# **ICANN GNSO WHOIS Technical Requirements Survey**

This survey aims to measure the level of support for various technical requirements outlined in the GNSO WHOIS service requirement report (http://gnso.icann.org/issues/whois/whois-service-requirements-final-report-29iul10-en.pdf).

A report will be produced and delivered to the GNSO Council, December 2012, describing the results of the survey and recommendations for next steps for the GNSO Council's consideration concerning the WHOIS service requirements.

The Generic Names Supporting Organization (GNSO) Council's WHOIS Survey Working Group (WSWG) invites the Internet community to participate in a survey designed around an inventory of WHOIS technical components. The survey aims to measure the level of support for various technical requirements outlined in the WHOIS Service Requirements Report, as requested of ICANN Staff by the GNSO Council. The survey consists of 15 sections around 11 technical requirements, and it will be made available until 31 October 2012. Afterwards, the WSWG will produce a final report and deliver it to the GNSO Council toward the end of 2012. The report will describe the results of the survey and any agreed upon recommendations by the WG for the GNSO Council's consideration concerning WHOIS.

The survey is lengthy and therefore the option has been made available to **create an ID and return to the survey at a later time to complete it**. The survey tool will save all answers completed from the time the survey was last accessed. It is important that if the participant leaves the survey before submission or creation of an ID, the session may time-out with increased of risk losing answers.

Many sections of this survey will require a high degree of technical skill around WHOIS. If the participant feels that they may not understand a question or not possess the technical knowledge to answer it appropriately, then the participant is welcome to skip the question and move on to the next one. If completing the survey for an organization, the participant may wish to engage more technical personnel to help complete all sections of the survey.

The WSWG appreciates your participation and the working group looks forward to sharing the final results with the community. Please feel free to inform others about the availability of this survey to assist the working group with maximum participation.

For any questions or survey support, please write to policy-staff@icann.org.

There are 91 questions in this survey

#### **Survey Respondent Profile**

Background: This Section deals with the Survey Respondent Profile

1 [1]Which of the following terms best describes your use of WHOIS? *
Please choose all that apply:
Commercial business user
Non-commercial organization user
Governmental organization user
Individual or end user
☐ Domain name Registrar and/or Registry
☐ Internet access provider or network operator
☐ Other:
2 [12]What is the size of your organization?
Please choose only one of the following:
O Not Applicable
O 1-9
O 10-49
O 50-99
O 100-499
O 500-999
O 1,000-4,999
O 5,000+
O Do not know
In other words, what is the number of employees, staff or members in your organization?
3 [13]Where do you reside?
Please choose only one of the following:
O Afghanistan
O Albania
O Algeria
O Andorra
O Angola
O Antigua & Deps
O Argentina
O Armenia

0	Australia	
0	Austria	
0	Azerbaijan	
	Bahamas	
	Bahrain	
	Bangladesh	
	Barbados	
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	Belize	
	Benin	
	Bhutan	
	Bolivia	
	Bosnia Herzegovina	
	Botswana	
	Brazil	
Q	Brunei	
0	Bulgaria	
0	Burkina	
0	Burundi	
0	Cambodia	
0	Cameroon	
0	Canada	
Ō	Cape Verde	
	Central African Rep	
	Chad	
	Chile	
	China	
	Colombia	
	Comoros	
	Congo	
	Congo {Democratic Rep}	
	Costa Rica	
	Croatia	
	Cuba	
	Cyprus	
	Czech Republic	
	Denmark	
	Djibouti	
	Dominica	
	Dominican Republic	
	East Timor	
0	Ecuador	
	Egypt	
0	El Salvador	
0	Equatorial Guinea	
0	Eritrea	
0	Estonia	
0	Ethiopia	
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l	Ireland {Republic}
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	Korea North
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	Kosovo
	Kuwait
	Kyrgyzstan
1	Laos
	Latvia
	Lebanon
	Lesotho
	Liberia
	Libya
	Liechtenstein
	Lithuania
1	Luxembourg
	Macedonia
0	Madagascar
0	Malawi
0	Malaysia
0	Maldives
0	Mali
0	Malta
	Marshall Islands
	Mauritania
	Mauritius
	Mexico
	Micronesia
	Moldova
	Monaco
	Mongolia
	Montenegro
	Morocco
	Mozambique
	Myanmar, {Burma}
	Namibia
0	Nauru

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	New Zealand	
	Nicaragua	
	Niger	
	Palau -	
	Panama	
	Papua New Guinea	
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	Portugal Outer	
	Qatar Parasis	
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	Rwanda Chilifita & Novin	
	St Kitts & Nevis St Lucia	
	Saint Vincent & the Grenadines	
	San Marino	
	Sao Tome & Principe	
	Saudi Arabia	
	Senegal	
	Serbia Serbia	
	Sierra Leone	
	Singapore	
	Slovenia	
	Solomon Islands	
	Somalia	
	South Africa	
	South Sudan	
	Spain	
	Sri Lanka	
	Sudan	
0	Suriname	
0	Swaziland	
0	Sweden	
0	Switzerland	
0	Syria	
	Taiwan	
0	Tajikistan	
0	Tanzania	
0	Thailand	
	Togo	
0	Tonga	
0	Trinidad & Tobago	
0	Tunisia	
0	Turkey	
	Turkmenistan	
0	Tuvalu	

1	
	○ Uganda
	○ Ukraine
	United Arab Emirates
	United Kingdom
	United States
	○ Uruguay
	O Uzbekistan
	O Vanuatu
	O Vatican City
	O Venezuela
	O Vietnam
	○ Yemen
	O Zambia
	○ Zimbabwe
	A FACTURE AND A STORY OF THE ADMINISTRATION
	4 [16]How many ccTLD (country-code Top Level Domains, i.e.: .de, .au, .co.uk) domain names have you registered?
	Please choose only one of the following:
	O 1-9
	O 10-49
	○ 50-99
	O 100-499
	O 500-999
	0 1,000-4,999
	O 5,000+
	O Do not know
	O Not Applicable
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1	••
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	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9  10-49  50-99  100-499
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9  10-49  50-99  100-499  500-999
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 11,000-4,999
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1.9  10-49  50-99  100-499  500-999  1,000-4,999  5,000+  Do not know  Not Applicable
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know Not Applicable  6 [17] What was the general purpose of your registration?
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know Not Applicable  6 [17] What was the general purpose of your registration? Please choose all that apply:
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know Not Applicable  6 [17] What was the general purpose of your registration?  Please choose all that apply:  Commercial
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know Not Applicable  6 [17] What was the general purpose of your registration? Please choose all that apply:
	5 [15] How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know Not Applicable  6 [17] What was the general purpose of your registration?  Please choose all that apply:  Commercial
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 50-999 1,000-4,999 5,000+ Do not know Not Applicable  6 [17]What was the general purpose of your registration?  Please choose all that apply:  Commercial Governmental
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:    1-9
	5 [15]How many gTLD (generic Top Level Domains, ie: .com, .info .biz) domain names have you registered?  Please choose only one of the following:  1-9 10-49 50-99 100-499 500-999 1,000-4,999 5,000+ Do not know Not Applicable  6 [17]What was the general purpose of your registration?  Please choose all that apply:  Governmental Governmental Honcommercial organization

7 [18]How often do you use the WHOIS service on average?
Please choose only one of the following:
<ul> <li>Never</li> <li>Occasionally</li> <li>Weekly</li> <li>Once or twice a day</li> <li>Many times a day</li> </ul>
8 [19]How do you access the WHOIS information?
Please choose only one of the following:
<ul> <li>Website interfaces</li> <li>Direct server query access</li> <li>Both</li> </ul>
Direct server query access means using command line text applications (for the non-technical think about DOS commands before Windows became available) or machine to machine communications.
9 [20]Which of these best describes the most beneficial use of WHOIS to you or your organization?
Please choose all that apply:
To determine if a specific domain name is unregistered or available To find out the identity of a person or organization responsible for a domain name or web site 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 purposes To support government law enforcement activities (other than intellectual property) To monitor and manage groups of domains for self or on behalf of others Other: Website interfaces includes an interface to Registry, Registrar or 3rd party sources  10 [21]Do you maintain a WHOIS service for a Registrar, Registry Operator or Regional Internet Registry? Please choose only one of the following: Yes No
11 [22]If Yes, do you use WHOIS servers that are  Only answer this question if the following conditions are met:  ° ((21.NAOK == "Y"))
Please choose all that apply:
☐ Closed source written in-house
Open-source, with customizations
Open source without customizations
☐ Closed source, third party
12 [23]Please name the open or closed-source server you use, if applicable
Only answer this question if the following conditions are met:
° ((21.NAOK == "Y"))  Please write your answer here:
Today mile year another note.

13 [24]How did you become aware of the availability for this WHOIS Survey?
Please choose all that apply:
☐ WHOIS Survey Working Group Communications
☐ Webinar
☐ icann.org
☐ gnso.icann.org
☐ Email
Stakeholder or Constituency meeting
☐ Word of Mouth at ICANN Community meeting
☐ Social Media – (Facebook, Twitter, etc)
14 [1000] To you have any other comments are actions also distinction was useful with the walls about this continue also actions also a
14 [1900]If you have any other comments, suggestions, clarification you would wish to make about this section, please enter them here.  Please write your answer here:

## R1 - Provision of a publicly accessible and machine parsable list of domain names

Requirement #1: This Section deals with the provision of a publicly accessible and machine parsable list of domain names or IP locations of WHOIS servers operated by ICANN accredited Registrars, gTLD Registry Operators and ccTLDs Operators

15 [111]The WHOIS Requirements Inventory identifies the need for a publicly-accessible and machine-parsable list of domain names or IP locations of current, operating Registry, Regional Internet Registry and Registrar WHOIS servers.
Do you have a direct need for this list of WHOIS servers?
Please choose only one of the following:
O No, use pre-existing WHOIS tools and libraries and thus don't directly need such a list
O Yes, have written our own WHOIS clients and would use such a list
O No, have written our own WHOIS clients and would not use such a list
O No, do not have a use case for a list of WHOIS servers
O Yes, we would use this list for the reason stated in the comment box
O No, we would not use this list for the reason stated in the comment box
Make a comment on your choice here:
16 [112]The inventory of requirements suggests a number of possible approaches for WHOIS service discovery. Please identify your favorite
favorite
Flease choose only one of the following:
Flease choose only one of the following:  A naming convention (such as WHOIS.nic.TLD)
Flease choose only one of the following:  A naming convention (such as WHOIS.nic.TLD)  The use of SRV records
Please choose only one of the following:  A naming convention (such as WHOIS.nic.TLD)  The use of SRV records  The use of CNAME records (the 'WHOIS' command line tool looks up TLD.WHOIS-servers.net)
Please choose only one of the following:  A naming convention (such as WHOIS.nic.TLD)  The use of SRV records  The use of CNAME records (the 'WHOIS' command line tool looks up TLD.WHOIS-servers.net)
Flease choose only one of the following:  A naming convention (such as WHOIS.nic.TLD)  The use of SRV records  The use of CNAME records (the WHOIS' command line tool looks up TLD.WHOIS-servers.net)  Make a comment on your choice here:

## **R2 - Definition of a Standard Query Structure**

Requirement #2: This Section deals with the definition of a standard query structure that clients can implement and which all gTLD Registries and ICANN accredited Registrars will support. Standard Query refers to creating a consistent format/structure for asking a WHOIS service a question. A standard query structure allows a computer service to consistently interpret the questions submitted

17 [211]Do you have an interest in creating a standardized query structure for DNRD-DS servers?
Please choose <b>only one</b> of the following:
O Yes
O No
DNRD-DS means Domain Name Registration Data Directory Service. A newly defined terms by the SSAC in SAC-051.
18 [212]Select the following benefits of query standardization. Pick one or more
Please choose all that apply.
☐ Operational cost savings
☐ Easier access to data
Higher accuracy responses to queries
Query support in multiple languages
19 [213]Of those selected previous question, please select the single most important of the items according to you.
Please choose <b>only one</b> of the following:
Operational cost savings
C Easier access to data
O Higher accuracy responses to queries
Query support in multiple languages
20 [214]Assuming you can fully identify IDN registrations in Punycode/ASCII, is native multiple language support important to you for DNRD-DS queries?
Please choose <b>only one</b> of the following:
O Yes
An internationalized domain name (IDN) is an Internet domain name that contains at least one label that is displayed in software applications, in whole or in part, in a language-specific script or alphabet, such as Arabic, Chinese, Russian, Tamil or the Latin alphabet-based characters with diacritics, such as French. http://en.wikipedia.org/wiki/Internationalized_domain_name
Punycode is intended for the encoding of labels in the Internationalized Domain Names in Applications (IDNA) framework, such that these domain names may be represented in the ASCII character set allowed in the Domain Name System of the Internet. http://en.wikipedia.org/wiki/Punycode
21 [215]Where does standardization of "searchable DNRD-DS" queries (being the ability to search on attributes or linked data elements such as "street name" or "postal code") rank on a scale of 1 to 5. ["1" being Most Important and "5" being Least Important.]
Please choose only one of the following:
O 1
$\bigcirc$ 2
O 3
O 4
O 5

#### R3 - Definition of a standard data structure for WHOIS responses

Requirement #3: This Section deals with the definition of a standard data structure for WHOIS responses. The data structure would contain and uniquely identify the data elements that must be returned in a manner that assures there is no ambiguity across elements, correct syntax, and correct semantics

"Standard data structure" refers to a standard format or structure of information provided by a WHOIS service in response to a submitted query (question).

22 [311]Do you support a standardized data structure and schema for WHOIS responses?
Please choose <b>only one</b> of the following:
O Yes
O No
Schema refers to the design or mapping of data elements in the WHOIS response.
23 [312]Do you support a formal extension framework order so that WHOIS implementers may add additional data elements to the standard data structure and schema for WHOIS responses?
Please choose only one of the following:
O Yes
O No
Extension framework/mechanism is a structure provided to allow future (new) data elements to be added in such a way that the integrity of the existing standard data structure remains.
24 [313]Should the data structure allow for interpretation or output of WHOIS responses to non-English or non-Latin languages/scripts?
Please choose only one of the following:
O Yes
O No
The visual display of WHOIS information in displayed characters (i.e. Cyrillic) other than Latin based
25 [314]If Yes should this interpretation or output of WHOIS responses be based on localization of the client software (should the response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ° ((313.NAOK == "Y"))
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313.NAOK == "Y"))  Please choose only one of the following:
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313.NAOK == "Y"))  Please choose only one of the following:  Yes
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))  Please choose only one of the following:  Yes  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "Y"))  Please choose only one of the following:  Yes  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "Y"))  Please choose only one of the following:  Yes  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "\"))  Please choose only one of the following:  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "\"))  Please choose only one of the following:  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "\"))  Please choose only one of the following:  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "\"))  Please choose only one of the following:  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "\"))  Please choose only one of the following:  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "\"))  Please choose only one of the following:  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))
response vary based on a location indicator provided by the client either by IP address or a flag submitted with the WHOIS query)?  Only answer this question if the following conditions are met:  ((313,NAOK == "\"))  Please choose only one of the following:  No  Localization of client software refers to a Whois client interacting with Internet users in local language other than English or Latin based character sets given the locality settings on a web browser or language of browser itself.  26 [315] If No please recommend (with reasons) another more suitable mechanism for interpretation or WHOIS responses  Only answer this question if the following conditions are met:  ((313.NAOK == "\"))

27 [316]Should the data structure be flexible to allow humans to interpret it (should it be directly human readable or require machine interpretation)?
Please choose only one of the following:
O Yes
O No
28 [317]Should the data structure be optimized to allow programs to parse it?
Please choose only one of the following:
O Yes
O No
"Parse" refers to a machine separating and comprehending singular data elements from a larger, structured block of information.
29 [318]Should the data structure be XML based
Please choose only one of the following:
O Yes
O No
Xtensible Markup Language (XML) is a markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable. <a href="http://en.wikipedia.org/wiki/XML">http://en.wikipedia.org/wiki/XML</a>
30 [319]If No, please recommend with reasons another more suitable data structure
Only answer this question if the following conditions are met: ° ((318.NAOK == "N"))
Please write your answer here:

## R4 - Definition of a set of standardized error messages and standard handling of error conditions

Requirement #4: This Section deals with the definition of a set of standardized error messages and standard handling of error conditions. Examples of useful error messages include number of queries exceeding the WHOIS server's limit, no records found, unable to process query, etc.

31 [411]Do you support the use of standardized error messages as output from the WHOIS System?
Please choose only one of the following:
O Yes
O No
Standardized error messages refers to a consistently formatted error message provided by a Whois service with a consistent meaning.
Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client
32 [412]Please suggest examples of such standardized error messages
Please write your answer here:
33 [413]Do you support the use of standardized handling of error conditions within the WHOIS System?
33 [413]Do you support the use of standardized handling of error conditions within the WHOIS System?  Please choose only one of the following:
Please choose <b>only one</b> of the following:
Please choose only one of the following:  Yes No
Please choose only one of the following:  O Yes
Please choose only one of the following:  Yes No
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System
Please choose only one of the following:  Yes No  Error condition refers to a known type of or previously defined error encountered by the Whois Service or Whois client.  34 [414]Please suggest such error conditions within the WHOIS System

## **R5 - Submitting WHOIS queries for domain names**

Requirement #5: This Section deals with allowing users, when submitting WHOIS queries for domain names, to submit other related registration data elements as arguments to search functions. Registration data elements refers to known structured data elements in WHOIS services related to the domain name such as "Street" or "Registrat".

35 [511]  Should there be a way to search WHOIS records by data elements (other than domain name)?  Please choose only one of the following:  Yes  No  Other   36 [512]  Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  ((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Please choose only one of the following:  Yes  No  Other  36 [512]  Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  ((S11.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Other  36 [512]  Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  °((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Other  36 [512]  Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  "((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Other  36 [512]  Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  ° ((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
36 [512]  Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  ° ((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  ° ((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Please rate 1-7 below on the importance of specific data elements to be searchable  Only answer this question if the following conditions are met:  ° ((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Only answer this question if the following conditions are met:  ° ((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
° ((511.NAOK == "-oth-" or 511.NAOK == "1"))  Please select between 1 and 7 answers  Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Please number each box in order of preference from 1 to 7  Please choose at least 1 item(s)
Please choose at least 1 item(s)
Disease phenose are more than 7 item/a)
Please choose no more than 7 item(s)
Domain Name
Name Servers
Domain Registration Dates
Contact Name
Contact Email
Contact Address
Other
Understanding without standardized WHOIS data input format, not all elements will be supplied or available in standard format equally across all TLD's.
37 [513]Is there a need to Include (AND), Exclude (NOT) or Either (OR) search parameter options?
Please choose only one of the following:
O Yes
O No
O Other
(example: search "XYZ.com AND Donald Duck" which results in WHOIS server reporting only exact match of XYZ.com if Donald Duck is on the record)
38 [514]Is there a need to search by wild card?
Please choose only one of the following:
O Yes
O No
O Other
(example: search XYZ*.com searches for registered domains starting with 'XYZ' in the domain name that are available on the database being searched)
39 [515]Is there a need to search in native language, non-ASCII / Latin alphabet format?
Please choose only one of the following:
O Yes
O No
Other Other
Languages other than English or Latin character based. example: search using Arabic, Cyrillic, Tamil or other scripts

## R6a - Adoption of a structured data model for WHOIS data

Requirement #6a: This section deals with the adoption of a structured data model for WHOIS data that provides extensibility and changeability properties. It employs a formal data schema language such as XML to describe the characteristics of the structured data. Properties also give the ability of the WHOIS data model to evolve from current data elements to new data elements while maintaining the integrity of the original data structures.

40 [611]In order to improve the WHOIS service capabilities, we need for data to be extensible
Please choose only one of the following:
O Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
O Question does not matter
Make a comment on your choice here:
Extensible is said of a system (e.g., program, file format, programming language, protocol, etc.) designed to easily allow the addition of new features at a later date, e.g. through the use of hooks, an API or plug-ins.
41 [612]In order to improve WHOIS capabilities, we need for the required data elements to be changeable over time.
Please choose only one of the following:
O Strongly Disagree
○ Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
O Question does not matter
Make a comment on your choice here:
Required data elements are data elements required in WHOIS Services by virtue of policy or governing requirements.
42 [613]A formal definition of WHOIS Data is needed
Please choose <b>only one</b> of the following:
O Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
Citology Agree

43 [614]A formal modeling language such as XML should be used to create a data model for WHOIS
Please choose <b>only one</b> of the following:
Strongly Disagree
Mostly Disagree
O Don't have an opinion either way
Mostly Agree
Strongly Agree
O Question does not matter
44 [615]Work on such a model should be done by ICANN
Please choose only one of the following:
O Strongly Disagree
O Rout Lawrence Control of the Contr
O Don't have an opinion either way
O Mostly Agree
Ostrongly Agree
Question does not matter
45 [616]Work on such a model should include the IETF
Please choose only one of the following:
O Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
O Question does not matter
IETF - The Internet Engineering Task Force is an Internet focused technical standards body. http://www.ietf.org/
46 [617]WHOIS data collection techniques should insure that data is entered in a defined format
Please choose only one of the following:
O Strongly Disagree
O Mostly Disagree
O Dont have an opinion either way
O Mostly Agree
O Strongly Agree
O Question does not matter
Techniques the mechanisms by which WHOIS related data is gathered such as through Registries and in turn Registrars.
47 [618]WHOIS data collection techniques should allow for some fields to be made mandatory, mandatory fields are decided by Policy decision
Please choose only one of the following:
Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
O Question does not matter
Policy decision referring to requirements set by the Registry Operater or related governing bodies .

48 [619]WHOIS data collection techniques should require that all fields be made mandatory
Please choose <b>only one</b> of the following:
O Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
O Question does not matter

## R6b - Extending the currently defined set of registration data elements

Requirement #6b: Consider extending the currently defined set of registration data elements to include: alternative forms of contact than those currently collected; information that discloses the history or "Pedigree" of a domain; and additional registration service provider contact information

49 [621]The current "one size fits all" model for WHOIS data is sufficient for today's WHOIS needs
Please choose only one of the following:
○ Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
Strongly Agree
O Question does not matter
50 [622]The current "one size fits all" model for WHOIS data is sufficient for foreseeable WHOIS needs
Please choose only one of the following:
Strongly Disagree
○ Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
Strongly Agree
O Question does not matter
51 [623]It should be possible to include other forms of contact information for WHOIS
Please choose only one of the following:
O Strongly Disagree
O Mostly Disagree
On't have an opinion either way
O Mostly Agree
O Strongly Agree
Question does not matter
52 [624]It should be possible to collect contact information using a local address format for WHOIS
Please choose only one of the following:
Strongly Disagree
Mostly Disagree
On't have an opinion either way
Mostly Agree
Strongly Agree
Question does not matter
53 [625]It is appropriate to include other forms of contact information (such as social media) as one method of WHOIS contact
Please choose only one of the following:
○ Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
Question does not matter

54 [626]Information should be included on the history or "pedigree" of the domain, such as previous owner(s)
Please choose <b>only one</b> of the following:
O Strongly Disagree
O Mostly Disagree
O Don't have an opinion either way
O Mostly Agree
O Strongly Agree
O Question does not matter
"pedigree of the domain" means a journaled history of parties on record as holding the domain
pedigree of the domain infeats a journaled making of parties of record as nothing the domain
55 [627]Any Historical or "pedigree" information, such as previous owner, should be restricted to a single previous owner
55 [627]Any Historical or "pedigree" information, such as previous owner, should be restricted to a single previous owner
55 [627]Any Historical or "pedigree" information, such as previous owner, should be restricted to a single previous owner  Please choose only one of the following:
55 [627]Any Historical or "pedigree" information, such as previous owner, should be restricted to a single previous owner  Please choose only one of the following:  O Strongly Disagree
55 [627]Any Historical or "pedigree" information, such as previous owner, should be restricted to a single previous owner  Please choose only one of the following:  O Strongly Disagree  O Mostly Disagree
55 [627]Any Historical or "pedigree" information, such as previous owner, should be restricted to a single previous owner  Please choose only one of the following:  Strongly Disagree  Mostly Disagree  Don't have an opinion either way
55 [627]Any Historical or "pedigree" information, such as previous owner, should be restricted to a single previous owner  Please choose only one of the following:  Strongly Disagree  Mostly Disagree  Don't have an opinion either way  Mostly Agree

## **R7 - Internationalized Registration Data Requirements**

Requirement #7: The current WHOIS protocol has not been internationalized. It has no mechanism for indicating the character set in use. Currently, IDN guidelines are sufficient for recording and displaying domain names; however, no standards or conventions currently exist that would make WHOIS service more accessible to users whose local languages cannot be represented in US7ASCII.

56 [711]Should WHOIS clients (both port 43 and web) be required to accept a user query of domain name in either U-label or A-label format?
Please choose <b>only one</b> of the following:
O Yes
O No
U-label meaning Unicode Label and A-label meaning ASCII Label, details at <a href="http://idn.icann.org/IDN">http://idn.icann.org/IDN</a> basics#The two forms of an IDN label
57 [712]Should WHOIS clients display results of queries in both U-label and A-label for the domain names?
Please choose only one of the following:
O Yes
O No
58 [713]Should WHOIS responses include variants of an IDN label in the response as well?
Please choose <b>only one</b> of the following:
O Yes
O No
Variant of an IDN label Means variations on a IDN registrations that are defined as being exactly equivalent in use or meaning regardless of visual differences. http://idn.icann.org/IDN_basics
59 [714]Should WHOIS services return both A-label and U-label representation for the given IDN domains queried?
Please choose only one of the following:
O Yes
O No
http://idn.icann.org/IDN_basics
60 [715]Should WHOIS services return both A-label and U-label representations for nameserver names (to the extent that such information is available)?
Please choose only one of the following:
O Yes
O No
Nameserver names are delegate DNS nameservers associated with the domain. <a href="http://en.wikipedia.org/wiki/Domain_Name_System">http://en.wikipedia.org/wiki/Domain_Name_System</a>
61 [716]Should WHOIS services always make sponsoring Registrar information available in US7ASCII?
Please choose only one of the following:
O Yes
O No
US7ASCII is an English or Latin based character set defined as US7ASCII. In this case "English or Latin based language" could be substituted for US7ASCII.
62 [717]And if so, should WHOIS services always return the exact EPP27 status code for Registration Status.
Only answer this question if the following conditions are met:  ° ((716.NAOK == "Y"))
Please choose only one of the following:
O Yes
O No
EPP27 status code refers to defined status codes in the EPP protocol developed at the IETF versus Whois services returning a modified EPP status code non-compliant with the protocol. <a href="http://en.wikipedia.org/wiki/Extensible_Provisioning_Protocol">http://en.wikipedia.org/wiki/Extensible_Provisioning_Protocol</a>

#### **R8.1 - Defining an authentication framework for WHOIS**

Requirement #8.1: Define an authentication framework for WHOIS that is able to accommodate anonymous access as well as verification of identities using a range of authentication methods and credential services.

The inventory of WHOIS requirements identifies a need for authenticating WHOIS users (whether a person or a computer system) in order to provide elevated access rights, and to rate-limit incoming connections to ensure the WHOIS service isn't overloaded. Rate limiting becomes dramatically more complex in the IPv6 scenario.

Elavated access rights means the ability to provide more extensive access to WHOIS data to a defined group of WHOIS users. Rate limiting means the technical challenges of using traditional source-based IPv4 rate limiting methods in IPv6 networks.

63 [811]Should individuals, organizations or entities have a use case for lawful, elevated access rights to WHOIS data?						
Please choose all that apply:						
□ No						
Yes, as a member of law-enforcement agency						
Yes, as a member or staffer of my jurisdiction's judiciary						
Yes, due to provisions of the law in my jurisdiction						
Yes, as an employee of a Registry, Registry Operator or Registrar						
Yes, for other reasons						
Other:						
64 [812]If access rights to WHOIS were circumscribed (e.g. only to particular TLDs) please describe the constraints they should operate under.						
Please choose <b>only one</b> of the following:						
No constraints for elevated access rights						
Elevated access is constrained to a certain TLD						
Elevated access is constrained to a subset of TLDs						
O Elevated access to a list of domains regardless of TLD						
O Indifferent						
Computer systems People Both Indifferent None  'Automatic computer systems' mean computers that automatically and in some cases systematically submit large numbers of WHOIS queries.						
66 [814]Describe your preferred approach for being authenticated/verified while engaging your elevated access rights, if you have one.						
Please choose only one of the following:						
O No preference						
O SSL certificates						
○ Virtual Private Network (VPN)						
O Private IP address						
Other Other						
Authenticated/verified - the method by which a WHOIS user identifies themselves to the WHOIS services as a special class or group of users.						
67 [815]Should the WHOIS Service provide rate limiting to ensure the system is not overloaded?						
Please choose only one of the following:						
O Yes						
O No						
O Other						

## **R8.2 - Implementing an authorization framework**

Requirement #8.2: Implement an authorization framework that is capable of providing granular (per registration data object) permissions (access controls). For example, the ability to allow select WHOIS clients to access specific contact elements (such as law enforcement being able to see registrant contact phone numbers).

Registration data object - a described mechanism by which selected WHOIS users can have access to certain WHOIS data elements as set by the WHOIS services operator.

68 [821]Assuming these features are fully configurable and not mandatory to operate the system (but rather determined by policy), do you feel that DNRD-DS should have a standardized permissions framework for both DNRD-DS users (those querying the data) and for the data elements itself (meaning certain DNRD-DS users may see more or less data depending on their permission level – i.e. permission level A may see a registrant's address but permission level C may only see the registrant's name.)			
Please choose only one of the following:			
O Yes			
O No			
O Indifferent			
Make a comment on your choice here:			
DNRD-DS means Domain Name Registration Data Directory Service. A newly defined terms by the SSAC in SAC-051.			
69 [822]Do you believe that it would be technically and operationally useful to have all DNRD-DS users, even in open and anonymized DNRD-DS services have to make use of a login credential during the query process?  Please choose only one of the following:  Yes  No  Indifferent  Only in specific circumstances; please explain  Make a comment on your choice here:			
70 [824]Where do you see granulated access to DNRD-DS on a 1 to 5 scale of importance? ["1" being the Most Important, "5" being the Least Important]			
Please choose only one of the following:			
0 1			

71 [825]Is granulated access to DNRD-DS data a requirement in support of local laws in your operating jurisdiction?
Please choose only one of the following:
O Yes
O No
Granulated access is the restriction to deisgnated data elements to users who are members of certain groups by role or affiliation.

## R8.3 - Defining a framework and baseline set of metrics

Requirement #8.3: Define a framework and baseline set of metrics that can accommodate future policy development for auditing of WHOIS access. Auditing of WHOIS access means the ability to periodically review what users have accessed a given WHOIS service.

72 [831]What elements of WH should collect]	OIS access should be availabl	e for audit? [rank on a 1-3 scale: should	not collect, somewhat interesting,
Please choose the appropriate response fo	r each item:		
	should not collect	somewhat interesting	should collect
Requester IP address  Method of access (web, 3d party web service, port 43, bulk, other)  Requesting user-agent	0 0	0	0 0
Name of requester	0	Ŏ	Ö
Domain name requested	0	0	0
Date and time	O O	Ö	0
Response	Ö	0	O
Other	0	0	0
Requester IP address is the source IP address	ess a WHOIS user is issuing a WHOIS rec	uest from.	
Requesting user-agent is the WHOIS user of	or their agent directly.		
73 [832]Does the collection or	use of any of these elements	raise privacy or confidentiality concerns	?
Please choose <b>only one</b> of the following:			
O Yes			
O No			
74 [833]If YES, Please comme	nt		
Only answer this question if the following of ((832.NAOK == "Y"))	conditions are met:		
Please write your answer here:			
		IOIS access, what additional auditable months	
Please write your answer here:			
Auditable metrics are Metrics that are tracke	d and reviewable at a later date.		

## **R9 - New TLDs operating a thick WHOIS**

Requirement #9: All new TLDs should operate a thick WHOIS. Consistent with these recommendations for future WHOIS, new or legacy Registries should consider evolving to a thick WHOIS. Thick WHOIS is a WHOIS service operated by the Registry Operator that contains authoritative and full WHOIS information.

The new gTLD Program adopted thick WHOIS for all new gTLDs. Consistent with these recommendations for future WHOIS services, new or legacy registries could consider evolving to a thick WHOIS.

This item largely has been overtaken by events because of the terms of the new gTLD Applicant Guidebook. However, room exists for some questions that might be beneficial to successful applicants, as well as the operator of the existing thick Registries and legacy thick Registries.

76 [911]Should standardized tools for Registries/Registrars be developed to move RDDS from a thin to a thick Registry?
Please choose only one of the following:
O Yes
O No
77 [912]What is a reasonable timeframe for a legacy registry to move from thin to thick RDDS?
Please choose only one of the following:
O 3 months
O 6 months
O 1 year
O 18 months
O Depends on the size of the Registry
O Never

#### R10 - Definition of a standard data structure for WHOWAS responses

Requirement #10: WHOWAS Service provides an automated capability for a customer (which may be either a Registrar or non-Registrar) to look up a domain name and receive a response with the registration history for the entire life of that domain name, which also includes the domain name, registration dates and Registrar of Record for each period of time. A WHOWASservice could be provided by all Registries.

78 [1011]Do you support a standard, formal, extensible data structure and schema for WHOWAS responses?
Please choose only one of the following:
O Yes
O No
79 [1012]Should all standard WHOIS data elements be included for WHOWAS responses?
Please choose only one of the following:
O Yes
O No
80 [1013]Should the data structure allow for interpretation or output of WHOWAS responses to non-English or non-Latin languages?
Please choose only one of the following:
O Yes
O No
81 [1014]If Yes, should this interpretation or output of WHOWAS responses be based on localization of the client software?
Only answer this question if the following conditions are met: ° ((1013.NAOK == "Y"))
Please choose only one of the following:
O Yes
O No
localization of the client software means - should the Whois client be set to a given language or locale, will that trigger a response in that given language?
82 [1016]If No please recommend with reasons another more suitable mechanism for this interpretation or output of WHOWAS responses
Only answer this question if the following conditions are met: ° ((1013.NAOK == "N"))
Please write your answer here:
83 [1015]Should the data structure be flexible for humans to interpret?
Please choose only one of the following:
O Yes
O No

84 [1017]
Should the data structure be XML based?
Please choose only one of the following:
O Yes
O No
85 [1019]If No please, recommend with reasons another more suitable data structure
Only answer this question if the following conditions are met: ° ((1017.NAOK == "N"))
Please write your answer here:
86 [1020]Should there be a limited retention period for WHOWAS?
Please choose only one of the following:
O Yes
O No
87 [1021]If Yes,what should be the retention range?
Only answer this question if the following conditions are met:
° ((1020.NAOK == "Y"))  Please choose <b>only one</b> of the following:
O 6 months
O 1 year O 2 years
O 5 years
Other, Please specify with reasonUSE: Text Field, limit 140 characters
O Duration is configurable
Make a comment on your choice here:

#### **R11 - Registrars and Registries**

Requirement #11: Registrars and Registries should provide and publish abuse point of contact information as an element of a domain registration record. There are several ways this could be supported; for example, Registrars could populate the current sponsoring Registrar contact information with an abuse point of contact rather than a general purpose business contact. Alternatively, an abuse identifier that serves as an index into a publicly accessible table of abuse points of contact could be added to a registration record. These are further examples that demonstrate the utility of adopting an extensible data structure and formal schema.

It has been proposed that Registries and Registrars publish abuse point of contact information as an element of a domain name registration record. This means that responses to WHOIS queries about domain names would contain some information about an abuse point of contact at the Registry to which the domain name registration pertains, and at the Registrar which sponsors the particular registration.

88 [1111]In general, how important do you think it is that registries be required to include an abuse point of contact in results returned to WHOIS queries to that Registry?							
Please choose <b>only one</b> of the following:							
Very Important							
Somewhat Important							
O Not Important							
89 [1112]In general, how important is it that Registrars be required to include an abuse point of contact in results returned to WHOIS queries to that Registrar?							
Please choose only one of the following:							
O Very Important							
Somewhat Important							
O Not Important							
O Indifferent							
90 [1113]							
If an abuse point of contact is identified as part of WHOIS query results, please identify the ways in which you believe such a point of contact would be most valuable to you.							
Please choose the appropriate response for each item:							
	Very Important	Somewhat Imp	oortant	Not Important	Indifferent		
General Use of abuse point of contact	0	0		0	0		
Reporting false or inaccurate WHOIS data	0	0		0	0		
Reporting suspected malicious activity associated with the domain name	0	0		0	0		
Reporting violations of legal rights associated with the domain name	0	0		$\circ$	0		
Reporting technical problems associated with the domain name	0	0		0	0		
Other uses	0	0	0		0		
91 [1114]Several different methods have been suggested for displaying the abuse point of contact. Please indicate which you prefer.							
Please select between 0 and 1 answers							
Please choose the appropriate response	for each item:						
	Strongly prefer	Somewhat prefer	No preference	Somewhat oppose this method	Strongly oppose this method		
Abuse point of contact could be added to current Registrar or Registry contact information in WHOIS results	O	0	O	0	0		
Abuse point of contact substituted for current Registrar or Registry contact information in WHOIS results	0	0	0	0	0		
WHOIS results include a link to or index into a publicly accessible table of abuse points of contact	0	0	0	0	0		
Please only select one answer per row.							

Thank your for participating in this survey. For any questions, please write to  $\frac{policy-staff@icann.org}{1969-12-31-19:00}$ 

Submit your survey.
Thank you for completing this survey.