

# Domain Name Supporting Organization

# **Preliminary Report**

of the Names Council's

# **WHOIS Task Force**

to be presented at

# The ICANN Meeting In Accra (Ghana)

March 10-14, 2002

NOTE: THIS DOCUMENT IS THE CURRENT STATE OF A WORK IN PROGRESS, AND MAY NOT REPRESENT THE TASK FORCE'S FINAL FINDINGS.

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## I. Introduction

By Marilyn Cade, Tony Harris, Tim Denton, and YJ Park (Business, ISP, Registrars, and Non-Commercial Constituencies)

#### A Preface

The WHOIS Task Force (WHOIS TF) announces our Preliminary Report, as an update to the Domain Name Supporting Organization Names Council and General Assembly, and the broad Internet community.

The Preliminary Report is a "work in progress" which serves as a status report and update on the work of the WHOIS Task Force of the Domain Name Supporting Organization (DNSO). The purpose of our preliminary report is to provide initial information to the community on the WHOIS Survey and the preliminary findings of the Task Force, focused in this Preliminary Report on the tabulated quantitative responses to the WHOIS Survey. Although this is a preliminary report and is incomplete in many ways, we are also forwarding an advisory of the availability of the preliminary report to the ASO and PSO. The draft Preliminary Report will be posted to the ICANN site following the Ghana meeting.<sup>1</sup> The Preliminary Report is a "work in progress" and will be enhanced and built on during a series of updates, culminating in a Final Report, which is targeted for publication in late May to very early June, for community feedback and further comment. This document is primarily focused on the quantitative responses; further updates will provide further elaboration on the Task Force's further analysis of the narrative responses, and whether they signify disparities with the quantitative responses, and an analysis of question 20's narrative responses. In addition, later versions will include preliminary Draft Final Conclusions and Recommendations, published for community feedback so that public comment by the community can be taken into consideration in the development of the final report to the NC and to the Board.

The WHOIS Survey is one work product of the WHOIS Task Force, and has been its primary focus for the past several months, since the conclusion of the survey. The Task Force mission is described below.

In the interim, it is available at < <a href="http://does-not-exist.org/whois/">http://does-not-exist.org/whois/</a>>.

#### **Limitations of the Survey**

nc-whois / Ghana meetings

It is important to ensure that there is clarity on what the survey was intended to accomplish and to acknowledge its limitations. The survey was intended to get as much input as possible from users, providers and other groups who use WHOIS and who would respond to a web based survey. In no way should this survey be considered statistically valid; and that was not its intent.

The original members of the TF worked hard to develop a broad survey; we did not employ the assistance of a professional survey team for a variety of reasons, including the purpose of our outreach. The survey was intended as a "snapshot" in time which could be used as input along with other mechanisms for input and consultation which the TF may undertake.

In hindsight, with the benefit from weeks of reading hundreds of narrative responses to surveys, and examining whether the narrative responses are consistent with the quantitative responses, and searching for trends, anomalies, and other useful observations, it is evident that some of the questions and choices for answers contained in the survey could have been designed better.

For example, question 5 asks about the purposes of WHOIS, but fails to offer "technical problems" as a possible option in the response. There are other illustrations, and these limitations are being identified and documented; some are discussed in this version of the report in more detail in the section by section analysis.

#### Status of the Analysis

The Task Force is finalizing a work plan which will complete quantitative analysis first, with a follow on validation of a representative group of responses to those questions where a significant number of narrative responses were received. This preliminary analysis of narrative responses will be expanded to the full set of responses, as the data indicates necessary. At present, from the analysis completed by the members of the TF, it appears that the narrative responses are unlikely to change the key findings and messages supported by the quantitative responses. However, the TF plans to validate those assumptions and will be issuing interim updates as their work proceeds in the analysis of narrative responses.

#### **Key Example**

This report includes one area, as an illustration, where the Task Force feels generally comfortable with issuing a preliminary finding. This is described in Section IV, Resale/Marketing and Bulk Access to WHOIS Data. The preliminary report suggests a finding in this area, that respondents to the survey

greatly prefer opt—in third party data access policies, or prohibiting such access, over opt—out approaches, and unregulated third party access to data. A majority of the Task Force representatives have supported this preliminary finding. The Task Force offers this detailed example as an illustration of the intent of the scope of our work in other sections.

In addition to its original mission, the Task Force recently received an additional work referral from the Names Council related to the Verio appeal involving marketing uses of WHOIS data. In undertaking a further discussion regarding this referral, the Task Force discussed the applicability of the survey responses, and agreed that questions 16, and 17 are directly applicable to this referral.<sup>2</sup>

While the majority of the Task Force supports this finding, we note that all comments contained in this report are preliminary, and we do caution all readers again that our survey was not statistical, but should be viewed as a snapshot of the perspectives of those who chose to respond.

Note: The GA representative would like to emphasize that findings should not be considered worthless due to these caveats.

Obviously, only the final report will be a total picture, and we urge all readers to note that and to maintain an open mind about the final recommendations. One can take any piece of a puzzle and forecast an outcome; if the only puzzle pieces one is looking at are images of trees, the assumption might be that the puzzle is about a forest. If on the other hand, the pieces include parts of a castle, a forest, and a field, then one might realize that one is beholding a landscape. In short, the total picture, when the puzzle is assembled might look very different. Nevertheless, pieces of the puzzle are critically important in considering the whole.

We express our appreciation to the initial chair of the Task Force, Paul Kane, who shouldered a significant leadership role in launching the Task Force and it's initial work. We offer our thanks to several members whose "terms" have expired with the NC or GA, and therefore have moved on, to be replaced with new representatives of their respective entities. We also thank the ICANN staff for their administrative support and counsel during this initial work period. The work of the Task Force has been significantly enhanced through the volunteer leadership of the GA members of the Task Force, and a special word of appreciation is due to each of them. And, we thank those in the community who completed the survey.

We are pleased to present this preliminary picture to the community, and welcome your questions and

<sup>2</sup> http://www.dnso.org/clubpublic/council/Arc09/msg00061.html

comments, and we look forward to delivering further updates on our work in analyzing the survey results.

We look forward to receiving your comments on this Preliminary Report.

#### В History and Mission

The WHOIS Task Force of the DNSO grew out of the initial work of the .com/.net/.org WHOIS Committee convened by the ICANN staff to give advice on the implementation of WHOIS service for the .com/.net/.org domains as required under the Registrar agreement. The committee addressed implementing questions. The committee's work was concluded in April, 2001. The implementation of the committee's work included the establishment of a WHOIS Committee on domain-name-system policy, chaired by Paul Kane. This Preliminary report does not address the history of the creation of the TF further, since the archives include relevant postings which led to the establishment of the TF by the DNSO.

The Task Force was discussed and approved in the DNSO Names Council meeting, February 8,2001<sup>3</sup>. In summary, Paul Kane proposed that the DNSO set up a Task force to consider the policy issues arising from the ICANN WHOIS report. The Terms of Reference for the TF are provided in the archival materials posted at the DNSO web site.4

A paraphrased version of the terms of reference is: "To consult with the community with regard to establishing whether a review of any questions related to ICANN's WHOIS policy is due and if so to recommend a mechanism for such a review."

During the time it took for the ICANN staff to publish their report, members were also being identified by the Constituencies. The initial members of the TF were:

Paul Kane, Chair Y.J. Park, Non Commercial Axel aus der Muhlen, IPC Theresa Swinehart, BC Oscar Robles-Garay, ccTLD Antonio Harris, ISPCP

http://www.dnso.org/dnso/notes/20010208.Nctelecon-minutes.html

See <a href="http://www.dnso.org/clubpublic/nc-whois/Arc00/msg00193.html">http://www.dnso.org/clubpublic/nc-whois/Arc00/msg00193.html</a>, <a href="http://w whois/Arc00/msg00190.html>, and <a href="http://www.dnso.org/clubpublic/council/Arc04/msg00817.html">http://www.dnso.org/clubpublic/council/Arc04/msg00817.html</a>.

Miriam Sapiro, Registry Danny Younger, GA Chair

The membership of the task force was changed for various reasons, and at various points of time. A list of current task force members can be found in the end of this document.

From the beginning, to support their broad mission, the TF members were committed to gaining an understanding of how WHOIS affects users, and how the community is using it today, rather than relying on the perspectives of the members of the TF. They quickly came up with the concept of a survey, which would web based, and therefore, while not statistically valid, would provide a systematic "snapshot" of what those who chose to respond, cared about, who they were, and what their concerns and issues were.

The survey was developed and published in June, with one extension in responses. The survey closed in August, 2001.<sup>5</sup> 3035 responses were received. The details of the responses follow, along with a preliminary analysis.

# C Participation in the Survey

By Kristy McKee, Thomas Roessler, and Abel Wisman (General Assembly)

#### Question 1 – Categories of Respondents

In the very first question, participants were asked to classify themselves into one of several categories:

1. Which	n of the following terms best describes your status as a
respond	ent to this survey?
	Commercial business user

Non-commercial organization user
Governmental organization user
Individual or household user
Domain name registrar and/or registry
Internet access provider or network operator

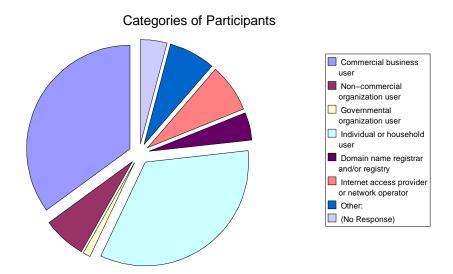
The questionnaire's English version is available online at <a href="http://does-not-exist.org/whois/whois-survey-en-10jun01.htm">http://does-not-exist.org/whois/whois-survey-en-10jun01.htm</a>.

Most of the text of the questionnaire is also included in-line with this report. The raw results of the survey as prepared by ICANN staff can be found online at <a href="http://does-not-exist.org/whois/whois-tabulations.html">http://does-not-exist.org/whois/whois-tabulations.html</a>.

□ Other:

Respondents were also asked (where applicable) what size their organization is. An overview over the categories of respondents can be found in the table below. The data is also represented in the pie chart below.

Category	#	%
Commercial business user	1063	35%
Non-commercial organization user	208	7%
Governmental organization user	35	1%
Individual or household user	1021	34%
Domain name registrar and/or registry	130	4%
Internet access provider or network operator	234	8%
Other:	222	7%
(No Response)	122	4%
Total Responses:	3035	100%



Clearly, commercial and individual/household users dominated the population of respondents to the survey.

#### Question 2 - Participation of Domain Name Holders

The second question of the survey asked whether participants were domain name registrants themselves:

2. Have you registered any domain names? ☐ yes ☐ no

(The question also asked for details, such as number and purpose of ccTLD and gTLD domain registrations. These parts of the question will be looked at in a later report.)

Question 2	yes	no	No resp.	Total	% yes	% no
commercial	973	81	9	1063	92%	8%
governmental	20	14	1	35	57%	40%
individual	730	279	12	1021	71%	27%
isp	207	22	5	234	88%	9%
non-commercial	177	29	2	208	85%	14%
not stated	20	4	98	122	16%	3%
other	156	59	7	222	70%	27%
registrar-registry	114	14	2	130	88%	11%
Grand total	2397	502	136	3035	79%	17%

Results vary strongly across categories of respondents: While, for instance, 92% of commercial respondents are domain name holders, only 71% of individual respondents, and 57% (with  $\sigma$  = 8%) of governmental respondents have registered any domain names. It is also interesting to note that 17% of those who answered the questionnaire did not register any domain names.

## Question 3 - Frequency of Use of WHOIS

Question 3 asked participants how frequently they use the WHOIS service themselves:

- 3. How often do you use the Whois service on average?
- □ never
- occasionally
- □ weekly
- once or twice a day
- many times a day

Question 3	hourly	daily	weekly	occasionally	never	not stated	Grand Total
commercial	183	184	290	374	31	1	1063
governmental	4	3	7	18	3		35
individual	72	131	260	509	45	4	1021
isp	109	58	42	22	3		234
non-commercial	32	32	66	69	7	2	208
not stated	1	4	5	13		99	122
other	40	27	82	58	13	2	222
registrar-registry	45	18	23	34	8	2	130
Grand Total	486	457	775	1097	110	110	3035

Question 3 (%)	% hourly	% daily	% weekly	% occ.	% never	% not stat.
commercial	17%	17%	27%	35%	3%	0%
governmental	11%	9%	20%	51%	9%	0%
individual	7%	13%	25%	50%	4%	0%
isp	47%	25%	18%	9%	1%	0%
non-commercial	15%	15%	32%	33%	3%	1%
not stated	1%	3%	4%	11%	0%	81%
other	18%	12%	37%	26%	6%	1%
registrar-registry	35%	14%	18%	26%	6%	2%
Total	16%	15%	26%	36%	4%	4%

It should be noted that results of this question once again vary strongly across categories of respondents. Clearly, among the participants of this survey, ISPs are the heaviest WHOIS users, followed by registrar/registry users, while governmental and individual respondents make the weakest use of the service. Also, 40% of the respondents said that they only use WHOIS occasionally, or never.

#### Question 4 - Use of WHOIS

Question 4 asked about respondents' use of the WHOIS system:

4. V	Which	of the	following	most	accura	ately (	describes	the	use c	of WH	OIS
tha	t is mo	ost imp	ortant to	you o	r your	orgar	nization:				

_	To determine if a specific domain name is unregistered/
	available?

- ☐ To find out the identity of a person or organization who is responsible for a domain name or web site I have encountered while using the Internet
- ☐ To support technical operations of ISPs or network administrators, including tracing sources of spam or denial of service attacks
- ☐ To identify the owner of a domain name for consumer protection or intellectual property protection purposes
- ☐ To gather names and contact information for marketing
- ☐ To support government law enforcement activities (other than intellectual property)
- ☐ Other (please briefly describe)

Multiple responses to this question were accepted.

Question 4	availability resp	availability responsibility		IP	marketing	law	other
Commercial	482	574	352	389	28	30	66
governmental	26	16	19	6		7	4
Individual	513	626	322	136	18	23	71
Isp	97	142	167	36	5	20	23
non-commercial	125	107	75	53	3	13	12
not stated	109	14	7	9	1	2	1
Other	140	97	49	117	8	12	31
Registrar-registry	48	73	50	34	5	7	11
Grand Total	110	457	486	110	1097	775	776

The percentages in the following table use the total population of respondents for any given category as the 100% reference totality. Since multiple responses were accepted, percentages will generally add up to more than 100%. In each row, the dominant use of WHOIS is marked in boldface.

Question 4 (percentages)	availability	responsibility	technical	IP	marketing	law	other	Grand total
Commercial	45%	54%	33%	37%	3%	3%	6%	180.71%
governmental	74%	46%	54%	17%	0%	20%	11%	222.86%
Individual	50%	61%	32%	13%	2%	2%	7%	167.38%
Isp	41%	61%	71%	15%	2%	9%	10%	209.40%
non-commercial	60%	51%	36%	25%	1%	6%	6%	186.54%
not stated	89%	11%	6%	7%	1%	2%	1%	117.21%
Other	63%	44%	22%	53%	4%	5%	14%	204.50%
Registrar-registry	37%	56%	38%	26%	4%	5%	8%	175.38%
Grand Total	51%	54%	34%	26%	2%	4%	7%	178.29%

The dominant use of the WHOIS system among respondents is, in the commercial, individual, and registrar—registry categories, "to find out the identity of a person or organization who is responsible for a domain name or web site". Governmental respondents generally mention WHOIS as a means to find out about the availability of a domain, as do non—commercial, "not stated", and "other" respondents. ISP respondents mostly use WHOIS "to support technical operations of ISPs or network administrators". It's worth noting that non—IP law enforcement use is most frequently mentioned by governmental respondents (20%), followed by ISPs (9%) and non—commercials (6%). Also, almost 90% of respondents which did not assign any category to themselves mention "availability" as their most important use of WHOIS.

#### D Statistical Considerations

By Thomas Roessler (General Assembly)

The multiple choice questions were evaluated for the full set of 3035 submitted responses. This analysis

is also broken down by respondent's category (as given in question 1).

The number of participant per category of respondent (question 1) is, in particular, important since they give a rough indication of the precision of the numbers in this report. In the table below, we give standard deviations ( $\sigma$ ) to be expected for various results, when derived from various categories of respondents.<sup>6</sup> Note, however, that for some categories of respondents the total number of possible respondents is of the same (or a similar) order of magnitude as the number of respondents observed with this survey: For instance, there are about  $100^7$  *active* registrars accredited with ICANN, 243 active ccTLD registries, and 8 active gTLD registries.<sup>8</sup> Also, to give an indication of the applicable scales, there are 189 member states to the United Nations<sup>9</sup>, and 35 governments participate in the GAC. With other categories, the number of respondents is small when compared with the total population of these categories.

From a (possibly simplistic) statistical point of view, the best results can be expected from the commercial business user and individual user categories, where we have standard deviations between 1% and 2%. Statistical significance is worst with the governmental users category. We shall occasionally mention error margins explicitly where they are important in order to correctly interpret the result of a particular question.

Category	#	10%	20%	30%	40%	50%
Commercial business user	1063	1%	1%	1%	2%	2%
Non-commercial organization user	208	2%	3%	3%	3%	3%
Governmental organization user	35	5%	7%	8%	8%	8%
Individual or household user	1021	1%	1%	1%	2%	2%
Domain name registrar and/or registry	130	3%	4%	4%	4%	4%
Internet access provider or network operator	234	2%	3%	3%	3%	3%
Other	222	2%	3%	3%	3%	3%
(No Response)	122	3%	4%	4%	4%	5%

Approximating the binomial distribution by a Gaussian normal distribution, it can be assumed that a result has a probability of about 68.3% to lie within a  $\pm 1\sigma$  margin around the real value, and with a probability of 95% it can be assumed that a result lies within a  $\pm 1.96\sigma$  margin around the true value.

<sup>6</sup> The standard deviations are the ones of a binomial distribution, which models answers to simple yes—no questions. In those categories where the total population is of a similar order of magnitude as the number of respondents, a binomial distribution is not the correct model, and yields overestimates of the standard deviations. This will be revisited more deeply in a later version of the Task Force's report.

As of March 10, 2002 <a href="http://www.icann.org/registrars/accredited-list.html">http://www.icann.org/registrars/accredited-list.html</a> lists 151 accredited registrars.

<sup>8</sup> Estimates courtesy of Miriam Sapiro, Verisign.

See < <a href="http://www.un.org/Overview/unmember.html">http://www.un.org/Overview/unmember.html</a>>.

It should also be noted that, unless stated otherwise, percentages given refer only to those who elected to answer a particular question, but not to the entire set of respondents from any given category.

#### E Method of Evaluation of Free-Form Questions

By Thomas Roessler (General Assembly)

The free-form part of questions 8.1, 10, and 17.d were evaluated manually for a pseudo-random set of 303 responses. <sup>10</sup> The selected set of 303 responses contained 10% of the responses received in each category. An analysis of the full set of answers to these and other free-form questions may be undertaken after the Ghana meeting.

Generally, in order to derive some statistics from free-form questions, the members of the task force agreed upon "baskets" which were used to classify responses.

During the course of the investigation of these free—form questions, it turned out that only 25 out of the 303 responses investigated had a free—form answer to question 8.1, and that 9 of these 25 responses did not fit into any baskets agreed upon. For this reason, no evaluation of the free—form part of question 8.1 is found in this report. The question will be revisited at a later point of time.

<sup>10</sup> http://www.dnso.org/dnso/notes/20011221.Whois-survey-result.doc

# II. User Expectation and Experience (qq. 5-10)

By Steve Metalitz, Laurence Djolakian, and Ken Stubbs (Intellectual Property and Registrars Constituencies)

# A Questions Asked

5. Wha	t should b	be the purpose of the Whois service? (place in order
1–7 wh	ere 1 is n	nost important):
Rank:		to identify the availability of a particular name in
		which someone is interested
Rank:	_	to determine if there are similar names already in use
Rank:	_	to identify and verify online merchants
Rank:		to identify online infringes for enforcement of
		intellectual property rights
Rank:		to source unsolicited email
Rank:		to identify contacts in the investigation of illegal
		activity
Rank:	_	other (specify):
6. Whic	ch of the f	following best describes your attitude towards access
to the c	lata conta	ained in the Whois service?
	I am mo	ost concerned about protecting the privacy of domain
	name re	egistrants
	I am mo	ost concerned about effective identification of who is
	behind	a specific domain for consumer protection or
	intellect	rual property protection purposes
	I am mo	ost concerned about ensuring that Whois supports
	the reso	olution of technical problems on the Internet
	No opin	ion
	Other	
7. Have	e you eve	r been harmed or inconvenienced because the Whois
data yo	u receive	ed was inaccurate, incomplete, or out of date?
	Yes, I h	ave experienced inaccurate data.

	No, the data has been accurate
What p	ercentage of the Whois records you relied on proved to be
inaccur	ate, incomplete, or out of date on average:
	Less than 5 percent
	5 – 25 percent
	25 – 50 percent
	More than 50 percent
	priate, please describe the harm or inconvenience caused by ccurate data:
How do	you think an improvement can best be achieved?
	ently, Whois records in .com, .net, and .org are composed of owing data elements:
	A. The name of the second–level domain being registered and
	the top-level domain it is under;
	B. The IP addresses of the primary and secondary name
	servers for the registered domain;
	C. The host names of the name servers;
	D. The identity of Registrar;
	E. The date of the original registration;
	F. The expiration date of the registration;
	G. The name and postal address of the registrant;
	H. The name, postal address, e-mail address, voice
	telephone number, and (where available) fax number of the
	technical contact for the SLD; and
	I. The name, postal address, e-mail address, voice telephone
	number, and (where available) fax number of the
	administrative contact for the SLD.
Would	you describe these data elements as
	☐ Adequate for your purposes
	☐ Inadequate for your purposes
	necessary for your purposes

-	•	what other data elements would you lic confidence in Internet activities?
-	ed "Unnecessary, uppressed from pu	" what other data elements would ublic disclosure?
	e which of the data	a elements listed in A–I above are, ial, or desirable:
A. The name of the level domain it is used essential		lomain being registered and the top-  valueless
B. The IP addres registered domain	•	nd secondary name servers for the
□ essential	☐ desirable	□ valueless
C. The domain no	ames of the name	servers;
D. The identity of	Registrar;	
□ essential	☐ desirable	□ valueless
E. The date of the	e original registrat	ion;
□ essential	☐ desirable	□ valueless
F. The expiration	date of the regist	ration;
□ essential	☐ desirable	□ valueless
G. The name and	d postal address o	f the registrant;
essential	☐ desirable	□ valueless
•		ail address, voice telephone number of the technical contact for
□ essential	☐ desirable	□ valueless

I. The name, postal address, e-mail address, voice telephone number,										
and (w	here ava	ilable) fax	numbe	r of the a	dministra	tive conta	ct for the	Э		
SLD.										
□ esse	ential	☐ desi	irable	☐ valu	ieless					
Search	ability									
10. Sho	ould the p	oublicly a	ccessible	e WHOIS	databas	e allow fo	r searche	es		
on data	a elemen	ts other t	han dom	ain name	?					
	Yes									
	No									
If you	nlagge er	agaify fra	m fields	A Labour	that you	ı think oh	ould bo			
		-	II licius i	A–I above	tilat you	ı (IIIIK 511	ould be			
	as searc	•								
□A	□В	□ C	□ D	□ E	ΩF	□G	□Н			
Should	other en	hanceme	ents to se	earchabili	tv (e.a E	Boolean s	earching	ı		
		ings) be			., (e.g., -			'		
	Yes	90, 00	p. 0 1. a 0 a							
	No									
_		ould the	ooot ooo	opiotod	ith augh :	onhoncon	aanta ka			
		ould trie	cost ass	ociated w	iiii Such (	ennancen	nents be			
paid for	r?									

# B Methodology of Evaluation

#### Question 5

Question 5 asked respondents to assign ranks to various uses the WHOIS system possibly should have. In this report, we'll only present the raw tabulation data received from ICANN staff. It would certainly be possible to produce more interesting results by investigating the full set of answers to this question with various kinds of statistical approaches. The task force will investigate these possibilities after ICANN's Ghana meetings. Also, the "other" purposes mentioned by participants have not yet been investigated by the task force. (TBD: Laurence Djolakian has done something on this; the baskets seem to be still missing. Results are there, though.)

#### Question 7

The free-form part of this question was not yet evaluated.

#### Question 8.1

For question 8.1, a set of baskets was defined in order to perform an analysis of free—form responses on the set of 303 questionnaires described in the introduction to this document. However, this set contained only 25 free—form answers. Out of these 25, 9 did not find into any baskets the members of the task force had agreed upon. No quantitative results of the evaluation of this question shall be presented in this report since (1) the statistical validity of any results would be rather questionable, and (2) the basketing criteria will have to be revisited by the task force.

For reference purposes, we list the baskets which had been agreed upon:

- no answer
- additional contact information
- abuse contact
- IP ranges
- reverse domain look-up
- last active contact with registrar
- identity of true owner
- details of prior owners
- · availability for sale

However, it should be emphasized that these baskets have not proven to be a suitable tool for the analysis of responses to this question, and will be subject to further discussion among the task force's members.

#### Question 8.2

Question 8.2 was not yet investigated by the members of the task force. It should, however, be noted that this question (although supposed to be answered in free—form) partially overlaps with question 9, where respondents can assign levels such as "essential", "desirable", or "valueless" to individual data elements currently contained in the WHOIS database.

Question 8.2 will be investigated in the course of the post-Ghana work of the Task Force.

#### Question 10

The free-form part of question 10 was investigated on the subset of 303 questionnaires described in the introduction to this document. In order to classify responses, the members of the task force agreed upon the following set of "baskets":

- · no answer
- · registrar or registry
- · registrant
- · searcher
- donation
- · governmental funding
- ICANN

Note that there is a well-defined mapping from the baskets defined here onto the choices given to respondents in question 15, which also deals with funding issues.

## C Results of Evaluation

#### By-category analysis of multiple-choice questions

#### Question 5

Summary of rankings of availability of a domain name as the purpose of WHOIS:

Question 5.a	1	2	3	4	5	6	7	Total
commercial	487	165	106	63	70	82	35	1008
governmental	3	5	5	3	3	4	3	26
individual	452	127	106	71	95	67	43	961
isp	102	35	22	24	22	11	12	228
non-commercial	76	19	27	24	28	9	7	190
not stated	13	7	1	1	1	1	2	26
other	80	29	26	26	17	17	8	203
registrar-registry	71	13	9	12	5	3	7	120

Summary of rankings of finding out if similar domain names are already in use:

Question 5.b	1	2	3	4	5	6	7	Total
commercial	70	286	207	157	130	105	35	990
governmental	2	4	3	4	7	4	3	27
individual	66	284	149	119	145	146	40	949
isp	15	54	40	36	30	32	15	222
non-commercial	11	41	27	31	33	30	9	182
not stated	4	9	5		3	3	2	26
other	12	47	42	29	30	26	7	193
registrar-registry	9	47	15	13	13	12	7	116

Summary of rankings of identification and verification of online merchants:

Question 5.c	1	2	3	4	5	6	7	Total
commercial	76	107	171	205	190	157	47	953
governmental	1		8	8	7	2	4	30
individual	102	105	203	193	156	123	42	924
isp	17	28	29	35	40	41	24	214
non-commercial	15	21	31	28	26	28	27	176
not stated	2	1	5	4	7	5		24
other	19	17	39	32	43	28	7	185
registrar-registry	8	13	26	17	11	18	15	108

Summary of rankings of identifying online infringers for enforcement of intellectual property rights:

Question 5.d	1	2	3	4	5	6	7	Total
commercial	186	137	166	184	150	92	42	957
governmental	6	5	7	2	3	3	5	31
individual	63	91	152	204	163	149	81	903
isp	14	27	38	42	40	26	26	213
non-commercial	22	35	23	30	24	23	19	176
not stated	3		8	7	2	1	5	26
other	61	32	21	31	24	10	12	191
registrar-registry	13	12	24	24	17	13	10	113

Summary of rankings of sourcing unsolicited e-mail:

Question 5.e	1	2	3	4	5	6	7	Total
commercial	83	104	135	129	160	192	128	931
governmental	6	7	2	5	4	3	5	32
individual	143	183	162	105	102	101	130	926
isp	37	29	52	28	29	21	22	218
non-commercial	27	30	44	23	19	19	19	181
not stated	1	3	5	6	3	6	2	26
other	22	19	25	18	32	46	18	180
registrar-registry	8	7	11	15	23	19	25	108

Summary of rankings of identifying contacts in the investigation of illegal activity:

Question 5.f	1	2	3	4	5	6	7	Total
commercial	137	155	157	158	136	152	56	951
governmental	11	5	5	3		4	3	31
individual	145	135	134	143	139	168	48	912
isp	46	41	28	30	28	33	11	217
non-commercial	40	24	22	22	27	34	10	179
not stated	3	4	4	5	3	6	1	26
other	28	48	22	43	19	18	11	189
registrar-registry	13	19	11	17	22	20	10	112

Summary of rankings of other purposes:

Question 5.g	1	2	3	4	5	6	7	Total
commercial	110	34	26	17	16	32	167	402
governmental	6	2	1				4	13
individual	88	28	14	18	29	42	199	418
isp	38	13	4	4	2	8	29	98
non-commercial	33	11	8	4	6	4	20	86
not stated	3	1			1		7	12
other	28	7	13	1	3	8	46	106
registrar-registry	17	5	6	2	4	3	16	53

The respondents were asked what the purpose of the « WHOIS » should be. It clearly appears that for all categories of respondents the purpose should be to check whether a domain name is available, closely followed by the search for similar domain names. Individuals particularly support the need to identify on—line merchants and to source unsolicited commercial communications. In addition, many respondents amongst all categories (not only commercial and governments but also non—commercials, and "others") stated that the purpose should also be to identify on—line intellectual property infringements. In the free text responses, the majority of respondents underlined the following elements: the need to know with whom they are dealing with, the ability to access technical contacts, to know the names owned by a company, to deter irresponsible behavior and track spammers, to identify suspicious IP addresses.

Note: The gTLD and GA representatives would like to emphasize that the results from this question need considerably deeper analysis, which is not possible based on the data presently available to the Task Force.

#### Question 6

In contrast to the preceding questions, question 6 asked respondents to choose among three statements in identifying the issue about which they were "most concerned" with respect to Whois data.

Question 6	Privacy	Int. Prop.	technical	No op.	Other	Total
commercial	165	543	258	34	52	1052
governmental	4	13	13	1	4	35
individual	295	347	250	58	59	1009
isp	27	49	140	7	9	232
non-commercial	33	89	68	11	5	206
not stated	5	16	1	2	2	26
other	15	136	29	11	26	217
registrar-registry	32	42	34	11	8	127
Total	576	1235	793	135	165	2904

Question 6 (%)	Privacy	Int. Prop.	technical	No op.	Other
commercial	16%	52%	25%	3%	5%
governmental	11%	37%	37%	3%	11%
individual	29%	34%	25%	6%	6%
isp	12%	21%	60%	3%	4%
non-commercial	16%	43%	33%	5%	2%
not stated	19%	62%	4%	8%	8%
other	7%	63%	13%	5%	12%
registrar-registry	25%	33%	27%	9%	6%
Min	7%	21%	4%	3%	2%
Max	29%	63%	60%	9%	12%
Total	20%	43%	27%	5%	6%

A plurality of respondents (43% of the total) agreed that they were "most concerned about effective identification of who is behind a specific domain for consumer protection or intellectual property protection purposes." This was the leading choice among all categories of respondents, except among ISPs, 60% of whom felt that "ensuring that Whois supports the resolution of technical problems on the Internet" was the most important concern, and among governmental respondents, for whom the technical problems response tied with the effective identification response. "Protecting the privacy of domain name registrants" was not identified as the main concern of any group of respondents, and was chosen less often than "effective identification" by every group, although among respondents who identified themselves as individuals the privacy concern (29%) placed a close second to effective identification (34%). Overall, about 6% of respondents rejected the three choices and identified an "other" "main concern" regarding Whois data; these responses have not yet been reviewed.

Note: The gTLD constituency and the GA would like to see a clearer representation of the roles of both technical concerns and privacy issues which account for 27% and 20% of responses, respectively.

#### Question 7

Question 7	yes	no	Total	% yes	% no
commercial	513	516	1029	50%	50%
governmental	12	18	30	40%	60%
individual	317	674	991	32%	68%
isp	134	98	232	58%	42%
non-commercial	94	108	202	47%	53%
not stated	12	15	27	44%	56%
other	118	93	211	56%	44%
registrar-registry	67	59	126	53%	47%
Min				32%	42%
Max				58%	68%
Total	1267	1581	2848	44%	56%

Question 7 asked whether respondents had been harmed or inconvenienced by inaccurate, incomplete, or out of date Whois data.

44% of respondents said they had experienced this and 56% had not.

Question 7	# < 5%	# [5%, 25%]	# > 50%	Total	
commercial	529	262	82	53	926
governmental	14	7	1	1	23
individual	553	166	54	44	817
isp	128	71	15	5	219
non-commercial	100	58	13	6	177
not stated	15	5	3	3	26
other	99	68	21	11	199
registrar-registry	57	33	13	10	113
Total	1495	670	202	133	2500

Question 7 (%)	% < 5% %	% [5%, 25%] % [2	25%, 50%	% > 50%
commercial	57%	28%	9%	6%
governmental	61%	30%	4%	4%
individual	68%	20%	7%	5%
isp	58%	32%	7%	2%
non-commercial	56%	33%	7%	3%
not stated	58%	19%	12%	12%
other	50%	34%	11%	6%
registrar-registry	50%	29%	12%	9%
Min	50%	19%	4%	2%
Max	68%	34%	12%	12%
Total	60%	27%	8%	5%

Similarly, more than half of the respondents thought that less than 5% of the Whois records they had relied upon had been inaccurate, while 27% estimated inaccurate records to be in the 5–25% range, and

about 8% thought that more than one-quarter of the records were inaccurate. Individual respondents were most likely to report very low estimates (68% in this category chose "under 5%"), while registrars/registries were most likely to report the highest estimates (21% of these respondents thought that 25% or more of the records were inaccurate). The free-text responses, in which respondents were asked to describe the harm or inconvenience caused by the inaccurate data and to state how they thought an improvement in accuracy might best be achieved, have not yet been analyzed.

#### Question 8

Question 8	Adequate	Inadequate	Unnec.	Total	%adequate	%inadeq.	%unnec.
commercial	770	146	129	1045	74%	14%	12%
governmental	27	5	3	35	77%	14%	9%
individual	663	74	254	991	67%	7%	26%
isp	196	19	18	233	84%	8%	8%
non-commercial	142	32	28	202	70%	16%	14%
not stated	24	3		27	89%	11%	0%
other	155	38	22	215	72%	18%	10%
registrar-registry	99	11	18	128	77%	9%	14%
Min					67%	7%	0%
Max					89%	18%	26%
Total	2076	328	472	2876	72%	11%	16%

This question listed the data elements currently provided by Whois with regard to registrations in .com, .net and .org, and asked whether respondents considered these adequate, inadequate, or unnecessary for their purposes. A strong majority of respondents in every category (ranging from 67% to 89%) stated that the current list of data elements is adequate. Overall, about 11% of respondents thought that additional data elements should be provided in Whois, while approximately 16% considered some of the elements unnecessary. These data strongly suggest an overall high level of satisfaction among these respondents that Whois in the original gTLD environment collects and makes available the right kinds of data. The level of satisfaction did vary somewhat across categories, however, with 16% of non–commercial respondents believing that more data elements should be included, while 26% of individual respondents thought some data elements were unnecessary.

Questions 8.1 and 8.2 invited respondents to identify specific data elements they would like to see added to, or subtracted from, those currently made available to the public in Whois. As noted above, systematic analysis of these responses has just begun, and no summary can be provided at this point.

#### Question 9

Building on the general attitudes expressed in response to question 8, this question sought to elicit more specific answers about the perceived value of each specific data element within the com/net/org Whois. Respondents were asked to label each data element as essential, desirable, or valueless.

Question 9A			Ī				
Name of the SLD	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	211	773	50	1034	20%	75%	5%
governmental	8	26		34	24%	76%	0%
individual	258	696	40	994	26%	70%	4%
isp	25	203	5	233	11%	87%	2%
non-commercial	44	149	9	202	22%	74%	4%
not stated	5	22	1	28	18%	79%	4%
other	50	154	7	211	24%	73%	3%
registrar-registry	21	101	4	126	17%	80%	3%
Min			-		11%	70%	0%
Max					26%	87%	5%

Question 9B	Ī		Ī				
Nameserver addr.	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	331	628	76	1035	32%	61%	7%
governmental	8	25	2	35	23%	71%	6%
individual	284	614	90	988	29%	62%	9%
isp	43	179	12	234	18%	76%	5%
non-commercial	53	134	14	201	26%	67%	7%
not stated	9	19		28	32%	68%	0%
other	80	117	17	214	37%	55%	8%
registrar-registry	29	87	12	128	23%	68%	9%
Min					18%	55%	0%
Max					37%	76%	9%

Question 9C			The state of the s				
Dom.names of NS	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	400	559	80	1039	38%	54%	8%
governmental	12	20	2	34	35%	59%	6%
individual	384	514	92	990	39%	52%	9%
isp	78	144	12	234	33%	62%	5%
non-commercial	79	113	9	201	39%	56%	4%
not stated	4	22	1	27	15%	81%	4%
other	80	115	19	214	37%	54%	9%
registrar-registry	34	87	7	128	27%	68%	5%
Min					15%	52%	4%
Max					39%	81%	9%

Question 9D	I						
Registrar	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	197	768	72	1037	19%	74%	7%
governmental	6	27	2	35	17%	77%	6%
individual	285	593	118	996	29%	60%	12%
isp	43	172	18	233	18%	74%	8%
non-commercial	50	139	12	201	25%	69%	6%
not stated	5	22		27	19%	81%	0%
other	41	165	7	213	19%	77%	3%
registrar-registry	28	93	7	128	22%	73%	5%
Min					17%	60%	0%
Max					29%	81%	12%

Question 9E	1		Ī				
Date of registration	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	340	619	77	1036	33%	60%	7%
governmental	16	15	4	35	46%	43%	11%
individual	476	390	123	989	48%	39%	12%
isp	92	117	23	232	40%	50%	10%
non-commercial	90	96	16	202	45%	48%	8%
not stated	6	21	1	28	21%	75%	4%
other	74	128	12	214	35%	60%	6%
registrar-registry	44	71	12	127	35%	56%	9%
Min					21%	39%	4%
Max					48%	75%	12%

Question 9F							
Date of expiration	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	267	680	87	1034	26%	66%	8%
governmental	16	14	5	35	46%	40%	14%
individual	388	470	135	993	39%	47%	14%
isp	77	134	21	232	33%	58%	9%
non-commercial	76	103	23	202	38%	51%	11%
not stated	10	17	1	28	36%	61%	4%
other	74	121	19	214	35%	57%	9%
registrar-registry	33	82	13	128	26%	64%	10%
Min					26%	40%	4%
Max					46%	66%	14%

Question 9G	I						
Registrant	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	219	700	116	1035	21%	68%	11%
governmental	10	23	2	35	29%	66%	6%
individual	275	455	266	996	28%	46%	27%
isp	71	144	18	233	30%	62%	8%
non-commercial	43	134	26	203	21%	66%	13%
not stated	4	21	3	28	14%	75%	11%
other	36	160	18	214	17%	75%	8%
registrar-registry	31	77	18	126	25%	61%	14%
Min					14%	46%	6%
Max					30%	75%	27%

Question 9H							
Tech-C	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	286	623	123	1032	28%	60%	12%
governmental	7	25	3	35	20%	71%	9%
individual	327	488	181	996	33%	49%	18%
isp	43	174	14	231	19%	75%	6%
non-commercial	56	124	24	204	27%	61%	12%
not stated	8	17	3	28	29%	61%	11%
other	67	131	14	212	32%	62%	7%
registrar-registry	43	71	12	126	34%	56%	10%
Min			-		19%	49%	6%
Max					34%	75%	18%

Question 9I	1		Ī				I
Adm-C	desirable	essential	valueless	Total	% des.	% ess.	% valless
commercial	283	621	125	1029	28%	60%	12%
governmental	11	21	3	35	31%	60%	9%
individual	336	433	222	991	34%	44%	22%
isp	60	149	23	232	26%	64%	10%
non-commercial	68	112	24	204	33%	55%	12%
not stated	11	17	1	29	38%	59%	3%
other	61	141	12	214	29%	66%	6%
registrar-registry	32	78	17	127	25%	61%	13%
Min					25%	44%	3%
Max					38%	66%	22%

Not surprisingly in light of the responses to question 8, more than half of respondents found each individual data element now in the com/net/org Whois to be essential. Perhaps more remarkably, this held true for nearly every category of respondent with respect to nearly every data element. The lowest proportion of "essential" responses to any part of this question was 39%, by individual respondents with regard to the date of registration data element; and even there, 48% of the same individual respondents called this data element "desirable," with only 12% deeming it "valueless." The clear trend of satisfaction among these respondents with the information currently provided to the public by Whois is evident in the responses to question 9 as well as 8.

Note: The gTLD constituency's and GA's representatives would like to see the responses received from the individual respondents revisited.

#### Question 10

The first question was whether "WHOIS" databases should allow the search of data elements other than domain names. It should be noted that most respondents in every category (between 53 and 76%) are willing to conduct searches on data elements other than domain names.

Question 10	yes	no	Total	% yes	% no
commercial	712	322	1034	69%	31%
governmental	23	11	34	68%	32%
individual	530	462	992	53%	47%
isp	147	85	232	63%	37%
non-commercial	134	65	199	67%	33%
not stated	17	10	27	63%	37%
other	163	52	215	76%	24%
registrar-registry	72	56	128	56%	44%
Min				53%	24%
Max				76%	47%

Respondents were also asked to select fields which should be usable as search keys. Multiple fields could be checked by respondents. In the first table below, we list the number of respondents from each category who checked a particular search key.

Question 10 (keys)	Α	В	С	D	Е	F	G	Н	
Commercial	470	432	381	397	274	284	492	415	414
governmental	19	20	16	17	7	7	17	13	13
Individual	344	342	307	292	180	198	304	256	257
Isp	111	99	98	83	39	47	82	77	73
non-commercial	89	90	80	57	35	36	86	79	67
not stated	8	6	10	7	6	7	11	9	5
Other	105	94	87	85	62	64	122	101	103
Registrar-registry	43	41	36	36	17	18	37	30	32

For the percentages, note that the total number of respondents in each category is used as the 100% totality. Since multiple fields could be selected, percentages will generally add up to more than 100%.

Question 10 (keys; %)	Α	В	С	D	Е	F	G	Н	1
Commercial	44%	41%	36%	37%	26%	27%	46%	39%	39%
governmental	54%	57%	46%	49%	20%	20%	49%	37%	37%
Individual	34%	33%	30%	29%	18%	19%	30%	25%	25%
Isp	47%	42%	42%	35%	17%	20%	35%	33%	31%
non-commercial	43%	43%	38%	27%	17%	17%	41%	38%	32%
not stated	7%	5%	8%	6%	5%	6%	9%	7%	4%
Other	47%	42%	39%	38%	28%	29%	55%	45%	46%
Registrar-registry	33%	32%	28%	28%	13%	14%	28%	23%	25%

A plurality (commercial respondents but also governmental, non—commercial and "others") underlined that the name, postal address of the registrants should also be used as search keys. Governmental and individual respondents underlined the need to search information on the registered domain by using the IP addresses of the primary and secondary name servers; ISPs, non commercial and registrars/registries underlined their will to use as search keys the name of the second level domain registered.

Respondents' answers when asked whether other enhancements to searchability (such as Boolean searches) should be provided can be found in the table below.

Question 10 (Boolean)	yes	no	Total	% yes	% no
commercial	464	506	970	48%	52%
governmental	14	20	34	41%	59%
individual	338	603	941	36%	64%
isp	96	126	222	43%	57%
non-commercial	83	102	185	45%	55%
not stated	16	11	27	59%	41%
other	116	91	207	56%	44%
registrar-registry	37	81	118	31%	69%
Min				31%	41%
Max				59%	69%

A plurality (commercial respondents but also governmental, non—commercial and "others") underlined that the name, postal address of the registrants should also be used as search keys. Governmental and individual respondents underlined the need to search information on the registered domain by using the IP addresses of the primary and secondary name servers; ISPs, non commercial and registrars/registries underlined their will to use as search keys the name of the second level domain registered.

#### Analysis of free-form responses

#### Question 8.1

As mentioned in the section of methodology, we can not, at this point of time, present any reasonable quantitative findings from the basketing performed so far on a subset of 303 questionnaires. For this reason, we shall only mention that additional contact information was the most popular category of response observed. Non–basketed responses included suggestions such as a non–binding purpose of the domain registration, statements on registrant privacy, data accuracy, and the like.

#### Question 10

In this case, 214 out of 303 respondents did not answer the question. One response was garbled, 15 could not be easily classified, and two await translation.

Out of the remaining 71 responses, 18 said the registrar or registry should pay, 29 said the registrant should pay, and 21 said that search users should pay. 2 respondents suggested that some kind of donation should be used, and 1 respondent mentioned ICANN. Among those who could not easily be classified under the current basketing system, several mentioned advertising, the free software community, or alleged that there is no cost.

The task force may adjust the basketing system used for this question before the full set of submissions is attacked.

# III. Uniformity and Centralization (qq. 11-15)

By Karen Elizaga, Miriam Sapiro, amd Ram Mohan (gTLD registry constituency)

## A Summary

It appears that a majority of respondents to Questions 11 through 15 of the Whois Survey support the idea of uniformity and centralized access of Whois data. What is less clear is who or what entity should bear the costs of implementing such a system.

Note that these conclusions are made without the benefit of having reviewed the free text responses within Questions 11 through 15 to the extent that respondents indicated such responses. Such review will be undertaken by the Task Force following the ICANN meetings in Ghana.

#### **B** Questions Asked

Questions 11 through 15 generally cover the concept of providing Whois information in a uniform manner so that the data elements within any Whois database generally would correspond with the data elements in another, as well as the concept of universal access to Whois data, obviating the need for a data requester to seek Whois data from several sources. In particular, some of the questions address the conformity of information within the ccTLDs to other gTLDs, in particular .com, .net and .org. With respect to centralization of Whois information into one universal database, the survey asks to what extent universal Whois should indeed be universal.

For reference, the survey included the following questions 11 through 15:

11. Do	you use WHOIS in ccTLDs?
<b></b>	Yes
<b></b>	No
12. Do	you think that the data elements used in .com, .net, and .org
should	be available uniformly in country code top-level domains?
ב	Yes
<b>_</b>	No

	Why	or	why	not?
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Uniform	data format to WHOIS
13. Do y	you support the concept of uniformity of WHOIS data format
and serv	vices?
	Yes
	No
What, in	your view, is the best way to achieve uniformity both in format
and sea	rch capability across Whois services?
Centrali	zed portal access to WHOIS
14. Do y	you support the concept of centralized public access to WHOIS
– e.g., a	a "one-stop" point of WHOIS to access information:
	Yes
	No
a. Acros	ss .com/.net/.org?
	Yes
	No
b. Acros	ss all gTLDs (i.e., including the new TLDs)?
	Yes
	No
c. Acros	s all TLDs? (i.e., including country code TLDs)?
	Yes
	No
If appro	priate, what, in your view, is the best way to achieve the level
of centra	alized public access that you support?
15. Who	should bear the cost burden of implementing centralized
public a	ccess?
	Those who use the service should pay for it.
	It should be paid for by ICANN.
	Registrars should support it as a public service

- ☐ Should be part of the domain registration fee as it is today.
- Other.

#### C Results of Evaluation

To the extent that responses were provided, the Task Force evaluated the entire set of 3,035 responses, with the analysis being broken down by respondent category, as specified in Question 1.

#### Question 11

Question 11	yes	no	Total	% yes	% no
commercial	588	406	994	59%	41%
governmental	17	15	32	53%	47%
individual	385	554	939	41%	59%
isp	172	54	226	76%	24%
non-commercial	110	83	193	57%	43%
not stated	17	9	26	65%	35%
other	115	93	208	55%	45%
registrar-registry	80	45	125	64%	36%
Min				41%	24%
Max				76%	59%
Total	1484	1259	2743	54%	46%

With a total of 2,743 respondents answering Question 11, roughly 54% of these respondents indicated that they used Whois within ccTLDs. It is interesting to note that roughly 70% of these respondents were commercial or individual respondents. Of the commercial respondents, 59% indicated that they used ccTLD Whois databases, while only 41% of individual respondents use such databases. It is clear that notwithstanding the low number of ISP respondents, ISPs indicated the highest use of ccTLD Whois databases, while individuals form the largest percentage of those who do not use ccTLD Whois (59%). Although the number of respondents in the registrar–registry category was low in comparison to the number of the other respondents, a majority of that category indicated use of the ccTLD Whois databases.

#### Question 12

The free-form part of question 12 has not yet been evaluated by the members of the task force.

Question 12	yes	no	Total	% yes	% no
commercial	895	105	1000	90%	11%
governmental	30	4	34	88%	12%
individual	769	158	927	83%	17%
isp	205	25	230	89%	11%
non-commercial	162	32	194	84%	16%
not stated	26	2	28	93%	7%
other	190	16	206	92%	8%
registrar-registry	98	25	123	80%	20%
Min				80%	7%
Max				93%	20%
Total	2375	367	2742	87%	13%

Roughly 87% of the respondents to question 12 (2,742) indicated that the Whois data elements in .com, .net and .org also should be available uniformly in ccTLDs.

Responses to question 12 within each category indicated more of a clear trend in line with the overall percentage of respondents responding that Whois elements should be uniform. Across all categories, the vast majority of respondents within each category indicated that uniformity should exist across all TLDs (the average of those respondents answering yes to question 12 across all eight categories was 87%).

Question 13

The free-form part of question 13 has not yet been evaluated by the members of the task force.

Question 13	yes	no	Total	% yes	% no
commercial	946	71	1017	93%	7%
governmental	31	2	33	94%	6%
individual	881	79	960	92%	8%
isp	219	15	234	94%	6%
non-commercial	177	19	196	90%	10%
not stated	25	2	27	93%	7%
other	200	9	209	96%	4%
registrar-registry	111	14	125	89%	11%
Min				89%	4%
Max				96%	11%
Total	2590	211	2801	92%	8%

Responses to question 13 indicate a general desire for uniformity across Whois data format and services, with 92% of 2,801 respondents answering yes to the concept. Across all categories, the responses were overwhelmingly in favor of uniformity, with most categories reaching the 90% threshold or higher – no category of respondents opposed in any significant numbers the concept. The defect in this question, however, is that it is not entirely unambiguous as to what "data format and services" are meant to be.

#### Question 14

The free-form part of question 14 has not yet been evaluated by the members of the task force.

Question 14	yes	no	Total	% yes	% no
commercial	895	126	1021	88%	12%
governmental	26	7	33	79%	21%
individual	831	148	979	85%	15%
isp	185	47	232	80%	20%
non-commercial	171	30	201	85%	15%
not stated	23	5	28	82%	18%
other	195	19	214	91%	9%
registrar-registry	97	27	124	78%	22%
Min				78%	9%
Max				91%	22%
Total	2423	409	2832	86%	14%

For question 14, a majority of the 2,832 respondents (86%) indicated that they supported centralizing access to the Whois databases, which would obviate the need for data requesters to search Whois databases within various registrars or across TLD registries (including both gTLDs and ccTLDs). The categories of respondents in which the largest minority rejected centralized access were the governmental, ISP and registrar–registry respondents, with 21%, 20% and 22%, respectively, answering that they did not support such a concept.

Question 14.a	yes	no	Total	% yes	% no
commercial	910	86	996	91%	9%
governmental	27	4	31	87%	13%
individual	836	103	939	89%	11%
isp	190	33	223	85%	15%
non-commercial	162	21	183	89%	11%
not stated	23	3	26	88%	12%
other	194	14	208	93%	7%
registrar-registry	105	14	119	88%	12%
Min				85%	7%
Max				93%	15%
Total	2447	278	2725	90%	10%

Responses to question 14(a), addressing the idea of centralized public access across .com, .net and .org, elicited more support, with almost 90% of 2,725 respondents indicating their support. There was not much variation in responses as between the respondent categories.

Question 14.b	yes	no	Total	% yes	% no
commercial	875	105	980	89%	11%
governmental	23	7	30	77%	23%
individual	791	131	922	86%	14%
isp	189	32	221	86%	14%
non-commercial	160	25	185	86%	14%
not stated	19	4	23	83%	17%
other	190	15	205	93%	7%
registrar-registry	97	23	120	81%	19%
Min				77%	7%
Max				93%	23%
Total	2344	342	2686	87%	13%

The responses to question 14(b), inquiring about support for centralized access to Whois across all gTLDs indicated that roughly 87% of the 2,686 respondents replied yes. This concept garnered the least support from the governmental category, with 23% of those respondents objecting to such centralized access.

Question 14.c	yes	no	Total	% yes	% no
commercial	849	135	984	86%	14%
governmental	23	8	31	74%	26%
individual	755	167	922	82%	18%
isp	175	48	223	78%	22%
non-commercial	157	29	186	84%	16%
not stated	20	4	24	83%	17%
other	188	17	205	92%	8%
registrar-registry	86	35	121	71%	29%
Min				71%	8%
Max				92%	29%
Total	2253	443	2696	84%	16%

The question 14(c) regarding centralized access to all TLDs, including ccTLDs, generated a majority response in support of such a concept, with roughly 84% of the 2,696 responses indicating support for centralized access. The strongest opposition of centralized access reaching across all TLDs came from the governmental and registrar–registry categories, with 26% and 29% of those respondents answering no.

#### Question 15

Question 15	Users	ICANN	Registrars	Registrants	Other	Total
commercial	96	96	246	552	28	1018
governmental	1		7	24	2	34
individual	66	84	251	526	38	965
Isp	9	22	67	124	6	228
non-commercial	13	15	35	122	11	196
not stated		5	8	13		26
Other	13	14	49	120	16	212
Registrar-registry	17	13	24	59	10	123
Total	215	249	687	1540	111	2802

Question 15 (percentages)	Users	ICANN	Registrars	Registrants	Other
commercial	9%	9%	24%	54%	3%
governmental	3%	0%	21%	71%	6%
individual	7%	9%	26%	55%	4%
Isp	4%	10%	29%	54%	3%
non-commercial	7%	8%	18%	62%	6%
not stated	0%	19%	31%	50%	0%
Other	6%	7%	23%	57%	8%
Registrar-registry	14%	11%	20%	48%	8%
Min	0%	0%	18%	48%	0%
Max	14%	19%	31%	71%	8%
Total	8%	9%	25%	55%	4%

When asked who should bear the cost burden of implementing a centralized Whois, the majority of respondents (just under 80%) indicated that either the cost should be incorporated into the domain registration fee (roughly 55%), or that the registrars should support it as a public service (around 25%). Just under 8% of the respondents thought that users should pay for such a service.

# D Findings and Discussion of Results

As stated above, a more detailed analysis of the results, including the free-text answers, will be undertaken following the ICANN meetings in Ghana. Findings and a discussion of the results will follow.

# IV. Resale/Marketing and Bulk Access (qq. 16, 17)

By Kristy McKee, Thomas Roessler, and Abel Wisman (General Assembly)

# A Summary

Based on preliminary analysis, the Task Force believes that cross-category consensus among respondents can be identified with respect to the following points:

- When asked whether registrars should be allowed to engage in resale or marketing use of WHOIS
  data, respondents appear to favor opt-in policies, or not allowing such use at all, over opt-out
  policies or unconditionally allowing such use.
- Respondents appear to agree that current bulk access provisions should be maintained in the gTLD
  environment, and that they should be extended to apply to other TLDs.

As opposed to these clear, but contradictory signals, there is a strong signal of indecision when respondents were asked whether or not to change the bulk access provisions. Free-form responses of those who suggested a change mirror the results from the "resale and marketing" question.

Since there is at least some clear evidence (in the responses to question 16) that the kind of third party data access policy favored by respondents appears to be different from the one currently implemented in the Registrar Accreditation Agreement, a review of that policy which keeps the survey's results in mind may be in order.

## **B** Questions Asked

The bulk access issue was covered by questions 16 and 17 of the survey. For your reference, we include the questions' text:

Sale and	d marketing of customer data				
6. Should registrars be allowed to engage in resale or marketing use					
of the registration contact information?					
<b>1</b>	Yes				
<b>1</b>	Yes, but only with the express permission of the				
	registrant (opt-in)				

u	Yes, but only after the registrant had the opportunity to
	opt-out.
	No

Bulk access/mandatory sale of customer data/manipulation and adding value to customer data

The current provisions with regard to the mandatory sale of Whois data, and uses that can be made of the data obtained through bulk access, are contained in the Registrar Accreditation Agreement at sections 3.3.6 and following<sup>11</sup>, Third Party Bulk Access to Data.

These provide for the mandatory sale of customer data on certain specific conditions. These conditions are discussed in terms of a contract between the registrar and a third party seeking access to the data. The data may not be used for mass unsolicited emailing, but can by inference be used for mass mailing (3.3.6.3), "other than such third party's own existing customers". In addition, the "Registrar's access agreement shall require the third party to agree not to use the data to enable high–volume automated electronic processes that send queries or data to the systems of any Registry Operator or ICANN accredited registrar, except as reasonably necessary to register domain names or modify existing registrations". (3.3.6.4)

The agreement says that the registrar "... may enable Registered Name Holders who are individuals to elect not to have Personal Data concerning their registration available for bulk access for marketing purposes based on Registrar's 'Opt–Out' policy, and if Registrar has such a policy Registrar shall require the third party to abide by the terms of that Opt–Out policy; provided, however, that Registrar may not use such data subject to opt–out for marketing purposes in its own value–added product or service." (3.3.6.6)

The text allows the Registrar discretion

- · to prohibit, or
- · to permit under conditions he chooses,

the use of the registrants' data

- to condition the subsequent use of the data (3.3.6.5), and
- to have a privacy policy, or not, (3.3.6.6)

but unless the registrar takes positive steps to have a privacy policy

<sup>11 &</sup>lt;a href="http://www.icann.org/registrars/ra-agreement-17may01.htm#3.3.6.3">http://www.icann.org/registrars/ra-agreement-17may01.htm#3.3.6.3</a>

different from the Registration Agreement, the registrant's personal

data is available as the Agreement prescribes. "Personal data" refers
exclusively to data about natural persons.
17. Do you think that:
a. These provisions should be maintained in the gTLD environment?
Yes
□ No
b. These provisions should be extended to apply to other TLDs
(subject to any comments in 12)? <sup>12</sup>
Yes
□ No
c. As a user would you welcome information from your chosen service
provider introducing you to the additional services they may be able to
provide?
☐ Yes
□ No
d. These provisions should be changed?
☐ Yes
□ No
If so, how?

## C Method of Evaluation

The multiple choice questions were evaluated for the full set of 3035 submitted responses. This analysis is also broken down by respondent's category (as given in question 1).

The free-form part of question 17.d was evaluated manually on the pseudo-random set of 303 responses described in the introduction to this report. An analysis of the full set of answers to question 17.d may be undertaken after the Ghana meeting.

In order to derive results from the free-form answer to question 17.d the following set of "baskets" was

<sup>12</sup> Question 12 asks whether respondent thinks that the data elements used in .com, .net, and .org should be available uniformly in country code top—level domains, and asks for reasons for respondent's opinion. This question is evaluated in chapter III (Uniformity and Centralization).

agreed upon by the members of the task force:

- No answer
- · No bulk access or sale of data
- · No bulk access for marketing
- Opt-in before any sale or bulk access
- Opt-in before any sale or bulk access for marketing purposes
- · Improve opt-out
- · Better privacy protection
- · Relax current restrictions

## D Results of Evaluation

## Overall analysis of multiple-choice questions

The table below summarizes the results from the multiple-choice parts of questions 16 and 17.a-d. For each question, we list the number of respondents for each choice, and the corresponding percentages. This is done both for the full set of questionnaires, and for the selected subset of 303 responses which are used in the next section of this analysis

Question	Answer	All responses	Selected 303	% All Responses	% selected 303
16	Yes	83	4	3%	1%
	Opt-out	236	24	8%	8%
	Opt–in	1054	113	37%	40%
	No	1488	145	52%	51%
	Total	2861	286		
17.a	Yes	1665	172	66%	67%
	No	850	85		33%
	Total	2515	257		
17.b	Yes	1611	162		64%
	No	862	92		36%
	Total	2473	254		
17.c	Yes	1079	95	42%	36%
	No	1489	168	58%	64%
	Total	2568	263		
17.d	Yes	1173	121	49%	49%
	No	1223	125	51%	51%
	Total	2396	246		

It can be noted, that, with the exception of question 17.c ("As a user, would you welcome information from your chosen service provider?"), the results from the full set of responses lie within the  $1\sigma$ -neighborhood of the results from the selected 303 questionnaires.

# By-category analysis of multiple-choice questions

We now give by-category numbers of the answers given to multiple-choice questions.

## Question 16

Question 16	yes	opt-out	opt-in	no	Total
commercial	28	79	389	540	1036
governmental	3	3	12	17	35
individual	23	59	374	535	991
isp	7	15	69	142	233
non-commercial	4	36	64	96	200
not stated	1	2	11	11	25
other	7	25	97	85	214
registrar-registry	10	17	38	62	127

Question 16	% yes	% opt-out	% opt-in	% no
commercial	3%	8%	38%	52%
governmental	9%	9%	34%	49%
individual	2%	6%	38%	54%
isp	3%	6%	30%	61%
non-commercial	2%	18%	32%	48%
not stated	4%	8%	44%	44%
other	3%	12%	45%	40%
registrar-registry	8%	13%	30%	49%
Min	2%	6%	30%	40%
Max	9%	18%	45%	61%

Question 16	% opt-in/no	% opt-out/yes
commercial	90%	10%
governmental	83%	17%
individual	92%	8%
isp	91%	9%
non-commercial	80%	20%
not stated	88%	12%
other	85%	15%
registrar-registry	79%	21%
Min	79%	8%
Max	92%	21%

For question 16, a by-category tabulation shows that individuals participating in the survey had the

strongest demand for opt-in or stricter protection of their data (answers "opt-in" or "no"), with 92%. This desire was lowest in the non-commercial category of survey participants, where 80% demanded such protection. Opt-out approaches were most popular with non-commercial respondents (18%), and most unpopular with individual and ISP participants in the survey (6%). Permitting marketing and sales (the "yes" answer to this question) was most popular among governmental participants (9%), and most unpopular among non-commercial and individual participants.

### Question 17.a

Question 17.a	yes	no	Total	% yes	% no
commercial	600	290	890	67%	33%
governmental	19	8	27	70%	30%
individual	564	305	869	65%	35%
isp	144	79	223	65%	35%
non-commercial	122	61	183	67%	33%
not stated	13	8	21	62%	38%
other	118	68	186	63%	37%
registrar-registry	85	31	116	73%	27%
Min				62%	27%
Max				73%	38%

Between 62% and 73% of respondents suggest that bulk access provisions should be maintained in the gTLD environment. This demand is strongest in the registrar–registry communities, and weakest with participants from the "not stated" category.

### Question 17.b

Question 17.b	yes	no	Total	% yes	% no
commercial	580	298	878	66%	34%
governmental	17	9	26	65%	35%
individual	550	307	857	64%	36%
isp	138	79	217	64%	36%
non-commercial	112	69	181	62%	38%
not stated	14	7	21	67%	33%
other	120	61	181	66%	34%
registrar-registry	80	32	112	71%	29%
Min				62%	29%
Max				71%	38%

Between 62% and 71% of respondents suggest that bulk access provisions should be extended to apply to other TLDs. This demand is strongest with the registrar–registry communities, and weakest with the non–commercials.

### Question 17.c

Question 17.c	yes	no	Total	% yes	% no
commercial	376	526	902	42%	58%
governmental	9	21	30	30%	70%
individual	359	543	902	40%	60%
isp	80	142	222	36%	64%
non-commercial	83	102	185	45%	55%
not stated	13	9	22	59%	41%
other	91	102	193	47%	53%
registrar-registry	68	44	112	61%	39%
Min				30%	39%
Max				61%	70%

Distribution of responses varies stronger than usual with this question: The registrar–registry group of respondents states with a statistically significant majority of approximately 60% that they would welcome information from the chosen service provider. Commercial respondents have a significant majority against receiving such material, as do governmental (70%;  $\sigma$ =8%), individual, and ISP users. The statistical value of the majority in the non–commercial group is questionable.

#### Question 17.d

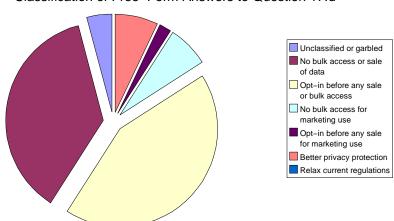
For this question, results are listed including error margins, so readers can better understand where valid majorities may be constructed from the results, and where not.

Question 17.d	yes	no	Total	% yes	% no	σ
commercial	415	415	830	50%	50%	2%
governmental	11	16	27	41%	59%	9%
individual	395	451	846	47%	53%	2%
isp	104	110	214	49%	51%	3%
non-commercial	90	87	177	51%	49%	4%
not stated	9	10	19	47%	53%	11%
other	100	76	176	57%	43%	4%
registrar-registry	49	58	107	46%	54%	5%
Min				41%	43%	
Max				57%	59%	

It does not seem possible to derive any results with strong validity from these results. Basically, all we can say is that half of the respondents suggest a change of bulk access provisions, and half of the respondents don't.

## Analysis of free-form responses to question 17.d

The free-form part of the question was answered on 99 out of the 303 questionnaires whose free-form responses were investigated by the task force's members. Of these responses, 2 could not be easily classified, and 2 more responses were garbled. Of those which could be classified according to the baskets listed above, 37 ended up in the "no bulk access or sale" basket, and another 43 were classified as "opt-in before any sale or bulk access". 7 respondents more specifically suggested no bulk access for marketing, and 2 respondents were categorized as "opt-in before marketing use". 9 respondents asked for improved opt-out, 7 generally asked for better privacy protection, and a no respondent suggested to relax the current restrictions.<sup>13</sup>



Classification of Free-Form Answers to Question 17.d

Calculating percentages, we find that 89% of the 99 free-form responses looked at ask for opt-in or stricter protection of their data when marketing use is suggested. When those answers which specifically mention marketing use are left out of the picture, we still have 80% of responses looked at which ask for opt-in or stricter protection of their data.

An analysis of free-form answers to this question by category of respondent has not yet been performed. (Note that the statistical value of any conclusions derived from such an analysis would be fairly limited.)

#### Findings and Discussion of Results Ε

#### Question 16

With the exception of the "other" and "not stated" categories of respondents, prohibiting resale or

<sup>13</sup> http://www.dnso.org/clubpublic/nc-whois/Arc00/msg00214.html

marketing use is preferred over an opt-in approach to that use. Across all categories, opt-in is in turn preferred over opt-out and a plain allowance for registrars to engage in such use.

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Across categories, those who suggest opt-in or stricter protection represent between 79% and 92% of those who responded to this question.

#### Question 17.a

Question 17.a suggests that there is consensus across categories of respondents that bulk access provisions should be maintained in the gTLD environment.

During task force discussions, doubts were raised about how the question should be interpreted: One member understood it to mean that some kind of bulk access provisions should be maintained, while another member suggested that the question referred to the specific bulk access provisions described on the questionnaire. However, the latter interpretation may lead to a contradiction with question 17.d. Also, it was questioned whether the analysis of the responses to this question is consistent with the results from question 16.

#### Question 17.b

It appears that there is consensus across categories of respondents that, whatever bulk access provisions are agreed, if any, these should be extended to other TLDs. The same caveats as with question 17.a apply.

#### Question 17.c

As a preliminary finding, it can be stated that majorities of the registrar–registry (and "not–stated") groups of respondents have a tendency to welcome advertising from the chosen service provider. On the other hand, majorities of governmental, commercial, individual, and ISP respondents stated that they would not welcome such advertising. While there is certainly no consensus across categories, it is worth noting that majorities of most of those groups of respondents who would *receive* the advertising material would *not* welcome it, while majorities of those groups who would *send out* the material say that they would indeed welcome it "as a user".

Note: The gTLD constituency would like to see the fact reflected that more than one third of respondents in the commercial (42%), individual (40%), and ISP (36%) categories would welcome such advertising material.

## Question 17.d

Taking error margins into account, the yes-no part of this question leads to an undecided result, or to thin majorities in some of the categories.

The result of the evaluation of the usual selection of free—form responses which were given by those who do suggest a change of bulk access provisions look very similar to the results from question 16:

Approximately 90% of these respondents favor opt-in policies, or no access over opt-out approaches, or unlimited access.

# V. Third Party Services (qq. 18, 19)

By Troy Dow, Bret Fausett, and Oscar Robles-Garay (Business and ccTLD Constituencies)

# A Questions Asked

Question for registrars, ISPs, and hosting companies
18. Where non-disclosure of the name and address is requested by
the Domain Registrant, the ICANN Accreditation Agreement allows for
a name and address of a third party to be used where the third party
has an agreement with the Registrant, does your company offer this
service to its customers?
□ Yes
□ No
Question for the public
19. To protect your privacy if you were offered the opportunity to use
the name and address of a third party to act as your agent, would you
register domains in the name of the third party rather than your own
name.
□ Yes
□ No

# B Results of Evaluation

Question 18

Question 18	yes	no	Total	% yes	% no
commercial	115	248	363	32%	68%
governmental	2	9	11	18%	82%
individual	63	155	218	29%	71%
isp	88	128	216	41%	59%
non-commercial	14	50	64	22%	78%
not stated	3	7	10	30%	70%
other	32	38	70	46%	54%
registrar-registry	45	42	87	52%	48%
Min				18%	48%
Max				52%	82%

# Question 19

Question 19	yes	no	Total	% yes	% no
commercial	361	574	935	39%	61%
governmental	21	12	33	64%	36%
individual	455	463	918	50%	50%
isp	85	131	216	39%	61%
non-commercial	67	118	185	36%	64%
not stated	14	15	29	48%	52%
other	93	90	183	51%	49%
registrar-registry	46	62	108	43%	57%
Min				36%	36%
Max				64%	64%

# VI. Other Comments (q. 20)

## A Questions Asked

Question 20 asked respondents for free-form answers to a variety of questions.

Please consider the following:

20a. What, in your view, is the most important personal privacy interest applicable to the WHOIS database?

20b. What, in your view, is the most important consumer protection interest applicable to the WHOIS database?

20c. What, in your view, is the most important law enforcement interest applicable to the WHOIS database?

20d. What, in your view, is the most important interest with respect to protection of minors applicable to the WHOIS database?

20e. What, in your view, is the most important network operational interest applicable to the WHOIS database?

20f. What, in your view, is the most important competitive or economic interest applicable to the WHOIS database?

20g. What, in your view, is the most important interest with respect to intellectual property rights that is applicable?

20h. What other interests, besides those listed above, should be considered with regard to the WHOIS database?

Free text area for any other comments:

# **B** Method of Evaluation

The evaluation of the results from this question (which obviously requires human attention) has not yet been undertaken by the members of the task force, and is on the Task Force's post–Ghana agenda.

# VII. Final conclusions

Final conclusions will be drawn during the Task Force's post-Ghana work.

# VIII. Task Force Members; Contact

## A Authors of This Report

Those raw numbers in this report which concern the total set of responses received were prepared by ICANN staff. The numbers which concern the set of 303 statistically selected responses were generated by the General Assembly's representatives to the task force, Kristy McKee, Abel Wisman, and Thomas Roessler. Kristy, Abel and Thomas also produced the skeleton of this report.

Individual sections were worked on by the following individuals:

- History and Mission: Marilyn Cade (BC), Tony Harris (ISPC), Tim Denton (Registrars), and YJ Park (NCDNHC).
- *User Requirements and Experience:* Steve Metalitz and Laurence Djolakian (IPC), and Ken Stubbs (Registrars)
- *Uniformity in WHOIS Access:* Miriam Sapiro, Ram Mohan, and Karen Elizaga (all gTLD registries constituency)
- *Marketing and Bulk Access to WHOIS Data:* Kristy McKee, Abel Wisman, and Thomas Roessler (all GA), with substantial additional input from the gTLD and intellectual property constituencies.
- Third Party Agents: Troy Dow and Bret Fausett (Business Constituency), and Oscar Robles–Garay (ccTLD constituency)

### B Archives and Contact

The WHOIS task force's public discussions are archived at <a href="http://www.dnso.org/clubpublic/nc-whois/Arc00/">http://www.dnso.org/clubpublic/nc-whois/Arc00/</a>. The task force can be reached by contacting its co-chairs, Marilyn Cade <a href="mailto:mcade@att.com">mcade@att.com</a> (Business Constituency), and Tony Harris <a href="mailto:harris@cabase.org.ar">harris@cabase.org.ar</a> (ISPCP).

## C Members of the Task Force

#### Co-chairs:

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#### **Members**

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Paul Kane, Registrar and original chair Danny Younger, former GA Chair Axel Aus der Muhlen, IPC Theresa Swinehart, BC