vary among registrars, and the  
826 RAPWG examined this in its explorations of contract uniformity. Generally, registrars can act if  
827 the registrant violates the registrar’s terms of service, or violates ICANN policy, or if illegal  
828 activity is involved, or if payment fails. Some registrar-registrant agreements are broader and  
829 allow the registrar to suspend a domain at any time for any reason, or for no reason. It appears  
830 that registrars are empowered to mitigate abusive uses of domains if they so choose, and  
831 indeed registrars use that freedom to suspend gTLD domains as a matter of daily business.

832

833 Some registrars may have terms that address specific domain name uses or abuses. For  
834 example, the RAPWG saw how GoDaddy’s Universal Terms of Service contains a fairly unique  
835 prohibition against use of domain names for “activities associated with the sale or distribution  
836 of prescription medication without a valid prescription.”<sup>23</sup> Some RAPWG members commented

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<sup>23</sup> <http://www.godaddy.com/gdshop/agreements.asp>

837 that such contractual variances are a way that registrars differentiate themselves in the market,  
838 and they can help registrars adhere to the laws of the jurisdictions in which they are  
839 incorporated or operate.

840

841 Some gTLD and ccTLD registry operators also have anti-abuse policies or provisions. Neustar's  
842 .BIZ contract with ICANN require that "The registered domain name will be used primarily for  
843 bona fide business or commercial purposes," and Neustar has relied on that requirement to  
844 suspended domains being used for phishing and malware distribution. Anti-abuse policies have  
845 also been instituted at the initiative of registry operators. For example, both The Public Interest  
846 Registry (.ORG) and Afilias (.INFO) instituted policies under their existing rights in their ICANN-  
847 registry and RRA contracts.<sup>24, 25</sup> The resulting anti-abuse policies include lists of prohibited  
848 abuses and reiterate the registry's right to suspend domain names. To create these anti-abuse  
849 policies, the registry operators relied upon contract provisions that allow the registry operator  
850 to "establish operational standards, policies, procedures, and practices for the Registry TLD", in  
851 a non-arbitrary manner and applicable to all registrars, and consistent with ICANN's standards,  
852 policies, procedures, and practices and the registry's Agreement with ICANN. Most ICANN-  
853 registry contracts contain provisions such as the ones relied upon by the .INFO and .ORG  
854 registries.

855

856 So, it appears that all registrars and most if not all registries are already empowered to develop  
857 anti-abuse policies and mitigate malicious uses if they wish to do so. In addition, they may use  
858 the Expedited Registry Security Request (ERSR, discussed below) to address threats to the DNS  
859 or their TLDs.

860

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<sup>24</sup> See: [http://www.pir.org/index.php?db=content/Website&tbl=About\\_Us&id=14](http://www.pir.org/index.php?db=content/Website&tbl=About_Us&id=14) and section 3.5.2 of the .ORG Registry-Registrar Agreement (RRA) at <http://www.icann.org/en/tlds/agreements/org/appendix-08-08dec06.htm>

<sup>25</sup> See [http://www.info.info/info/abusive\\_use\\_policy](http://www.info.info/info/abusive_use_policy) and section 3.5.2 of the .INFO Registry-Registrar Agreement ("RRA") at <http://www.icann.org/en/tlds/agreements/info/appendix-08-08dec06.htm>

861 [Some malicious uses of domain names involve legitimate domain name registrations that are](#)  
862 [compromised or infected by criminals and then used to perpetrate crimes such as phishing and](#)  
863 [malware. The RAPWG notes that any policy or recommendations must not adversely impact](#)  
864 [innocent parties, including the registrant and the registrar.](#)

865  
866 [RAPWG members also noted that malicious use of domain names varies significantly by TLD, and](#)  
867 [some gTLDs have low-to-nonexistent problems. Many factors might explain this, including:](#)  
868 [eligibility or locus requirements; general availability; price; the registrars the TLD is available](#)  
869 [through and whether any of those registrars maintains less-than adequate defenses or response](#)  
870 [capabilities; and the general whims of e-criminals. This raises the question of whether “one-](#)  
871 [size-fits-all” policies are relevant or needed. A WG member suggested that verification of users](#)  
872 [might be a potential approach to consider suitable for policy development, while others felt that](#)  
873 [required pre-screening of registrants raises many operational and economic issues.](#)

874  
875 [It was pointed out that as a business practice, some registrars suspend or delete domain](#)  
876 [registrations that have not been used for phishing, malware, etc. when they discover that the](#)  
877 [registrant is using at least some of their domains for malicious purposes. In these cases, the](#)  
878 [registrant has broken the terms of service agreement.](#)

879  
880 [It was suggested that injecting uniform requirements can sometimes be counterproductive – it](#)  
881 [can inject limitations into a situation where flexibility is often required, and might tie the hands](#)  
882 [of registries and registrars by reducing or limiting their ability to effectively respond. It was](#)  
883 [suggested that best practices or minimum standards could be explored. The importance of due](#)  
884 [process was also noted.](#)

### 885 886 **6.3 Intent, Risk, and Indemnification**

887  
888 The decision to suspend a domain name is up to the discretion of the registrar or registry  
889 operator, [as per their terms of service](#). Suspending domain names involves risk. Registrars and  
890 registry operators especially wish to avoid suspending the domain names of innocent parties (a

891 “false-positive”). A mistake can take an innocent registrant’s Web site and e-mail offline and  
892 potentially cause significant economic damage and other problems for the registrant. In turn,  
893 the registrar or registry operator may face legal action, and may further face customer service  
894 and public relations problems.

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895  
896 The RAPWG’s members also discussed the issue of registration intent. It was agreed that  
897 assessing what a domain name will be used for at the time of its registration requires  
898 speculation about future intent, which can never be accurate 100% of the time. Some members  
899 suggested that if one was able to determine at the time of registration that a domain name will  
900 be used for an abusive activity, it might then be considered registration abuse. Some stated that  
901 it is not possible to reliably determine at the time of registration whether a domain will be used  
902 for phishing, spam or malware. Members provided examples of when it has been possible to  
903 predict intent to a high degree of confidence, such as in certain cases of ongoing criminal  
904 behavior. Such cases seem somewhat rare, the particulars can vary greatly between cases and  
905 over time, and they usually involve small numbers of gTLD domains – perhaps dozen to  
906 hundreds over time.<sup>26</sup> So for these reasons, even if such cases were determined to be  
907 registration abuse, there were doubts that they would be good candidates for ICANN policy-  
908 making.

909  
910 Diligent registrars and registries have procedures for investigating abuse claims. These involve  
911 performing diligence and documenting problems as a way to protect registrants and minimize  
912 false-positives, to avoid risk, or to balance risk with the benefits of stopping malicious behavior.  
913 Some registrars and registries may avoid risk by declining to suspend domains at all, or only in  
914 the most pressing circumstances. Some may see domain name use as an issue they should not  
915 make judgments about at all. As far as is known, there are no registrars or registry operators  
916 that trust heuristics or abuse blacklists in order to automatically suspend abusive domain

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<sup>26</sup> An example are the domains registered by the “Rock Phish” and “Avalanche” phishing operations. These gTLD and ccTLD domains were registered regularly, in batches, and contained characteristic string patterns. The case of Conficker was unusual in that it involved thousands of *unregistered* gTLD domain strings over time; see the commentary of Conficker and the Expedited Registry Security Request Process (ERSR) elsewhere in this paper.

917 names. Apparently all require the decisions to be made by an authorized person. Often this  
918 function resides with an attorney, a compliance officer, or a specially trained analyst.

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919  
920 WHOIS data is an integral part of the investigation process used by registrars, registry operators,  
921 law enforcement, and many other parties affected by malicious use of domains. The RAPWG  
922 discussed how the basic accessibility of WHOIS, the accuracy of contact data, and the use of  
923 proxy contact services are registration issues related to the malicious use of domain names.  
924 Accessibility of WHOIS data is discussed elsewhere in this paper, and upcoming GNSO studies  
925 will investigate how the contact accuracy and proxy issues are related to e-crime.  
926

927 The Fast-Flux Working Group also discussed the issues of false-positives and intent. The FFWG  
928 examined case studies that show that fast-flux detection systems create false-positives, and that  
929 it is not always possible to determine the intent that some fast-flux domains are being used for.  
930 There was discussion of how detection systems would need to yield an “acceptably low” level of  
931 false-positives, but no agreement about what that level would be. Also, “In order to constrain  
932 the working definition of fast flux to lie within the scope of ICANN to address, the FFWG also  
933 tentatively agreed to limit the definition to the operation of the DNS and its registration system,  
934 specifically excluding the question of what constitutes criminal intent.”<sup>27</sup>  
935

936 Along with the provisions that allow them to suspend domains names, registrar and registry  
937 contracts include indemnification language. Current ICANN-registry and registry-registrar  
938 contracts—and virtually all registrar-registrant agreements—obligate registrants to abide by  
939 ICANN, registry, and registrar policies, and require registrants to indemnify and hold harmless  
940 registrars and registries for enforcing those policies.<sup>28</sup> This language is designed to protect the  
941 registrar or registry from claims and damages brought by the registrant.

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<sup>27</sup> “Final Report of the GNSO Fast Flux Hosting Working Group”, page 26:

<http://gns0.icann.org/issues/fast-flux-hosting/fast-flux-final-report-06aug09-en.pdf>

<sup>28</sup> For example, the .COM Registry-Registrar contract that is part of VeriSign’s contract with ICANN says:

“2.14. Indemnification Required of Registered Name Holders. In its registration agreement with each

942

943 An issue raised in the RAPWG is that indemnification language may not always an effective or  
944 practical protection. Despite indemnification language, gTLD registries and registrars have been  
945 sued by registrants for enforcing their terms of service.<sup>29</sup> <sup>30</sup> <sup>31</sup> Such legal proceedings can have

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Registered Name Holder, Registrar shall require each Registered Name holder to indemnify, defend and hold harmless VNDS, and its directors, officers, employees, agents, and affiliates from and against any and all claims, damages, liabilities, costs and expenses, including reasonable legal fees and expenses arising out of or relating to the Registered Name holder's domain name registration.”

<http://www.icann.org/en/tlds/agreements/verisign/appendix-08-01oct08.pdf>

<sup>29</sup> [In \*Davies v. Afiliat Ltd.\*, 293 F.Supp.2d 1265 \(M.D. Fla. 2003\), a registry operator was sued in a U.S. district court for locking Sunrise domains that the registrant did not have a right to possess, even though the registrant was bound to relevant terms and conditions and had indemnified the registry operator. In the course of the action, it was claimed that defendant Afiliat incurred approximately US\\$100,000 in damages as a result of responding to the action. The court found that: "Plaintiff did not follow these rules, but rather subverted the process by attempting to register domain names for his own use before the names were offered on any basis to the general public, Defendant's 'interference' by locking the domain names was, as a matter of law, justified....summary judgment in Defendant's favor is appropriate."](#)  
[http://scholar.google.com/scholar\\_case?case=10308248522650356354&q=%22293+F.+Supp.+2d+1265%22&hl=en&as\\_sdt=2002](http://scholar.google.com/scholar_case?case=10308248522650356354&q=%22293+F.+Supp.+2d+1265%22&hl=en&as_sdt=2002)

<sup>30</sup> [See \*Stephen Weingrad and Weingrad & Weingrad, P.C. vs. Telepathy, Inc., Network Solutions, Inc., and Namebay S.A.M.\* \(05 Civ. 2024 \(MBM\), United States District Court for the Southern District of New York; 2005 U.S. Dist. LEXIS 26952\). In this case, a registrar was sued after performing standard renewal and redistribution operations. Registrar Network Solutions notified registrant Weingrad of the upcoming expiration of his domain name. Weingrad failed to renew and the domain expired. When offered, Weingrad then declined to pay Network Solutions a standard redemption fee to redeem the name. The domain eventually became available, and was registered by another registrar. Weingrad then sued Network Solutions. The case was dismissed, and the court noted that Weingrad was bound by the Registration Agreement between him and Network Solutions. Network Solutions believed that it had acted within its Registration Agreement, and within ICANN policies. However, Network Solutions incurred over US\\$80,000 in legal fees defending itself.](#)

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946 | significant costs in money and [resources](#), even though the registry or registrar was within its  
947 | legal rights and may have thought that it had exercised good faith. And as referenced above,  
948 | registrars have suspended domain names within their rights and then encountered customer  
949 | and public relations problems, which have costs of their own. Indemnification language in  
950 | ICANN contracts may fall short of being a true legal “safe harbor,” which reduces or eliminates a  
951 | party's liability under the law.

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952 |  
953 | The domain-takedown and indemnification issue may come down to this: If a registrar or  
954 | registry chooses to suspend a domain for malicious use, it is deciding to assume the risk and  
955 | bear responsibility for possible consequences. But ICANN apparently does not have the power  
956 | to require registries or registrars to suspend domain names for use issues, and if it did, then  
957 | provisions to fully protect the contracted party from [exposure to harm incurred by](#)  
958 | [implementing ICANN-required mitigation procedures](#) must be considered.

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#### 960 | **6.4 [The Expedited Registry Security Request \(ERSR\)](#)**

961 |  
962 | [The RAPWG discussed the new ERSR, which offers a flexible, contract-related response](#)  
963 | [mechanism for registries to respond to significant malicious threats to the DNS itself or a TLD's](#)  
964 | [operations.](#)  
965 |

---

<sup>31</sup> [There are many examples of how registrars have encountered difficulties after suspending domain names as per legal requirements and/or the registrar's terms of service. A few include:](#)

- [http://www.nytimes.com/2008/03/04/us/04bar.html?\\_r=3&scp=1&sq=liptak&st=nyt&oref=slogin&oref=slogin](http://www.nytimes.com/2008/03/04/us/04bar.html?_r=3&scp=1&sq=liptak&st=nyt&oref=slogin&oref=slogin)
- [http://en.wikipedia.org/wiki/Network\\_Solutions#Fitna\\_controversy](http://en.wikipedia.org/wiki/Network_Solutions#Fitna_controversy)
- [http://en.wikipedia.org/wiki/Godaddy#Suspension\\_of\\_Seclists.org](http://en.wikipedia.org/wiki/Godaddy#Suspension_of_Seclists.org)  
[http://en.wikipedia.org/wiki/Godaddy#Deletion\\_of\\_FamilyAlbum.com](http://en.wikipedia.org/wiki/Godaddy#Deletion_of_FamilyAlbum.com)

966 [The Expedited Registry Security Request \(ERSR\)<sup>32</sup> was developed to "provide a process for gTLD](#)  
967 [registries who inform ICANN of a present or imminent security incident \(hereinafter referred to](#)  
968 [as "Incident"\) to their TLD and/or the DNS to request a contractual waiver for actions it might](#)  
969 [take or has taken to mitigate or eliminate an Incident. A contractual waiver is an exemption](#)  
970 [from compliance with a specific provision of the Registry Agreement for the time period](#)  
971 [necessary to respond to the Incident. The ERSR has been designed to allow operational security](#)  
972 [to be maintained around an Incident while keeping relevant parties \(e.g., ICANN, other affected](#)  
973 [providers, etc.\) informed as appropriate."](#)

974  
975 [The ERSR was a result of learning from the Conficker problem, and was published for public](#)  
976 [comment in September 2009. The ERSR was included in the Draft Applicant Guidebook, draft 3](#)  
977 [\(DAG3\) so as to be made available in new TLDs that may be introduced in the future.](#)

978  
979 [The ERSR framework allows flexibility, which will be necessary for responding to the unknown](#)  
980 [and possibly novel threats to the DNS or TLDs that may arise in the future. It also allows](#)  
981 [registries to propose operational solutions that may be suited to the situation at hand, and to](#)  
982 [the registry's technical and operational capabilities. For example, in the case of another](#)  
983 [Conficker, registries could be allowed to perform relevant domain name blocking and/or](#)  
984 [registration themselves, or could accommodate arrangements in which a trusted party would](#)  
985 [register relevant domain names and would receive fee relief from ICANN and the registry. The](#)  
986 [ERSR also provides for expedited action, and process that involves legal and security experts at](#)  
987 [ICANN and the registry or registries involved.](#)

988

## 989 **6.5** [Other Notes](#)

990

991 Registrars are often viewed by the public as the key to successfully resolving malicious conduct  
992 because the registrars directly interact with those registrants who misuse domain names, and  
993 because registrars have freedom to set their terms of service.

---

<sup>32</sup> <http://www.icann.org/en/registries/ersr/>



- 994 • It has been observed that registrars' responses and defensive mechanisms vary widely  
995 in effectiveness and timeliness, and that some registrars are much less inclined to  
996 address e-crime than others.
- 997 • [Registrars are the parties that generally possess the most information that can be used](#)  
998 [to assess the trustworthiness of a registration and a registrant and can link it to](#)  
999 [malicious behavior. These include credit-card data \(criminals often use stolen](#)  
1000 [credentials; see below\), the true registrant's identity \(when protected by a proxy](#)  
1001 [contact or privacy service\), the IP of the registrant, and what domains that registrant](#)  
1002 [has registered in other TLDs.](#)
- 1003 • RAPWG members observed that malicious use of domain names varies significantly by  
1004 sponsoring registrar.<sup>33</sup>
- 1005 • Members also discussed apparent recurrent abuse by resellers, which goes back to how  
1006 registrars deal with their various agents, how those agents are bound to ICANN policies,  
1007 and how registrars are held accountable for the actions of their resellers.

1008  
1009 Some members of the Internet security community are convinced that a small number of  
1010 domain name registrars knowingly tolerate malicious abuse, or are actively involved in it. Such  
1011 cases need the attention of ICANN and its compliance department. A key question is what tools  
1012 are needed and are appropriate to deal with this worst-case behavior.

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1013  
1014 Given the above, the logical question is whether there are any registration-related policies that  
1015 can be used to positively affect such problems.

1016  
1017 **6.6 [Examples of Malicious Uses](#)**

1018

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<sup>33</sup> For example, see <http://rss.uribl.com/nic/>

1019 | **Phishing**

1020

1021 | Phishing is a Web site fraudulently presenting itself as a trusted brand in order to deceive

1022 | Internet users into divulging sensitive information (e.g. online banking credentials, email

1023 | passwords). The goal of phishing is usually the theft of funds or other valuable assets. [The great](#)

1024 | [majority of domains used for phishing are compromised or hacked by phishers, and the](#)

1025 | [registrants are not responsible for the phishing. Such cases are not registered for bad purposes](#)

1026 | [and therefore present cases where there is no inherent registration issue, and where mitigation](#)

1027 | [must be handled carefully.](#)

1028

1029 | RAPWG members Rod Rasmussen and Greg Aaron publish semi-annual Global Phishing Surveys

1030 | via the Anti-Phishing Working Group.<sup>35</sup> Findings from these reports include these relevant to

1031 | registration and use issues:

1032 | • About 81% of domains used for phishing are compromised or hacked by phishers, and  
1033 | the registrants are not responsible for the phishing. These domains should therefore not  
1034 | be suspended, and mitigation must usually be performed by the hosting provider.

1035 | “Malicious” domain registrations totalled about 5,591 domain names in all gTLDs and  
1036 | ccTLDs worldwide in the first six months of 2009. This was about 18.5% of the domain  
1037 | names involved in phishing.

1038 | • Only about 3.5% of all domain names that were used for phishing contain a brand name  
1039 | or variation thereof, designed to fool visitors. Placing brand names or variations thereof  
1040 | in the domain name itself is not a favored tactic of phishers, since brand owners are  
1041 | proactively scanning Internet zone files for such names. [Instead, phishers usually place](#)  
1042 | [brand names in subdirectories or on subdomains in an attempt to fool Internet users.](#)

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<sup>35</sup> The last three reports were: First Half 2009:

[http://www.apwg.org/reports/APWG\\_GlobalPhishingSurvey\\_1H2009.pdf](http://www.apwg.org/reports/APWG_GlobalPhishingSurvey_1H2009.pdf), Second Half 2008:

[http://www.apwg.org/reports/APWG\\_GlobalPhishingSurvey2H2008.pdf](http://www.apwg.org/reports/APWG_GlobalPhishingSurvey2H2008.pdf), First Half 2008:

[http://www.apwg.org/reports/APWG\\_GlobalPhishingSurvey1H2008.pdf](http://www.apwg.org/reports/APWG_GlobalPhishingSurvey1H2008.pdf)

1043 Most maliciously registered domains were random strings, such as “hodfw42hj.com.es”,  
1044 which offered nothing to confuse a potential victim.

- 1045 • Phishers are increasingly using subdomain services to host and manage their phishing  
1046 sites. These services are below the level provided by registries and registrars, and use of  
1047 subdomains is not [subject to policies maintained](#) by ICANN. Phishers use such services  
1048 almost as often as they register domain names. Such attacks even account for the  
1049 majority of phishing attacks in certain large TLDs. This trend shows phishers migrating to  
1050 services that cannot be taken down by registrars or registry operators.
- 1051 • Phishing (and phishing using maliciously registered domains) varies greatly by TLD.  
1052 Many factors may explain this, including general availability or nature of the TLD, price,  
1053 the registrars the TLD is available through, and locus or eligibility requirements.

Mike O'Connor 22/1/10 11:51

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1054 |  
1055 The RAPWG had consensus that phishing is generally a domain name use issue. Those cases that  
1056 involve misleading use of brand names in the domain string may be treated as cases of  
1057 cybersquatting.

1058

### 1059 **Spam**

1060 Spam is generally defined as bulk unsolicited e-mail. Spam may be sent from domains, and spam  
1061 is used to advertise Web sites.

1062

1063 Statistics published by various service providers show that spam levels vary significantly by TLD  
1064 and by registrar.<sup>36</sup>

1065

1066 | The RAPWG had consensus that spam is generally a domain name use issue. Those cases that  
1067 involve misleading use of brand names in the domain string may be treated as cases of  
1068 cybersquatting.

1069

---

<sup>36</sup> For example: <http://rss.uribl.com/tlds/> and <http://rss.uribl.com/nic/>

1070 **Malware / Botnet Command-and-Control**

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1071

1072 Malware authors sometimes use domain names as a way to control and update botnets.

1073 Botnets are composed of thousands to millions of infected computers under the common

1074 control of a criminal. Botnets can be used to perpetrate many kinds of malicious activity,

1075 including distributed denial-of-service attacks (DDoS), spam, and fast-flux hosting of phishing

1076 sites.

1077

1078 Relevant malware (including that associated with Srizbi, Torpig, and Conficker) on these infected

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1079 machines attempts to contact domains included on some sort of pre-determined list or

1080 generated via an algorithm. If the botnet's master has deposited instructions at one of these

1081 valid domains, the botnet nodes will download those instructions and carry out the specified

1082 malicious activity, or update themselves with improved code.

1083

1084 It is notable that especially in the case of Conficker, these lists were not domain names that had

1085 been created – the great majority of the domains strings had not yet been created as domain

1086 names. They were essentially domains that might [be registered at some point in the future](#) by

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1087 the criminal in question. Further, some of the valid domains may already be registered to

1088 innocent parties by coincidence.

1089

1090 If the relevant domain name list or domain-generation algorithm is known, white-hat parties

1091 (such as security researchers, registries, and registrars) can register and/or monitor the relevant

1092 domains. In the case of Conficker, white-hat parties registered the domain names that could

1093 have been used for command-and-control, successfully disrupted the botnet, and prevented

1094 much of it from being updated or controlled. These parties also sinkholed traffic to those

1095 domains (directed traffic to nameservers the researchers controlled). This allowed them to

1096 identify the IPs of infected computers, thus estimating the size of the botnet and enabling

1097 mitigation and cleanup efforts.

1098

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Deleted: What are the roles of members of the ICANN community and the wider domain registration community in partaking in such botnet disruption activities when it comes to preventing (or allowing) the use of specific domain names? .

1099 There are several ways in which malware authors and botnet "herders" utilize domain names  
1100 they control or plan to control at some point in conjunction with their schemes. The most  
1101 common and well understood is using websites under domains they control to distribute new  
1102 malware infections to victims. This is often done via social engineering, where the malware is  
1103 disguised as something else. More and more, we are seeing so-called "drive-by" infections,  
1104 where a malware author simply gets a victim to visit their site via a browser that is not fully  
1105 patched or is vulnerable due to a "zero-day exploit". Malware authors are also using domain  
1106 names to facilitate communication with infected machines and/or to actually control large  
1107 botnets. Many different malware families use pre-defined "rendezvous" domain names that are  
1108 hard coded into an initial downloaded piece of malware. These rendezvous domains will provide  
1109 further instructions using some sort of communications method, that is often, but not  
1110 necessarily web-based, to relay further instructions or to provide more malware to download to  
1111 the infected machine. Typically, the malware author will need to register such domains prior to  
1112 deployment of their code in the wild. Other, more sophisticated malware programs (e.g.  
1113 Conficker, Srizbi, Torpig), use a pre-defined algorithm to get updates from domains based on the  
1114 current time and perhaps other conditions. This allows malware authors to pick and choose  
1115 when and what domains to register in order to provide more instructions or control their  
1116 botnets.

- 1117 • Descriptions of Conficker can be found at the Conficker Working Group  
1118 (<http://www.confickerworkinggroup.org>) and on Wikipedia:  
1119 <http://en.wikipedia.org/wiki/Conficker>
- 1120 • Srizbi info is also at Wikipedia: [http://en.wikipedia.org/wiki/Srizbi\\_botnet](http://en.wikipedia.org/wiki/Srizbi_botnet) plus a write-  
1121 up on the domain calculator it uses at ThreatExpert.com:  
1122 <http://blog.threatexpert.com/2008/11/srizbis-domain-calculator.html>.
- 1123 • A relevant research paper is: "Your Botnet is My Botnet: Analysis of a Botnet Takeover"  
1124 by researchers at the University of California, Santa Barbara:  
1125 <http://www.cs.ucsb.edu/%7Eseclab/projects/torpig/torpig.pdf>.  
1126 Section 3 of this paper contains a very useful description of how the Torpig bot is  
1127 controlled via domain names. The Conficker botnet uses a similar means. As the Santa  
1128 Barbara authors note, "The use of domain flux in botnets has important consequences

1129 in the arms race between botmasters and defenders. From the attacker's point of view,  
1130 domain flux is yet another technique to potentially improve the resilience of the botnet  
1131 against take-down attempts. More precisely, in the event that the current rendezvous  
1132 point is taken down, the botmasters simply have to register the next domain in the  
1133 domain list to regain control of their botnet. On the contrary, to the defender's  
1134 advantage, domain flux opens up the possibility of sinkholing (or "hijacking") a botnet  
1135 [such as Torpig](#)." The Conficker bot is protected by sophisticated encryption, and its  
1136 nodes will only download instructions from a domain that provides an authenticated  
1137 response.

1138 |  
1139 Newer variants of Conficker generate 50,000 potentially viable domains per day, spread across  
1140 more than 100 TLDs. Registering all the domains generated by Conficker at market prices would  
1141 therefore carry an enormous cost. (The Santa Barbara team estimated the cost at between  
1142 | \$91.3 million and \$182.5 million per year.)  
1143

1144 Some registries blocked the viable Conficker domains. Those registries refused all attempts to  
1145 create the relevant domains, thereby keeping them out of the hands of all parties for a certain  
1146 period of time. Some registry operators were able to accomplish blocking, while others were not  
1147 | able to do so due to technical or policy reasons.  
1148

1149 | It is generally agreed by the members of the Conficker Working Group<sup>37</sup> that:

- 1150 1) Fighting Conficker by acquiring and/or blocking domains was a success in many ways and  
1151 was worth attempting. The effort prevented many nodes from being updated or controlled,  
1152 | and many nodes were identified and removed from the botnet.  
1153 2) The counter-measure of acquiring and/or blocking domains is probably not scalable in the  
1154 long term. It is expected that criminals may expand the numbers of domains their malware  
1155 algorithms use. The blocking efforts also depend upon the flawless and continued  
1156 participation of all relevant TLD registry operators.

---

<sup>37</sup> <http://www.confickerworkinggroup.org>

1157

1158

1159 **6.7 Use of Stolen Credentials**

1160

1161 **6.7.1 Issue / Definition**

1162 Criminals often use stolen credentials—such as stolen credit card numbers—to register domain  
1163 names for malicious purposes. Is this a registration issue, and what if any solutions can be  
1164 pursued through ICANN?

1165

1166 **6.7.2 Background**

1167

1168 For the purposes of examining registration abuse and the “use of stolen credentials”, there are  
1169 three usages that seem to apply:

- 1170 1. “Identity credentials” – Credentials that establish identity (e.g. personal identification cards,  
1171 stored personal information)
- 1172 2. “Access credentials” – Credentials that control access to computer systems (e.g. username  
1173 and password, digital certificates)
- 1174 3. “Financial credentials” – Credentials that provide access to financial accounts (e.g. credit  
1175 and debit cards).

1176 Some blending of usages would apply in some cases as well. For example, the use of a stolen e-  
1177 mail account to establish identity or the authority to modify access to financial credentials  
1178 crosses multiple definitions.

1179

1180 Given the disparate nature of the uses and protections against abuse the types of credentials  
1181 identified each have, it would seem prudent to examine them individually. Some commonalities  
1182 may present themselves to allow for unified approaches.

1183

1184 *Identity Credentials*

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1185 In general, stolen identity credentials allow a miscreant to assume or impinge the identity of  
1186 another in order to perpetuate one of their own schemes. This can manifest itself in the use of  
1187 purloined personal information to make a domain registration appear to be legitimate (e.g. false  
1188 WHOIS) or in allowing a perpetrator to assume control over access or financial credentials. The  
1189 latter case can be explored in-depth in examining those other two credential types, but the  
1190 former case is worth considering further.

1191

- 1192 1. Fraudsters use misappropriated identities of the actual individuals or institutions targeted  
1193 by a particular scheme in conjunction with a domain registration. The fraudster wishes to  
1194 make the domain name appear to be associated with the actual victim in order to make  
1195 their scheme more viable to other victims, and/or their application for the domain  
1196 legitimate.
- 1197 2. Miscreants use identities of random, but real individuals/organizations in conjunction with a  
1198 domain registration, unrelated to the actual fraud scheme. Use of real data may allow the  
1199 miscreant to fool anti-fraud measures put in-place by the registrar. Victims of the actual  
1200 scheme may be put at ease by the appearance of “real” verifiable domain ownership  
1201 information in WHOIS, or they may make complaints against innocent parties. The stolen  
1202 identity data may well cause delays in authorities investigating the scheme, as innocent  
1203 parties are scrutinized. The person who is “spoofed” in this instance may be the registrant  
1204 for other domains, which may also allow the registration to get past anti-fraud measures,  
1205 especially if the registrar being used is the same.
- 1206 3. The miscreant uses stolen identities in conjunction with stolen financial credentials to  
1207 bolster their fraud efforts when registering a domain. Including the stolen access  
1208 information in WHOIS and/or account information that matches stolen credit card data can  
1209 help avoiding anti-fraud systems, as well as all the benefits mentioned above.

1210

#### 1211 *Access Credentials*

1212 A miscreant can do quite a bit of damage with stolen access credentials. Outside of reselling  
1213 those credentials, the real value of stolen access credentials lies in what is possible to do with



1214 the systems to which those credentials provide access. Two possible attacks seem to be  
1215 meaningful within the confines of “domain registration abuse” examined here. First are direct  
1216 attacks against registrar/reseller systems using stolen access credentials for that service.  
1217 Second, a perpetrator could launch an indirect attack via access credentials to other accounts.  
1218

- 1219 1. A miscreant with direct access to a domain management account can make new domain  
1220 registrations using funds or “credits” that account may have with the reseller or registrar.  
1221 Obviously domains can be taken over, deleted, or otherwise sabotaged from such a  
1222 compromised account, but those scenarios are likely outside the scope of “registration  
1223 abuses”. Further, a miscreant may be able to gain access to credit card information that is  
1224 stored in such an account, or affect purchases with that card that directly benefit that  
1225 criminal. Again, this is outside scope, as this is more of a theft problem than a domain  
1226 registration issue, but it is likely a concern that could come up in discussions of this topic.
- 1227 2. If a fraudster has access to an account that is used to verify identity or confirm change  
1228 requests, like an e-mail account, they can either attempt to gain access/control over a  
1229 domain management account, or use a domain registration verification process to register  
1230 domains using someone else’s account/identity. Some domain resellers may use legacy  
1231 models based on the original e-mail based registration and modification system, which  
1232 would allow for fraudulent domain registrations based on e-mail confirmations.
- 1233 3. If a criminal has access via stolen credentials (or simply hacking) into a computer/server that  
1234 is part of some automated domain registration system, they can subvert that system. With  
1235 such control, new domains can be registered using the victim’s automated access to  
1236 registrar systems. Of course hijacking, sabotage, and other acts can be perpetuated as well,  
1237 just as if the miscreant had access to an account with the registrar/reseller.

1238

### 1239 *Financial Credentials*

1240 Abuses perpetrated with stolen financial credentials are fairly straightforward. The criminal can  
1241 utilize those credentials to fraudulently register domains and other related resources. This is  
1242 quite common practice with criminals today, with most of the domains registered in this manner  
1243 being used to perpetuate other crime, fraud, and abuse. Such credentials include credit cards,

1244 debit cards, on-line banking, alternate payment systems (e.g. PayPal), ACH systems, and other  
1245 various means for affecting payments for domain name transactions.

1246

1247 An interesting aspect for domain name registration via stolen financial credentials versus other  
1248 types of fraud done via stolen financial credentials is the need to establish domain ownership  
1249 information (whois and/or account) and domain deployment characteristics (nameservers) at  
1250 the time of registration. This allows for some unique techniques to expose fraudulent  
1251 registrations via stolen financial credentials.

1252

#### 1253 *Observed abuses*

1254 Use of stolen financial credentials would seem, at first glance, to be the primary abuse seen  
1255 today. Thousands of domains are registered daily using such credentials to perpetuate all sorts  
1256 of criminal and abusive schemes. However, there has been a shift of late in the way criminals  
1257 are amassing infrastructure resources, with more emphasis being placed on obtaining access  
1258 credentials to infrastructure elements. Some level of stolen identity credential abuse co-exists  
1259 with these other abuses as well, so all three areas deem at least some consideration.

1260

#### 1261 *Roles for policy and other industry-wide approaches*

1262 These three types of uses of stolen credentials present different opportunities for mitigation  
1263 efforts, both at the individual registrar/reseller level and across the industry. Some registrars  
1264 and resellers see fairly frequent abuse, especially of stolen financial credentials, while others do  
1265 not. There are opportunities for dissemination of best practices, plus potential for “minimum  
1266 standards” for dealing with various types of abuse in this arena. Further, given the unique  
1267 nature of domain names requiring access to a shared data system (the zone files) with detailed  
1268 ownership/contact data in order to function and be in compliance, there may be ways to share  
1269 information about fraudulent activities occurring at some registrars/resellers to curb those  
1270 abuses across the industry. No formal system or policy for the latter currently exists.

1271

1272 Free-market forces have largely determined how different registrars and their resellers respond  
1273 to these issues. There is a strong argument for allowing competition to dictate many of these  
1274 responses, as there is continuous innovation in these areas, and many market participants  
1275 compete on these features. And there is a strong argument that is an apparent free-market  
1276 failure, in which registrars/resellers who appear to be fairly weak in practices to prevent such  
1277 fraudulent registrations are generally not being penalized. The large numbers of fraudulent  
1278 domains obtained through the methods discussed previously with infrequent sanctions  
1279 evidences this. So the question becomes one of balance, as is often the case in such industry  
1280 issues.

1281  
1282 Complicating these issues are the large number of business models currently employed by  
1283 domain registration companies. "Retail" registrars who sell direct to individuals and businesses  
1284 will most often process transactions with credit cards or alternate payment services. There are  
1285 many other models, including large "corporate" registrars that establish credit accounts, multi-  
1286 level resellers, internal operations that register names on their own accounts, and more. This  
1287 makes it more difficult to find solutions that effectively cover all vendors well. Perhaps  
1288 concentrating on the areas that appear to have the highest incident of abuses would be  
1289 prudent.

- 19/1/10 14:57  
**Deleted:** out there however

- 19/1/10 14:57  
**Deleted:** approaches seemingly daily

- 19/1/10 14:38  
**Deleted:** players

1290  
1291 **6.7.3 Recommendations Regarding Malicious Use of Domain Names**

- 20/1/10 13:42  
**Deleted:** Models from other industries .

- 1292
- 1293 • [The RAPWG recommends the creation of non-binding best practices to help registrars](#)  
1294 [and registries address the illicit use of domain names. This effort should be supported](#)  
1295 [by ICANN resources, and should be created via a community process such as a working](#)  
1296 [or advisory group while also takes the need for security and trust into consideration.](#)  
1297 [The effort should consider \(but not be limited to\) these subjects:](#)
    - 1298 ○ [Practices for identifying stolen credentials](#)
    - 1299 ○ [Practices for identifying and investigating common forms of malicious use \(such](#)  
1300 [as malware and phishing\)](#)

- 1301 ○ [Creating anti-abuse terms of service for inclusion in Registrar-Registrant](#)
- 1302 [agreements, and for use by TLD operators.](#)
- 1303 ○ [Identifying compromised/hacked domains versus domain registered by abusers](#)
- 1304 ○ [Practices for suspending domain names](#)
- 1305 ○ [Security resources of use or interest to registrars and registries](#)

1307 **Addressing use of Stolen Access Credentials**

- 1308 • Idea – regular dissemination of best practices for protecting account access
- 1309 • Idea – adoption of minimum standards for protecting registrant login credentials  
1310 (password aging, strong passwords, etc.)
- 1311 • Idea – codify registrant rights/responsibilities for account access security management –  
1312 is there a potential for liability limitation for registrants vs. registrars vs. resellers?
- 1313 • **Addressing use of Stolen Financial Credentials**
- 1314 • [Placeholder for now]
- 1315 • Idea – regular dissemination of best practices for detecting stolen financial credentials
- 1316 • Idea – adoption of minimum standards for registrars/resellers who accept credit cards,  
1317 alternative payments, and bank drafts/transfers. Look to PCI
- 1318 • Idea – provide policy framework to ALLOW information sharing between registrars on  
1319 fraudulent domain registrations and registration attempts.
- 1320 • Idea – create information sharing clearinghouse to facilitate information sharing  
1321 between registrars (and resellers) on fraudulent domain registrations and registration  
1322 attempts. Data elements could include aspects of domain registrations including  
1323 nameservers and contact details. Sharing of stolen credential information itself is highly  
1324 problematic and would require a specialized third party if even possible. Locations of  
1325 fraudulent registration attempts (IP addresses) may be feasible in some venues.

- 20/1/10 13:47  
**Deleted:** Addressing use of Stolen Identity Credentials - ... [1]

- 20/1/10 13:47  
**Deleted:** <#>[Placeholder for now] -

- 20/1/10 09:30

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## 1328 7. Whois Access

1329

### 1330 7.1 Issue / Definition

1331

1332 The RAPWG found that the basic accessibility of WHOIS has an inherent relationship to domain  
1333 registration process abuses, and is a key issue related to the malicious use of domain names. It  
1334 appears that WHOIS data is not always accessible on a guaranteed or enforceable basis, is not  
1335 always provided by registrars in a reliable, consistent, or predictable fashion, and that users  
1336 sometimes receive different WHOIS results depending on where or how they perform the  
1337 lookup. These issues interfere with registration processes, registrant decision-making, and with  
1338 the ability of parties across the Internet to solve a variety of problems.

1339

1340 WHOIS is an area within GNSO policy-making scope and has had a long history of discussion.  
1341 Below, the RAPWG comments on the basic availability of and access to WHOIS data, and not the  
1342 accuracy of contact data or the use of proxy contact services. To avoid duplication of effort and  
1343 charter scope problems, the RAPWG decided to identify when WHOIS is seen to be a  
1344 contributing factor in other problems, and not to discuss WHOIS issues for which the GNSO has  
1345 already commissioned studies. (Those are: WHOIS contact data accuracy, the use of proxy  
1346 contact and privacy services, implications of non-ASCII registration data in WHOIS records, and  
1347 technical requirements for the WHOIS service itself – including potential replacements. For  
1348 background, please see: <http://gnso.icann.org/issues/whois/> )

1349

1350 WHOIS data availability problems have been discussed in other GNSO working groups, for  
1351 example:

- 1352 • The Post-Expiration Domain Name Recovery Working Group (PEDNR-WG) discussed how  
1353 access to WHOIS data is essential for parties to determine if contact data has been  
1354 updated upon the expiration of a domain name, and to check domain name expiration

1355 [dates. A majority of the registrars polled may make substantial updates to WHOIS data](#)  
1356 [upon expiration.](#)<sup>38</sup>  
1357 • [The Inter-Registrar Transfer Policy Part A PDP Working Group \(IRTP-WG\)](#)<sup>39</sup> [noted in its](#)  
1358 [final report that gaining registrars sometimes have difficulty accessing WHOIS data, and](#)  
1359 [therefore Administrative Contact e-mail addresses.](#)  
1360 • [The Fast-Flux PDP Working Group \(FFWG\) discussed how responders must access](#)  
1361 [WHOIS data when mitigating illicit uses of domain names.](#)  
1362  
1363 [Published WHOIS data for domain names involved in malicious conduct is an irreplaceable part](#)  
1364 [of the investigation and mitigation processes used by registrars, registry operators, registrants,](#)  
1365 [security companies, brand owners, victims, and law enforcement.](#)  
1366 • [The national law enforcement agencies of the United States, the United Kingdom,](#)  
1367 [Australia, Canada, and New Zealand have recommended that “ICANN should require](#)  
1368 [Registrars to have a Service Level Agreement for their Port 43 servers.” These](#)  
1369 [authorities consider that this is required in order “to aid the prevention and disruption](#)  
1370 [of efforts to exploit domain registration procedures by criminal groups for criminal](#)  
1371 [purposes.”](#)<sup>40</sup>

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<sup>38</sup> “Draft Initial Report on the Post-Expiration Domain Name Recovery Policy Development Process”:

[https://st.icann.org/data/workspaces/post-expiration-dn-recovery-wg/attachments/post expiration domain name recovery wg:20100112125658-0-27743/original/Draft%20Initial%20Report%20-%20PEDNR%20PDP%20-%2012%20January%202010.doc](https://st.icann.org/data/workspaces/post-expiration-dn-recovery-wg/attachments/post%20expiration%20domain%20name%20recovery%20wg:20100112125658-0-27743/original/Draft%20Initial%20Report%20-%20PEDNR%20PDP%20-%2012%20January%202010.doc)

<sup>39</sup> “Draft Final Report on the Inter-Registrar Transfers Policy - Part A Policy Development Process”:

[https://st.icann.org/data/workspaces/irtp\\_jun08\\_pdp-wg/attachments/irtp\\_part\\_a\\_pdp\\_wg\\_pdp\\_jun08:20090318145458-1-14319/original/Draft%20Final%20Report%20-%20IRTP%20Part%20A%20-%2018%20March%202009.doc%20%5BCompatibility%20Mode%5D.pdf](https://st.icann.org/data/workspaces/irtp_jun08_pdp-wg/attachments/irtp_part_a_pdp_wg_pdp_jun08:20090318145458-1-14319/original/Draft%20Final%20Report%20-%20IRTP%20Part%20A%20-%2018%20March%202009.doc%20%5BCompatibility%20Mode%5D.pdf)

<sup>40</sup> “Law Enforcement Recommended RAA Amendments and ICANN Due Diligence”, November 2009,

[https://st.icann.org/raa-related/index.cgi/LawEnforcementRAArecommendations%20\(2\).doc?action=attachments\\_download;page\\_name=05\\_january\\_2010;id=20091118185109-0-21002](https://st.icann.org/raa-related/index.cgi/LawEnforcementRAArecommendations%20(2).doc?action=attachments_download;page_name=05_january_2010;id=20091118185109-0-21002)

1372 • [The Anti-Phishing Working Group’s DNS Policy Committee has stated that published](#)  
1373 [WHOIS is “an invaluable resource, in fact, without which most of the cited cases would](#)  
1374 [not have been successful. For cases in which legitimate machines or services have been](#)  
1375 [hacked or defrauded, published domain name WHOIS information is an important tool](#)  
1376 [used to quickly locate and communicate with site owners and service providers. For](#)  
1377 [cases where domain names are fraudulently registered, the published domain name](#)  
1378 [WHOIS information can often be tied to other bogus registrations or proven false to](#)  
1379 [allow for quick shutdown.”<sup>41</sup>](#)

## 1381 7.2 **Background**

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1383 [ICANN’s current registry contracts require registry operators to adhere to port 43 WHOIS Service](#)  
1384 [Level Agreements \(SLAs\). These SLAs require that port 43 WHOIS service be highly accessible](#)  
1385 [and fast. For example, the .ORG contract requires that WHOIS service be functional at least](#)  
1386 [99.31% of the time per month \(with exceptions for scheduled maintenance\), and that responses](#)  
1387 [be provided in less than 800 milliseconds. Failure of registries to meet these SLAs have been](#)  
1388 [very rare according to monthly registry reports.<sup>42</sup>](#)

1389  
1390 [The majority of gTLD registries are “thick” registries, in which all authoritative WHOIS data—](#)  
1391 [including contact data—is maintained at the registry. The .COM and .NET registries are “thin,”](#)  
1392 [and contact data is located only at each domain name’s sponsoring registrar. Registrars are](#)  
1393 [therefore responsible for providing WHOIS service for .COM/.NET names so that contact data](#)  
1394 [may be retrieved. The .COM/.NET registry contains approximately 85% of the gTLD domains in](#)  
1395 [existence,<sup>43</sup> so registrar WHOIS accessibility is very important. When displaying WHOIS data for](#)

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<sup>41</sup> “Issues in Using DNS Whois Data for Phishing Site Take Down,”  
[http://www.antiphishing.org/reports/APWG\\_MemoOnDomainWhoisTake-Downs.pdf](http://www.antiphishing.org/reports/APWG_MemoOnDomainWhoisTake-Downs.pdf)

<sup>42</sup> <http://www.icann.org/en/tlds/monthly-reports/>

<sup>43</sup> “VeriSign Domain Name Industry Brief,” September 2009, <http://www.verisign.com/domain-name-services/domain-information-center/domain-name-resources/domain-name-report-dec09.pdf>

1396 [thick TLD domains names—especially on their Web sites—registrars often query the registry’s](#)  
1397 [WHOIS, and display that output to users.](#)

1398  
1399 [The Registrar Accreditation Agreements \(RAAs\)<sup>44</sup> require that registrars provide:](#)

- 1400 • [port 43 WHOIS access](#)
- 1401 • [a Web-based WHOIS](#)
- 1402 • [a listed set of information \(WHOIS data fields\), including:](#)
  - 1403 ○ [identity of the registrar](#)
  - 1404 ○ [domain name’s expiration date](#)
  - 1405 ○ [nameservers associated to the domain; and](#)
  - 1406 ○ [specified fields of data for the Registrant Contact, Administrative Contact, and](#)
  - 1407 [Technical Contact.](#)

1408  
1409 [There are no service levels \(SLAs\) in the Registrar Accreditation Agreements \(RAAs\). A registrar-](#)  
1410 [provided WHOIS service is not required to be online for any particular amount of time, nor](#)  
1411 [provided with any particular response speed.](#)

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1412  
1413 [Port 43 is designed for use with automated and machine queries. It can also be queried](#)  
1414 [manually by users who know how to perform telnet sessions and the “whois” command in](#)  
1415 [Linux/Unix/macosx shell. The percentage of Internet users who are technically fluent enough to](#)  
1416 [perform these types of queries \(or even know about port 43 at all\) is small. Thus, it is required](#)  
1417 [that registrars have a Web-based WHOIS query on their sites.](#)

1418  
1419 [A sub-team of RAPWG members performed some basic research by querying the Web-based](#)  
1420 [and port 43 servers of 50 registrars. This set included the top 20 registrars by gTLD market](#)  
1421 [share, 15 randomly-chosen mid-sized registrars, and 15 randomly-chosen small registrars.](#)  
1422 [When a registrar’s site was in a language other than English, the assistance of a native speaker](#)

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<sup>44</sup> <http://www.icann.org/en/registrars/agreements.html>



1423 [was obtained. In addition to manual checks, automated queries of port 43 were performed to](#)  
1424 [test availability over time.](#)

1425  
1426 [The sub-team members found WHOIS accessibility situations with 19 of the 50 registrars](#)  
1427 [sampled. Four registrars may have been in violation of their contractual WHOIS access](#)  
1428 [requirements:](#)

- 1429 • [Two did not provide a functional Web-based WHOIS.](#)
- 1430 • [One registrar's WHOIS listed a sponsoring registrar different from that provided by the](#)  
1431 [.COM/.NET registry WHOIS. The registrar's port 43 server provided an expiration date](#)  
1432 [different from that listed in the registry. The registrar's Web WHOIS provided two](#)  
1433 [different expiration dates for the same domain name.](#)
- 1434 • [One registrar did not identify the sponsoring registrar of its domains. The registrar does](#)  
1435 [not operate its port 43 server on the domain indicated by the .COM/.NET registry](#)  
1436 [WHOIS; the registrar's WHOIS service is evidently subcontracted to a second registrar on](#)  
1437 [that registrar's domain; and the sponsoring registrar's Web WHOIS is provided on a](#)  
1438 [third domain not branded as the sponsoring registrar.](#)

1439  
1440 [In addition, one registrar provided facially invalid registrant contact data for its own .COM name](#)  
1441 [-- including a registrant contact e-mail address on the domain "icann.org". This appears to be a](#)  
1442 [violation of the RAA.](#)

1443  
1444 [Fifteen other registrars presented these situations:](#)

- 1445 • [ThreeTwo registrars had port 43 servers that did not return replies for a notable number](#)  
1446 [of queries. One was offline/nonresponsive 21% of the time, one was](#)  
1447 [offline/nonresponsive 20% of the time, and one was offline/nonresponsive 14% of the](#)  
1448 [time. \(Based \(based on 100 queries per registrar, spread out over several weeks\).](#)
- 1449 • [Ten provided different WHOIS data on their port 43 servers than they did via their Web](#)  
1450 [WHOIS.](#)
  - 1451 ○ [Four provided only thin contact data via their Web WHOIS, while providing thick](#)  
1452 [contact data only on port 43.](#)

- 1453 ○ [In two cases, registrars provided two different expiration dates for each domain](#)
- 1454 [name via the Web WHOISes. One of the two expiration dates did not match the](#)
- 1455 [expiration date provided by the .COM/.NET registry.](#)
- 1456 ○ [Two sometimes provided full contact data on their Port 43 servers, and](#)
- 1457 [sometimes provided just Registrant contact data \(and no Admin or Tech contact](#)
- 1458 [data\) on their port 43 servers. It is unknown if this was due to a rate-limiting](#)
- 1459 [activity.](#)
- 1460 ○ [One registrar did not provide registrant contact data via port 43, and did not](#)
- 1461 [provide Admin or Tech contact data via its Web WHOIS.](#)
- 1462 ○ [One registrar provided a required data field \(Tech and Admin contact phone](#)
- 1463 [numbers\) on port 43 but not via its Web WHOIS.](#)
- 1464 • [Four cut off telnet sessions to port 43 very quickly--effectively disallowing manual](#)
- 1465 [queries via that method.](#)
- 1466

1467 [These results indicate that:](#)

- 1468 1. [Some registrars appear to be in violation of their contractual WHOIS accessibility](#)
- 1469 [obligations;](#)
- 1470 2. [Users are occasionally unable to obtain contact data due to WHOIS availability](#)
- 1471 [problems.](#)
- 1472 3. [Registrars occasionally provide registration data that differs from that provided by the](#)
- 1473 [registry.](#)
- 1474 4. [Users are sometimes given different registration data depending on the method they](#)
- 1475 [use to access the sponsoring registrar's WHOIS.](#)
- 1476 5. [Users are sometimes given different registration data depending upon who they are;](#)
- 1477 [perhaps depending upon whether they are being rate-limited.](#)
- 1478

1479 [These issues were distributed across a notable number of registrars, with different sizes,](#)

1480 [business models, and locations around the world.](#)

1481

1482 The reasons why registrars provide different data on port 43 versus their Web sites requires  
1483 further investigation. Some might be attempts to prevent automated data mining by spammers,  
1484 competitors, and other parties. The RAPWG notes that reasonable rate-limiting WHOIS can be a  
1485 valid, prudent practice – for example it can prevent spammers from mining WHOIS  
1486 information<sup>45</sup>, and can prevent WHOIS servers from being overwhelmed by excessive queries.  
1487 During Web-based WHOIS sampling, the RAPWG members observed that only some registrars  
1488 employ CAPCHAs on their Web-based WHOIS services as a protection against automated  
1489 queries.

1490

1491 In addition to the research conducted by working-group members, the RAPWG requested  
1492 information from the ICANN Compliance Department about how it monitors registrar WHOIS  
1493 access. The ICANN Compliance Department noted: "ICANN has developed a Whois server audit  
1494 tool which monitors access to registrars' Whois servers over a Port 43 connection. The script  
1495 developed for this task retrieves data for 4 registered domain names for each accredited  
1496 registrar.... The purpose of the audit is to flag Whois servers that are down for an amount of  
1497 time that is suspect and probably not just a manifestation of periodic server maintenance or  
1498 scheduled update. ... What is the "reasonable amount of time" for a server to be down?  
1499 Probably no more than an hour or so per day, although these are ICANN internal, 'soft metrics',  
1500 not agreed-upon timeframes with registrars. The script records the results and flags registrars  
1501 that prevent access to data on registered names. Transient network problems are less of a  
1502 concern, so ICANN focuses on long-term behavior, i.e., registrars which ICANN is unable to  
1503 communicate with for several days in a row. ....ICANN also reaches out to registrars that provide  
1504 access to data on registered names but provide 'thin', not 'thick', Whois data. The former does  
1505 not provide details on the registered name holder and additional contacts, which is required by  
1506 the RAA."<sup>46</sup>

1507

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<sup>45</sup> See: "SAC 023: Is the WHOIS Service a Source for

Email Addresses for Spammers?": <http://www.icann.org/en/committees/security/sac023.pdf>

<sup>46</sup> <http://forum.icann.org/lists/gnso-rap-dt/msg00454.html>

1508 [Over the last three years, ICANN’s Compliance Department has sent seven escalated compliance](#)  
1509 [notices \(e.g. notices of breach, termination, or RAA non-renewal\) to seven registrars for failure](#)  
1510 [to comply with WHOIS access requirements of the Registrar Accreditation Agreement:](#)

- 1511 • [One registrar did not have its contract renewed solely for failure to provide WHOIS](#)  
1512 [access. \(South America Domains dba NameFrog.com, which had less than 300 gTLD](#)  
1513 [names under sponsorship at the time.\)](#)
- 1514 • [The other six registrars were cited for both WHOIS access breaches AND at least one](#)  
1515 [other contract violation, such as failure to pay ICANN fees, failure to escrow data,](#)  
1516 [and/or failure to respond to WHOIS accuracy complaints.](#)

1517  
1518 [ICANN’s Compliance Department is in contact with registrars to resolve issues before escalated](#)  
1519 [compliance notice become becomes necessary. The Compliance staff noted to the RAPWG that](#)  
1520 [“some registrars block incoming WHOIS queries traffic by IP address, and Compliance works](#)  
1521 [with the registrars to get them unblocked when there may be a misunderstanding.” and, “Aside](#)  
1522 [from metrics on informal outreach to resolve blocked Whois servers and incomplete, or ‘thin’,](#)  
1523 [Whois data with registrars, which have been more than two dozen in the past 6-8 months,](#)  
1524 [Compliance could provide bi-weekly statistics to the WG from here on out on the number of](#)  
1525 [registrars that showed a pattern of restricting access to their Whois server over a Port 43](#)  
1526 [connection. These statistics have not been published before.”](#)

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Mike O’Connor 20/1/10 09:34

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Faisal Shah 24/1/10 19:38

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1527  
1528 [So, it appears that some contractual violations are cured in an amicable friendly manner, and](#)  
1529 [that public breach letters have apparently been used as a tool of last resort. It is unknown how](#)  
1530 [many WHOIS accessibility issues have been discovered but not resolved.](#)

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1531  
1532 [The last time that ICANN published WHOIS access compliance data was 2007. That year,](#)  
1533 [ICANN’s Compliance Department examined every ICANN-Accredited Registrar’s Web site, and](#)  
1534 [did not examine port 43 access.<sup>47</sup>](#)

1535

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<sup>47</sup> <http://www.icann.org/en/compliance/reports/contractual-compliance-audit-report-18oct07.pdf>

1536 [The Compliance Department numbers indicate that WHOIS access problems are found regularly.](#)  
1537 [Above and beyond those, the RAPWG research indicates that a notable percentage of registrars](#)  
1538 [might not make WHOIS data available in a reliable, consistent, or predictable fashion.](#)

1539

### 1540 **7.3 Recommendations**

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1541

1542 [1. The GNSO should determine what additional research and processes may be needed to](#)  
1543 [ensure that WHOIS data is accessible in an appropriately reliable, enforceable, and consistent](#)  
1544 [fashion.](#)

1545

1546 [The GNSO Council should consider how such might be related to other WHOIS efforts, such as](#)  
1547 [the upcoming review of WHOIS policy and implementation required by ICANN's new Affirmation](#)  
1548 [of Commitments. The Affirmation of Commitments says: "ICANN additionally commits to](#)  
1549 [enforcing its existing policy relating to WHOIS, subject to applicable laws. Such existing policy](#)  
1550 [requires that ICANN implement measures to maintain timely, unrestricted and public access to](#)  
1551 [accurate and complete WHOIS information, including registrant, technical, billing, and](#)  
1552 [administrative contact information. One year from the effective date of this document \[30](#)  
1553 [September 2009\] and then no less frequently than every three years thereafter, ICANN will](#)  
1554 [organize a review of WHOIS policy and its implementation to assess the extent to which WHOIS](#)  
1555 [policy is effective and its implementation meets the legitimate needs of law enforcement and](#)  
1556 [promotes consumer trust."<sup>48</sup>](#)

1557

1558 [2. The GNSO should request that the ICANN Compliance Department publish more data about](#)  
1559 [WHOIS accessibility, on at least an annual basis. This data should include a\) the number of](#)  
1560 [registrars that show a pattern of restricting access to their port 43 Whois servers, and b\) the](#)  
1561 [results of an annual compliance audit of compliance with contractual WHOIS access obligations.](#)

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<sup>48</sup> <http://www.icann.org/en/announcements/announcement-30sep09-en.htm>

1562

1563

- 19/1/10 12:02

**Deleted:** - The Expedited Registry Security Request (ERSR) -

The Expedited Registry Security Request (ERSR)<sup>49</sup> was developed to "provide a process for gTLD registries who inform ICANN of a present or imminent security incident (hereinafter referred to as "Incident") to their TLD and/or the DNS to request a contractual waiver for actions it might take or has taken to mitigate or eliminate an Incident. A contractual waiver is an exemption from compliance with a specific provision of the Registry Agreement for the time period necessary to respond to the Incident. The ERSR has been designed to allow operational security to be maintained around an Incident while keeping relevant parties (e.g., ICANN, other affected providers, etc.) informed as appropriate." -

The ERSR was a result of learning from the Conficker problem, and was published for comment in September 2009. The ERSR was included in the Draft Applicant Guidebook, draft 3 (DAG3) so that it will be available for new TLDs that may be introduced in the future. -

The ERSR framework allows flexibility, which will be necessary for responding to the unknown and possibly novel threats to the DNS or TLDs that may arise in the future. It also allows registries to propose operational solutions that may be suited to the situation at hand, and to the registry's technical and operational capabilities. For example, in the case of another Conficker, registries could be allowed to perform relevant domain name blocking and/or registration themselves, or could accommodate arrangements in which a trusted party would register relevant domain names and would receive fee relief from ICANN and the registry. The ERSR also provides for expedited action, and process that involves legal and security experts at ICANN and the registry or registries involved. -

1563 | **8. Uniformity of Contracts**

1564

1565 | **8.1 Issue / Definition**

1566 | Three specific charter objectives of the RAPWG were to:

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1567 | • Understand if registration abuses are occurring that might be curtailed or better  
1568 | addressed if consistent registration abuse policies were established.

1569 | • Determine if and how {registration} abuse is dealt with in those registries {and  
1570 | registrars} that do not have any specific {policies} in place, and

1571 | • Identify how these registration abuse provisions are {...} implemented in practice or  
1572 | deemed effective in addressing registration abuse.

1573

1574 | The RAPWG formed a sub-team to fully appreciate the current state environment of ICANN-

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1575 | related contracts and agreements, and then discussed the findings in the larger RAPWG.

- 19/1/10 12:03  
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1576

1577 | **8.2 Background**

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1578 | The Sub-Team was tasked with the specific topic of contract uniformity relative to abuse as  
1579 | defined by the larger Working Group, and presented its research to the larger WG. The sub-  
1580 | team's membership, meeting schedule, and meeting minutes are found on the RAPWG web site.

- 8/1/10 18:10  
**Comment:** Deleted the material and referred to Web site, so that we can focus attention on the findings.

1581

1582 | **8.3 ICANN Agreement Landscape:**

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1583 | The following diagram is meant to define scope and visually represent the relationships  
1584 | between parties and the contracts that bind them. Additionally, nested relationships between  
1585 | the agreements themselves are depicted.

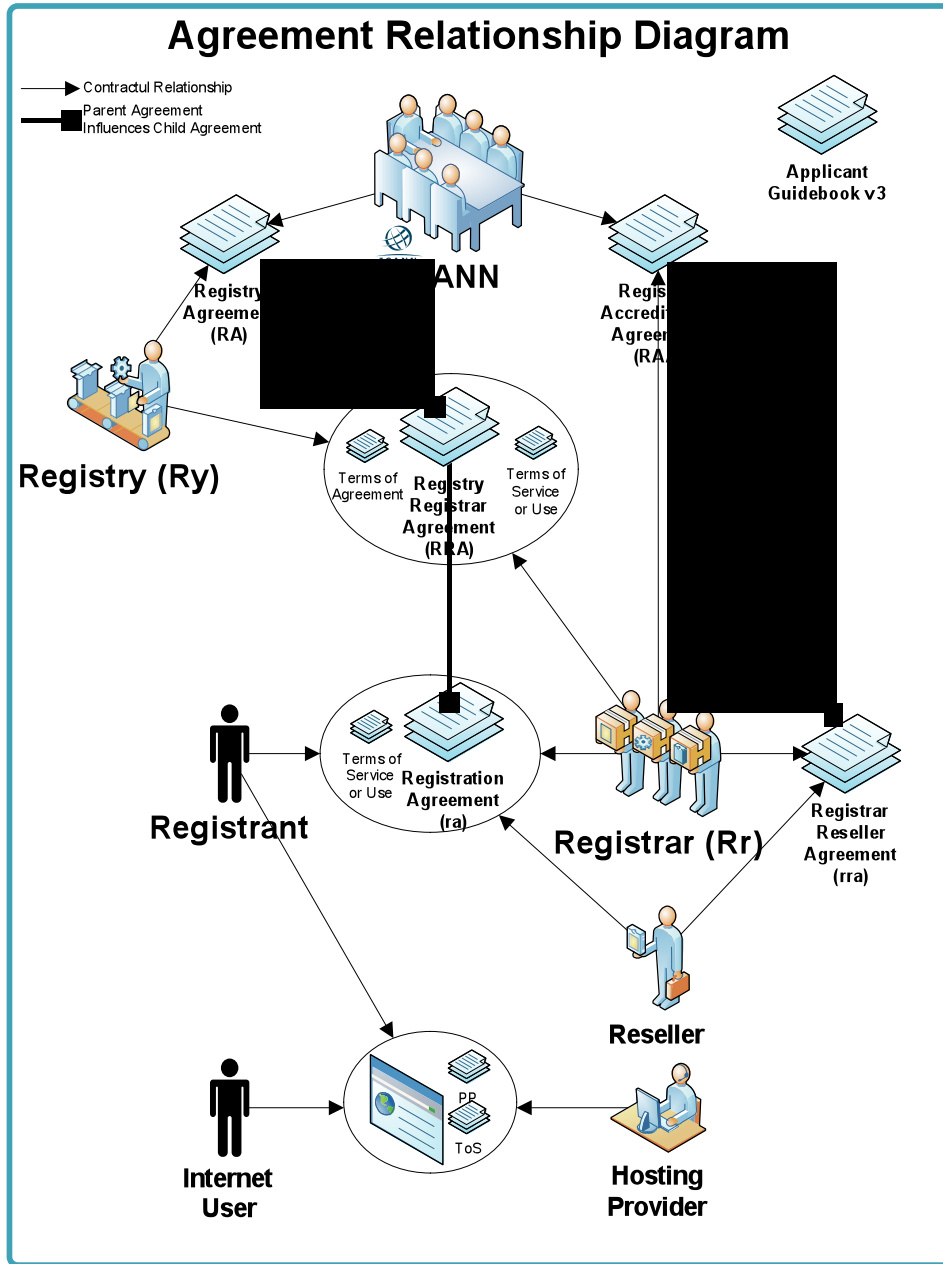
1586

1587 | Market Participants:

- 1588 | • ICANN
- 1589 | • Registry (Ry)
- 1590 | • Registrar (Rr)

- 1591 • Registrant
- 1592 • Hosting Provider
- 1593 • Internet User
- 1594
- 1595 Agreements:
- 1596 • Registry Agreement (RA)
- 1597 • Registry Registrar Agreement (RRA)
- 1598 • Registrar Accreditation Agreement (RAA)
- 1599 • Registration Agreement (ra)
- 1600 • Registrar Reseller Agreement (rra)\*\*
- 1601 • Terms of Service\*\*
- 1602 • Terms of Use\*\*
- 1603 • Terms of Agreement\*\*
- 1604 \*\*Agreements typically not in scope of primary dispersion research





1605

1606 **Dispersion Findings:**

1607

Code	Agreement	Dispersion Found?	Supporting Data	Appendix	Summary Comments
RA	Registry Agreement	Yes	GNSO Registration Abuse Policies Issues Report	1	Some variance exists across the Registry Agreements. Some TLDs contain abuse provisions within the RA, while others contain the abuse provision in the RRA template nested within the RA. Other TLDs have abuse language within Acceptable Use Policies or Terms of Agreement posted on their respective web site.
RRA	Registry Registrar Agreement	Yes	GNSO Registration Abuse Policies Issues Report	2	Not every Registry Agreement contains an RRA Template, and as such, is where the dispersion begins. In the Registry Agreements that do contain an RRA, the templates appear to be consistent. Some members questioned whether they lack sufficient abuse definitions and indemnification language to combat abuse.
RAA	Registration Accreditation Agreement	Indirectly	2009 RAA Gap Analysis	3	The RAA is a template agreement for each Accredited Registrar, and as such does not have dispersion. However, the RAA does not contain any provisions relative to abuse definition, nor indemnification to sufficiently combat abuse.
ra	Registration Agreement*	Yes	UofC Dispersion Matrix & GNSO Registration Abuse Policies Issues Report	4	Across the sample of registrars used in the dispersion research, the structure of agreements did have many similarities, but significant dispersion across agreement titles, standard contract content, abuse content, and lack of abuse content did exist. The agreements themselves were often titled differently, ranging from Registration Agreements to Terms of Service, to Terms of Use, thus blurring scope with "Registration Agreements." Lastly, location of the agreements on Registrar sites varied greatly. See also ToS.
rra	Registrar Reseller Agreement	na	na	-	These agreements were not reviewed for dispersion, but we suspect great dispersion in how these agreements are structured
ToS	Terms of Service*	Indirectly		-	The use of this legal agreement does vary greatly across all industry participants. For the most part, these types of agreements are out of scope, however, some participants do label Registration Agreements as Terms of Service, and/or, Registration Agreement provisions became sub-sections within ToS agreements.

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Comment: Shouldn't we mention that that a ToS is legally binding when referenced in an ra?

ToU	Terms of Use*	Not Directly		" "
PP	Privacy Policy	na	na	none
AGv3	Applicant Guidebook version 3	na	na	Section within Agv3 relative to malicious conduct <out of scope for dispersion research>

\* Registrars vary greatly in how agreements are titled

1608

1609 **8.4 Conclusions & Guiding Principles**

1610

1611 Over the course of UoC meetings and research findings, reoccurring themes developed with  
1612 consistent agreement leading to consensus and defined boundaries for recommendations that  
1613 the sub-team created.

1614

1615 **8.4.1 Dispersion & Consistency**

1616

1617 The UoC sub-team believed that uniformity does not exist among “RA, RRA, RAA and ra”  
1618 agreements relative to abuse provisions. The sub-team was of the belief that increased  
1619 uniformity is important for the marketplace and helps promote equal competition, and that  
1620 while perfect uniformity is not realistic, it should be striven for when and where feasible.

1621

1622 At the same time, the team also recognized, that lack of uniformity complicates efforts to  
1623 mitigate abusive uses of domains, but is not a predicate for abuse that we see today, and that if  
1624 policies are consistent, then greater responsibility to enforce the policy consistently falls upon  
1625 ICANN.

1626

1627 **8.4.2 Abuse Provision Baseline (APB)**

1628

- The sub-team agreed, that if any sort of uniformity in agreements is to be implemented,  
1629 a minimal baseline of provision or language would be the best method to accommodate  
1630 the various business models.

1631

- The sub-team thought that a lowest common denominator (minimum requirement)  
1632 approach with abuse provisions is best and allows market participants to not be

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**Comment:** Suggest deleting this category – it’s in flux, and it’s basically just another flavor of RA.

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1633 constrained by exceeding minimums in efforts to promote differentiation within the  
1634 competitive landscape.

- 1635 ○ The sub-team recognized the spectrum of abuse provisions can range from:
  - 1636 ▪ General language with broad powers to act against all kinds of abuse, or
  - 1637 ▪ Specific language which can be limiting; and may not be adaptive to
  - 1638 changing conditions
- 1639 ○ Finding the right balance of language that provides adequate authority to
- 1640 respond to abuse with adequate protection from lawsuits is required.
- 1641 ○ A “One size fits all” kind of provision that can anticipate future or unknown
- 1642 abuses was the sub-team’s “desired model,” but the sub-team team did not
- 1643 recognize variance among business types.

- 1644 - The sub-team thought that any APB should be clearly communicated and shared with
- 1645 market participants and that high degrees of transparency is required where
- 1646 participants choose to exceed any baselines or minimums that are established.
- 1647 - The sub-team agreed that outcomes from any future and not-yet-determined
- 1648 registrations Abuse policies PDP will be long coming and that in the meantime it would
- 1649 be a useful thing for ICANN, Registries, and Registrars to develop abuse provisions
- 1650 and/or continue to enhance abuse provisions for their agreements with continued
- 1651 voluntary, proactive enforcement as necessary. Additionally, the sub-team agreed that
- 1652 the investigation and deployment of best practices would be a great interim step until
- 1653 such a PDP is complete.

1654 When the wider RAPWG discussed the sub-team’s analysis, there was not agreement about the

1655 sub-team’s findings and recommendations.

1656 Some RAPWG members believed that uniformity already exists in the important and relevant

1657 ways. Observations include:

- 1660 • Registries and registrars are required to follow Consensus Policies. So, if there is a
- 1661 registration abuse, ICANN can make consensus policy about that abuse, and the
- 1662 resulting policy will be applied to all contracted parties. The Consensus Policy process is

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1663 [a mechanism specifically designed to create uniformity where it is needed, and it](#)  
1664 [guarantees uniformity.](#)

- 1665 • [All registrars are bound to a uniform RAA. While two version of the RAA currently exist,](#)  
1666 [the great majority of the registered gTLD domains are now covered under the new](#)  
1667 [\(2009\) RAA, and the old RAA \(2001\) is being phased out in a planned fashion.](#)
- 1668 • [Language in the RAA requires registrars and registrants to adhere to all ICANN policies.](#)
- 1669 • [Some amount of non-uniformity is necessary. For example, sTLDs may require language](#)  
1670 [in their contracts to define their unique sponsorship and eligibility needs.](#)
- 1671 • [Uniformity for the sake of uniformity does not necessarily solve any problem.](#)

1672

1673 [Some RAPWG members expressed that a general APB may not be a realistic goal. A concern is](#)  
1674 [that the creation of “general language with broad powers to act against all kinds of abuse”](#)  
1675 [might be a solution in search of an undefined problem, and might not include adequate](#)  
1676 [consideration of who is being harmed, how, and to what extent. In general, the RAPWG](#)  
1677 [discussed how in the past consensus policy-making efforts, specific registration abuses were](#)  
1678 [verified and understood, and then specific policies and procedures were designed to address](#)  
1679 [them.](#)

1680

1681 [Some members were of the opinion that the sub-team did not always distinguish adequately in](#)  
1682 [its contracts analysis between registration abuse provisions and provisions designed to address](#)  
1683 [malicious uses of domains. This distinction can be critical for policy-making.](#)

1684

1685 [Regarding uniformity of registrar-registrant agreements and TLD-specific terms of service:](#)  
1686 [Registrars do have the right to set their terms of service as long as they are consistent with](#)  
1687 [ICANN requirements. Similarly, many registries have the contractual right to institute policies](#)  
1688 [and procedures for their own TLDs, and it was unclear to some RAPWG members whether ABPs](#)  
1689 [would alter those existing contractual rights. As per the exploration of malicious use above,](#)  
1690 [ICANN does not appear to have the ability to force registrars and registries to implement](#)  
1691 [domain suspensions for malicious use alone. There was some disagreement with the sub-](#)  
1692 [team’s statement that “uniformity is important for the marketplace and helps promote equal](#)

1693 [competition;](#)” RAPWG members commented that contractual variances in registrar-registrant  
1694 [agreements are a way that registrars differentiate themselves in the market, and can help](#)  
1695 [registrars adhere to the laws of the jurisdictions in which they are incorporated or operate.](#)  
1696

## 1697 **8.5 Recommendations**

1699 [The RAP WG recommends the creation of an Issues Report to evaluate whether a minimum](#)  
1700 [baseline of registration abuse provisions should be created for all in-scope ICANN agreements,](#)  
1701 [and if created, how such language would be structured to address the most common forms of](#)  
1702 [registration abuse.](#)  
1703  
1704  
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1706

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1706 **9. Meta Issues**

1707 The RAPWG identified registration abuse “meta-issues.” These meta-issues have a number of  
1708 attributes in common:

- 1709
- 1710 • They are being discussed in various Working Groups and Advisory Groups  
1711 simultaneously.
  - 1712 • Their scope spans a number of ICANN policies
  - 1713 • Previous groups have discussed these issues without satisfactory resolution
  - 1714 • They are worthy of substantive discussion and action, but may not lend themselves to  
1715 resolution through current policy processes

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1717 **9.1 Meta-issue ; Uniformity of reporting**

1718

1719 This working group has identified the need for more uniformity in the mechanisms to initiate,  
1720 track, and analyze policy-violation reports. The IRTP Working Group identified a similar need  
1721 during its review of compliance reports in that arena. This issue is much broader than  
1722 registration abuse, is being discussed by a number of working and advisory groups  
1723 simultaneously, and will require more than simple uniformity of contracts to address.

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1725 **9.1.1 The Problem**

1726

1727 The processes by which a person experiencing a problem learns about their options to resolve  
1728 that problem, or learns which remedies are covered by ICANN policy and which are not, is  
1729 sometimes difficult. As a result:

- 1730
- 1731 • End-users and registrants find it confusing and difficult to identify the most appropriate  
1732 problem-reporting venue or action to take when they experience problems.

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- 1733 • Registrars and registries are frustrated if their customers file complaints in error, in the  
1734 wrong place, or without first seeking help from the most relevant provider.  
1735 • Working and advisory groups find their work hampered by the lack of reliable (rather  
1736 than anecdotal) data upon which to base policy decisions.

1737

1738 In addition, the process of reporting a perceived policy violation could be used to educate  
1739 people on the limits of ICANN policies and available options if their issue is not covered by  
1740 policy.

1741

1742 The RAPWG suggests, as a starting point for discussion, that every abuse policy should have:

- 1743 • Reporting: a mechanism whereby violations of the policy can be reported by those who  
1744 are impacted  
1745 • Notification: standards as to how contracted parties make visible:  
1746 ○ where to report policy violations,  
1747 ○ “plain language” definitions of what constitutes a “reportable” problem,  
1748 ○ “just in time education” describing reporting or action options that are available  
1749 when the person’s problem falls outside ICANN policy.  
1750 • Tracking: transparent processes to collect, analyze, and publish summaries of valid  
1751 policy-violation reports, the root-causes of the problems and their final disposition  
1752 • Compliance: processes to provide due process, and sanctions that will be applied, in the  
1753 case of policy violations.

1754

### 1755 **9.1.2 Recommendation**

1756

1757 The RAPWG suggests that this “meta-issue” be addressed either by a PDP working group, a best-  
1758 practices working group or an ICANN advisory group, with the goals of:

1759

- 1760 - Providing “just in time” education and knowledge to people wanting to report  
1761 problems  
1762 - Making it easier to submit a valid complaint

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- 1763 - [Reduce the number of erroneous complaints](#)
- 1764 - [Improving understanding of the limits of ICANN policies and other options to pursue](#)
- 1765 [if the issue is not covered by policy](#)
- 1766 - [Improving the effectiveness of policy-compliance activities](#)
- 1767 - [Improving the data available for GNSO \(working-group\) and ICANN \(advisory-group\)](#)
- 1768 [policy-making](#)
- 1769 - [Improving the data available for compliance activities](#)
- 1770 - [Answering the question “which comes first, policy-process or definitive data](#)
- 1771 [describing the problem?” along with suggestions as to how data can be gathered](#)
- 1772 [when it hasn’t yet been included in the reporting process.](#)

## 9.2 [Meta-issue: Collection and Dissemination of Best Practices](#)

The [RAPWG](#) has identified the need for and benefit of [creating and disseminating “best practices” related to aspects of domain name registration and management, for the appropriate members of the ICANN community.](#) [Best practices should also be kept current and relevant.](#)

[The question is how ICANN can support such efforts in a structured way.](#)

[This recommendation is a “meta-issue” because it is much broader than registration abuse, is being discussed by a number of working and advisory groups simultaneously, and has potential impact for almost any current and future working or advisory group.](#)

### 9.2.1 [Definition of “Best Practices”](#)

[From Wikipedia \(\[http://en.wikipedia.org/wiki/Best\\\_practices\]\(http://en.wikipedia.org/wiki/Best\_practices\)\):](#)

[A best practice is a technique, method, process, activity, incentive, or reward that is believed to be more effective at delivering a particular outcome than any other technique, method, process, etc. when applied to a particular condition or circumstance.](#)

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1792 *The idea is that with proper processes, checks, and testing, a desired outcome can be*  
1793 *delivered with fewer problems and unforeseen complications. Best practices can also be*  
1794 *defined as the most efficient (least amount of effort) and effective (best results) way of*  
1795 *accomplishing a task, based on repeatable procedures that have proven themselves over*  
1796 *time for large numbers of people.*

1797  
1798 *A given best practice is only applicable to particular condition or circumstance and may*  
1799 *have to be modified or adapted for similar circumstances. In addition, a "best" practice*  
1800 *can evolve to become better as improvements are discovered.*

1801  
1802 The members of the RAPWG discussed that “best practices” should be considered non-binding  
1803 by definition, and should therefore not have an implication of finality, obedience, or  
1804 universality. This distinguishes them from binding requirements such as Consensus Policies and  
1805 contractual obligations, which are considered final and require compliance, and are created via  
1806 other processes at ICANN. Best practices may often be a good alternative when binding  
1807 requirements are not applicable or appropriate. (In a parallel example, IETF Best Practices or  
1808 “best current practice RFCs” are recommendations only, and the IETF chose not to make them  
1809 Internet Standards for a reason.) Best practices are also flexible, can be updated as needed, and  
1810 can be adopted and adapted by various users according to their varying needs. As has been  
1811 noted in this paper, that is helpful because industry parties often face very different problems,  
1812 to different degrees, etc.

### 1814 9.2.2 Background

1815  
1816 *A number of working and advisory groups are coming up with many good ideas for addressing a*  
1817 *wide variety of problems in the industry. The group’s participants often label these ideas as*  
1818 *“best practices”. However, many of these ideas do not lend themselves well to crafting as*  
1819 *policy, for policies are often narrow in scope, limited in the time they could be effective, or*  
1820 *difficult to capture as policy concepts or contract terms. This is particularly true in the areas*  
1821 *surrounding malicious use. Yet all industry participants could benefit greatly by adopting many*

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1822 of these best practices. Unfortunately, no formal mechanisms for collecting such practices,  
1823 keeping them updated, or disseminating them to all relevant industry participants exists today  
1824 within the ICANN community. Thus, much of the good work done in these groups is not  
1825 captured effectively if it is not included in their policy-making outcomes.

1826  
1827 Best practices in the field of anti-abuse or security often lose their effectiveness in a relatively  
1828 short amount of time. This does not lend well to formal policy, but sharing effective techniques  
1829 with peers in the field can still be very beneficial.

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1830  
1831 Best practices in the field of anti-abuse or security are often very sensitive, and industry  
1832 participants would not always like some of them made public so that bad actors can learn from  
1833 them and adapt new tactics. How can sensitive best practices be safely disseminated to industry  
1834 participants? How can the veracity of all industry participants be assured as well?

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### 1835 1836 **9.2.3 Recommendation**

1837  
1838 The working group suggests that this “meta-issue” be addressed either by a PDP working group  
1839 or an ICANN advisory group, with the goals of:

- 1841 - Creating mechanisms within the ICANN community to support the creation and  
1842 maintenance of best practices efforts in a structured way.
- 1843 - Creating multiple channels (some private or secure) for dissemination of best  
1844 practices to all relevant community members.
- 1845 - Incorporating the gathering and recommendation of best practices into the  
1846 processes used by various policy and advisory working groups.
- 1847 - Instituting practices to measure and incentivize adoption of best practices across  
1848 the industry.
- 1849 - Launching regular review processes where universal best practices may be  
1850 incorporated into more formal policies.

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best practices over time. -  
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## 10. Conclusions, Recommendations, & Next Steps

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## 1855 **Annex I – Working Group Charter**

1856

1857 Whereas GNSO Council Resolution (20081218-3) dated December 18, 2008 called for the  
1858 creation of a drafting team “to create a proposed charter for a working group to investigate the  
1859 open issues documented in the issues report on Registrations[sic] Abuse Policy”.

1860

1861 Whereas a drafting team has formed and its members have discussed and reviewed the open  
1862 issues documented in the issues report.

1863

1864 Whereas it is the view of the drafting Team that the objective of the Working Group should be  
1865 to gather facts, define terms, provide the appropriate focus and definition of the policy issue(s),  
1866 if any, to be addressed, in order to enable the GNSO Council to make an informed decision as to  
1867 whether to launch PDP on registration abuse.

1868 Whereas the drafting team recommends that the GNSO Council charter a Working Group to (i)  
1869 further define and research the issues outlined in the Registration Abuse Policies Issues Report;  
1870 and (ii) take the steps outlined below. The Working Group should complete its work before a  
1871 decision is taken by the GNSO Council on whether to launch a PDP.

1872

1873 The GNSO Council RESOLVES: To form a Working Group of interested stakeholders and  
1874 Constituency representatives, to collaborate broadly with knowledgeable individuals and  
1875 organizations, to further define and research the issues outlined in the Registration Abuse  
1876 Policies Issues Report; and take the steps outlined in the Charter. The Working Group should  
1877 address the issues outlined in the Charter and report back to the GNSO Council within 90 days  
1878 following the end of the ICANN meeting in Mexico City.

1879

### 1880 **CHARTER**

1881

1882 **Scope and definition of registration abuse** – the Working Group should define domain name

1883 registration abuse, as distinct from abuse arising solely from use of a domain name while it is  
1884 registered. The Working Group should also identify which aspects of the subject of registration  
1885 abuse are within ICANN's mission to address and which are within the set of topics on which  
1886 ICANN may establish policies that are binding on gTLD registry operators and ICANN-accredited  
1887 registrars. This task should include an illustrative categorization of known abuses.

1888

1889 **Additional research and identifying concrete policy issues** – The issues report outlines a  
1890 number of areas where additional research would be needed in order to understand what  
1891 problems may exist in relation to registration abuse and their scope, and to fully appreciate the  
1892 current practices of contracted parties, including research to:

- 1893 - 'Understand if registration abuses are occurring that might be curtailed or better  
1894 addressed if consistent registration abuse policies were established'
- 1895 - 'Determine if and how [registration] abuse is dealt with in those registries [and  
1896 registrars] that do not have any specific [policies] in place'
- 1897 - 'Identify how these registration abuse provisions are [...] implemented in practice or  
1898 deemed effective in addressing registration abuse'.

1899

1900 In addition, additional research should be conducted to include the practices of relevant entities  
1901 other than the contracted parties, such as abusers, registrants, law enforcement, service  
1902 providers, and so on.

1903

1904 The Working Group should determine how this research can be conducted in a timely and  
1905 efficient manner -- by the Working Group itself via a Request for Information (RFI), by obtaining  
1906 expert advice, and/or by exploring other options.

1907

1908 Based on the additional research and information, the Working Group should identify and  
1909 recommend specific policy issues and processes for further consideration by the GNSO Council.

1910

1911 **SSAC Participation and Collaboration:** The Working Group should (i) consider inviting a  
1912 representative from the Security and Stability Advisory Committee (SSAC) to participate in the

1913 Working Group; (ii) consider in further detail the SSAC's invitation to the GNSO Council to  
1914 participate in a collaborative effort on abuse contacts; and (iii) make a recommendation to the  
1915 Council about this invitation.

1916

1917 **Workshop at ICANN meeting in Mexico City on Registration Abuse Policies** - In order to get  
1918 broad input on and understanding of the specific nature of concerns from community  
1919 stakeholders, the drafting team proposes to organize a workshop on registration abuse policies  
1920 in conjunction with the ICANN meeting in Mexico City. The Working Group should review and  
1921 take into account the discussions and recommendations, if any, from this workshop in its  
1922 deliberations.

1923

1924 The working group established by this motion will work according to the process defined in  
1925 [Working Group Processes](#).

1926

1927

1928



1928 **Annex II - The Working Group and Attendance**

1929

1930 Following the adoption of the charter by the GNSO Council, a call for volunteers was launched.

1931 The following individuals are part of the RAP WG; all have submitted Statements of Interest (see

1932 [https://st.icann.org/reg-abuse-wg/index.cgi?statements\\_of\\_interest](https://st.icann.org/reg-abuse-wg/index.cgi?statements_of_interest)):

1933

Name	Affiliation <sup>50</sup>
Greg Aaron (Chair)	<a href="#">RySG</a>
Mike Rodenbaugh (Council Liaison)	CBUC
James Bladel	<a href="#">RrSG</a>
Olga Cavalli	NCA
Zahid Jamil	CBUC
Beau Brendler	ALAC
Jeff Neuman	<a href="#">RySG</a>
Nacho Amadoz	<a href="#">RySG</a>
Philip Corwin	CBUC
Martin Sutton	CBUC
Richard Tindal	<a href="#">RrSG</a>
Greg Ogorek	<a href="#">CBUC</a>
Faisal Shah	IPC
Roland Perry	Individual
Paul Stahura	<a href="#">RrSG</a>
Jaime Echeverry Gomez	<a href="#">RrSG</a>
Li Guanghao	<a href="#">Individual</a>
Mike O'Connor	CBUC
Gretchen Olive	<a href="#">RrSG</a>
Berry Cobb	<a href="#">CBUC</a>
Jeff Eckhaus	<a href="#">RrSG</a>
Robert Hutchinson	<a href="#">CBUC</a>
Andy Steingruebl	<a href="#">Individual</a>

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**Deleted:**

<sup>50</sup> [RySG = Registry Stakeholdergroup](#), [RrSG = Registrar Stakeholdergroup](#), [CBUC = Commercial and Business Users Constituency](#), [NCA = Nominating Committee Appointee](#), [ALAC = At Large Advisory Committee](#), [IPC = Intellectual Property Constituency](#), [SSAC = Security and Stability Advisory Committee](#), [NCUC = Non-Commercial Users Constituency](#)

Jeremy Hitchcock	SSAC
Patrick Kane	<a href="#">RySG</a>
George Kirikos <sup>51</sup>	CBUC
Michael Young	<a href="#">RySG</a>
Rod Rasmussen	Individual
Edward Nunes	NCUC
Frederick Felman	IPC
Evan Leibovitch	ALAC
Caleb Queern	CBUC
Avri Doria	<a href="#">NCUC</a>
Chuck Gomes (GNSO Chair)	<a href="#">RySG</a>

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1939

[Include attendance sheet]

<sup>51</sup> Left the Working Group on [insert date]

1939 **Annex III – Uniformity of Contracts: Additional**

1940 **Background Materials**

1941

1942

1943 **Registry Agreement (RA) Dispersion:**

1944

1945 Refer to the GNSO Issues Report on Registration Abuse Policies

1946 Section 4 - Provisions in Registry Agreements relating to abuse

1947 Pages 11 - 29

1948 [http://gnso.icann.org/files/gnso/issues/registration-abuse/gnso-issues-report-registration-](http://gnso.icann.org/files/gnso/issues/registration-abuse/gnso-issues-report-registration-abuse-policies-29oct08.pdf)  
1949 [abuse-policies-29oct08.pdf](http://gnso.icann.org/files/gnso/issues/registration-abuse/gnso-issues-report-registration-abuse-policies-29oct08.pdf)

1950

1951 **Registry Registrar Agreement (RRA) Dispersion:**

1952

1953 Refer to the GNSO Issues Report on Registration Abuse Policies

1954 Section 4 - Provisions in Registry Agreements relating to abuse

1955 Pages 11 - 29

1956 [http://gnso.icann.org/files/gnso/issues/registration-abuse/gnso-issues-report-registration-](http://gnso.icann.org/files/gnso/issues/registration-abuse/gnso-issues-report-registration-abuse-policies-29oct08.pdf)  
1957 [abuse-policies-29oct08.pdf](http://gnso.icann.org/files/gnso/issues/registration-abuse/gnso-issues-report-registration-abuse-policies-29oct08.pdf)

1958 RRA Templates are contained within the RA and hence the analysis is combined with appendix 1.

1959

1960

1961 **Registrar Accreditation Agreement (RAA) Dispersion:**

1962

1963 Because the RAA is template driven, a quick inventory of Registration Abuse Types (as defined  
1964 by the RAPWG) was conducted within the RAA template instead of a formal dispersion study.

1965 Two RAAs exist. A version from May 2001 existed until the most recent May 2009 version was

1966 released. With over 80+% adoption rates by Registrars to the May 2009 version, it was the only  
1967 RAA reviewed for dispersion.

1968

1969 <http://www.icann.org/en/registrars/agreements.html>

1970

1971 The May 2009 RAA does contain provisions that align with abuse types defined by the Working  
1972 Group. These include WhoIS, UDRP, and Privacy language. However, the latest RAA does not  
1973 contain any language relative to take-down, conduct & use, abuse definitions, and  
1974 indemnification to protect parties from taking action against abuse.

1975

1976 In parallel to the RAPWG, a Working Group to enhance the RAA is underway. It is the UoC's  
1977 intent to share any recommendations that appear to align with RAA WG actions. Based on the  
1978 latest presentations from ICANN Seoul, WG members have already identified gaps around  
1979 Malicious Conduct, Cybersquatting, Privacy/Proxy Services, and complete information disclosure  
1980 with Affiliates & Resellers.

1981

#### 1982 **Registration Agreement (ra) Dispersion:**

1983

1984 Refer to the GNSO Issues Report on Registration Abuse Policies  
1985 Section 5 - Provisions in Registration Agreements relating to abuse

1986 Pages 30 - 37

1987 <http://gnso.icann.org/files/gnso/issues/registration-abuse/gnso-issues-report-registration-abuse-policies-29oct08.pdf>

1988

#### 1990 **Registration Agreement (ra) Dispersion Study**

1991

1992 An evaluation of publicly available online agreements (Domain Registration Agreement,  
1993 Universal Terms of Service, etc.), from a representative sample of registrars was performed to  
1994 determine the degree of variation among agreement provisions relative to abuse. This

1995 evaluation, essentially, is an inventory of sections within the registration agreement. It attempts  
1996 to quantify “current state” for the purpose of providing a visual representation of dispersion.

1997  
1998 By review of the various registration agreements, sections began to naturally form in to forty or  
1999 so categories in which the registration agreements could be inventoried. For each of the 22  
2000 Registrars, from the representative pool, an Excel spreadsheet was used to track the binary  
2001 existence of each agreement category. If a category was found, the spreadsheet would be  
2002 incremented accordingly, and if the section was relevant to abuse, the corresponding  
2003 agreement language was pasted in to the spreadsheet. If no section was found, the category  
2004 requirement was not met, nor was it incremented.

2005  
2006 It should be noted, that this was not a compliance exercise, and as such, all results shared are  
2007 anonymous. The representative sample of registrars is based on % market share of held  
2008 registrations per webhosting.info as of June 2009. Within that sample, a general guiding  
2009 principle for selection of the 22 registrars was the top, middle, and bottom market participants.  
2010 This sample of 22 Registrars makes up approximately 59% of total market share. Additionally,  
2011 the sample also attempts to gain representation across varying countries.

2012  
2013 The actual spreadsheet and presentation reports can be found at the UoC Wiki Attachments  
2014 section:

2015 [https://st.icann.org/reg-abuse-wg/index.cgi?uniformity\\_sub\\_team](https://st.icann.org/reg-abuse-wg/index.cgi?uniformity_sub_team)

2016 RAPWG-UofC\_Dispersion\_Matrix\_09152009.xls

2017 RAPWG-UofC\_Report\_09152009.pdf

2018  
2019 The diagram here shows a screen shot of a Registration Agreement (ra) on the left. Each red  
2020 arrow points to a defined section within the agreement. On the right side of the diagram are the  
2021 categories that formed from the inventory. Those labeled in the blue boxes pertain to the abuse  
2022 types within scope of the RAPWG.

2023

**Domain Name Registration Agreement**

**1. AGREEMENT.** I, the Registrant, hereby agree to the applicable services to be provided hereunder. If you submit a registration request, you agree to the applicable services to be provided hereunder. I understand that I am entering into a contract with the Registrar for the registration of the domain name for the period of time specified in the applicable services. I understand that I am entering into a contract with the Registrar for the registration of the domain name for the period of time specified in the applicable services. I understand that I am entering into a contract with the Registrar for the registration of the domain name for the period of time specified in the applicable services.

**2. SELECTION OF A DOMAIN NAME.** I understand that I am responsible for selecting a domain name that is not the name of another person or entity, and that I am responsible for ensuring that the domain name is not prohibited or restricted by applicable law or regulation. I understand that I am responsible for ensuring that the domain name is not prohibited or restricted by applicable law or regulation.

**3. FEES.** I understand that I am responsible for paying the applicable fees for the registration of the domain name. I understand that I am responsible for paying the applicable fees for the registration of the domain name. I understand that I am responsible for paying the applicable fees for the registration of the domain name.

**4. TERM.** I understand that the registration of the domain name is for a term of time specified in the applicable services. I understand that I am responsible for renewing the registration of the domain name before the expiration of the term. I understand that I am responsible for renewing the registration of the domain name before the expiration of the term.

**5. MODIFICATIONS TO AGREEMENT.** I understand that the Registrar reserves the right to modify the applicable services at any time. I understand that I am responsible for reviewing the applicable services and for accepting or declining the applicable services. I understand that I am responsible for reviewing the applicable services and for accepting or declining the applicable services.

**6. MODIFICATIONS TO YOUR ACCOUNT.** I understand that the Registrar reserves the right to modify the applicable services at any time. I understand that I am responsible for reviewing the applicable services and for accepting or declining the applicable services. I understand that I am responsible for reviewing the applicable services and for accepting or declining the applicable services.

**Agreement Sections**

**RAP Categories**

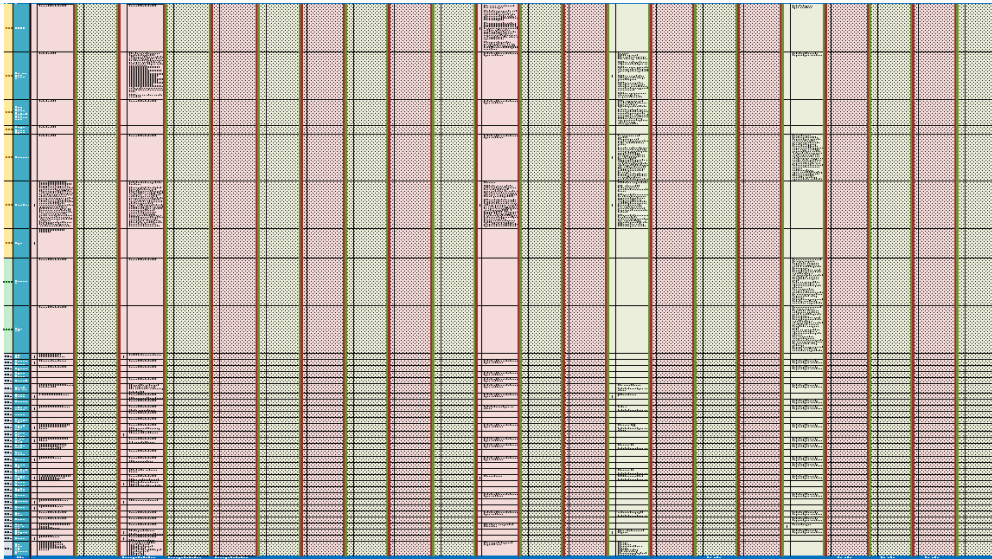
UDRP
Termination of Service
Restriction of Service / Takedown / Revocation
Registrar Transfer Dispute Resolution Policy
Contact Information
Conduct & Use
Spam
Renewals
Expiration

**Other Categories**

- 3rd Party
- Account Access
- Agency
- Agree to Agreement
- Breach
- Fees & Payment
- Force Majeure
- Guaranty
- Indemnification
- Infancy
- Language
- Law & Jurisdiction
- License to Registrar
- Limitation of Liability
- Modifications / Passage of T
- Non-waiver
- Notices / Announcements
- Ownership
- Parked Services
- Representation & Warranty
- Reseller or Licensor
- Right of Refusal
- Services / Responsibilities
- Severability
- Survival
- Terms / Parties
- Transfers
- Use of Information (privacy)
- User/Client Responsibilities, Representations, & Warrant
- Waiver
- Misc. Notes (flag not counte
- cc or gTLD Specific Sections

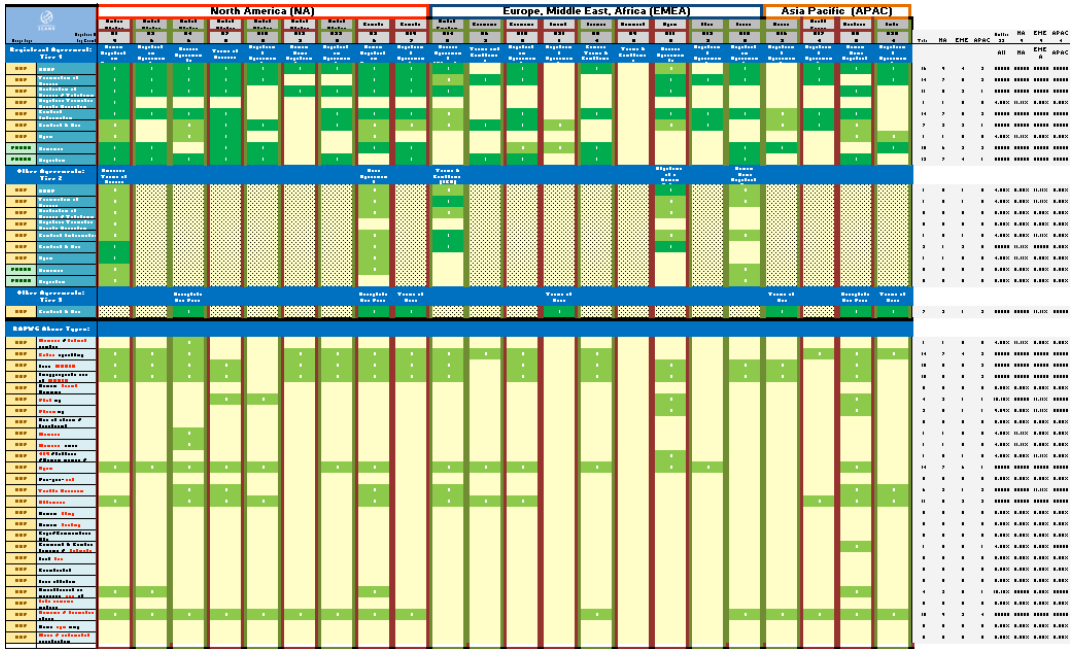
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2029

This screen shot represents the entire spreadsheet used to inventory Registration Agreement sections across the 22 Registrars. The zoom here is at 10%. This screen shot also includes those categories not relevant to abuse, and as such will not show pasted language from the agreement:

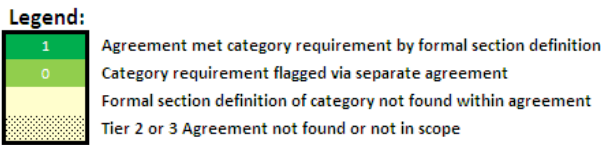


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This screen shot represents a summary view of the previous spreadsheet. The legend is listed below, but basically the variance between the green and yellow coloring depicts the dispersion found within agreements relative to abuse. The gray section to the right provides “hit rate” percentages of agreement sections by region and overall. Please refer the UoC Wiki for the actual reports to zoom in and gain a clearer understanding.



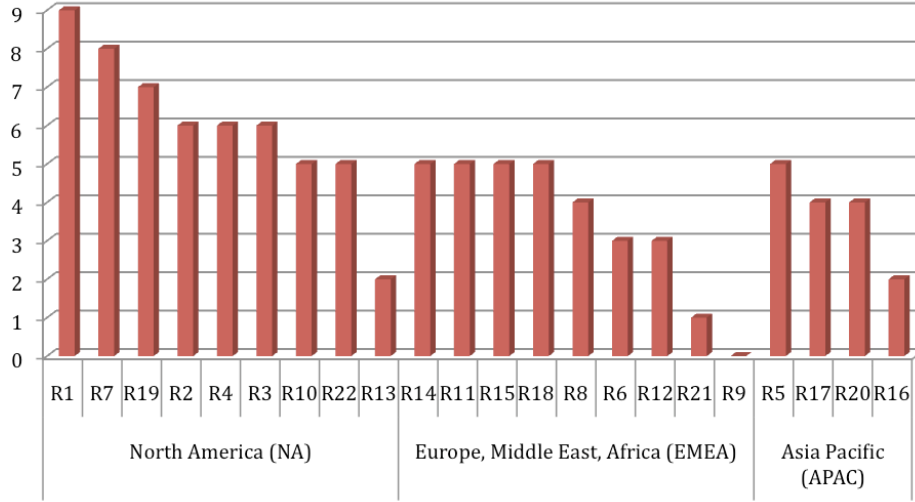
2037



2038

2039 | The chart below provides a different view at the dispersion across Registration Agreements. The  
 2040 Y Axis represents the number of categories where the agreement satisfied the formal section  
 2041 definition requirements while the X Axis represents registrars by region, sorted highest to least  
 2042 (left to right).

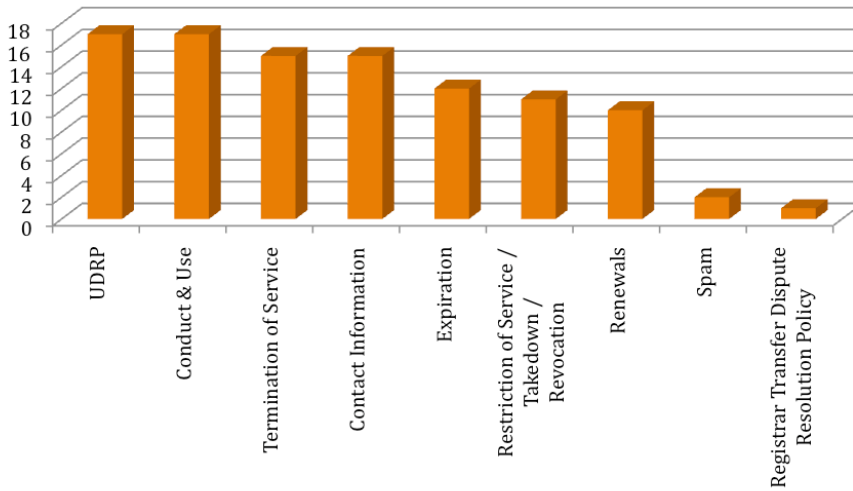




2043

2044

2045 This chart represents categories with the greatest achievement of section definition.



2046

2047

2048 **APB Example:**

2049

2050

Definition of Abuse

2051

a. Abuse is an action that: --- (source: **RAP – WG Definition: DRAFT Only!**)-----

2052

i. Causes actual and substantial harm, or is a material predicate of such harm, and

2053

2054

ii. Is illegal or illegitimate, or is otherwise considered contrary to the intention and design of a stated legitimate purpose, if such purpose is disclosed.

2055

2056

2057

b. Domain abuse creates security and stability issues for the registry, registrars and registrants, as well as for users of the Internet in general. *<Registry> defines abusive use as the wrong or excessive use of power, position or ability, and includes, without limitation, the following:* --- (source: **.info Domain Anti-Abuse Policy**)-----

2058

2059

2060

2061

i. Illegal or fraudulent actions;

2062

ii. Spam: The use of electronic messaging systems to send unsolicited bulk messages. The term applies to e-mail spam and similar abuses such as instant messaging spam, mobile messaging spam, and the spamming of Web sites and Internet forums. An example, for purposes of illustration, would be the use of email in denial-of-service attacks;

2063

2064

2065

2066

2067

iii. Phishing: The use of counterfeit Web pages that are designed to trick recipients into divulging sensitive data such as usernames, passwords, or financial data;

2068

2069

2070

iv. Pharming: The redirecting of unknowing users to fraudulent sites or services, typically through DNS hijacking or poisoning;

2071

2072

v. Willful distribution of malware: The dissemination of software designed to infiltrate or damage a computer system without the owner's informed consent.

2073

2074

2075

vi. Examples include, without limitation, computer viruses, worms, keyloggers, and Trojan horses;

2076

2077

vii. Fast flux hosting: Use of fast-flux techniques to disguise the location of Web sites or other Internet services, or to avoid detection and mitigation efforts, or to host illegal activities. Fast-flux techniques use DNS to frequently change the location on the Internet to which the domain name of an Internet host or name server resolves. Fast flux hosting may be used only with prior permission of Affilias;

2078

2079

2080

2081

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2083

viii. Botnet command and control: Services run on a domain name that are used to control a collection of compromised computers or "zombies," or to direct denial-of-service attacks (DDoS attacks);

2084

2085

2086

- 2087 ix. Distribution of child pornography; and  
2088 x. Illegal Access to Other Computers or Networks: Illegally accessing  
2089 computers, accounts, or networks belonging to another party, or  
2090 attempting to penetrate security measures of another individual's  
2091 system (often known as "hacking"). Also, any activity that might be used  
2092 as a precursor to an attempted system penetration (e.g., port scan,  
2093 stealth scan, or other information gathering activity).  
2094

2095 Indemnification - --- (source: [.info Domain Anti-Abuse Policy & .org RRA - 3.6](#)  
2096 [Additional Requirements for Registration Agreement/3.65](#))-----

- 2097 a. Pursuant to the RRA, <Registry> reserves the right to deny, cancel or transfer  
2098 any registration or transaction, or place any domain name(s) on registry lock,  
2099 hold or similar status, that it deems necessary, in its discretion; (1) to protect  
2100 the integrity and stability of the registry; (2) to comply with any applicable laws,  
2101 government rules or requirements, requests of law enforcement, or any dispute  
2102 resolution process; (3) to avoid any liability, civil or criminal, on the part of  
2103 <Registry>, as well as its affiliates, subsidiaries, officers, directors, and  
2104 employees; (4) per the terms of the registration agreement or (5) to correct  
2105 mistakes made by <Registry> or any Registrar in connection with a domain  
2106 name registration. <Registry> also reserves the right to place upon registry lock,  
2107 hold or similar status a domain name during resolution of a dispute. Abusive  
2108 uses, as defined above, undertaken with respect to <TLD> domain names shall  
2109 give rise to the right of <Registry> to take such actions under RRA in its sole  
2110 discretion.  
2111

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<b>Addressing use of Stolen Identity Credentials</b>		
[Placeholder for now]		
Idea – regular dissemination of best practices for identifying stolen identities		
Idea – provide policy framework to ALLOW information sharing between registrars on fraudulent domain registrations and registration attempts.		
Idea – create information sharing clearinghouse to facilitate information sharing between registrars (and resellers) on fraudulent domain registrations and registration attempts. Data elements could include some aspects of stolen identity credentials.		
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